



*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 1 (AP-1)**

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### CERTIFICATION STATEMENT

This 2022 Annual Groundwater Monitoring and Corrective Action Report, Plant Hammond Ash Pond 1 (AP-1) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with 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).



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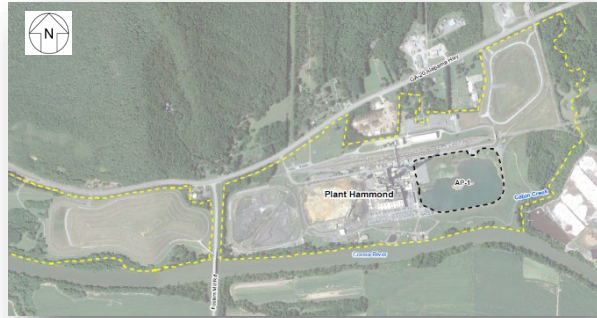
January 31, 2023  
Date



## 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 of January through December 2022 (referred to herein as the 2022 annual reporting period) at Georgia Power Company's (Georgia Power's) Plant Hammond Ash Pond 1 (AP-1) (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 6<sup>1</sup> 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. CCR material resulting from power generation were historically transferred and stored in AP-1 until 1969. After 1969, AP-1 was utilized as a co-treatment pond to handle return water flows from the other ponds and for recycling of process water for plant operations. The Site is located on the southeastern portion of the Plant Hammond property. The Georgia Environmental Protection Division (GA EPD) approved closure permit no. 057-023D(CCR) for AP-1 on June 22, 2020.



Plant Hammond and the Site

Groundwater at the Site is monitored using a comprehensive monitoring network that meets federal and state monitoring requirements. Routine sampling and reporting began after the background groundwater conditions were established between 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

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<sup>1</sup> 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

monitoring program. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the federal CCR Rule, groundwater data from the semiannual assessment monitoring events conducted during the 2022 annual reporting period were evaluated in accordance with the certified statistical methods. The evaluations identified statistically significant values of select Appendix III<sup>2</sup> and Appendix IV<sup>3</sup> 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 milligrams per liter [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. Statistical evaluations for the January/February and August 2022 events reflect these changes.

<b>Appendix III Constituent</b>	<b>January/February 2022</b>	<b>August 2022</b>
Boron	HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13	HGWC-7, HGWC-8, HGWC-9, HGWC-10, HGWC-11, HGWC-12, HGWC-13
Calcium	HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13	HGWC-8, HGWC-9, HGWC-12, HGWC-13
Chloride	HGWC-8, HGWC-9, HGWC-12	HGWC-8, HGWC-9
Sulfate	HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13	HGWC-7, HGWC-8, HGWC-9, HGWC-10, HGWC-11, HGWC-12, HGWC-13
Total Dissolved Solids	HGWC-9, HGWC-12, HGWC-13	HGWC-8, HGWC-9, HGWC-12, HGWC-13
<b>Appendix IV Constituent<sup>4</sup></b>	<b>January/February 2022</b>	<b>August 2022</b>
Arsenic	HGWC-13	HGWC-13
Molybdenum	HGWC-8	HGWC-8

<sup>2</sup> Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids

<sup>3</sup> Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

<sup>4</sup> 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.

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

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## LIST OF ACRONYMS AND ABBREVIATIONS

ACM	Assessment of Corrective Measures
AP-1	Ash Pond 1
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
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
<i>i</i>	horizontal hydraulic gradient
$K_h$	horizontal hydraulic conductivity
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 1 (AP-1) 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. 057-023D(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 arsenic and molybdenum 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-1 in January 2019. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-1 in accordance with the assessment monitoring program established for the unit, 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 SSLs for arsenic and molybdenum concentrations are horizontally and vertically delineated to below their corresponding groundwater protection standards (GWPS) and contained within the property boundary.



## **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 is a four-unit, coal-fired electric generating facility. All four units at Plant Hammond were decommissioned in July 2019 and no longer produce electricity.

AP-1 is a 35-acre surface impoundment located at Plant Hammond that received CCR materials from its commission in 1952 until 1969. After 1969, AP-1 was utilized as a co-treatment pond to handle return water flows from the other ponds and for recycling of process water for plant operations. Georgia Power has commenced closure of AP-1 through removal of the CCR material from the CCR unit; closure activities will be conducted in accordance with § 257.102 and corresponding Rule 391-3-4-.10(7)(b). 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, published in 2016 to Georgia Power's CCR Rule Compliance website. Closure permit no. 057-023D(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-1 as described in the *Hydrogeologic Assessment Report Revision 01 – AP-1* (HAR Rev 01) submitted to GA EPD in December 2019 in support of the AP-1 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-1 is underlain by the middle units of the Cambrian age Conasauga Formation, consisting of mostly shaley limestone. Subsurface investigations at AP-1 describe the

bedrock as limestone or shaley limestone. AP-1 is underlain primarily by five lithologic units: (i) fill; (ii) terrace alluvium; (iii) residuum; (iv) highly weathered/fractured shaley limestone bedrock; and (v) competent shaley limestone bedrock.

Based on subsurface investigations, the fill material is composed of lean clay or gravelly lean clay with sand from the construction of the pond. The terrace alluvium consists of unconsolidated sediments associated with deposition from the Coosa River and Cabin Creek. Alluvium was variously described as well sorted and poorly sorted sand, clayey sand, sandy gravel, clayey gravel, or gravelly clay. The residuum clay layer or native soils have been derived from the in-place weathering of the shaley limestone bedrock. The residuum is generally described as a lean to fat clay, sometimes silty with some sand, and rarely gravel. The subsurface investigation data suggest that the residuum thins out in places, and the alluvial deposits is in direct contact with the upper fractured or the unweathered limestone bedrock. Just below the residuum clay layer is a gradational zone of varying proportions of clayey residuum and sand, gravel, and cobble-sized angular pieces of partially weathered limestone, grading into a zone of fractured shaley limestone, before grading into unweathered, fresh shaley limestone bedrock. The upper highly weathered zone appears more as residuum with various sized rock fragments. The lower zone becomes less clayey with depth and is estimated to be approximately 10 feet thick. The limestone is described as medium to dark gray, very finely laminated with lighter and darker gray layers, and contains interbeds of calcareous shale.

### **1.2.2 Hydrogeologic Setting**

The uppermost aquifer at AP-1 is a regional groundwater aquifer that occurs in the terrace alluvium, residuum, and the weathered and fractured bedrock. The uppermost aquifer is considered to be unconfined; however, localized, semi-confined conditions may be encountered due to the low-permeability clayey nature of the residual soils, or as a result of perched groundwater or poorly interconnected fracture networks in the bedrock. The movement of groundwater in the uppermost aquifer can be characterized as low-to moderate permeability porous media flow. Groundwater flow in the more competent underlying bedrock is characterized as fracture flow. The regional groundwater flow direction is expected to be from north to south; however, the local flow direction proximal to AP-1 is to both the east and south under current pre-closure conditions. Under post-closure conditions, the groundwater flow direction is anticipated to resemble the regional flow regime more closely (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-1 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 monitoring wells have been installed since mid-2018 to characterize the nature and extent of arsenic, lithium, and molybdenum in groundwater downgradient of AP-1. Pursuant to § 257.195(g)(1)(iv), the wells classified as “assessment monitoring wells” (formerly known as “delineation monitoring 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.

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

No additional detection monitoring wells, assessment wells, or piezometers were installed during this 2022 annual reporting period.

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 A**. 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-1 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 identified SSLs of Appendix IV constituents exceeding their respective GWPS at AP-1 are arsenic in HGWC-13 and molybdenum in HGWC-8.

An alternate source demonstration (ASD) was prepared and submitted to GA EPD on January 29, 2021, to address the fluoride and lithium SSLs reported for MW-30D and the molybdenum SSL reported for MW-40D (Geosyntec, 2021a). A second ASD was prepared and submitted to GA EPD in August 2022 to address the SSL of lithium identified in MW-25D (Geosyntec, 2022c). Additional details of these ASDs are presented in Section 5.

Pursuant to § 257.96, an ACM was initiated for AP-1 in January 2019. An *Assessment of Corrective Measures Report – Plant Hammond Ash Pond 1 (AP-1)* (ACM Report) was subsequently prepared for AP-1 (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, 2022b). In accordance with § 257.96(b), groundwater continues to be monitored at AP-1 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-1 during this 2022 annual reporting period are summarized in **Table 2**. Details of these events and analytical results are discussed in Section 3.

### **2.3 Additional Groundwater Evaluations**

Supplemental groundwater samples were collected from the entire AP-1 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 B**.

To support remedial design and pilot test planning, twelve borings were advanced near HGWC-8 for the collection of remedial design parameters and screening-level groundwater data. These results will be summarized under separate cover in a pilot test work plan to be submitted tentatively during the first quarter of 2023.

### 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-1 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-1 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 at the Coosa River staff gauge located downgradient of AP-1; the water level within the ash pond was recorded from a surveyed measuring point located in the southwestern corner of AP-1. Both monitoring locations are shown on **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-1 area flows under the influence of topography from slightly higher elevations on the north side of the Site in a generally easterly and southerly direction.

#### 3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradients within the uppermost aquifer beneath AP-1 were calculated using the groundwater elevation data from the January/February and August 2022 events. Horizontal hydraulic gradients were calculated along the flow path south of AP-1 between HGWC-13 and MW-7 and between HGWC-8 and MW-20 along the flow path east of AP-1. The supporting calculations are presented in **Table 4**. The table also presents the average hydraulic gradients calculated from the January/February and August events. The general trajectory of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figures 3** and **4**. The calculated average hydraulic gradients along the southerly and easterly groundwater flow path lines associated with AP-1 for the 2022 annual reporting period are 0.019 feet per foot (ft/ft) and 0.024 ft/ft, respectively.

The approximate horizontal flow velocities associated with AP-1 were calculated using the following derivative of Darcy’s Law. The calculations are presented on **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 average horizontal hydraulic conductivity ( $K_h$ ) for AP-1 of 11.82 feet per day (ft/day) was computed from slug test data derived from ten locations across the AP-1 area and presented in the HAR Rev 01 (Geosyntec, 2019c). An estimated effective porosity ( $n_e$ ) of 0.15 is used to represent average conditions at AP-1, derived based on review of literature (Kresic, 2007), observed site lithology, and professional judgement. With these variables defined, and accounting for the averaged hydraulic gradient discussed above for the January/February and August 2022 events, the average groundwater flow velocity in the vicinity of AP-1, for the 2022 annual reporting period, was calculated to be 1.7 ft/day (i.e., average of the southerly and easterly flow velocities).

### **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 milligrams per liter (mg/L) or  $\pm$  10% (whichever is greater) for DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L, record only.
- Turbidity 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 B**.

### **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, and associated results, are listed in the analytical laboratory reports included in **Appendix B**. The groundwater analytical results from the 2022 annual reporting period are summarized in **Table 5**.

### **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 B**, 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 semiannual reporting period. The data were analyzed by Groundwater Stats Consulting (GSC); the reports generated from the analyses are provided in **Appendix C**.

### 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, 2020a). 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 the statistical analysis reports provided in **Appendix C** 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 6**. 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 6** 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 PL, 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 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 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 6**.

## **4.2 Statistical Analyses Results**

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

### **4.2.1 January/February 2022 Data**

- Arsenic: HGWC-13
- Molybdenum: HGWC-8

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix C**). No statistically significant trends were identified during this reporting cycle.

### **4.2.2 August 2022 Data**

- Arsenic: HGWC-13
- Molybdenum: HGWC-8

Wells with SSLs were further evaluated using the Sen's Slope/Mann Kendall trend test (**Appendix C**). No statistically significant trends were identified during this reporting cycle.

### **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 exceptions:

- No SSLs of molybdenum were identified in HGWC-7, HGWC-9, HGWC-11, HGWC-12, HGWC-13, and MW-19. All previously identified SSLs of molybdenum in these wells have at all times complied with the GWPS, as established by GA EPD on February 22, 2022.
- Lithium was detected in background detection monitoring well HGWA-44D at 0.048 mg/L during the January/February 2022 assessment monitoring event, and above the USEPA federal GWPS of 0.04 mg/L. As described in Section 4.1.2, the background concentration supersedes the federal GWPS, and as such, is established as the site-specific GWPS for subsequent evaluations. All previous SSLs of lithium reported in MW-25D have at all times complied with the GWPS of 0.048 mg/L, and therefore, was not identified as an SSL in this well for the 2022 annual reporting period.

## 5.0 NATURE AND EXTENT

Based on the groundwater data presented herein, the SSLs for wells and constituents identified in Section 4.2 have been horizontally and vertically delineated to below the established GWPS and are contained within the property boundary. Delineation is determined by confidence intervals (statistical analysis) prepared for the assessment wells discussed in the following paragraphs. Results of the statistical analyses are provided in **Appendix C**.

The identified SSL of arsenic in HGWC-13 is horizontally and vertically delineated to below the GWPS by MW-19 and MW-24D, respectively. Similarly, the SSL of molybdenum in HGWC-8 is horizontally and vertically delineated by MW-20 and MW-27D, respectively. The groundwater data from the January/February and August 2022 semiannual assessment monitoring events were used to generate the arsenic and molybdenum iso-concentration maps presented on **Figures 5, 6, 7, and 8**.

### 5.1 Alternate Source Demonstrations

An ASD is provided as an appendix to this report (**Appendix D**) to address the previous SSL of lithium identified in MW-25D; the ASD was submitted to GA EPD in August 2022. Geochemical evaluations using Piper and Stiff diagrams indicate that the chemical composition of groundwater sampled from well MW-25D shows no evidence of a CCR impact (i.e., as compared to the geochemistry of AP-1 pore water) and is similar to other deep background and slow recharge wells screened in bedrock (HGWA-43D, MW-30D, MW-40D). Secondly, all previous SSLs of lithium reported in MW-25D have at all times complied with the current GWPS of 0.048 mg/L.

## 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-1 in accordance with the assessment monitoring program regulations of § 257.95 while ACM efforts are implemented to address SSLs of arsenic and molybdenum in select AP-1 wells. Pursuant to § 257.195(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 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-1.

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-1 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-1 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-1 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-1 for the 2022 annual reporting period identified the continued presence of SSLs of arsenic and molybdenum in HGWC-13 and HGWC-8, respectively. Based on the most current groundwater quality, the SSLs are vertically and horizontally delineated to below their respective GWPS within the property boundary.

Georgia Power will continue to monitor AP-1 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-1 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

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# TABLES

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

Well ID	Hydraulic Location	Installation Date	Northing <sup>(1)</sup>	Easting <sup>(1)</sup>	Ground Surface Elevation (ft)	Top of Casing Elevation <sup>(1)</sup> (ft)	Top of Screen Elevation <sup>(1)</sup> (ft)	Bottom of Screen Elevation <sup>(1)</sup> (ft)	Well Depth (ft BTOC) <sup>(2)</sup>	Screen Interval Length (ft)
<b>Detection Monitoring Well</b>										
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-43D	Upgradient	8/26/2020	1550422.85	1940753.81	592.08	595.08	544.08	534.08	61.25	10
HGWA-44D	Upgradient	8/25/2020	1550409.13	1940756.19	592.01	594.79	491.76	481.76	113.50	10
HGWC-7	Downgradient	12/3/2015	1549520.67	1942319.75	576.55	579.18	561.55	551.55	27.96	10
HGWC-8	Downgradient	12/8/2015	1549114.61	1942392.56	577.14	579.82	564.64	554.64	25.51	10
HGWC-9	Downgradient	12/9/2015	1548693.30	1942215.03	577.72	580.36	543.72	533.72	46.97	10
HGWC-10	Downgradient	12/8/2015	1548469.25	1941644.43	576.76	579.37	566.76	556.76	22.94	10
HGWC-11	Downgradient	12/15/2015	1548477.91	1941146.79	578.12	580.67	565.19	555.19	25.78	10
HGWC-12	Downgradient	12/9/2015	1548476.53	1941152.34	578.14	580.73	555.64	545.64	35.42	10
HGWC-13	Downgradient	12/10/2015	1548628.03	1940900.60	592.94	595.76	560.94	550.94	45.15	10
<b>Assessment Monitoring Well</b>										
MW-5	Downgradient	11/4/2014	1548436.02	1942448.85	578.00	581.14	560.70	550.70	30.84	10
MW-6	Downgradient	11/4/2014	1548383.12	1941689.01	579.18	581.84	559.28	549.28	32.96	10
MW-7	Downgradient	10/30/2014	1548230.47	1941087.44	574.94	577.73	561.24	551.24	26.89	10
MW-19	Downgradient	9/26/2018	1548422.94	1940943.01	577.46	580.65	561.45	551.45	29.53	10
MW-20	Downgradient	9/27/2018	1549029.68	1942736.85	575.96	579.00	554.96	544.96	34.37	10
MW-24D	Downgradient	11/7/2018	1548638.80	1940900.37	592.91	595.68	532.91	522.91	72.77	10
MW-25D	Downgradient	11/6/2018	1548473.00	1941162.20	577.71	580.59	527.71	517.71	63.21	10
MW-26D	Downgradient	11/14/2018	1548699.91	1942222.36	577.63	580.41	512.63	502.63	78.11	10
MW-27D	Downgradient	11/8/2018	1549103.57	1942390.80	576.84	579.70	526.84	516.84	63.19	10
MW-28D	Downgradient	11/13/2018	1549510.90	1942321.14	576.20	579.08	531.20	521.20	58.21	10
MW-29	Downgradient	11/13/2018	1549437.67	1942633.60	572.14	575.06	557.14	547.14	28.25	10
<b>Piezometer</b>										
AP1A-1	Upgradient	12/15/2015	1550080.01	1941614.12	584.78	587.44	575.84	565.84	21.93	10
MW-1	Upgradient	12/2/2014	1549938.24	1941589.06	585.63	588.66	567.93	557.93	31.06	10
MW-8	Downgradient	10/29/2014	1548171.86	1940016.70	584.25	586.93	565.05	555.05	32.72	10
MW-30D	Downgradient	6/19/2019	1549530.00	1942318.45	576.20	578.59	481.20	471.20	107.72	10
MW-40D	Downgradient	4/29/2020	1549542.29	1942316.55	576.41	578.92	450.41	440.41	138.84	10

Notes:

ft = feet

ft BTOC = feet 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 data certified by GEL Solutions May 19, 2020. Survey data for HGWA-43D and HGWA-44D certified by GEL Solutions September 10, 2020.

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

**Table 2**  
Groundwater Sampling Event Summary  
Plant Hammond AP-1, Floyd County, Georgia

Well ID	Hydraulic Location	January 31 - February 10, 2022	August 2 - August 11, 2022	Status of Monitoring Well
Purpose of Sampling Event:		Assessment	Assessment	
<b><i>Detection Monitoring Well</i></b>				
HGWA-1	Upgradient	X	X	Assessment
HGWA-2	Upgradient	X	X	Assessment
HGWA-3	Upgradient	X	X	Assessment
HGWA-43D	Upgradient	X	X	Assessment
HGWA-44D	Upgradient	X	X	Assessment
HGWC-7	Downgradient	X	X	Assessment
HGWC-8	Downgradient	X	X	Assessment
HGWC-9	Downgradient	X	X	Assessment
HGWC-10	Downgradient	X	X	Assessment
HGWC-11	Downgradient	X	X	Assessment
HGWC-12	Downgradient	X	X	Assessment
HGWC-13	Downgradient	X	X	Assessment
<b><i>Assessment Monitoring Well</i></b>				
MW-5	Downgradient	X	X	Assessment
MW-6	Downgradient	X	X	Assessment
MW-7	Downgradient	X	X	Assessment
MW-19	Downgradient	X	X	Assessment
MW-20	Downgradient	X	X	Assessment
MW-24D	Downgradient	X	X	Assessment
MW-25D	Downgradient	X	X	Assessment
MW-26D	Downgradient	X	X	Assessment
MW-27D	Downgradient	X	X	Assessment
MW-28D	Downgradient	X	X	Assessment
MW-29	Downgradient	X	X	Assessment

**Table 3**  
 Summary of Groundwater and Surface Water Elevations  
 Plant Hammond AP-1, Floyd County, Georgia

Well ID	Top of Casing Elevation <sup>(1)</sup> (ft)	January 31, 2022		August 1, 2022	
		Depth to Water (ft BTOC)	Groundwater Elevation <sup>(1)</sup> (ft)	Depth to Water (ft BTOC)	Groundwater Elevation <sup>(1)</sup> (ft)
<b>Detection Monitoring Well Network</b>					
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-43D	595.08	12.97	582.11	18.47	576.61
HGWA-44D	594.79	13.05	581.74	18.01	576.78
HGWC-7	579.18	5.95	573.23	6.63	572.55
HGWC-8	579.82	6.85	572.97	7.51	572.31
HGWC-9	580.36	16.29	564.07	14.56	565.80
HGWC-10	579.37	17.15	562.22	13.38	565.99
HGWC-11	580.67	18.22	562.45	15.71	564.96
HGWC-12	580.73	18.31	562.42	15.80	564.93
HGWC-13	595.76	24.36	571.40	24.62	571.14
<b>Assessment Monitoring Well</b>					
MW-5	581.14	18.95	562.19	16.83	564.31
MW-6	581.84	19.59	562.25	16.83	565.01
MW-7	577.73	16.64	561.09	13.57	564.16
MW-19	580.65	15.04	565.61	13.59	567.06
MW-20	579.00	15.42	563.58	14.24	564.76
MW-24D	595.68	30.05	565.63	28.68	567.00
MW-25D	580.59	18.06	562.53	15.58	565.01
MW-26D	580.41	16.39	564.02	14.61	565.80
MW-27D	579.70	6.73	572.97	7.49	572.21
MW-28D	579.08	5.88	573.20	6.60	572.48
MW-29	575.06	5.60	569.46	7.30	567.76
<b>Piezometer</b>					
AP1A-1	587.44	7.85	579.59	9.19	578.25
MW-1	588.66	9.08	579.58	10.20	578.46
MW-8	586.93	19.65	567.28	20.06	566.87
MW-30D	578.59	3.49	575.10	5.53	573.06
MW-40D	578.92	125.79	453.13	120.40	458.52
<b>Surface Water Level Gauge Point</b>					
AP-1 Staff	--	--	577.00	--	574.90
Coosa River	--	--	560.40	--	564.10

Notes:

-- = not applicable

ft = feet

ft BTOC = feet below top of casing

(1) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey data certified by GEL Solutions May 19, 2020. Survey data for HGWA-43D and HGWA-44D certified by GEL Solutions September 10, 2020.

**Table 4**  
Horizontal Groundwater Gradient and Flow Velocity Calculations  
Plant Hammond AP-1, Floyd County, Georgia

Flow Path Direction <sup>(1)</sup>	January 31, 2022				August 1, 2022				Average i (ft/ft)
	h <sub>1</sub> (ft)	h <sub>2</sub> (ft)	L (ft)	i (ft/ft)	h <sub>1</sub> (ft)	h <sub>2</sub> (ft)	L (ft)	i (ft/ft)	
Southerly Flow Path (HGWC-13 to MW-7)	571.40	561.09	450	0.023	571.14	564.16	450	0.016	0.019
Easterly Flow Path (HGWC-8 to MW-20)	572.97	563.58	350	0.027	572.31	564.76	350	0.022	0.024

Flow Path Direction <sup>(1)</sup>	K <sub>h</sub> (ft/day)	n <sub>e</sub>	Averaged for 2022		
			i (ft/ft)	V (ft/day) <sup>(2)</sup>	V (ft/day) <sup>(3)</sup>
Southerly Flow Path (HGWC-13 to MW-7)	11.82	0.15	0.019	1.5	1.7
Easterly Flow Path (HGWC-8 to MW-20)	11.82	0.15	0.024	1.9	

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

h<sub>1</sub> and h<sub>2</sub> = groundwater elevation at location 1 and 2

i = h<sub>1</sub>-h<sub>2</sub>/L = horizontal hydraulic gradient

K<sub>h</sub> = horizontal hydraulic conductivity

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

n<sub>e</sub> = effective porosity

V = groundwater flow velocity

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

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

(3) Average groundwater flow velocity for unit.



**Table 5**  
**Summary of Groundwater Analytical Data**  
**Plant Hammond AP-1, Floyd County, Georgia**

Well ID:		HGWA-1	HGWA-1	HGWA-2	HGWA-2	HGWA-3	HGWA-3	HGWA-43D	HGWA-43D	HGWA-44D	HGWA-44D	HGWC-7	HGWC-7	HGWC-8	HGWC-8
Sample Date:		2/1/2022	8/2/2022	2/1/2022	8/2/2022	2/1/2022	8/2/2022	2/1/2022	8/2/2022	2/1/2022	8/2/2022	2/10/2022	8/3/2022	2/10/2022	8/3/2022
Parameter <sup>(1,2,3)</sup>															
APPENDIX III	Boron	0.016 J	0.012 J	0.056	0.047	0.011 J	<0.0086	0.050	0.043	0.44	0.31	1.3	1.1	1.7	1.5
	Calcium	106	117	27.2	31.2	85.1	84.6	55.9	54.1	24.8	20.9	108	125	153	153
	Chloride	7.5	14.1	7.0	7.8	5.7	5.9	4.1	4.3	44.8	19.8	39.8	37.9	48.2	54.1
	Fluoride	0.064 J	0.090 J	<0.050	0.053 J	<0.050	0.067 J	0.19	0.22	0.96	0.80	0.083 J	0.11	0.42	0.44
	pH	7.19	7.03	5.24	4.57	7.45	7.02	7.52	7.15	8.25	7.90	7.22	6.93	6.99	6.84
	Sulfate	43.7	58.1	67.1	86.9	46.0	43.5	37.5	37.0	56.3	13.2	97.5	105	224	241
	TDS	270	400	156	196	350	287	156	278	444	311	414	441	578	648
APPENDIX IV	Antimony	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	0.0013 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	0.0036 J	<0.0022	0.0025 J	<0.0022	<0.0011	<0.0022	0.0020 J	<0.0022
	Barium	0.031	0.039	0.13	0.11	0.12	0.16	0.29	0.35	0.23	0.37	0.063	0.066	0.056	0.060
	Beryllium	<0.000054	<0.000054	0.00020 J	0.00019 J	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	0.000071 J	0.000056 J
	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	0.00029 J	0.00017 J
	Chromium	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0013 J	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
	Cobalt	<0.00039	0.00054 J	0.025	0.024	<0.00039	<0.00039	<0.00039	<0.00039	<0.00039	<0.00039	0.0011 J	0.0015 J	0.0021 J	0.0024 J
	Fluoride	0.064 J	0.090 J	<0.050	0.053 J	<0.050	0.067 J	0.19	0.22	0.96	0.80	0.083 J	0.11	0.42	0.44
	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
	Lithium	0.0011 J	<0.00073	0.0017 J	0.0013 J	0.0037 J	0.0030 J	0.0024 J	0.0019 J	0.048	0.041	0.0022 J	0.0019 J	0.0030 J	0.0026 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	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	<0.00074	0.0036 J	0.0042 J	0.0055 J	0.0020 J	0.045	0.038	0.34	0.29
	Comb. Radium 226/228	0.143 U	0.203 U	0.588 U	0.861 U	0.266 U	0.400 U	1.12	0.662 U	0.665 U	0.952 U	0.175 U	0.420 U	0.945 U	0.455 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
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 J	
GEOCHEM	Bicarbonate Alkalinity	--	266	--	12.8	--	179	--	203	--	263	--	182	--	119
	Iron	--	0.21	--	0.72	--	1.0	--	0.31	--	0.24	--	0.17	--	0.053
	Magnesium	--	4.4	--	4.0	--	5.2	--	17.2	--	12.2	--	11.2	--	21.3
	Manganese	--	0.48	--	0.8	--	0.24	--	0.019 J	--	0.013 J	--	0.38	--	0.31
	Potassium	--	0.28	--	1.0	--	0.37	--	0.8	--	3.9	--	3.1	--	7.7
	Sodium	--	28.5	--	11.2	--	5.7	--	24.8	--	94.6	--	10.3	--	9.4
	Sulfide	--	0.062 J	--	<0.050	--	<0.050	--	<0.050	--	0.058 J	--	<0.050	--	<0.050

Notes:

-- = Parameter was not analyzed.

< = Indicates the parameter was not detected above the analytical method detection limit (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-2011, 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-1, Floyd County, Georgia**

Well ID:		HGWC-9	HGWC-9	HGWC-10	HGWC-10	HGWC-11	HGWC-11	HGWC-12	HGWC-12	HGWC-13	HGWC-13	MW-5	MW-5	MW-6	MW-6	
Sample Date:		2/9/2022	8/4/2022	2/9/2022	8/3/2022	2/9/2022	8/3/2022	2/9/2022	8/3/2022	2/10/2022	8/3/2022	2/9/2022	8/3/2022	2/9/2022	8/3/2022	
Parameter <sup>(1,2,3)</sup>																
APPENDIX III	Boron	2.3	2.0	0.10	0.53	1.0	0.64	2.0	1.5	1.0	0.76	0.042	0.034 J	0.96	0.75	
	Calcium	183	196	76.8	125	144	131	172	167	206	237	68.1	86.6	178	176	
	Chloride	84.4	86.8	1.2	12.3	20.4	13.8	46.8	39.2	17.4	13.0	0.74 J	4.4	37.9	39.6	
	Fluoride	0.10	0.13	0.12	0.13	0.20	0.22	0.20	0.21	0.53	0.55	0.056 J	0.094 J	0.059 J	0.085 J	
	pH	7.30	7.03	7.00	6.73	6.55	6.23	7.23	7.13	7.54	7.09	6.13	5.96	7.01	6.41	
	Sulfate	224	243	49.2	119	276	254	252	236	371	451	123	135	197	190	
	TDS	756	760	250	433	544	572	678	650	814	958	314	391	652	666	
APPENDIX IV	Antimony	<0.00078	<0.00078	<0.00078	0.0018 J	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	
	Arsenic	0.0021 J	<0.0022	<0.0011	<0.0022	0.0047 J	<0.0022	0.0053	0.0023 J	0.38	0.40	0.0013 J	<0.0022	0.0034 J	<0.0022	
	Barium	0.096	0.091	0.042	0.069	0.042	0.041	0.075	0.086	0.053	0.070	0.042	0.058	0.074	0.084	
	Beryllium	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	
	Cadmium	<0.00011	<0.00011	<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 J	<0.0011	0.0011 J	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0031 J	0.0015 J	<0.0011	<0.0011
	Cobalt	0.00051 J	0.00046 J	<0.00039	<0.00039	<0.00039	<0.00039	0.0013 J	0.0012 J	0.0026 J	0.0041 J	<0.00039	<0.00039	0.00059 J	0.00041 J	
	Fluoride	0.10	0.13	0.12	0.13	0.20	0.22	0.20	0.21	0.53	0.55	0.056 J	0.094 J	0.059 J	0.085 J	
	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	
	Lithium	0.0041 J	0.0036 J	<0.00073	<0.00073	<0.00073	<0.00073	0.010 J	0.0068 J	0.031	0.029 J	<0.00073	<0.00073	<0.00073	<0.00073	
	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	0.034	0.033	<0.00074	0.00079 J	0.03	0.027	0.042	0.047	0.033	0.035	<0.00074	<0.00074	0.0026 J	0.0028 J	
	Comb. Radium 226/228	0.198 U	0.597 U	0.490 U	0.454 U	0.444 U	0.823 U	0.564 U	0.418 U	0.442 U	0.540 U	0.567 U	0.630 U	0.619 U	0.543 U	
Selenium	<0.0014	<0.0014	0.0031 J	0.0017 J	0.0035 J	0.0057	<0.0014	<0.0014	<0.0014	<0.0014	0.0027 J	0.0032 J	<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		
GEOCHEM	Bicarbonate Alkalinity	--	185	--	195	--	86.6	--	175	--	143	--	125	--	239	
	Iron	--	0.13	--	<0.025	--	<0.025	--	0.045	--	1.8	--	<0.025	--	0.51	
	Magnesium	--	19.2	--	9.0	--	15.5	--	16.9	--	21.3	--	10.3	--	14.4	
	Manganese	--	0.42	--	<0.0043	--	0.012 J	--	1.6	--	2.9	--	0.0086 J	--	0.51	
	Potassium	--	3.5	--	3.2	--	3.7	--	7.5	--	4.6	--	0.90	--	1.3	
	Sodium	--	13.3	--	8.4	--	5.4	--	8.4	--	5.4	--	16.8	--	12.1	
	Sulfide	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	<0.050	

**Table 5**  
**Summary of Groundwater Analytical Data**  
**Plant Hammond AP-1, Floyd County, Georgia**

Well ID:		MW-7	MW-7	MW-19	MW-19	MW-20	MW-20	MW-24D	MW-24D	MW-25D	MW-25D	MW-26D	MW-26D	MW-27D	MW-27D	
Sample Date:		2/8/2022	8/4/2022	2/9/2022	8/4/2022	2/10/2022	8/4/2022	2/10/2022	8/3/2022	2/9/2022	8/4/2022	2/9/2022	8/4/2022	2/10/2022	8/3/2022	
Parameter <sup>(1,2,3)</sup>																
APPENDIX III	<b>Boron</b>	0.19	0.14	0.49	0.58	0.13	0.11	0.55	0.49	0.43	0.35	2.3	2.0	0.13	0.12	
	<b>Calcium</b>	73.3	73.1	97.6	187	123	131	110	102	23.5	22.0	176	186	31.4	30.8	
	<b>Chloride</b>	6.9	4.7	10.2	11.3	31.4	31.4	38.2	39.6	26.5	20.5	85.7	88.5	31.4	36.7	
	<b>Fluoride</b>	<0.050	0.078 J	0.076 J	0.18	<0.050	0.074 J	0.051 J	0.075 J	1.7	1.5	0.092 J	0.12	0.25	0.27	
	<b>pH</b>	6.73	6.47	6.28	6.32	7.19	6.96	7.82	7.59	7.82	7.66	7.32	7.08	7.96	7.40	
	<b>Sulfate</b>	80.4	76.0	221	412	95.9	110	127	135	1.7	0.97 J	224	239	13.2	9.5	
	<b>TDS</b>	290	246	503	762	459	431	412	415	364	302	734	788	242	230	
APPENDIX IV	<b>Antimony</b>	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	
	<b>Arsenic</b>	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0022	0.0017 J	<0.0022	<0.0011	<0.0022	
	<b>Barium</b>	0.053	0.064	0.042	0.050	0.082	0.093	0.048	0.053	0.60	0.75	0.066	0.062	0.99	0.94	
	<b>Beryllium</b>	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	
	<b>Cadmium</b>	<0.00011	<0.00011	0.0011	0.00022 J	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	
	<b>Chromium</b>	0.0016 J	0.0020 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	
	<b>Cobalt</b>	<0.00039	<0.00039	0.030	0.043	<0.00039	<0.00039	<0.00039	<0.00039	<0.00039	<0.00039	<0.00039	0.00059 J	0.00048 J	<0.00039	<0.00039
	<b>Fluoride</b>	<0.050	0.078 J	0.076 J	0.18	<0.050	0.074 J	0.051 J	0.075 J	1.7	1.5	0.092 J	0.12	0.25	0.27	
	<b>Lead</b>	<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	
	<b>Lithium</b>	<0.00073	<0.00073	0.0067 J	0.013 J	0.00099 J	0.00075 J	0.0029 J	0.0024 J	0.048	0.040	0.0039 J	0.0033 J	0.0086 J	0.0063 J	
	<b>Mercury</b>	<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	
	<b>Molybdenum</b>	0.0012 J	0.0014 J	0.011	0.039	<0.00074	<0.00074	0.00080 J	0.00095 J	<0.00074	<0.00074	0.028	0.028	0.0017 J	0.0020 J	
	<b>Comb. Radium 226/228</b>	0.417 U	1.18 U	0.245 U	0.509 U	0.320 U	1.05 U	0.178 U	0.263 U	0.754 U	1.65	0.0677 U	0.0273 U	0.809 U	0.685 U	
<b>Selenium</b>	0.0015 J	<0.0014	0.0036 J	0.0022 J	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014		
<b>Thallium</b>	<0.00018	<0.00018	<0.00018	0.00026 J	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018		
GEOCHEM	<b>Bicarbonate Alkalinity</b>	--	139	--	112	--	228	--	93.8	--	302	--	184	--	163	
	<b>Iron</b>	--	<0.025	--	<0.025	--	2.7	--	<0.025	--	0.23	--	0.21	--	0.3	
	<b>Magnesium</b>	--	7.2	--	18.7	--	9.9	--	5.7	--	9.8	--	18.3	--	20.1	
	<b>Manganese</b>	--	<0.0043	--	5.0	--	0.14	--	0.031 J	--	0.022 J	--	0.3	--	0.11	
	<b>Potassium</b>	--	0.74	--	3.8	--	0.29	--	0.51	--	0.45	--	2.9	--	0.93	
	<b>Sodium</b>	--	7.4	--	5.9	--	12.2	--	11.8	--	104	--	12.6	--	31.2	
	<b>Sulfide</b>	--	<0.050	--	<0.050	--	<0.050	--	<0.050	--	0.17	--	<0.050	--	<0.050	

**Table 5**  
 Summary of Groundwater Analytical Data  
 Plant Hammond AP-1, Floyd County, Georgia

Well ID:		MW-28D	MW-28D	MW-29	MW-29
Sample Date:		2/10/2022	8/4/2022	2/10/2022	8/3/2022
Parameter <sup>(1,2,3)</sup>					
APPENDIX III	Boron	0.23	0.55	1.4	1.1
	Calcium	58.5	76.7	156	143
	Chloride	29.0	33.3	66.0	63.5
	Fluoride	0.22	0.19	<0.050	0.069 J
	pH	7.59	7.38	7.27	6.87
	Sulfate	32.5	80.5	141	140
	TDS	299	378	508	538
APPENDIX IV	Antimony	<0.00078	<0.00078	<0.00078	<0.00078
	Arsenic	<0.0011	<0.0022	<0.0011	<0.0022
	Barium	0.76	0.70	0.072	0.081
	Beryllium	<0.000054	<0.000054	<0.000054	<0.000054
	Cadmium	<0.00011	<0.00011	<0.00011	<0.00011
	Chromium	0.0011 J	<0.0011	<0.0011	<0.0011
	Cobalt	<0.00039	<0.00039	0.00089 J	0.0012 J
	Fluoride	0.22	0.19	<0.050	0.069 J
	Lead	<0.00089	<0.00089	<0.0044	<0.00089
	Lithium	0.014 J	0.0088 J	0.0023 J	0.0018 J
	Mercury	<0.00013	<0.00013	<0.00013	<0.00013
	Molybdenum	0.0031 J	0.011	0.0036 J	0.0032 J
	Comb. Radium 226/228	1.96 U	0.840 U	0.594 U	0.581 U
	Selenium	<0.0014	<0.0014	<0.0014	<0.0014
Thallium	<0.00018	<0.00018	<0.00090	<0.00018	
GEOCHEM	Bicarbonate Alkalinity	--	220	--	177
	Iron	--	0.11	--	0.065
	Magnesium	--	26.0	--	12.7
	Manganese	--	0.18	--	1.5
	Potassium	--	1.3	--	1.3
	Sodium	--	13.9	--	12.1
	Sulfide	--	3.9	--	<0.050

**Table 6**  
**Summary of Background Concentrations and Groundwater Protection Standards**  
**Plant Hammond AP-1, Floyd County, Georgia**

Analyte	Units	MCL	CCR-Rule Specified <sup>(1)</sup>	Background Limit <sup>(2)</sup>	GWPS <sup>(3,4)</sup>
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	0.0079	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	4.36	5

Notes:

CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

mg/L = milligrams per liter

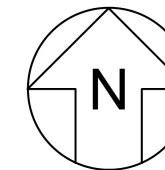
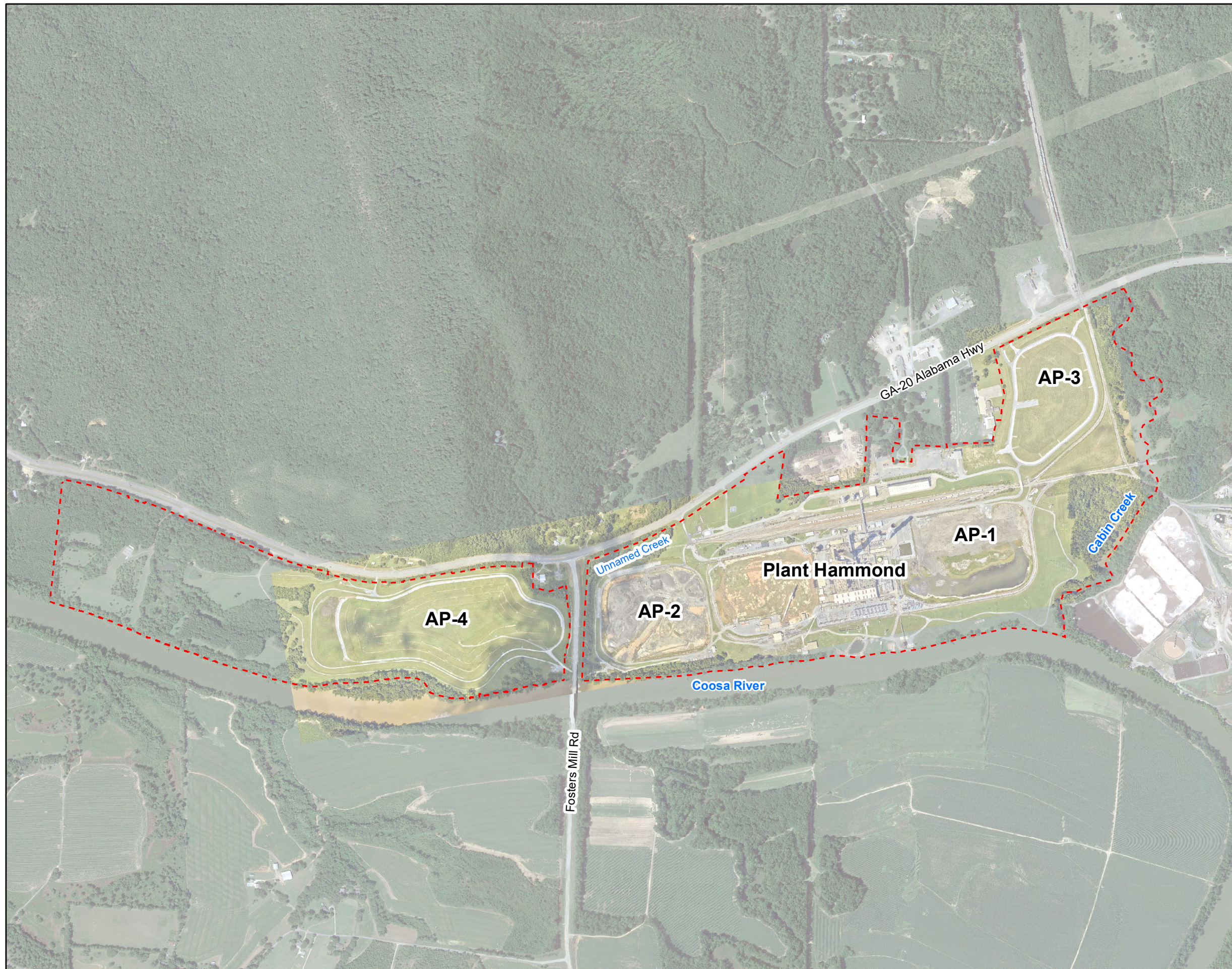
N/A = Not Applicable

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).
- (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



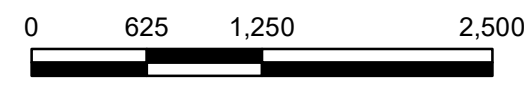


**LEGEND**

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-1  
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

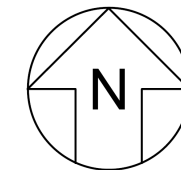
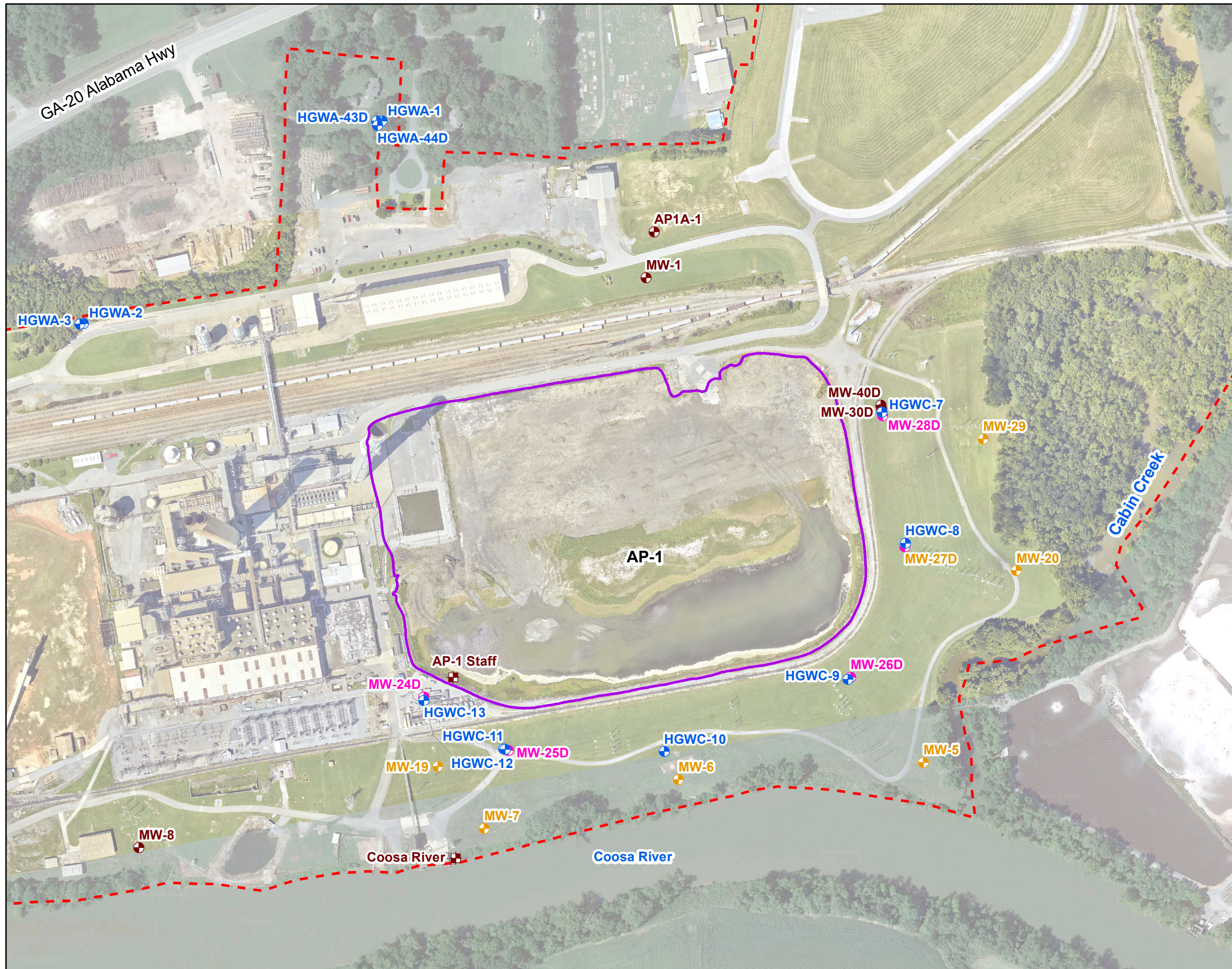
Prepared By: Geosyntec  
consultants

KENNESAW, GA

JANUARY 2023

**FIGURE**  
**1**





**LEGEND**

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- Surface or Free Water Level Gauge Point
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

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



**MONITORING WELL NETWORK AND SAMPLING LOCATION MAP**

GEORGIA POWER COMPANY  
 PLANT HAMMOND AP-1  
 ROME, FLOYD COUNTY, GEORGIA

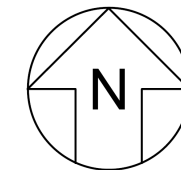
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA | JANUARY 2023

**FIGURE 2**

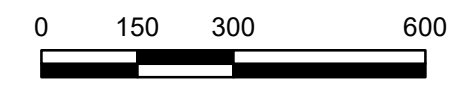




- LEGEND**
- ⊕ Compliance Monitoring Well
  - ⊕ Horizontal Delineation Well
  - ⊕ Vertical Delineation Well
  - ⊕ Piezometer
  - ⊕ Surface Water Level Gauge Point
  - Groundwater Elevation Iso-Contour
  - ➡ Approximate Groundwater Flow Direction
  - Approximate AP-1 Boundary
  - - - Plant Hammond Property 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. 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-1  
ROME, FLOYD COUNTY, GEORGIA

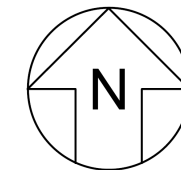
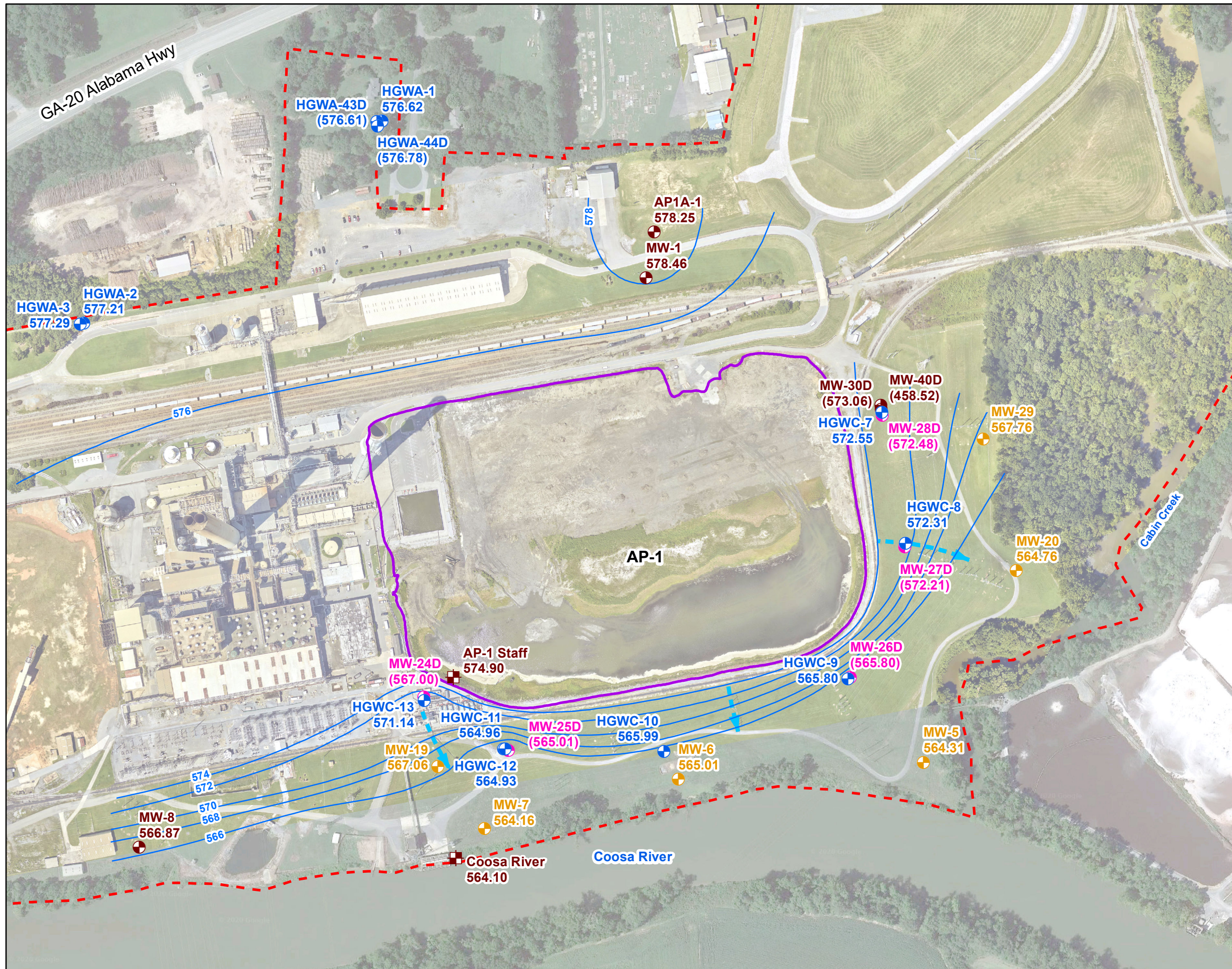
Prepared For: Georgia Power

Prepared By: Geosyntec  
consultants

KENNESAW, GA    JANUARY 2023

**FIGURE  
3**





- LEGEND**
- Detection Monitoring Well
  - Horizontal Assessment Monitoring Well
  - Vertical Assessment Monitoring Well
  - Piezometer
  - Staff Gauge
  - Groundwater Elevation Iso-Contour
  - Approximate Groundwater Flow Direction
  - Approximate AP-1 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. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, August 2022.



**POTENTIOMETRIC SURFACE  
CONTOUR MAP - AUGUST 2022**

GEORGIA POWER COMPANY  
PLANT HAMMOND AP-1  
ROME, FLOYD COUNTY, GEORGIA

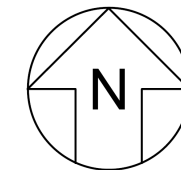
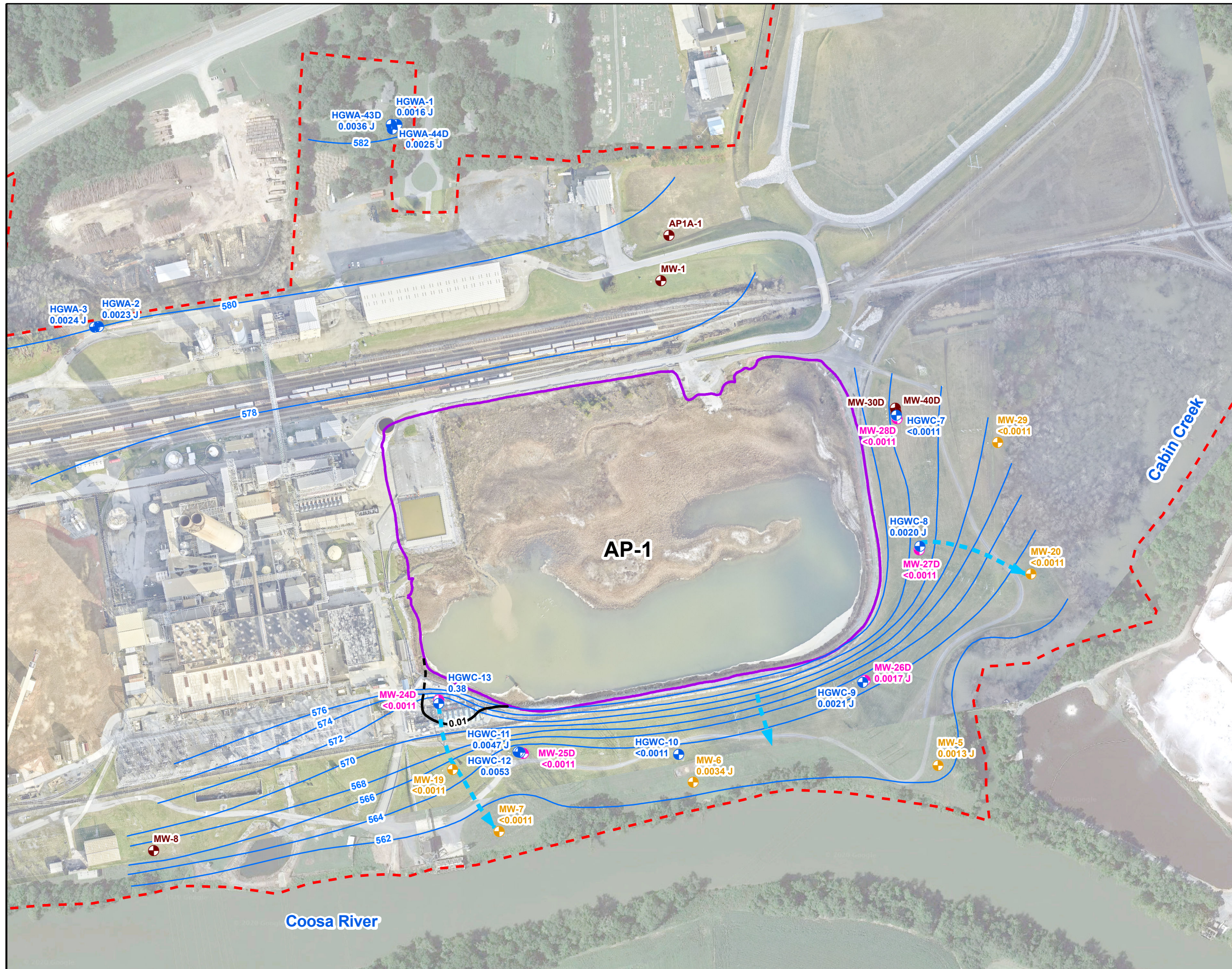
Prepared For: Georgia Power

Prepared By: Geosyntec  
consultants

KENNESAW, GA JANUARY 2023

**FIGURE  
4**





**LEGEND**

- Detection Monitoring Well
- Horizontal Assessment Monitoring
- Vertical Assessment Monitoring
- Piezometer
- GWPS Arsenic Iso-Concentration Contour (mg/L) (dashed where inferred)
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- 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-43D, HGWA-44D, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D). 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 arsenic is 0.01 mg/L.
  4. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, January 2022.



**ISO-CONCENTRATION MAP  
ARSENIC - FEBRUARY 2022**

GEORGIA POWER COMPANY  
PLANT HAMMOND AP-1  
ROME, FLOYD COUNTY, GEORGIA

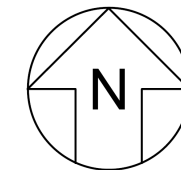
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA    JANUARY 2023

**FIGURE  
5**





**LEGEND**

- Detection Monitoring Well
- Horizontal Assessment Monitoring
- Vertical Assessment Monitoring
- Piezometer
- GWPS Molybdenum Iso-Concentration Contour (mg/L)
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- 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-43D, HGWA-44D, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D). 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 molybdenum is 0.100 mg/L.
5. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, January 2022.



**ISO-CONCENTRATION MAP  
MOLYBDENUM - FEBRUARY 2022**

GEORGIA POWER COMPANY  
PLANT HAMMOND AP-1  
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

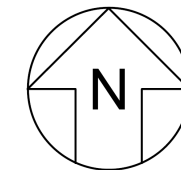
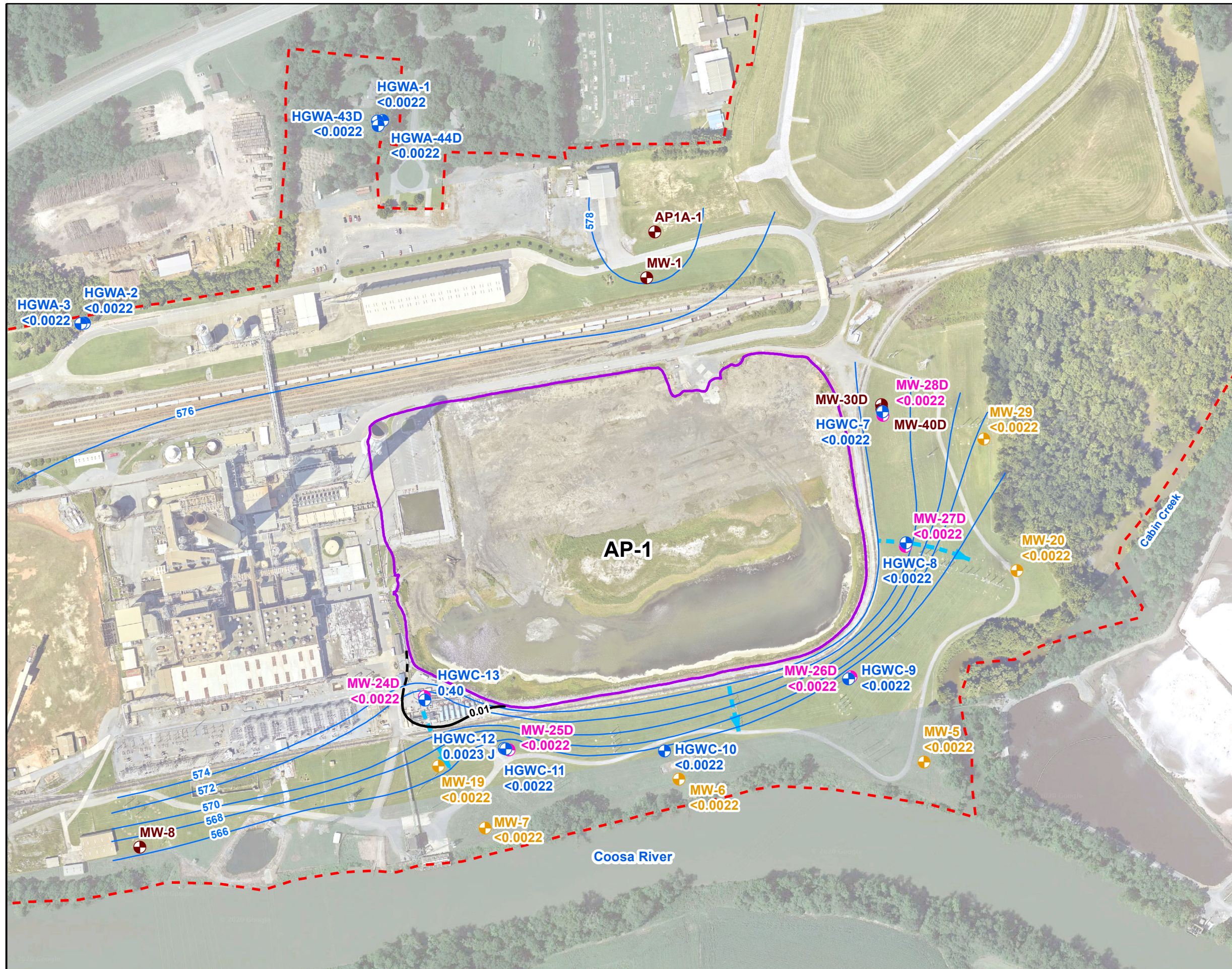
Prepared By: Geosyntec  
consultants

**FIGURE  
6**

KENNESAW, GA

JANUARY 2023



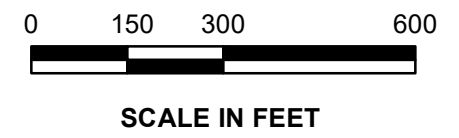


**LEGEND**

- Detection Monitoring Well
- Horizontal Assessment Monitoring Well
- Vertical Assessment Monitoring Well
- Piezometer
- GWPS Arsenic Iso-Concentration Contour (mg/L) (dashed where inferred)
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- 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-43D, HGWA-44D, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D). 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 arsenic is 0.01 mg/L.
4. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, August 2022.



**ISO-CONCENTRATION MAP  
ARSENIC - AUGUST 2022**

GEORGIA POWER COMPANY  
PLANT HAMMOND AP-1  
ROME, FLOYD COUNTY, GEORGIA

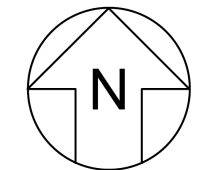
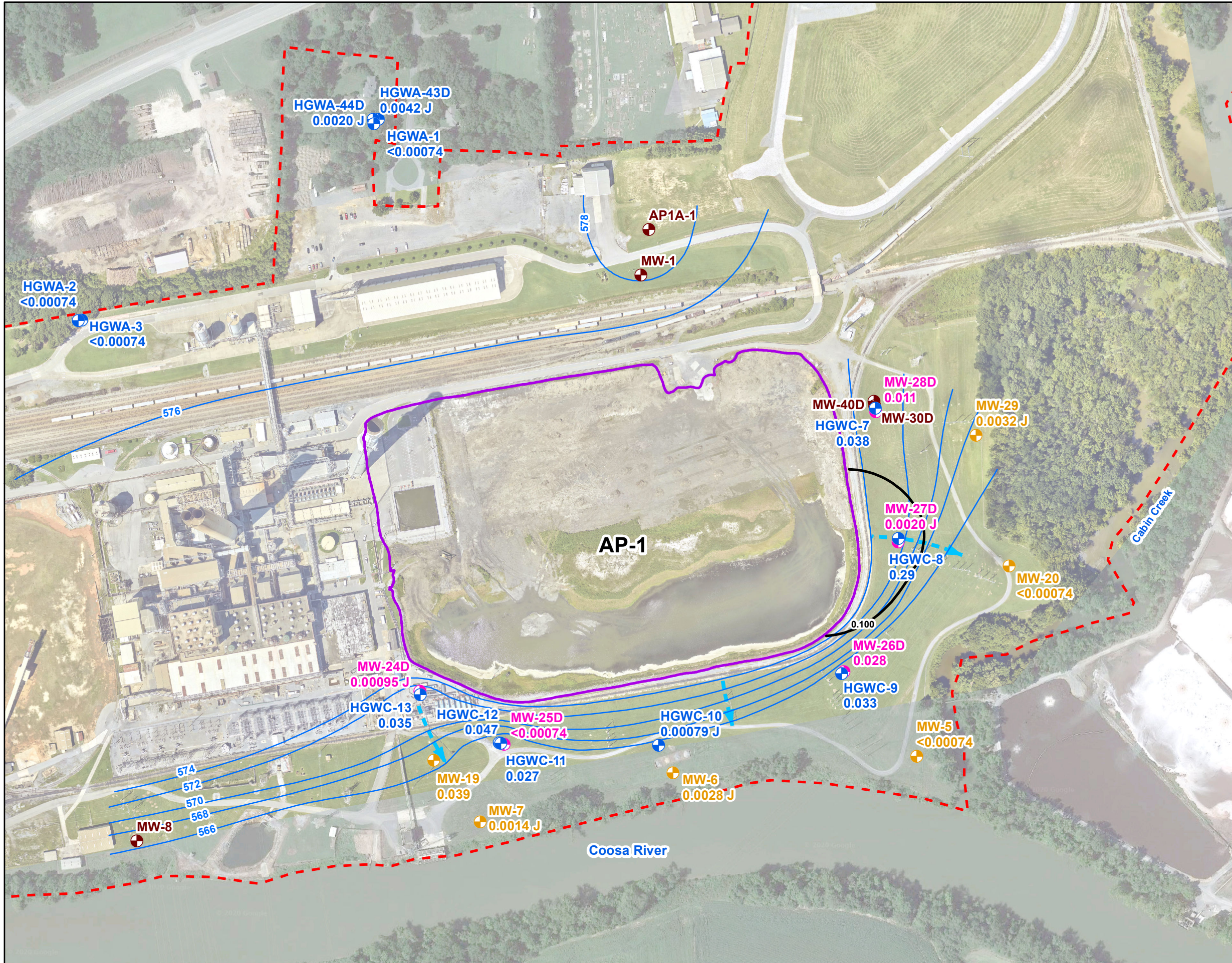
Prepared For: Georgia Power

Prepared By: Geosyntec  
consultants

**FIGURE  
7**

KENNESAW, GA    JANUARY 2023





**LEGEND**

- ⊕ Detection Monitoring Well
- ⊕ Horizontal Assessment Monitoring Well
- ⊕ Vertical Assessment Monitoring Well
- ⊕ Piezometer
- GWPS Molybdenum Iso-Concentration Contour (mg/L)
- Groundwater Elevation Iso-Contour
- ➔ Approximate Groundwater Flow Direction
- Approximate AP-1 Boundary
- - - 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-43D, HGWA-44D, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D). Concentrations are reported in mg/L.
  2. The presented iso-concentration contour considers the preliminary screening-level groundwater data obtained from the site characterization study discussed in Section 2.3. Final data from the study will be presented under separate cover in the forthcoming pilot test work plan.
  3. Water level elevation recorded on August 1, 2022. Elevation provided in feet (ft) referenced to the North American Vertical Datum (NAVD) 88.
  4. The Groundwater Protection Standard (GWPS) for molybdenum is 0.100 mg/L.
  5. Aerial photograph source: Google Earth Pro, August 2019, and Georgia Power Company, August 2022.



**ISO-CONCENTRATION MAP  
MOLYBDENUM - AUGUST 2022**

GEORGIA POWER COMPANY  
PLANT HAMMOND AP-1  
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec  
consultants

**FIGURE  
8**

KENNESAW, GA    JANUARY 2023



# APPENDIX A

## Well Maintenance and Repair Documentation Memoranda

**MEMORANDUM**

**DATE:** March 25, 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 1 (AP-1) – 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-1 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.

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



# Attachment

## Well Inspection Forms

# 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 Scr 55

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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"/>	
<b>6 Corrective Actions</b>			
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 1/1/13  
 Field Technician C. CAIN  
 Well ID HGLCA-2

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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"/>	
<b>6 Corrective Actions</b>			
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 LAMP 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
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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"/>	
<b>6 Corrective Actions</b>			
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 C. CAIN  
 Well ID HGWA-43D

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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"/>	
<b>6 Corrective Actions</b>			
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
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician Thomas Hessler  
 Well ID HG102-7

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>	<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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician A. Szwant  
 Well ID HQ-WC-8

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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)	✓		
<b>2 Protective Casing</b>			
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?	✓		
<b>3 Surface Pad</b>			
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)?	✓		
<b>4 Internal Casing</b>			
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)	✓		
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<i>dedicated <sup>water quality sonde</sup> sampling equipment @ 1/31/22</i> <i>dedicated water level data logger</i>
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?	✓		
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?	✓		
f Does the well recharge adequately when purged?	✓		
g Does the well require redevelopment (low flow, excess turbidity)?		✓	
<b>6 Corrective Actions</b>			
a Are corrective actions needed?		✓	
If yes, indicate here:			



# Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-1  
 Field Technician A. Szwast  
 Well ID HGW-9

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician A. Szewast  
 Well ID HGW C-10

Date (mm/dd/yyyy) 04/31/2022  
 Field Conditions Sunny, 50°F

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician C. CAIN  
 Well ID HGWK-11

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			NA
b If equipped with dedicated sampling equipment, is it in good operational condition?			NA
c If equipped with a dedicated water quality sonde, is it in good operational condition?			NA
d Does the desiccant need to be replaced on the water quality sonde?			NA
e If equipped with a water level data logger, is it in good operational condition?			NA
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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician C. GAIN  
 Well ID HGW-12

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

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



# Well Inspection Form

Plant Name/Unit Name Plant Hammond / AD-1  
 Field Technician A. Stewart  
 Well ID 146-WC-13

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician C. CAIN  
 Well ID MW-5

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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"/>	
<b>6 Corrective Actions</b>			
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 / AR 1  
 Field Technician C. CAIN  
 Well ID MW-6

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician C. CAIRN  
 Well ID MW-7

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician C. CAIN  
 Well ID MW-19

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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)
<b>2 Protective Casing</b>			
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?
<b>3 Surface Pad</b>			
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)?
<b>4 Internal Casing</b>			
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)
<b>5 Sampling and Data Collection Equipment</b>			
a			Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .
b	<input checked="" type="checkbox"/>		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?
d			Does the desiccant need to be replaced on the water quality sonde?
e			If equipped with a water level data logger, is it in good operational condition?
f	<input checked="" type="checkbox"/>		Does the well recharge adequately when purged?
g		<input checked="" type="checkbox"/>	Does the well require redevelopment (low flow, excess turbidity)?
<b>6 Corrective Actions</b>			
a		<input checked="" type="checkbox"/>	Are corrective actions needed?
If yes, indicate here:			

Bubbler pump

NA  
NA  
NA

## Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-1  
 Field Technician A. Swast  
 Well ID MW-20

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician C. CAW  
 Well ID MW-24D

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<u>Blander 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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician C. CAMN  
 Well ID MW-25D

Date (mm/dd/yyyy) 01/31/22  
 Field Conditions Sun 58

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

# Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-1  
 Field Technician C. CAIN  
 Well ID MWR-260

Date (mm/dd/yyyy) 01/31/22  
 Field Conditions Sun 58

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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"/>	
<b>6 Corrective Actions</b>			
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 LAP-1  
 Field Technician G. GAIN  
 Well ID MW-27D

Date (mm/dd/yyyy) 01/31/22  
 Field Conditions Sun 58

	Yes	No	Comments
<b>1 Location/Identification</b>			
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 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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<u>Blander 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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician C. CAIN  
 Well ID MW-28D

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician A. Swast  
 Well ID MW-29

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician C. CAIN  
 Well ID APIA-1

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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?			<u>NA</u>
g Does the well require redevelopment (low flow, excess turbidity)?		<input checked="" type="checkbox"/>	
<b>6 Corrective Actions</b>			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

## Well Inspection Form

Plant Name/Unit Name Plant Hammond/HR-1  
 Field Technician C. CAIN  
 Well ID MW-1

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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?			<u>NA</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>6 Corrective Actions</b>			
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
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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>
<b>6 Corrective Actions</b>			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

# Well Inspection Form

Plant Name/Unit Name Plant Hammond / HP-1  
 Field Technician C. CAIN  
 Well ID MW-30D

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>	<input type="checkbox"/>	<input type="checkbox"/>	NA
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	NA
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	NA
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	NA
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	NA
f Does the well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	NA
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>6 Corrective Actions</b>			
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 / WP-1  
 Field Technician G. CAIN  
 Well ID Mbr-42D

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

		Yes	No	Comments
<b>1 Location/Identification</b>				
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"/>	
<b>2 Protective Casing</b>				
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"/>	
<b>3 Surface Pad</b>				
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"/>	
<b>4 Internal Casing</b>				
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"/>	
<b>5 Sampling and Data Collection Equipment</b>				
a	Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			NA
b	If equipped with dedicated sampling equipment, is it in good operational condition?			NA
c	If equipped with a dedicated water quality sonde, is it in good operational condition?			NA NA
d	Does the desiccant need to be replaced on the water quality sonde?			NA NA
e	If equipped with a water level data logger, is it in good operational condition?			NA NA
f	Does the well recharge adequately when purged?			NA NA
g	Does the well require redevelopment (low flow, excess turbidity)?		<input checked="" type="checkbox"/>	
<b>6 Corrective Actions</b>				
a	Are corrective actions needed?		<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 1 (AP-1) – 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-1 during the 2022 annual 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.

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

# Attachment

## Well Inspection Forms

# Well Inspection Form

Plant Name/Unit Name Plant Hummow AP-112/13  
 Field Technician Thomas Hessler  
 Well ID HGW A-1

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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 checked="" 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"/>	
<b>6 Corrective Actions</b>			
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 HCOU-7

Date (mm/dd/yyyy) 08/14/2022  
 Field Conditions Sunny, 80°

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

If yes, indicate here:

\_\_\_\_\_

# Well Inspection Form

Plant Name/Unit Name Plant Hammer/AP-1/213  
 Field Technician Thomas K.  
 Well ID HGW A-3

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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)	/		
<b>2 Protective Casing</b>			
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?	/		
<b>3 Surface Pad</b>			
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)?	/		
<b>4 Internal Casing</b>			
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)	/		
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			Blank
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
<b>6 Corrective Actions</b>			
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-43D

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a	<input checked="" type="checkbox"/> Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .		
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Black</u>
c	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>WLS</u>
e	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>WLS</u>
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
g	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>6 Corrective Actions</b>			
a	<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 Hole A-44D

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician Tristan  
 Well ID HGW-7

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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"/>	
<b>6 Corrective Actions</b>			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

# Well Inspection Form

Plant Name/Unit Name Plant Kemmard / AP-1  
 Field Technician Tristan O.  
 Well ID HGW-8

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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"/>	
<b>6 Corrective Actions</b>			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

# Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1  
 Field Technician Ryan O.  
 Well ID HGW-9

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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"/>	
<b>6 Corrective Actions</b>			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

# Well Inspection Form

Plant Name/Unit Name Plant Kemmerd / AP-1  
 Field Technician Tristan O  
 Well ID HGW6-10

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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"/>	
<b>6 Corrective Actions</b>			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			



# Well Inspection Form

Plant Name/Unit Name Plant Hammond AD-1  
 Field Technician Fluores IA  
 Well ID HGW-11

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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 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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<u>Blender</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"/>	<u>to</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician Thomas K.  
 Well ID HG202-12

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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 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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<u>dedicated</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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician Trenton O.  
 Well ID HGW-13

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

		Yes	No	Comments
<b>1 Location/Identification</b>				
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"/>	
<b>2 Protective Casing</b>				
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"/>	
<b>3 Surface Pad</b>				
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"/>	
<b>4 Internal Casing</b>				
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"/>	
<b>5 Sampling and Data Collection Equipment</b>				
a	Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<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"/>	
<b>6 Corrective Actions</b>				
a	Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:				

# Well Inspection Form

Plant Name/Unit Name Hammond / AP-1  
 Field Technician Justin O  
 Well ID AP1A-1

Date (mm/dd/yyyy) 08/01/2022  
 Field Conditions cloudy, 82°

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

# Well Inspection Form

Plant Name/Unit Name Hammond / AP-1  
 Field Technician INSTANTO  
 Well ID MW-1

Date (mm/dd/yyyy) 08/01/2022  
 Field Conditions cloudy, 82°

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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 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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<u>NA</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)?		<input checked="" type="checkbox"/>	<u>TD</u>
<b>6 Corrective Actions</b>			
a Are corrective actions needed?		<input checked="" type="checkbox"/>	
If yes, indicate here:			

# Well Inspection Form

Plant Name/Unit Name Plant Huminone/KP-1  
 Field Technician Thomas K.  
 Well ID MW-5

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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 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"/>	<input type="checkbox"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>BlackDe-</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"/>	<u>N/A</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician Thomas A  
 Well ID MW-C

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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 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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>Blicker</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 checked="" type="checkbox"/>	<input type="checkbox"/>	<u>W/Q</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input checked="" 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 checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>6 Corrective Actions</b>			
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-1  
 Field Technician Thomas Id  
 Well ID MW-7

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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>W/L</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>W/L</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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician Thomas K  
 Well ID M12-S

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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>
<b>6 Corrective Actions</b>			
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 / IP-1  
 Field Technician Thomas L  
 Well ID MW-19

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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 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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .	<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>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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician Thomas H.  
 Well ID MW-2a

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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 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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<u>BlaWelder</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"/>	
<b>6 Corrective Actions</b>			
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/4D-1  
 Field Technician Thomas A.  
 Well ID MLW-241

Date (mm/dd/yyyy) 08/01/2025  
 Field Conditions \_\_\_\_\_

	Yes	No	Comments
<b>1 Location/Identification</b>			
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)	/		
<b>2 Protective Casing</b>			
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?	/		
<b>3 Surface Pad</b>			
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)?	/		
<b>4 Internal Casing</b>			
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)	/		
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			Blocker
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)?	/		
<b>6 Corrective Actions</b>			
a Are corrective actions needed?			
If yes, indicate here:			



# Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1  
 Field Technician Thomas K  
 Well ID MW-25 D

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<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>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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician Thomas Kessler  
 Well ID ML-2GD

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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)	/		
<b>2 Protective Casing</b>			
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?	/		
<b>3 Surface Pad</b>			
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)?	/		
<b>4 Internal Casing</b>			
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)	/		
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<u>Blower</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>ML</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>ML</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>ML</u>
f Does the well recharge adequately when purged?	/		
g Does the well require redevelopment (low flow, excess turbidity)?		/	
<b>6 Corrective Actions</b>			
a Are corrective actions needed?		/	
If yes, indicate here:			

# Well Inspection Form

Plant Name/Unit Name Plant Hammond / HP-1  
 Field Technician Thomas K  
 Well ID MW-27D

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

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

# Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-1  
 Field Technician Thomas A.  
 Well ID MW-25D

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

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.</b>			<u>Blood</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"/>	
<b>6 Corrective Actions</b>			
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  
 Field Technician Thomas K  
 Well ID AW-29

Date (mm/dd/yyyy) 08/01/2000  
 Field Conditions Sunny, 80°

	Yes	No	Comments
<b>1 Location/Identification</b>			
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 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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .			<u>Bleeder</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"/>	
<b>6 Corrective Actions</b>			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

## Well Inspection Form

Plant Name/Unit Name Hammond/AP-1  
 Field Technician Tristan G  
 Well ID MW-30D

Date (mm/dd/yyyy) 08/01/2022  
 Field Conditions cloudy, 82°

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<u>dedicated tubing</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 type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
<b>6 Corrective Actions</b>			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here: <u>NO</u>			

# Well Inspection Form

Plant Name/Unit Name Hammond/AP-1  
 Field Technician Instan O  
 Well ID MW-40D

Date (mm/dd/yyyy) 08/01/2022  
 Field Conditions cloudy, 82°

	Yes	No	Comments
<b>1 Location/Identification</b>			
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"/>	
<b>2 Protective Casing</b>			
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"/>	
<b>3 Surface Pad</b>			
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"/>	
<b>4 Internal Casing</b>			
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"/>	
<b>5 Sampling and Data Collection Equipment</b>			
a Indicate if the well is equipped with <b>dedicated sampling equipment</b> , a <b>dedicated water quality sonde</b> , and/or <b>dedicated water level data logger</b> .	<u>NA</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 checked="" type="checkbox"/>	<input type="checkbox"/>	<u>TO</u>
<b>6 Corrective Actions</b>			
a Are corrective actions needed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
If yes, indicate here:			

# APPENDIX B

## Laboratory Analytical and Field Sampling Reports



# LABORATORY ANALYTICAL REPORTS

# January/February 2022

March 22, 2022

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

RE: Project: HAMMOND AP-1  
Pace Project No.: 92587319

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 3/22/22 to include an update COC.

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-1  
Pace Project No.: 92587319

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### **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

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### **Pace Analytical Services Asheville**

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

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

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### **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

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## SAMPLE SUMMARY

Project: HAMMOND AP-1

Pace Project No.: 92587319

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587319001	MW-7	Water	02/08/22 17:05	02/09/22 12:40
92587319002	HGWA-44D	Water	02/01/22 13:35	02/03/22 12:32
92587319003	HGWA-2	Water	02/01/22 11:52	02/03/22 12:32
92587319004	HGWA-3	Water	02/01/22 09:58	02/03/22 12:32
92587319005	HGWA-1	Water	02/01/22 12:13	02/03/22 12:32
92587319006	HGWA-43D	Water	02/01/22 10:28	02/03/22 12:32
92587319007	HGWC-9	Water	02/09/22 11:06	02/11/22 11:35
92587319008	HGWC-10	Water	02/09/22 15:37	02/11/22 11:35
92587319009	HGWC-11	Water	02/09/22 10:02	02/11/22 11:35
92587319010	HGWC-12	Water	02/09/22 11:38	02/11/22 11:35
92587319011	MW-5	Water	02/09/22 12:33	02/11/22 11:35
92587319012	MW-6	Water	02/09/22 14:13	02/11/22 11:35
92587319013	MW-19	Water	02/09/22 16:25	02/11/22 11:35
92587319014	MW-25D	Water	02/09/22 14:00	02/11/22 11:35
92587319015	MW-26D	Water	02/09/22 09:54	02/11/22 11:35
92587319016	DUP-1	Water	02/09/22 00:00	02/11/22 11:35
92587319017	HGWC-7	Water	02/10/22 12:12	02/11/22 11:35
92587319018	HGWC-8	Water	02/10/22 15:45	02/11/22 11:35
92587319019	HGWC-13	Water	02/10/22 14:55	02/11/22 11:35
92587319020	MW-20	Water	02/10/22 11:33	02/11/22 11:35
92587319021	MW-24D	Water	02/10/22 13:32	02/11/22 11:35
92587319022	MW-27D	Water	02/10/22 15:40	02/11/22 11:35
92587319023	MW-28D	Water	02/10/22 14:29	02/11/22 11:35
92587319024	MW-29	Water	02/10/22 09:44	02/11/22 11:35
92587319025	EB-1	Water	02/10/22 15:59	02/11/22 11:35
92587319026	FB-1	Water	02/10/22 15:50	02/11/22 11:35

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### SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587319001	MW-7	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
92587319002	HGWA-44D	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
92587319003	HGWA-2	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
92587319004	HGWA-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	JCM	3
92587319005	HGWA-1	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
92587319006	HGWA-43D	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
92587319007	HGWC-9	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
92587319008	HGWC-10	EPA 6010D	KH	1
		EPA 6020B	CW1	13

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### SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587319009	HGWC-11	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
92587319010	HGWC-12	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
92587319011	MW-5	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
92587319012	MW-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	CDC	3
		EPA 6010D	KH	1
92587319013	MW-19	EPA 6020B	CW1	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
92587319014	MW-25D	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
92587319015	MW-26D	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

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587319016	DUP-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
92587319017	HGWC-7	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
92587319018	HGWC-8	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
92587319019	HGWC-13	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
92587319020	MW-20	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
92587319021	MW-24D	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
92587319022	MW-27D	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
92587319023	MW-28D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1

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### SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587319024	MW-29	EPA 6020B	CW1	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, KH	13
		EPA 7470A	VB	1
92587319025	EB-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
92587319026	FB-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
		SM 2540C-2015	ALW	1

PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte  
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1

Pace Project No.: 92587319

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92587319001</b>	<b>MW-7</b>					
	Performed by	CUSTOMER			02/09/22 17:14	
	pH	6.73	Std. Units		02/09/22 17:14	
EPA 6010D	Calcium	73.3	mg/L	1.0	02/25/22 00:59	M1
EPA 6020B	Barium	0.053	mg/L	0.0050	02/24/22 17:54	
EPA 6020B	Boron	0.19	mg/L	0.040	02/24/22 17:54	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	02/24/22 17:54	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	02/24/22 17:54	
EPA 6020B	Selenium	0.0015J	mg/L	0.0050	02/24/22 17:54	
SM 2540C-2015	Total Dissolved Solids	290	mg/L	10.0	02/15/22 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	6.9	mg/L	1.0	02/16/22 09:15	
EPA 300.0 Rev 2.1 1993	Sulfate	80.4	mg/L	1.0	02/16/22 09:15	
<b>92587319002</b>	<b>HGWA-44D</b>					
	Performed by	CUSTOMER			02/09/22 17:13	
	pH	8.25	Std. Units		02/09/22 17:13	
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	
<b>92587319003</b>	<b>HGWA-2</b>					
	Performed by	CUSTOMER			02/09/22 17:14	
	pH	5.24	Std. Units		02/09/22 17:14	
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	
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	H3
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	
<b>92587319004</b>	<b>HGWA-3</b>					
	Performed by	CUSTOMER			02/09/22 17:14	
	pH	7.45	Std. Units		02/09/22 17:14	

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1

Pace Project No.: 92587319

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92587319004</b>	<b>HGWA-3</b>					
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	
<b>92587319005</b>	<b>HGWA-1</b>					
	Performed by	CUSTOMER			02/09/22 17:14	
	pH	7.19	Std. Units		02/09/22 17:14	
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	
<b>92587319006</b>	<b>HGWA-43D</b>					
	Performed by	CUSTOMER			02/09/22 17:14	
	pH	7.52	Std. Units		02/09/22 17:14	
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	
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	
<b>92587319007</b>	<b>HGWC-9</b>					
	Performed by	CUSTOMER			02/11/22 16:06	
	pH	7.30	Std. Units		02/11/22 16:06	
EPA 6010D	Calcium	183	mg/L	1.0	02/25/22 01:47	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	02/24/22 19:06	B
EPA 6020B	Barium	0.096	mg/L	0.0050	02/24/22 19:06	
EPA 6020B	Boron	2.3	mg/L	0.040	02/24/22 19:06	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	02/24/22 19:06	
EPA 6020B	Cobalt	0.00051J	mg/L	0.0050	02/24/22 19:06	
EPA 6020B	Lithium	0.0041J	mg/L	0.030	02/24/22 19:06	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1

Pace Project No.: 92587319

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92587319007</b>	<b>HGWC-9</b>					
EPA 6020B	Molybdenum	0.034	mg/L	0.010	02/24/22 19:06	
SM 2540C-2015	Total Dissolved Solids	756	mg/L	20.0	02/16/22 13:54	
EPA 300.0 Rev 2.1 1993	Chloride	84.4	mg/L	1.0	02/17/22 14:56	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/17/22 14:56	
EPA 300.0 Rev 2.1 1993	Sulfate	224	mg/L	5.0	02/18/22 01:08	
<b>92587319008</b>	<b>HGWC-10</b>					
	Performed by	CUSTOMER			02/11/22 16:06	
	pH	7.00	Std. Units		02/11/22 16:06	
EPA 6010D	Calcium	76.8	mg/L	1.0	02/25/22 01:52	
EPA 6020B	Barium	0.042	mg/L	0.0050	02/24/22 19:12	
EPA 6020B	Boron	0.10	mg/L	0.040	02/24/22 19:12	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	02/24/22 19:12	
EPA 6020B	Selenium	0.0031J	mg/L	0.0050	02/24/22 19:12	
SM 2540C-2015	Total Dissolved Solids	250	mg/L	10.0	02/16/22 13:54	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	02/17/22 15:41	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/17/22 15:41	
EPA 300.0 Rev 2.1 1993	Sulfate	49.2	mg/L	1.0	02/17/22 15:41	
<b>92587319009</b>	<b>HGWC-11</b>					
	Performed by	CUSTOMER			02/11/22 16:06	
	pH	6.55	Std. Units		02/11/22 16:06	
EPA 6010D	Calcium	144	mg/L	1.0	02/25/22 01:56	
EPA 6020B	Arsenic	0.0047J	mg/L	0.0050	02/24/22 19:18	B
EPA 6020B	Barium	0.042	mg/L	0.0050	02/24/22 19:18	
EPA 6020B	Boron	1.0	mg/L	0.040	02/24/22 19:18	
EPA 6020B	Molybdenum	0.030	mg/L	0.010	02/24/22 19:18	
EPA 6020B	Selenium	0.0035J	mg/L	0.0050	02/24/22 19:18	
SM 2540C-2015	Total Dissolved Solids	544	mg/L	20.0	02/16/22 13:54	
EPA 300.0 Rev 2.1 1993	Chloride	20.4	mg/L	1.0	02/17/22 15:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	02/17/22 15:56	
EPA 300.0 Rev 2.1 1993	Sulfate	276	mg/L	6.0	02/18/22 01:52	
<b>92587319010</b>	<b>HGWC-12</b>					
	Performed by	CUSTOMER			02/11/22 16:06	
	pH	7.23	Std. Units		02/11/22 16:06	
EPA 6010D	Calcium	172	mg/L	1.0	02/25/22 02:01	
EPA 6020B	Arsenic	0.0053	mg/L	0.0050	02/24/22 19:24	B
EPA 6020B	Barium	0.075	mg/L	0.0050	02/24/22 19:24	
EPA 6020B	Boron	2.0	mg/L	0.040	02/24/22 19:24	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	02/24/22 19:24	
EPA 6020B	Lithium	0.010J	mg/L	0.030	02/24/22 19:24	
EPA 6020B	Molybdenum	0.042	mg/L	0.010	02/24/22 19:24	
SM 2540C-2015	Total Dissolved Solids	678	mg/L	20.0	02/16/22 13:55	
EPA 300.0 Rev 2.1 1993	Chloride	46.8	mg/L	1.0	02/17/22 16:11	
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	02/17/22 16:11	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92587319010</b>	<b>HGWC-12</b>					
EPA 300.0 Rev 2.1 1993	Sulfate	252	mg/L	5.0	02/18/22 02:07	
<b>92587319011</b>	<b>MW-5</b>					
	Performed by	CUSTOME			02/11/22 16:06	
		R				
	pH	6.13	Std. Units		02/11/22 16:06	
EPA 6010D	Calcium	68.1	mg/L	1.0	02/25/22 02:06	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	02/24/22 19:30	B
EPA 6020B	Barium	0.042	mg/L	0.0050	02/24/22 19:30	
EPA 6020B	Boron	0.042	mg/L	0.040	02/24/22 19:30	
EPA 6020B	Chromium	0.0031J	mg/L	0.0050	02/24/22 19:30	
EPA 6020B	Selenium	0.0027J	mg/L	0.0050	02/24/22 19:30	
SM 2540C-2015	Total Dissolved Solids	314	mg/L	10.0	02/16/22 13:55	
EPA 300.0 Rev 2.1 1993	Chloride	0.74J	mg/L	1.0	02/17/22 16:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.056J	mg/L	0.10	02/17/22 16:26	
EPA 300.0 Rev 2.1 1993	Sulfate	123	mg/L	3.0	02/18/22 03:23	
<b>92587319012</b>	<b>MW-6</b>					
	Performed by	CUSTOME			02/11/22 16:07	
		R				
	pH	7.01	Std. Units		02/11/22 16:07	
EPA 6010D	Calcium	178	mg/L	1.0	02/25/22 02:11	
EPA 6020B	Arsenic	0.0034J	mg/L	0.0050	02/24/22 19:36	B
EPA 6020B	Barium	0.074	mg/L	0.0050	02/24/22 19:36	
EPA 6020B	Boron	0.96	mg/L	0.040	02/24/22 19:36	
EPA 6020B	Cobalt	0.00059J	mg/L	0.0050	02/24/22 19:36	
EPA 6020B	Molybdenum	0.0026J	mg/L	0.010	02/24/22 19:36	
SM 2540C-2015	Total Dissolved Solids	652	mg/L	20.0	02/16/22 13:55	
EPA 300.0 Rev 2.1 1993	Chloride	37.9	mg/L	1.0	02/17/22 16:41	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/17/22 16:41	
EPA 300.0 Rev 2.1 1993	Sulfate	197	mg/L	4.0	02/18/22 03:38	
<b>92587319013</b>	<b>MW-19</b>					
	Performed by	CUSTOME			02/11/22 16:07	
		R				
	pH	6.28	Std. Units		02/11/22 16:07	
EPA 6010D	Calcium	97.6	mg/L	1.0	02/25/22 02:16	
EPA 6020B	Barium	0.042	mg/L	0.0050	02/24/22 19:42	
EPA 6020B	Boron	0.49	mg/L	0.040	02/24/22 19:42	
EPA 6020B	Cadmium	0.0011	mg/L	0.00050	02/24/22 19:42	
EPA 6020B	Cobalt	0.030	mg/L	0.0050	02/24/22 19:42	
EPA 6020B	Lithium	0.0067J	mg/L	0.030	02/24/22 19:42	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	02/24/22 19:42	
EPA 6020B	Selenium	0.0036J	mg/L	0.0050	02/24/22 19:42	
SM 2540C-2015	Total Dissolved Solids	503	mg/L	10.0	02/16/22 13:55	
EPA 300.0 Rev 2.1 1993	Chloride	10.2	mg/L	1.0	02/17/22 16:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.076J	mg/L	0.10	02/17/22 16:56	
EPA 300.0 Rev 2.1 1993	Sulfate	221	mg/L	5.0	02/18/22 03:53	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1

Pace Project No.: 92587319

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92587319014</b>	<b>MW-25D</b>					
	Performed by	CUSTOME			02/11/22 16:07	
		R				
	pH	7.82	Std. Units		02/11/22 16:07	
EPA 6010D	Calcium	23.5	mg/L	1.0	02/25/22 02:20	
EPA 6020B	Barium	0.60	mg/L	0.0050	02/24/22 20:00	
EPA 6020B	Boron	0.43	mg/L	0.040	02/24/22 20:00	
EPA 6020B	Lithium	0.048	mg/L	0.030	02/24/22 20:00	
SM 2540C-2015	Total Dissolved Solids	364	mg/L	10.0	02/16/22 13:55	
EPA 300.0 Rev 2.1 1993	Chloride	26.5	mg/L	1.0	02/17/22 17:11	
EPA 300.0 Rev 2.1 1993	Fluoride	1.7	mg/L	0.10	02/17/22 17:11	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	02/17/22 17:11	
<b>92587319015</b>	<b>MW-26D</b>					
	Performed by	CUSTOME			02/11/22 16:07	
		R				
	pH	7.32	Std. Units		02/11/22 16:07	
EPA 6010D	Calcium	176	mg/L	1.0	02/25/22 02:35	
EPA 6020B	Arsenic	0.0017J	mg/L	0.0050	02/24/22 20:18	B
EPA 6020B	Barium	0.066	mg/L	0.0050	02/24/22 20:18	
EPA 6020B	Boron	2.3	mg/L	0.040	02/24/22 20:18	
EPA 6020B	Cobalt	0.00059J	mg/L	0.0050	02/24/22 20:18	
EPA 6020B	Lithium	0.0039J	mg/L	0.030	02/24/22 20:18	
EPA 6020B	Molybdenum	0.028	mg/L	0.010	02/24/22 20:18	
SM 2540C-2015	Total Dissolved Solids	734	mg/L	20.0	02/16/22 13:55	
EPA 300.0 Rev 2.1 1993	Chloride	85.7	mg/L	1.0	02/17/22 17:56	
EPA 300.0 Rev 2.1 1993	Fluoride	0.092J	mg/L	0.10	02/17/22 17:56	
EPA 300.0 Rev 2.1 1993	Sulfate	224	mg/L	5.0	02/18/22 04:08	
<b>92587319016</b>	<b>DUP-1</b>					
EPA 6010D	Calcium	85.0	mg/L	1.0	02/25/22 02:40	
EPA 6020B	Barium	0.043	mg/L	0.0050	02/24/22 20:24	
EPA 6020B	Boron	0.18	mg/L	0.040	02/24/22 20:24	
EPA 6020B	Selenium	0.0025J	mg/L	0.0050	02/24/22 20:24	
SM 2540C-2015	Total Dissolved Solids	292	mg/L	10.0	02/16/22 13:55	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/17/22 18:11	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/17/22 18:11	
EPA 300.0 Rev 2.1 1993	Sulfate	61.6	mg/L	1.0	02/17/22 18:11	
<b>92587319017</b>	<b>HGWC-7</b>					
	Performed by	CUSTOME			02/11/22 16:07	
		R				
	pH	7.22	Std. Units		02/11/22 16:07	
EPA 6010D	Calcium	108	mg/L	1.0	02/25/22 17:40	
EPA 6020B	Barium	0.063	mg/L	0.0050	02/24/22 20:30	
EPA 6020B	Boron	1.3	mg/L	0.040	02/24/22 20:30	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	02/24/22 20:30	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	02/24/22 20:30	
EPA 6020B	Molybdenum	0.045	mg/L	0.010	02/24/22 20:30	
SM 2540C-2015	Total Dissolved Solids	414	mg/L	10.0	02/16/22 14:18	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1

Pace Project No.: 92587319

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92587319017</b>	<b>HGWC-7</b>					
EPA 300.0 Rev 2.1 1993	Chloride	39.8	mg/L	1.0	02/17/22 16:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.083J	mg/L	0.10	02/17/22 16:16	
EPA 300.0 Rev 2.1 1993	Sulfate	97.5	mg/L	2.0	02/18/22 03:55	
<b>92587319018</b>	<b>HGWC-8</b>					
	Performed by	CUSTOMER			02/11/22 16:07	
	pH	6.99	Std. Units		02/11/22 16:07	
EPA 6010D	Calcium	153	mg/L	1.0	02/28/22 21:32	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	02/24/22 20:35	B
EPA 6020B	Barium	0.056	mg/L	0.0050	02/24/22 20:35	
EPA 6020B	Beryllium	0.000071J	mg/L	0.00050	02/24/22 20:35	
EPA 6020B	Boron	1.7	mg/L	0.040	02/24/22 20:35	
EPA 6020B	Cadmium	0.00029J	mg/L	0.00050	02/24/22 20:35	
EPA 6020B	Cobalt	0.0021J	mg/L	0.0050	02/24/22 20:35	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	02/24/22 20:35	
EPA 6020B	Molybdenum	0.34	mg/L	0.010	02/24/22 20:35	
SM 2540C-2015	Total Dissolved Solids	578	mg/L	20.0	02/16/22 14:18	
EPA 300.0 Rev 2.1 1993	Chloride	48.2	mg/L	1.0	02/17/22 16:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.42	mg/L	0.10	02/17/22 16:30	
EPA 300.0 Rev 2.1 1993	Sulfate	224	mg/L	5.0	02/18/22 04:09	
<b>92587319019</b>	<b>HGWC-13</b>					
	Performed by	CUSTOMER			02/11/22 16:08	
	pH	7.54	Std. Units		02/11/22 16:08	
EPA 6010D	Calcium	206	mg/L	1.0	02/28/22 21:37	
EPA 6020B	Arsenic	0.38	mg/L	0.0050	02/25/22 19:20	
EPA 6020B	Barium	0.053	mg/L	0.0050	02/25/22 19:20	
EPA 6020B	Boron	1.0	mg/L	0.040	02/28/22 19:53	
EPA 6020B	Cobalt	0.0026J	mg/L	0.0050	02/25/22 19:20	
EPA 6020B	Lithium	0.031	mg/L	0.030	02/28/22 19:53	
EPA 6020B	Molybdenum	0.033	mg/L	0.010	02/25/22 19:20	
SM 2540C-2015	Total Dissolved Solids	814	mg/L	10.0	02/16/22 14:18	
EPA 300.0 Rev 2.1 1993	Chloride	17.4	mg/L	1.0	02/17/22 16:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.53	mg/L	0.10	02/17/22 16:44	
EPA 300.0 Rev 2.1 1993	Sulfate	371	mg/L	9.0	02/18/22 04:22	
<b>92587319020</b>	<b>MW-20</b>					
	Performed by	CUSTOMER			02/11/22 16:08	
	pH	7.19	Std. Units		02/11/22 16:08	
EPA 6010D	Calcium	123	mg/L	1.0	02/25/22 18:04	
EPA 6020B	Barium	0.082	mg/L	0.0050	02/25/22 19:25	
EPA 6020B	Boron	0.13	mg/L	0.040	02/28/22 19:59	
EPA 6020B	Lithium	0.00099J	mg/L	0.030	02/25/22 19:25	
SM 2540C-2015	Total Dissolved Solids	459	mg/L	10.0	02/16/22 14:18	
EPA 300.0 Rev 2.1 1993	Chloride	31.4	mg/L	1.0	02/17/22 16:58	
EPA 300.0 Rev 2.1 1993	Sulfate	95.9	mg/L	2.0	02/18/22 04:37	M1

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1

Pace Project No.: 92587319

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92587319021</b>	<b>MW-24D</b>					
	Performed by	CUSTOME			02/11/22 16:08	
		R				
	pH	7.82	Std. Units		02/11/22 16:08	
EPA 6010D	Calcium	110	mg/L	1.0	02/25/22 18:08	
EPA 6020B	Barium	0.048	mg/L	0.0050	02/25/22 19:31	
EPA 6020B	Boron	0.55	mg/L	0.20	02/28/22 20:05	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	02/25/22 19:31	
EPA 6020B	Molybdenum	0.00080J	mg/L	0.010	02/25/22 19:31	
SM 2540C-2015	Total Dissolved Solids	412	mg/L	10.0	02/16/22 14:18	
EPA 300.0 Rev 2.1 1993	Chloride	38.2	mg/L	1.0	02/17/22 17:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.051J	mg/L	0.10	02/17/22 17:40	
EPA 300.0 Rev 2.1 1993	Sulfate	127	mg/L	3.0	02/18/22 05:21	
<b>92587319022</b>	<b>MW-27D</b>					
	Performed by	CUSTOME			02/11/22 16:08	
		R				
	pH	7.96	Std. Units		02/11/22 16:08	
EPA 6010D	Calcium	31.4	mg/L	1.0	02/25/22 18:13	
EPA 6020B	Barium	0.99	mg/L	0.0050	02/25/22 19:49	
EPA 6020B	Boron	0.13	mg/L	0.040	02/28/22 20:11	
EPA 6020B	Lithium	0.0086J	mg/L	0.030	02/25/22 19:49	
EPA 6020B	Molybdenum	0.0017J	mg/L	0.010	02/25/22 19:49	
SM 2540C-2015	Total Dissolved Solids	242	mg/L	10.0	02/16/22 14:19	
EPA 300.0 Rev 2.1 1993	Chloride	31.4	mg/L	1.0	02/17/22 17:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.25	mg/L	0.10	02/17/22 17:54	
EPA 300.0 Rev 2.1 1993	Sulfate	13.2	mg/L	1.0	02/17/22 17:54	
<b>92587319023</b>	<b>MW-28D</b>					
	Performed by	CUSTOME			02/11/22 16:08	
		R				
	pH	7.59	Std. Units		02/11/22 16:08	
EPA 6010D	Calcium	58.5	mg/L	1.0	02/25/22 18:18	
EPA 6020B	Barium	0.76	mg/L	0.0050	02/25/22 19:55	
EPA 6020B	Boron	0.23	mg/L	0.040	03/01/22 16:00	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	02/25/22 19:55	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/25/22 19:55	
EPA 6020B	Molybdenum	0.0031J	mg/L	0.010	02/25/22 19:55	
SM 2540C-2015	Total Dissolved Solids	299	mg/L	10.0	02/17/22 16:05	
EPA 300.0 Rev 2.1 1993	Chloride	29.0	mg/L	1.0	02/17/22 18:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	02/17/22 18:08	
EPA 300.0 Rev 2.1 1993	Sulfate	32.5	mg/L	1.0	02/17/22 18:08	
<b>92587319024</b>	<b>MW-29</b>					
	Performed by	CUSTOME			02/11/22 16:09	
		R				
	pH	7.27	Std. Units		02/11/22 16:09	
EPA 6010D	Calcium	156	mg/L	5.0	02/25/22 18:28	
EPA 6020B	Barium	0.072	mg/L	0.0050	02/25/22 20:01	
EPA 6020B	Boron	1.4	mg/L	0.20	02/28/22 20:17	
EPA 6020B	Cobalt	0.00089J	mg/L	0.0050	02/25/22 20:01	

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1

Pace Project No.: 92587319

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92587319024</b>	<b>MW-29</b>					
EPA 6020B	Lithium	0.0023J	mg/L	0.030	02/25/22 20:01	
EPA 6020B	Molybdenum	0.0036J	mg/L	0.010	02/25/22 20:01	
SM 2540C-2015	Total Dissolved Solids	508	mg/L	20.0	02/17/22 16:05	
EPA 300.0 Rev 2.1 1993	Chloride	66.0	mg/L	1.0	02/17/22 18:50	
EPA 300.0 Rev 2.1 1993	Sulfate	141	mg/L	3.0	02/18/22 06:04	
<b>92587319025</b>	<b>EB-1</b>					
EPA 6020B	Barium	0.0026J	mg/L	0.0050	02/25/22 20:13	
<b>92587319026</b>	<b>FB-1</b>					
EPA 6020B	Barium	0.0027J	mg/L	0.0050	02/25/22 20:19	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: MW-7		Lab ID: 92587319001		Collected: 02/08/22 17:05		Received: 02/09/22 12:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/09/22 17:14		
pH	<b>6.73</b>	Std. Units			1		02/09/22 17:14		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>73.3</b>	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 00:59	7440-70-2	M1
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 17:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 17:54	7440-38-2	
Barium	<b>0.053</b>	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 17:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 17:54	7440-41-7	
Boron	<b>0.19</b>	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 17:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 17:54	7440-43-9	
Chromium	<b>0.0016J</b>	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 17:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 17:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 17:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 17:54	7439-93-2	
Molybdenum	<b>0.0012J</b>	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 17:54	7439-98-7	
Selenium	<b>0.0015J</b>	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 17:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 17:54	7440-28-0	
<b>7470 Mercury</b>									
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 11:10	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>290</b>	mg/L	10.0	10.0	1		02/15/22 16:04		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>6.9</b>	mg/L	1.0	0.60	1		02/16/22 09:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 09:15	16984-48-8	
Sulfate	<b>80.4</b>	mg/L	1.0	0.50	1		02/16/22 09:15	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1

Pace Project No.: 92587319

Sample: HGWA-44D		Lab ID: 92587319002		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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 17:13		
pH	8.25	Std. Units			1		02/09/22 17:13		
<b>6010D ATL ICP</b>									
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	
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
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		
<b>300.0 IC Anions 28 Days</b>									
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-1  
Pace Project No.: 92587319

Sample: <b>HGWA-2</b>		Lab ID: <b>92587319003</b>		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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/09/22 17:14		
pH	<b>5.24</b>	Std. Units			1		02/09/22 17:14		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>27.2</b>	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 16:53	7440-70-2	
<b>6020 MET ICPMS</b>									
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	<b>0.0023J</b>	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:49	7440-38-2	
Barium	<b>0.13</b>	mg/L	0.0050	0.00067	1	02/17/22 09:52	02/18/22 17:49	7440-39-3	
Beryllium	<b>0.00020J</b>	mg/L	0.00050	0.000054	1	02/17/22 09:52	02/18/22 17:49	7440-41-7	
Boron	<b>0.056</b>	mg/L	0.040	0.0086	1	02/17/22 09:52	02/18/22 17:49	7440-42-8	
Cadmium	<b>0.00017J</b>	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	<b>0.025</b>	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	<b>0.0017J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>156</b>	mg/L	10.0	10.0	1		02/07/22 16:43		H3
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>7.0</b>	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	<b>67.1</b>	mg/L	1.0	0.50	1		02/08/22 13:36	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: <b>HGWA-3</b>		Lab ID: <b>92587319004</b>		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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/09/22 17:14		
pH	<b>7.45</b>	Std. Units			1		02/09/22 17:14		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>85.1</b>	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 16:58	7440-70-2	
<b>6020 MET ICPMS</b>									
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	<b>0.0024J</b>	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:55	7440-38-2	
Barium	<b>0.12</b>	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	<b>0.011J</b>	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	<b>0.0037J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>350</b>	mg/L	10.0	10.0	1		02/07/22 16:43		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>5.7</b>	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	<b>46.0</b>	mg/L	1.0	0.50	1		02/08/22 13:50	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: HGWA-1		Lab ID: 92587319005		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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/09/22 17:14		
pH	<b>7.19</b>	Std. Units			1		02/09/22 17:14		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>106</b>	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 17:02	7440-70-2	
<b>6020 MET ICPMS</b>									
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	<b>0.0016J</b>	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 18:01	7440-38-2	
Barium	<b>0.031</b>	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	<b>0.016J</b>	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	<b>0.0011J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>270</b>	mg/L	10.0	10.0	1		02/07/22 16:44		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>7.5</b>	mg/L	1.0	0.60	1		02/08/22 14:03	16887-00-6	
Fluoride	<b>0.064J</b>	mg/L	0.10	0.050	1		02/08/22 14:03	16984-48-8	
Sulfate	<b>43.7</b>	mg/L	1.0	0.50	1		02/08/22 14:03	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: <b>HGWA-43D</b>		Lab ID: <b>92587319006</b>		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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/09/22 17:14		
pH	<b>7.52</b>	Std. Units			1		02/09/22 17:14		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>55.9</b>	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 17:07	7440-70-2	
<b>6020 MET ICPMS</b>									
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	<b>0.0036J</b>	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 18:07	7440-38-2	
Barium	<b>0.29</b>	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	<b>0.050</b>	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	<b>0.0024J</b>	mg/L	0.030	0.00073	1	02/17/22 09:52	02/18/22 18:07	7439-93-2	
Molybdenum	<b>0.0036J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>156</b>	mg/L	10.0	10.0	1		02/07/22 16:44		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>4.1</b>	mg/L	1.0	0.60	1		02/08/22 14:17	16887-00-6	
Fluoride	<b>0.19</b>	mg/L	0.10	0.050	1		02/08/22 14:17	16984-48-8	
Sulfate	<b>37.5</b>	mg/L	1.0	0.50	1		02/08/22 14:17	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: <b>HGWC-9</b>		Lab ID: <b>92587319007</b>		Collected: 02/09/22 11:06		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:06		
pH	<b>7.30</b>	Std. Units			1		02/11/22 16:06		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>183</b>	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 01:47	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:06	7440-36-0	
Arsenic	<b>0.0021J</b>	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:06	7440-38-2	B
Barium	<b>0.096</b>	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:06	7440-41-7	
Boron	<b>2.3</b>	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:06	7440-43-9	
Chromium	<b>0.0011J</b>	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:06	7440-47-3	
Cobalt	<b>0.00051J</b>	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:06	7439-92-1	
Lithium	<b>0.0041J</b>	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:06	7439-93-2	
Molybdenum	<b>0.034</b>	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:06	7440-28-0	
<b>7470 Mercury</b>									
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 11:21	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>756</b>	mg/L	20.0	20.0	1		02/16/22 13:54		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>84.4</b>	mg/L	1.0	0.60	1		02/17/22 14:56	16887-00-6	M1
Fluoride	<b>0.10</b>	mg/L	0.10	0.050	1		02/17/22 14:56	16984-48-8	
Sulfate	<b>224</b>	mg/L	5.0	2.5	5		02/18/22 01:08	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: <b>HGWC-10</b>		Lab ID: <b>92587319008</b>		Collected: 02/09/22 15:37	Received: 02/11/22 11:35	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:06		
pH	<b>7.00</b>	Std. Units			1		02/11/22 16:06		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>76.8</b>	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 01:52	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:12	7440-38-2	
Barium	<b>0.042</b>	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:12	7440-41-7	
Boron	<b>0.10</b>	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:12	7440-43-9	
Chromium	<b>0.0011J</b>	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:12	7439-98-7	
Selenium	<b>0.0031J</b>	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:12	7440-28-0	
<b>7470 Mercury</b>									
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 11:24	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>250</b>	mg/L	10.0	10.0	1		02/16/22 13:54		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>1.2</b>	mg/L	1.0	0.60	1		02/17/22 15:41	16887-00-6	
Fluoride	<b>0.12</b>	mg/L	0.10	0.050	1		02/17/22 15:41	16984-48-8	
Sulfate	<b>49.2</b>	mg/L	1.0	0.50	1		02/17/22 15:41	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: HGWC-11		Lab ID: 92587319009		Collected: 02/09/22 10:02		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:06		
pH	<b>6.55</b>	Std. Units			1		02/11/22 16:06		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>144</b>	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 01:56	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:18	7440-36-0	
Arsenic	<b>0.0047J</b>	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:18	7440-38-2	B
Barium	<b>0.042</b>	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:18	7440-41-7	
Boron	<b>1.0</b>	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:18	7439-93-2	
Molybdenum	<b>0.030</b>	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:18	7439-98-7	
Selenium	<b>0.0035J</b>	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:18	7440-28-0	
<b>7470 Mercury</b>									
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 11:26	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>544</b>	mg/L	20.0	20.0	1		02/16/22 13:54		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>20.4</b>	mg/L	1.0	0.60	1		02/17/22 15:56	16887-00-6	
Fluoride	<b>0.20</b>	mg/L	0.10	0.050	1		02/17/22 15:56	16984-48-8	
Sulfate	<b>276</b>	mg/L	6.0	3.0	6		02/18/22 01:52	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: <b>HGWC-12</b> Lab ID: <b>92587319010</b> Collected: 02/09/22 11:38 Received: 02/11/22 11:35 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:06		
pH	<b>7.23</b>	Std. Units			1		02/11/22 16:06		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>172</b>	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:01	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:24	7440-36-0	
Arsenic	<b>0.0053</b>	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:24	7440-38-2	B
Barium	<b>0.075</b>	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:24	7440-41-7	
Boron	<b>2.0</b>	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:24	7440-47-3	
Cobalt	<b>0.0013J</b>	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:24	7439-92-1	
Lithium	<b>0.010J</b>	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:24	7439-93-2	
Molybdenum	<b>0.042</b>	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:24	7440-28-0	
<b>7470 Mercury</b>									
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 11:29	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>678</b>	mg/L	20.0	20.0	1		02/16/22 13:55		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>46.8</b>	mg/L	1.0	0.60	1		02/17/22 16:11	16887-00-6	
Fluoride	<b>0.20</b>	mg/L	0.10	0.050	1		02/17/22 16:11	16984-48-8	
Sulfate	<b>252</b>	mg/L	5.0	2.5	5		02/18/22 02:07	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: MW-5		Lab ID: 92587319011		Collected: 02/09/22 12:33		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:06		
pH	<b>6.13</b>	Std. Units			1		02/11/22 16:06		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>68.1</b>	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:06	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:30	7440-36-0	
Arsenic	<b>0.0013J</b>	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:30	7440-38-2	B
Barium	<b>0.042</b>	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:30	7440-41-7	
Boron	<b>0.042</b>	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:30	7440-43-9	
Chromium	<b>0.0031J</b>	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:30	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:30	7439-98-7	
Selenium	<b>0.0027J</b>	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:30	7440-28-0	
<b>7470 Mercury</b>									
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 11:37	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>314</b>	mg/L	10.0	10.0	1		02/16/22 13:55		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>0.74J</b>	mg/L	1.0	0.60	1		02/17/22 16:26	16887-00-6	
Fluoride	<b>0.056J</b>	mg/L	0.10	0.050	1		02/17/22 16:26	16984-48-8	
Sulfate	<b>123</b>	mg/L	3.0	1.5	3		02/18/22 03:23	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: MW-6		Lab ID: 92587319012		Collected: 02/09/22 14:13		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:07		
pH	<b>7.01</b>	Std. Units			1		02/11/22 16:07		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>178</b>	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:11	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:36	7440-36-0	
Arsenic	<b>0.0034J</b>	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:36	7440-38-2	B
Barium	<b>0.074</b>	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:36	7440-41-7	
Boron	<b>0.96</b>	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:36	7440-47-3	
Cobalt	<b>0.00059J</b>	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:36	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:36	7439-93-2	
Molybdenum	<b>0.0026J</b>	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:36	7440-28-0	
<b>7470 Mercury</b>									
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 11:39	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>652</b>	mg/L	20.0	20.0	1		02/16/22 13:55		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>37.9</b>	mg/L	1.0	0.60	1		02/17/22 16:41	16887-00-6	
Fluoride	<b>0.059J</b>	mg/L	0.10	0.050	1		02/17/22 16:41	16984-48-8	
Sulfate	<b>197</b>	mg/L	4.0	2.0	4		02/18/22 03:38	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: MW-19		Lab ID: 92587319013		Collected: 02/09/22 16:25		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:07		
pH	<b>6.28</b>	Std. Units			1		02/11/22 16:07		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>97.6</b>	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:16	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:42	7440-38-2	
Barium	<b>0.042</b>	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:42	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:42	7440-41-7	
Boron	<b>0.49</b>	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:42	7440-42-8	
Cadmium	<b>0.0011</b>	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:42	7440-47-3	
Cobalt	<b>0.030</b>	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:42	7439-92-1	
Lithium	<b>0.0067J</b>	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:42	7439-93-2	
Molybdenum	<b>0.011</b>	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:42	7439-98-7	
Selenium	<b>0.0036J</b>	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:42	7440-28-0	
<b>7470 Mercury</b>									
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 11:42	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>503</b>	mg/L	10.0	10.0	1		02/16/22 13:55		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>10.2</b>	mg/L	1.0	0.60	1		02/17/22 16:56	16887-00-6	
Fluoride	<b>0.076J</b>	mg/L	0.10	0.050	1		02/17/22 16:56	16984-48-8	
Sulfate	<b>221</b>	mg/L	5.0	2.5	5		02/18/22 03:53	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: MW-25D		Lab ID: 92587319014		Collected: 02/09/22 14:00		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:07		
pH	<b>7.82</b>	Std. Units			1		02/11/22 16:07		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>23.5</b>	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:20	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 20:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:00	7440-38-2	
Barium	<b>0.60</b>	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 20:00	7440-41-7	
Boron	<b>0.43</b>	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 20:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 20:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 20:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 20:00	7439-92-1	
Lithium	<b>0.048</b>	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 20:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 20:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 20:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 20:00	7440-28-0	
<b>7470 Mercury</b>									
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 11:45	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>364</b>	mg/L	10.0	10.0	1		02/16/22 13:55		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>26.5</b>	mg/L	1.0	0.60	1		02/17/22 17:11	16887-00-6	
Fluoride	<b>1.7</b>	mg/L	0.10	0.050	1		02/17/22 17:11	16984-48-8	
Sulfate	<b>1.7</b>	mg/L	1.0	0.50	1		02/17/22 17:11	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: MW-26D		Lab ID: 92587319015		Collected: 02/09/22 09:54		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:07		
pH	7.32	Std. Units			1		02/11/22 16:07		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	176	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:35	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 20:18	7440-36-0	
Arsenic	0.0017J	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:18	7440-38-2	B
Barium	0.066	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 20:18	7440-41-7	
Boron	2.3	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 20:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 20:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:18	7440-47-3	
Cobalt	0.00059J	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 20:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 20:18	7439-92-1	
Lithium	0.0039J	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 20:18	7439-93-2	
Molybdenum	0.028	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 20:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 20:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 20:18	7440-28-0	
<b>7470 Mercury</b>									
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 11:47	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	734	mg/L	20.0	20.0	1		02/16/22 13:55		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	85.7	mg/L	1.0	0.60	1		02/17/22 17:56	16887-00-6	
Fluoride	0.092J	mg/L	0.10	0.050	1		02/17/22 17:56	16984-48-8	
Sulfate	224	mg/L	5.0	2.5	5		02/18/22 04:08	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: DUP-1		Lab ID: 92587319016		Collected: 02/09/22 00:00	Received: 02/11/22 11:35	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	<b>85.0</b>	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:40	7440-70-2		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 20:24	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:24	7440-38-2		
Barium	<b>0.043</b>	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:24	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 20:24	7440-41-7		
Boron	<b>0.18</b>	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 20:24	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 20:24	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:24	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 20:24	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 20:24	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 20:24	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 20:24	7439-98-7		
Selenium	<b>0.0025J</b>	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 20:24	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 20:24	7440-28-0		
<b>7470 Mercury</b>		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 11:50	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	<b>292</b>	mg/L	10.0	10.0	1		02/16/22 13:55			
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	<b>3.5</b>	mg/L	1.0	0.60	1		02/17/22 18:11	16887-00-6		
Fluoride	<b>0.11</b>	mg/L	0.10	0.050	1		02/17/22 18:11	16984-48-8		
Sulfate	<b>61.6</b>	mg/L	1.0	0.50	1		02/17/22 18:11	14808-79-8		

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: <b>HGWC-7</b>		Lab ID: <b>92587319017</b>		Collected: 02/10/22 12:12		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:07		
pH	<b>7.22</b>	Std. Units			1		02/11/22 16:07		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>108</b>	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 17:40	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 20:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:30	7440-38-2	
Barium	<b>0.063</b>	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 20:30	7440-41-7	
Boron	<b>1.3</b>	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 20:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 20:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:30	7440-47-3	
Cobalt	<b>0.0011J</b>	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 20:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 20:30	7439-92-1	
Lithium	<b>0.0022J</b>	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 20:30	7439-93-2	
Molybdenum	<b>0.045</b>	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 20:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 20:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 20:30	7440-28-0	
<b>7470 Mercury</b>									
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 11:52	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>414</b>	mg/L	10.0	10.0	1		02/16/22 14:18		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>39.8</b>	mg/L	1.0	0.60	1		02/17/22 16:16	16887-00-6	
Fluoride	<b>0.083J</b>	mg/L	0.10	0.050	1		02/17/22 16:16	16984-48-8	
Sulfate	<b>97.5</b>	mg/L	2.0	1.0	2		02/18/22 03:55	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: <b>HGWC-8</b>		Lab ID: <b>92587319018</b>		Collected: 02/10/22 15:45		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:07		
pH	<b>6.99</b>	Std. Units			1		02/11/22 16:07		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>153</b>	mg/L	1.0	0.12	1	02/25/22 07:39	02/28/22 21:32	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 20:35	7440-36-0	
Arsenic	<b>0.0020J</b>	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:35	7440-38-2	B
Barium	<b>0.056</b>	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:35	7440-39-3	
Beryllium	<b>0.000071J</b>	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 20:35	7440-41-7	
Boron	<b>1.7</b>	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 20:35	7440-42-8	
Cadmium	<b>0.00029J</b>	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 20:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:35	7440-47-3	
Cobalt	<b>0.0021J</b>	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 20:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 20:35	7439-92-1	
Lithium	<b>0.0030J</b>	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 20:35	7439-93-2	
Molybdenum	<b>0.34</b>	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 20:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 20:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 20:35	7440-28-0	
<b>7470 Mercury</b>									
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 11:55	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>578</b>	mg/L	20.0	20.0	1		02/16/22 14:18		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>48.2</b>	mg/L	1.0	0.60	1		02/17/22 16:30	16887-00-6	
Fluoride	<b>0.42</b>	mg/L	0.10	0.050	1		02/17/22 16:30	16984-48-8	
Sulfate	<b>224</b>	mg/L	5.0	2.5	5		02/18/22 04:09	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: HGWC-13		Lab ID: 92587319019		Collected: 02/10/22 14:55		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:08		
pH	<b>7.54</b>	Std. Units			1		02/11/22 16:08		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>206</b>	mg/L	1.0	0.12	1	02/25/22 07:39	02/28/22 21:37	7440-70-2	
<b>6020 MET ICPMS</b>									
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 19:20	7440-36-0	
Arsenic	<b>0.38</b>	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:20	7440-38-2	
Barium	<b>0.053</b>	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 19:20	7440-41-7	
Boron	<b>1.0</b>	mg/L	0.040	0.0086	1	02/25/22 07:37	02/28/22 19:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 19:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:20	7440-47-3	
Cobalt	<b>0.0026J</b>	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 19:20	7439-92-1	
Lithium	<b>0.031</b>	mg/L	0.030	0.00073	1	02/25/22 07:37	02/28/22 19:53	7439-93-2	
Molybdenum	<b>0.033</b>	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 19:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 19:20	7440-28-0	
<b>7470 Mercury</b>									
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 11:58	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>814</b>	mg/L	10.0	10.0	1		02/16/22 14:18		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>17.4</b>	mg/L	1.0	0.60	1		02/17/22 16:44	16887-00-6	
Fluoride	<b>0.53</b>	mg/L	0.10	0.050	1		02/17/22 16:44	16984-48-8	
Sulfate	<b>371</b>	mg/L	9.0	4.5	9		02/18/22 04:22	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: MW-20		Lab ID: 92587319020		Collected: 02/10/22 11:33		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:08		
pH	<b>7.19</b>	Std. Units			1		02/11/22 16:08		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>123</b>	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 18:04	7440-70-2	
<b>6020 MET ICPMS</b>									
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 19:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:25	7440-38-2	
Barium	<b>0.082</b>	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 19:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 19:25	7440-41-7	
Boron	<b>0.13</b>	mg/L	0.040	0.0086	1	02/25/22 07:37	02/28/22 19:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 19:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 19:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 19:25	7439-92-1	
Lithium	<b>0.00099J</b>	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 19:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 19:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 19:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 19:25	7440-28-0	
<b>7470 Mercury</b>									
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 12:00	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>459</b>	mg/L	10.0	10.0	1		02/16/22 14:18		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>31.4</b>	mg/L	1.0	0.60	1		02/17/22 16:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 16:58	16984-48-8	
Sulfate	<b>95.9</b>	mg/L	2.0	1.0	2		02/18/22 04:37	14808-79-8	M1

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: MW-24D		Lab ID: 92587319021		Collected: 02/10/22 13:32		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:08		
pH	<b>7.82</b>	Std. Units			1		02/11/22 16:08		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>110</b>	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 18:08	7440-70-2	
<b>6020 MET ICPMS</b>									
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 19:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:31	7440-38-2	
Barium	<b>0.048</b>	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 19:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 19:31	7440-41-7	
Boron	<b>0.55</b>	mg/L	0.20	0.043	5	02/25/22 07:37	02/28/22 20:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 19:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 19:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 19:31	7439-92-1	
Lithium	<b>0.0029J</b>	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 19:31	7439-93-2	
Molybdenum	<b>0.00080J</b>	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 19:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 19:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 19:31	7440-28-0	
<b>7470 Mercury</b>									
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 12:08	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>412</b>	mg/L	10.0	10.0	1		02/16/22 14:18		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>38.2</b>	mg/L	1.0	0.60	1		02/17/22 17:40	16887-00-6	
Fluoride	<b>0.051J</b>	mg/L	0.10	0.050	1		02/17/22 17:40	16984-48-8	
Sulfate	<b>127</b>	mg/L	3.0	1.5	3		02/18/22 05:21	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: MW-27D		Lab ID: 92587319022		Collected: 02/10/22 15:40		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:08		
pH	<b>7.96</b>	Std. Units			1		02/11/22 16:08		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>31.4</b>	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 18:13	7440-70-2	
<b>6020 MET ICPMS</b>									
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 19:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:49	7440-38-2	
Barium	<b>0.99</b>	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 19:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 19:49	7440-41-7	
Boron	<b>0.13</b>	mg/L	0.040	0.0086	1	02/25/22 07:37	02/28/22 20:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 19:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 19:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 19:49	7439-92-1	
Lithium	<b>0.0086J</b>	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 19:49	7439-93-2	
Molybdenum	<b>0.0017J</b>	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 19:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 19:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 19:49	7440-28-0	
<b>7470 Mercury</b>									
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 12:11	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>242</b>	mg/L	10.0	10.0	1		02/16/22 14:19		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>31.4</b>	mg/L	1.0	0.60	1		02/17/22 17:54	16887-00-6	
Fluoride	<b>0.25</b>	mg/L	0.10	0.050	1		02/17/22 17:54	16984-48-8	
Sulfate	<b>13.2</b>	mg/L	1.0	0.50	1		02/17/22 17:54	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: MW-28D		Lab ID: 92587319023		Collected: 02/10/22 14:29		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:08		
pH	<b>7.59</b>	Std. Units			1		02/11/22 16:08		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>58.5</b>	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 18:18	7440-70-2	
<b>6020 MET ICPMS</b>									
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 19:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:55	7440-38-2	
Barium	<b>0.76</b>	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 19:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 19:55	7440-41-7	
Boron	<b>0.23</b>	mg/L	0.040	0.0086	1	02/25/22 07:37	03/01/22 16:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 19:55	7440-43-9	
Chromium	<b>0.0011J</b>	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 19:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 19:55	7439-92-1	
Lithium	<b>0.014J</b>	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 19:55	7439-93-2	
Molybdenum	<b>0.0031J</b>	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 19:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 19:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 19:55	7440-28-0	
<b>7470 Mercury</b>									
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 12:13	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>299</b>	mg/L	10.0	10.0	1		02/17/22 16:05		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>29.0</b>	mg/L	1.0	0.60	1		02/17/22 18:08	16887-00-6	
Fluoride	<b>0.22</b>	mg/L	0.10	0.050	1		02/17/22 18:08	16984-48-8	
Sulfate	<b>32.5</b>	mg/L	1.0	0.50	1		02/17/22 18:08	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: MW-29		Lab ID: 92587319024		Collected: 02/10/22 09:44		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		02/11/22 16:09		
pH	<b>7.27</b>	Std. Units			1		02/11/22 16:09		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>156</b>	mg/L	5.0	0.61	5	02/25/22 07:39	02/25/22 18:28	7440-70-2	
<b>6020 MET ICPMS</b>									
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 20:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 20:01	7440-38-2	
Barium	<b>0.072</b>	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 20:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 20:01	7440-41-7	
Boron	<b>1.4</b>	mg/L	0.20	0.043	5	02/25/22 07:37	02/28/22 20:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 20:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 20:01	7440-47-3	
Cobalt	<b>0.00089J</b>	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 20:01	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	02/25/22 07:37	02/28/22 20:17	7439-92-1	D3
Lithium	<b>0.0023J</b>	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 20:01	7439-93-2	
Molybdenum	<b>0.0036J</b>	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 20:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 20:01	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	02/25/22 07:37	02/28/22 20:17	7440-28-0	D3
<b>7470 Mercury</b>									
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 12:16	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>508</b>	mg/L	20.0	20.0	1		02/17/22 16:05		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>66.0</b>	mg/L	1.0	0.60	1		02/17/22 18:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 18:50	16984-48-8	
Sulfate	<b>141</b>	mg/L	3.0	1.5	3		02/18/22 06:04	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: EB-1		Lab ID: 92587319025		Collected: 02/10/22 15:59	Received: 02/11/22 11:35	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		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 07:39	02/25/22 18:33	7440-70-2		
<b>6020 MET ICPMS</b>		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 20:13	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 20:13	7440-38-2		
Barium	<b>0.0026J</b>	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 20:13	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 20:13	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	02/25/22 07:37	02/25/22 20:13	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 20:13	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 20:13	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 20:13	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 20:13	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 20:13	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 20:13	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 20:13	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 20:13	7440-28-0		
<b>7470 Mercury</b>		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 12:19	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:05			
<b>300.0 IC Anions 28 Days</b>		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 19:04	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 19:04	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/17/22 19:04	14808-79-8		

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Sample: <b>FB-1</b>		Lab ID: <b>92587319026</b>		Collected: 02/10/22 15:50	Received: 02/11/22 11:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>6010D ATL ICP</b>		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 07:39	02/25/22 18:48	7440-70-2		
<b>6020 MET ICPMS</b>		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 20:19	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 20:19	7440-38-2		
Barium	<b>0.0027J</b>	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 20:19	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 20:19	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	02/25/22 07:37	02/25/22 20:19	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 20:19	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 20:19	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 20:19	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 20:19	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 20:19	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 20:19	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 20:19	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 20:19	7440-28-0		
<b>7470 Mercury</b>		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/28/22 10:30	02/28/22 14:05	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:06			
<b>300.0 IC Anions 28 Days</b>		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 19:18	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 19:18	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/17/22 19:18	14808-79-8		

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1  
Pace Project No.: 92587319

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: 92587319002, 92587319003, 92587319004, 92587319005, 92587319006

METHOD BLANK: 3552812 Matrix: Water  
Associated Lab Samples: 92587319002, 92587319003, 92587319004, 92587319005, 92587319006

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
		92586342002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	51.3	1	1	53.1	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-1

Pace Project No.: 92587319

QC Batch:	680603	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples:	92587319001, 92587319007, 92587319008, 92587319009, 92587319010, 92587319011, 92587319012, 92587319013, 92587319014, 92587319015, 92587319016		

METHOD BLANK:	3560577	Matrix:	Water
Associated Lab Samples:	92587319001, 92587319007, 92587319008, 92587319009, 92587319010, 92587319011, 92587319012, 92587319013, 92587319014, 92587319015, 92587319016		

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	0.25J	1.0	0.12	02/25/22 00:50	

LABORATORY CONTROL SAMPLE: 3560578

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560579 3560580

Parameter	Units	92587319001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	73.3	1	1	76.6	76.5	326	322	75-125	0	20	M1

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1  
Pace Project No.: 92587319

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: 92587319017, 92587319018, 92587319019, 92587319020, 92587319021, 92587319022, 92587319023, 92587319024, 92587319025, 92587319026

METHOD BLANK: 3561423 Matrix: Water  
Associated Lab Samples: 92587319017, 92587319018, 92587319019, 92587319020, 92587319021, 92587319022, 92587319023, 92587319024, 92587319025, 92587319026

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-1  
Pace Project No.: 92587319

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: 92587319002, 92587319003, 92587319004, 92587319005, 92587319006

METHOD BLANK: 3552808 Matrix: Water  
Associated Lab Samples: 92587319002, 92587319003, 92587319004, 92587319005, 92587319006

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-1

Pace Project No.: 92587319

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-1  
Pace Project No.: 92587319

QC Batch: 680607 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92587319001, 92587319007, 92587319008, 92587319009, 92587319010, 92587319011, 92587319012, 92587319013, 92587319014, 92587319015, 92587319016, 92587319017, 92587319018

METHOD BLANK: 3560596 Matrix: Water  
Associated Lab Samples: 92587319001, 92587319007, 92587319008, 92587319009, 92587319010, 92587319011, 92587319012, 92587319013, 92587319014, 92587319015, 92587319016, 92587319017, 92587319018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/24/22 17:42	
Arsenic	mg/L	0.0021J	0.0050	0.0011	02/24/22 17:42	
Barium	mg/L	ND	0.0050	0.00067	02/24/22 17:42	
Beryllium	mg/L	ND	0.00050	0.000054	02/24/22 17:42	
Boron	mg/L	ND	0.040	0.0086	02/24/22 17:42	
Cadmium	mg/L	ND	0.00050	0.00011	02/24/22 17:42	
Chromium	mg/L	ND	0.0050	0.0011	02/24/22 17:42	
Cobalt	mg/L	ND	0.0050	0.00039	02/24/22 17:42	
Lead	mg/L	ND	0.0010	0.00089	02/24/22 17:42	
Lithium	mg/L	ND	0.030	0.00073	02/24/22 17:42	
Molybdenum	mg/L	ND	0.010	0.00074	02/24/22 17:42	
Selenium	mg/L	ND	0.0050	0.0014	02/24/22 17:42	
Thallium	mg/L	ND	0.0010	0.00018	02/24/22 17:42	

LABORATORY CONTROL SAMPLE: 3560597

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560598 3560599

Parameter	Units	92587319001 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	0.10	0.10	101	105	75-125	3	20	

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**QUALITY CONTROL DATA**

Project: HAMMOND AP-1

Pace Project No.: 92587319

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560598 3560599												
Parameter	Units	92587319001		MS		MSD		MS		MSD		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	MSD % Rec	% Rec	MSD % Rec		
Arsenic	mg/L	ND	0.1	0.1	0.098	0.10	98	102	75-125	4	20	
Barium	mg/L	0.053	0.1	0.1	0.16	0.16	103	110	75-125	5	20	
Beryllium	mg/L	ND	0.1	0.1	0.097	0.10	97	102	75-125	5	20	
Boron	mg/L	0.19	1	1	1.2	1.2	100	105	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.10	97	102	75-125	5	20	
Chromium	mg/L	0.0016J	0.1	0.1	0.10	0.11	100	104	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.094	0.098	94	98	75-125	4	20	
Molybdenum	mg/L	0.0012J	0.1	0.1	0.095	0.10	94	100	75-125	6	20	
Selenium	mg/L	0.0015J	0.1	0.1	0.098	0.099	97	98	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1  
Pace Project No.: 92587319

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: 92587319019, 92587319020, 92587319021, 92587319022, 92587319023, 92587319024, 92587319025, 92587319026

METHOD BLANK: 3561407 Matrix: Water  
Associated Lab Samples: 92587319019, 92587319020, 92587319021, 92587319022, 92587319023, 92587319024, 92587319025, 92587319026

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 Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Spike Conc.	Result	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-1

Pace Project No.: 92587319

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-1

Pace Project No.: 92587319

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: 92587319002, 92587319003

METHOD BLANK: 3548852

Matrix: Water

Associated Lab Samples: 92587319002, 92587319003

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	3548854		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	0.0024	0.0024	96	95	75-125	1	20	

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1  
Pace Project No.: 92587319

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: 92587319004, 92587319005, 92587319006

METHOD BLANK: 3550157 Matrix: Water  
Associated Lab Samples: 92587319004, 92587319005, 92587319006

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	92586342010		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0023	85	92	75-125	8	20		

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**QUALITY CONTROL DATA**

Project: HAMMOND AP-1  
Pace Project No.: 92587319

QC Batch: 680659 Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92587319001, 92587319007, 92587319008, 92587319009, 92587319010, 92587319011, 92587319012, 92587319013, 92587319014, 92587319015, 92587319016, 92587319017, 92587319018, 92587319019, 92587319020, 92587319021, 92587319022, 92587319023, 92587319024, 92587319025

METHOD BLANK: 3560812 Matrix: Water  
Associated Lab Samples: 92587319001, 92587319007, 92587319008, 92587319009, 92587319010, 92587319011, 92587319012, 92587319013, 92587319014, 92587319015, 92587319016, 92587319017, 92587319018, 92587319019, 92587319020, 92587319021, 92587319022, 92587319023, 92587319024, 92587319025

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/25/22 11:04	

LABORATORY CONTROL SAMPLE: 3560813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560814 3560815

Parameter	Units	92587319001 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	0.0024	0.0022	94	88	75-125	7	20	

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1  
Pace Project No.: 92587319

QC Batch: 681261	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587319026

METHOD BLANK: 3564035 Matrix: Water  
Associated Lab Samples: 92587319026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/22 14:00	

LABORATORY CONTROL SAMPLE: 3564036

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3564037 3564038

Parameter	Units	3564037		3564038		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	92588620001 ND	0.0025	0.0025	0.0025	97	97	75-125	0	20	

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**QUALITY CONTROL DATA**

Project: HAMMOND AP-1  
Pace Project No.: 92587319

QC Batch: 677215 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: 92587319002, 92587319003, 92587319004, 92587319005, 92587319006

METHOD BLANK: 3544557 Matrix: Water  
Associated Lab Samples: 92587319002, 92587319003, 92587319004, 92587319005, 92587319006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/07/22 16:40	

LABORATORY CONTROL SAMPLE: 3544558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	375	94	80-120	

SAMPLE DUPLICATE: 3544559

Parameter	Units	92587319003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	156	171	9	25	H3

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1  
Pace Project No.: 92587319

QC Batch: 678369	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: 92587319001

METHOD BLANK: 3550014 Matrix: Water  
Associated Lab Samples: 92587319001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/15/22 16:02	

LABORATORY CONTROL SAMPLE: 3550015

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3550016

Parameter	Units	92587091003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	151	152	1	25	

SAMPLE DUPLICATE: 3550017

Parameter	Units	92587322007 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1160	1080	7	25	

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1  
Pace Project No.: 92587319

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: 92587319007, 92587319008, 92587319009, 92587319010, 92587319011, 92587319012, 92587319013, 92587319014, 92587319015, 92587319016

METHOD BLANK: 3551645 Matrix: Water  
Associated Lab Samples: 92587319007, 92587319008, 92587319009, 92587319010, 92587319011, 92587319012, 92587319013, 92587319014, 92587319015, 92587319016

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-1  
Pace Project No.: 92587319

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: 92587319017, 92587319018, 92587319019, 92587319020, 92587319021, 92587319022

METHOD BLANK: 3551650 Matrix: Water  
Associated Lab Samples: 92587319017, 92587319018, 92587319019, 92587319020, 92587319021, 92587319022

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-1  
Pace Project No.: 92587319

QC Batch: 679091      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: 92587319023, 92587319024, 92587319025, 92587319026

METHOD BLANK: 3553375      Matrix: Water  
Associated Lab Samples: 92587319023, 92587319024, 92587319025, 92587319026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/17/22 16:05	

LABORATORY CONTROL SAMPLE: 3553376

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	374	94	80-120	

SAMPLE DUPLICATE: 3553377

Parameter	Units	92587319023 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	299	300	0	25	

SAMPLE DUPLICATE: 3553378

Parameter	Units	92587089012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	190	186	2	25	

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1  
Pace Project No.: 92587319

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: 92587319002, 92587319003, 92587319004, 92587319005, 92587319006

METHOD BLANK: 3541395 Matrix: Water  
Associated Lab Samples: 92587319002, 92587319003, 92587319004, 92587319005, 92587319006

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-1  
Pace Project No.: 92587319

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: 92587319001

METHOD BLANK: 3549772 Matrix: Water  
Associated Lab Samples: 92587319001

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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92586613018	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	0.70J	50	50	51.9	51.3	102	101	90-110	1	10		
Fluoride	mg/L	0.082J	2.5	2.5	2.7	2.6	104	103	90-110	1	10		
Sulfate	mg/L	13.0	50	50	64.4	63.7	103	102	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549776 3549777

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92587322007	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	117	50	50	163	162	92	90	90-110	1	10		
Fluoride	mg/L	0.055J	2.5	2.5	2.7	2.7	106	104	90-110	1	10		
Sulfate	mg/L	364	50	50	407	406	87	84	90-110	0	10 M1		

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1  
Pace Project No.: 92587319

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: 92587319007, 92587319008, 92587319009, 92587319010, 92587319011, 92587319012, 92587319013, 92587319014, 92587319015, 92587319016

METHOD BLANK: 3552686 Matrix: Water  
Associated Lab Samples: 92587319007, 92587319008, 92587319009, 92587319010, 92587319011, 92587319012, 92587319013, 92587319014, 92587319015, 92587319016

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	92586225004		3552689		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
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	92587319007		3552691		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
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

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1  
Pace Project No.: 92587319

QC Batch: 678978 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: 92587319017, 92587319018, 92587319019, 92587319020, 92587319021, 92587319022, 92587319023, 92587319024, 92587319025, 92587319026

METHOD BLANK: 3552932 Matrix: Water  
Associated Lab Samples: 92587319017, 92587319018, 92587319019, 92587319020, 92587319021, 92587319022, 92587319023, 92587319024, 92587319025, 92587319026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/17/22 13:15	
Fluoride	mg/L	ND	0.10	0.050	02/17/22 13:15	
Sulfate	mg/L	ND	1.0	0.50	02/17/22 13:15	

LABORATORY CONTROL SAMPLE: 3552933

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552934 3552935

Parameter	Units	92586338001		3552935		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	10	50	63.3	64.5	107	109	90-110	2	10	
Fluoride	mg/L	0.054J	2.5	2.7	2.7	104	107	90-110	3	10	
Sulfate	mg/L	ND	50	53.5	54.6	106	108	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552936 3552937

Parameter	Units	92587319020		3552937		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	31.4	50	84.4	85.8	106	109	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.7	2.7	105	108	90-110	3	10	
Sulfate	mg/L	95.9	50	140	142	88	91	90-110	1	10 M1	

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## QUALIFIERS

Project: HAMMOND AP-1  
Pace Project No.: 92587319

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### 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

B Analyte was detected in the associated method blank.

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.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587319001	MW-7				
92587319002	HGWA-44D				
92587319003	HGWA-2				
92587319004	HGWA-3				
92587319005	HGWA-1				
92587319006	HGWA-43D				
92587319007	HGWC-9				
92587319008	HGWC-10				
92587319009	HGWC-11				
92587319010	HGWC-12				
92587319011	MW-5				
92587319012	MW-6				
92587319013	MW-19				
92587319014	MW-25D				
92587319015	MW-26D				
92587319017	HGWC-7				
92587319018	HGWC-8				
92587319019	HGWC-13				
92587319020	MW-20				
92587319021	MW-24D				
92587319022	MW-27D				
92587319023	MW-28D				
92587319024	MW-29				
92587319001	MW-7	EPA 3010A	680603	EPA 6010D	680696
92587319002	HGWA-44D	EPA 3010A	678931	EPA 6010D	679039
92587319003	HGWA-2	EPA 3010A	678931	EPA 6010D	679039
92587319004	HGWA-3	EPA 3010A	678931	EPA 6010D	679039
92587319005	HGWA-1	EPA 3010A	678931	EPA 6010D	679039
92587319006	HGWA-43D	EPA 3010A	678931	EPA 6010D	679039
92587319007	HGWC-9	EPA 3010A	680603	EPA 6010D	680696
92587319008	HGWC-10	EPA 3010A	680603	EPA 6010D	680696
92587319009	HGWC-11	EPA 3010A	680603	EPA 6010D	680696
92587319010	HGWC-12	EPA 3010A	680603	EPA 6010D	680696
92587319011	MW-5	EPA 3010A	680603	EPA 6010D	680696
92587319012	MW-6	EPA 3010A	680603	EPA 6010D	680696
92587319013	MW-19	EPA 3010A	680603	EPA 6010D	680696
92587319014	MW-25D	EPA 3010A	680603	EPA 6010D	680696
92587319015	MW-26D	EPA 3010A	680603	EPA 6010D	680696
92587319016	DUP-1	EPA 3010A	680603	EPA 6010D	680696
92587319017	HGWC-7	EPA 3010A	680760	EPA 6010D	680944
92587319018	HGWC-8	EPA 3010A	680760	EPA 6010D	680944
92587319019	HGWC-13	EPA 3010A	680760	EPA 6010D	680944
92587319020	MW-20	EPA 3010A	680760	EPA 6010D	680944
92587319021	MW-24D	EPA 3010A	680760	EPA 6010D	680944
92587319022	MW-27D	EPA 3010A	680760	EPA 6010D	680944
92587319023	MW-28D	EPA 3010A	680760	EPA 6010D	680944
92587319024	MW-29	EPA 3010A	680760	EPA 6010D	680944

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587319025	EB-1	EPA 3010A	680760	EPA 6010D	680944
92587319026	FB-1	EPA 3010A	680760	EPA 6010D	680944
92587319001	MW-7	EPA 3005A	680607	EPA 6020B	680745
92587319002	HGWA-44D	EPA 3005A	678928	EPA 6020B	679033
92587319003	HGWA-2	EPA 3005A	678928	EPA 6020B	679033
92587319004	HGWA-3	EPA 3005A	678928	EPA 6020B	679033
92587319005	HGWA-1	EPA 3005A	678928	EPA 6020B	679033
92587319006	HGWA-43D	EPA 3005A	678928	EPA 6020B	679033
92587319007	HGWC-9	EPA 3005A	680607	EPA 6020B	680745
92587319008	HGWC-10	EPA 3005A	680607	EPA 6020B	680745
92587319009	HGWC-11	EPA 3005A	680607	EPA 6020B	680745
92587319010	HGWC-12	EPA 3005A	680607	EPA 6020B	680745
92587319011	MW-5	EPA 3005A	680607	EPA 6020B	680745
92587319012	MW-6	EPA 3005A	680607	EPA 6020B	680745
92587319013	MW-19	EPA 3005A	680607	EPA 6020B	680745
92587319014	MW-25D	EPA 3005A	680607	EPA 6020B	680745
92587319015	MW-26D	EPA 3005A	680607	EPA 6020B	680745
92587319016	DUP-1	EPA 3005A	680607	EPA 6020B	680745
92587319017	HGWC-7	EPA 3005A	680607	EPA 6020B	680745
92587319018	HGWC-8	EPA 3005A	680607	EPA 6020B	680745
92587319019	HGWC-13	EPA 3005A	680757	EPA 6020B	680941
92587319020	MW-20	EPA 3005A	680757	EPA 6020B	680941
92587319021	MW-24D	EPA 3005A	680757	EPA 6020B	680941
92587319022	MW-27D	EPA 3005A	680757	EPA 6020B	680941
92587319023	MW-28D	EPA 3005A	680757	EPA 6020B	680941
92587319024	MW-29	EPA 3005A	680757	EPA 6020B	680941
92587319025	EB-1	EPA 3005A	680757	EPA 6020B	680941
92587319026	FB-1	EPA 3005A	680757	EPA 6020B	680941
92587319001	MW-7	EPA 7470A	680659	EPA 7470A	680885
92587319002	HGWA-44D	EPA 7470A	678094	EPA 7470A	678301
92587319003	HGWA-2	EPA 7470A	678094	EPA 7470A	678301
92587319004	HGWA-3	EPA 7470A	678396	EPA 7470A	678613
92587319005	HGWA-1	EPA 7470A	678396	EPA 7470A	678613
92587319006	HGWA-43D	EPA 7470A	678396	EPA 7470A	678613
92587319007	HGWC-9	EPA 7470A	680659	EPA 7470A	680885
92587319008	HGWC-10	EPA 7470A	680659	EPA 7470A	680885
92587319009	HGWC-11	EPA 7470A	680659	EPA 7470A	680885
92587319010	HGWC-12	EPA 7470A	680659	EPA 7470A	680885
92587319011	MW-5	EPA 7470A	680659	EPA 7470A	680885
92587319012	MW-6	EPA 7470A	680659	EPA 7470A	680885
92587319013	MW-19	EPA 7470A	680659	EPA 7470A	680885
92587319014	MW-25D	EPA 7470A	680659	EPA 7470A	680885
92587319015	MW-26D	EPA 7470A	680659	EPA 7470A	680885
92587319016	DUP-1	EPA 7470A	680659	EPA 7470A	680885
92587319017	HGWC-7	EPA 7470A	680659	EPA 7470A	680885

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-1  
Pace Project No.: 92587319

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587319018	HGWC-8	EPA 7470A	680659	EPA 7470A	680885
92587319019	HGWC-13	EPA 7470A	680659	EPA 7470A	680885
92587319020	MW-20	EPA 7470A	680659	EPA 7470A	680885
92587319021	MW-24D	EPA 7470A	680659	EPA 7470A	680885
92587319022	MW-27D	EPA 7470A	680659	EPA 7470A	680885
92587319023	MW-28D	EPA 7470A	680659	EPA 7470A	680885
92587319024	MW-29	EPA 7470A	680659	EPA 7470A	680885
92587319025	EB-1	EPA 7470A	680659	EPA 7470A	680885
92587319026	FB-1	EPA 7470A	681261	EPA 7470A	681332
92587319001	MW-7	SM 2540C-2015	678369		
92587319002	HGWA-44D	SM 2540C-2015	677215		
92587319003	HGWA-2	SM 2540C-2015	677215		
92587319004	HGWA-3	SM 2540C-2015	677215		
92587319005	HGWA-1	SM 2540C-2015	677215		
92587319006	HGWA-43D	SM 2540C-2015	677215		
92587319007	HGWC-9	SM 2540C-2015	678705		
92587319008	HGWC-10	SM 2540C-2015	678705		
92587319009	HGWC-11	SM 2540C-2015	678705		
92587319010	HGWC-12	SM 2540C-2015	678705		
92587319011	MW-5	SM 2540C-2015	678705		
92587319012	MW-6	SM 2540C-2015	678705		
92587319013	MW-19	SM 2540C-2015	678705		
92587319014	MW-25D	SM 2540C-2015	678705		
92587319015	MW-26D	SM 2540C-2015	678705		
92587319016	DUP-1	SM 2540C-2015	678705		
92587319017	HGWC-7	SM 2540C-2015	678707		
92587319018	HGWC-8	SM 2540C-2015	678707		
92587319019	HGWC-13	SM 2540C-2015	678707		
92587319020	MW-20	SM 2540C-2015	678707		
92587319021	MW-24D	SM 2540C-2015	678707		
92587319022	MW-27D	SM 2540C-2015	678707		
92587319023	MW-28D	SM 2540C-2015	679091		
92587319024	MW-29	SM 2540C-2015	679091		
92587319025	EB-1	SM 2540C-2015	679091		
92587319026	FB-1	SM 2540C-2015	679091		
92587319001	MW-7	EPA 300.0 Rev 2.1 1993	678309		
92587319002	HGWA-44D	EPA 300.0 Rev 2.1 1993	676561		
92587319003	HGWA-2	EPA 300.0 Rev 2.1 1993	676561		
92587319004	HGWA-3	EPA 300.0 Rev 2.1 1993	676561		
92587319005	HGWA-1	EPA 300.0 Rev 2.1 1993	676561		
92587319006	HGWA-43D	EPA 300.0 Rev 2.1 1993	676561		
92587319007	HGWC-9	EPA 300.0 Rev 2.1 1993	678880		
92587319008	HGWC-10	EPA 300.0 Rev 2.1 1993	678880		
92587319009	HGWC-11	EPA 300.0 Rev 2.1 1993	678880		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE


Project: HAMMOND AP-1  
Pace Project No.: 92587319

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587319010	HGWC-12	EPA 300.0 Rev 2.1 1993	678880		
92587319011	MW-5	EPA 300.0 Rev 2.1 1993	678880		
92587319012	MW-6	EPA 300.0 Rev 2.1 1993	678880		
92587319013	MW-19	EPA 300.0 Rev 2.1 1993	678880		
92587319014	MW-25D	EPA 300.0 Rev 2.1 1993	678880		
92587319015	MW-26D	EPA 300.0 Rev 2.1 1993	678880		
92587319016	DUP-1	EPA 300.0 Rev 2.1 1993	678880		
92587319017	HGWC-7	EPA 300.0 Rev 2.1 1993	678978		
92587319018	HGWC-8	EPA 300.0 Rev 2.1 1993	678978		
92587319019	HGWC-13	EPA 300.0 Rev 2.1 1993	678978		
92587319020	MW-20	EPA 300.0 Rev 2.1 1993	678978		
92587319021	MW-24D	EPA 300.0 Rev 2.1 1993	678978		
92587319022	MW-27D	EPA 300.0 Rev 2.1 1993	678978		
92587319023	MW-28D	EPA 300.0 Rev 2.1 1993	678978		
92587319024	MW-29	EPA 300.0 Rev 2.1 1993	678978		
92587319025	EB-1	EPA 300.0 Rev 2.1 1993	678978		
92587319026	FB-1	EPA 300.0 Rev 2.1 1993	678978		

### 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:** GA Power Project #: **WO# : 92587319**

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: JRE 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: Add/Subtract (°C) +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	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 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	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: \_\_\_\_\_

29 1000



# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <small>CCR</small>
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.		
Address: Atlanta, GA		Copy To: Geosyntec Contacts		Company Name:		
Email To: SCS Contacts		Purchase Order No.:		Address:		
Phone:                      Fax:		Project Name: Hammond AP-1		Pace Quote Reference:		
Requested Due Date/TAT: 10 Day		Project Number:		Pace Project Manager: Nicole D'Oleo		<b>Site Location</b> STATE: GA
				Pace Profile #: 10839		

ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)	
		MATRIX	CODE	COMPOSITE				UNpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Test						
		DRINKING WATER	DW	DATE	TIME											Chloride, Fluoride, Sulfate	N	N	N	N		
		WASTE WATER	WW	PRODUCT	P											Full App. III and IV metals						N
1	MW-7	WT	G	2/8/2022	17:05	17	5	2	3					X	X	X	X	X				
2														X	X	X	X	X				
3														X	X	X	X	X				
4														X	X	X	X	X				
5														X	X	X	X	X				
6														X	X	X	X	X				
7														X	X	X	X	X				
8														X	X	X	X	X				
9														X	X	X	X	X				
10														X	X	X	X	X				
11														X	X	X	X	X				
12														X	X	X	X	X				

Pace Project No./ Lab I.D.  
pH = 6.73

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Connor Carr / Geosyntec	2/8/2022	15:00	Thomas Kessler / Geosyntec	2/8/2022	15:00	
	Thomas Kessler / Geosyntec	2/9/2022	07:15	Connor Carr / Geosyntec	2/9/2022	07:15	
	Connor Carr / Geosyntec	2/9/2022	12:40	Geosyntec PAC	2/9/2022	12:40	
	BRN/Cy - PACE	2/9/2022	15:00	Connor Carr / Geosyntec	2/9/2022	15:00	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Connor Carr				
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YY):		2/8/2022			

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



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 -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: \_\_\_\_\_

### 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**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: <b>GA Power</b>		Report To: <b>SCS Contacts</b>		Attention: <b>Southern Co.</b>	
Address: <b>Atlanta, GA</b>		Copy To: <b>Geosyntec Contacts</b>		Company Name:	
Email To: <b>SCS Contacts</b>		Purchase Order No.:		Address:	
Phone: <input type="text"/> Fax: <input type="text"/>		Project Name: <b>Plant Hammond Pooled Upgradient</b>		Pace Quota Reference: <b>Nicole D'Oleo</b>	
Requested Due Date/TAT: <b>10 Day</b>		Project Number:		Pace Project Manager: <b>Nicole D'Oleo</b>	
				Pace Profile #: <b>10839</b>	

**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER

UST  RCRA  OTHER CCR

Site Location: **GA**


STATE: **GA**

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.							
					COMPOSITE		COMPOSITE				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol					Other						
					DATE	TIME	DATE	TIME															Chloride, Fluoride, Sulfate	Full App. III and IV metals	RAD 229/228	TDS		
1									17	5	2	3																
2									17	5	2	3																pH = 8.25
3									16	5	2	3																pH = 5.24
4									17	5	2	3																pH = 7.45
5									17	5	2	3																pH = 7.19
6									17	5	2	3																pH = 7.52
7	TJ 2/1/2022																											
8	TJ 2/1/2022																											
9	TJ 2/1/2022																											
10	TJ 2/1/2022																											
11	TJ 2/1/2022																											
12	TJ 2/1/2022																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Thomas Vessler / Geosyntec	2/1/2022	1232	Ryan Williams / Pace	2/3/2022	1232	
	Ryan Williams / Pace	2/3/22	1511	Alana Hank	2/3/22	1511	

<b>SAMPLER NAME AND SIGNATURE</b>				
PRINT Name of SAMPLER: <i>Thomas Vessler - Anthony Severi Condon</i>				
SIGNATURE of SAMPLER: <i>[Signature]</i>				
DATE Signed (MM/DD/YY): <i>02/01/2022</i>				
Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

	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# : 92587319**

Courier:  Fed Ex  UPS  USPS  Client  
 Commercial  Pace  Other: \_\_\_\_\_

PM: NMG Due Date: 02/17/22  
 CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: MT 2/11/22

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: 4.2 Correction Factor: +0.2  
 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): 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.	
Dissoived 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:			
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 SCUR Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_





# 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**

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.	
Address: Atlanta, GA		Copy To: Geosyntec Contacts		Company Name:	
Email To: SCS Contacts		Purchase Order No.:		Address:	
Phone:		Project Name: Hammond AP-1		Face Quote Reference:	
Requested Due Date/TAT: 10 Day		Project Number:		Face Project Manager: Nicole D'Oleo	
				Face Profile #: 10839	
				<b>REGULATORY AGENCY</b>	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <small>CCR</small>	
				Site Location: <u>GA</u>	
				STATE: <u>GA</u>	

ITEM #	Section D Required Client Information	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
		MATRIX	CODE			COMPOSITE		Unpreserved	H <sub>2</sub> SO <sub>4</sub>			HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Y/N	N	N	N	N	N	N	N	N	N	N	N				
		DRINKING WATER	DW			DATE	TIME																							DATE	TIME		
1	HGWC-9			WT	G	2/9/2022	11:06			17	5	2	3								X	X	X	X					N	pH = 7.30			
2	HGWC-10			WT	G	2/9/2022	15:37			17	5	2	3								X	X	X	X					N	pH = 7.00			
3	HGWC-11			WT	G	2/9/2022	10:02			17	5	2	3								X	X	X	X					N	pH = 6.55			
4	HGWC-12			WT	G	2/9/2022	11:38			18	5	2	3								X	X	X	X					N	pH = 7.23			
5	MW-5			WT	G	2/9/2022	12:33			18	5	2	3								X	X	X	X					N	pH = 6.13			
6	MW-6			WT	G	2/9/2022	14:13			20	5	2	3								X	X	X	X					N	pH = 7.01			
7	MW-19			WT	G	2/9/2022	18:25			19	5	2	3								X	X	X	X					N	pH = 6.28			
8	MW-25D			WT	G	2/9/2022	14:00			19	5	2	3								X	X	X	X					N	pH = 7.82			
9	MW-26D			WT	G	2/9/2022	9:54			17	5	2	3								X	X	X	X					N	pH = 7.32			
10	DUP-1			WT	G	2/9/2022	0:00	TJ	2/9/2022	18	5	2	3								X	X	X	X					N	N/A			
11																																	
12								TJ	2/9/2022																								

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS		
		Anthony Seward / Geosyntec		2/9/2022	1700	Thomas Kessler / Geosyntec		2/9/2022	1700			
		Thomas Kessler / Geosyntec		2/10/2022	1135	Ryan Williams / Pace		2/11/2022	1135			
		Ryan Williams / Pace		2/11/2022	1417	M... ..		2/11	1417			

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Anthony Seward				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY): 2/9/2022			

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



# CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**

**Required Client Information:**  
 Company: 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: Geosyntec Contacts  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: Hammond AP-1  
 Project Number: \_\_\_\_\_

**Section C**

**Invoice Information:**  
 Attention: Southern Co.  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 Pace Quote Reference: \_\_\_\_\_  
 Pace Project Manager: Nicole D'Oleo  
 Pace Profile #: 10839

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER CCR  
**Site Location** STATE: GA

ITEM #	Section D Required Client Information  SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.								
		DRINKING WATER	WATER			WASTE WATER	PRODUCT	SOIL/SOLID	OIL			WIRE	AIR	OTHER	TISSUE	CODE	DATE	TIME	DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Methanol	Other			Analysis Test	Chloride, Fluoride, Sulfate	Full App. III and IV metals	RAD 226/228	TDS			
		OW	WT			WW	P	SL	OL			WP	AR	OT	TS	COMPOSITE	COMPOSITE	Y	N	Y	N	Y	N	Y	N	Y	N	Y			N	Y	N	Y	N	Y	N	Y
1	HGWC-7	WT	G	WT	G	2/10/2022	12:12			18	5	2	3													X	X	X	X								N	pH = 7.22
2	HGWC-8	WT	G	WT	G	2/10/2022	15:45			18	5	2	3													X	X	X	X								N	pH = 6.99
3	HGWC-13	WT	G	WT	G	2/10/2022	14:55			20	5	2	3													X	X	X	X								N	pH = 7.54
4	MW-20	WT	G	WT	G	2/10/2022	11:33			18	5	2	3													X	X	X	X								N	pH = 7.19
6	MW-24D	WT	G	WT	G	2/10/2022	13:32			20	5	2	3													X	X	X	X								N	pH = 7.82
6	MW-27D	WT	G	WT	G	2/10/2022	15:40			18	5	2	3													X	X	X	X								N	pH = 7.86
7	MW-28D	WT	G	WT	G	2/10/2022	14:29			18	5	2	3													X	X	X	X								N	pH = 7.59
8	MW-29	WT	G	WT	G	2/10/2022	9:44			16	5	2	3													X	X	X	X								N	pH = 7.27
8	EB-1	WT	G	WT	G	2/10/2022	15:58			19	5	2	3													X	X	X	X								N	N/A
10	FB-1	WT	G	WT	G	2/10/2022	15:50	TJ	2/10/2022	18	5	2	3													X	X	X	X								N	N/A
11																																						Last sample
12								TJ	2/10/2022																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Thomas Messler / Pace	2/10/2022	11:35	Kyan Williams / Pace	2/11/2022	14:17	
	Kyan Williams / Pace	2/11/2022	14:17		2/11/2022	14:17	

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Thomas Messler, Jeffrey Seward Connor  
 SIGNATURE of SAMPLER: *[Signature]* DATE Signed: 2/10/2022  
 Temp in °C: \_\_\_\_\_ Received on Ice (Y/N): \_\_\_\_\_ Custody Sealed Cooler (Y/N): \_\_\_\_\_ Samples Intact (Y/N): \_\_\_\_\_

March 29, 2022

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

RE: Project: HAMMOND AP-1 RAD  
Pace Project No.: 92587294

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,



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-1 RAD  
Pace Project No.: 92587294

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### **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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92587294001	MW-7	Water	02/08/22 17:05	02/09/22 12:40
92587294002	HGWA-44D	Water	02/01/22 11:52	02/09/22 12:40
92587294003	HGWA-2	Water	02/01/22 11:52	02/09/22 12:40
92587294004	HGWA-3	Water	02/01/22 09:58	02/09/22 12:40
92587294005	HGWA-1	Water	02/01/22 12:13	02/09/22 12:40
92587294006	HGWA-43D	Water	02/01/22 10:28	02/09/22 12:40
92587294007	HGWC-9	Water	02/09/22 11:06	02/11/22 11:35
92587294008	HGWC-10	Water	02/09/22 15:37	02/11/22 11:35
92587294009	HGWC-11	Water	02/09/22 10:02	02/11/22 11:35
92587294010	HGWC-12	Water	02/09/22 11:38	02/11/22 11:35
92587294011	MW-5	Water	02/09/22 12:33	02/11/22 11:35
92587294012	MW-6	Water	02/09/22 14:13	02/11/22 11:35
92587294013	MW-19	Water	02/09/22 16:25	02/11/22 11:35
92587294014	MW-25D	Water	02/09/22 14:00	02/11/22 11:35
92587294015	MW-26D	Water	02/09/22 09:54	02/11/22 11:35
92587294016	DUP-1	Water	02/09/22 00:00	02/11/22 11:35
92587294017	HGWC-7	Water	02/10/22 12:12	02/11/22 11:35
92587294018	HGWC-8	Water	02/10/22 15:45	02/11/22 11:35
92587294019	HGWC-13	Water	02/10/22 14:55	02/11/22 11:35
92587294020	MW-20	Water	02/10/22 11:33	02/11/22 11:35
92587294021	MW-24D	Water	02/10/22 13:32	02/11/22 11:35
92587294022	MW-27D	Water	02/10/22 15:40	02/11/22 11:35
92587294023	MW-28D	Water	02/10/22 14:29	02/11/22 11:35
92587294024	MW-29	Water	02/10/22 09:44	02/11/22 11:35
92587294025	EB-1	Water	02/10/22 15:59	02/11/22 11:35
92587294026	FB-1	Water	02/10/22 15:50	02/11/22 11:35

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92587294

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587294001	MW-7	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587294002	HGWA-44D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587294003	HGWA-2	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587294004	HGWA-3	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587294005	HGWA-1	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587294006	HGWA-43D	EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587294007	HGWC-9	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587294008	HGWC-10	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587294009	HGWC-11	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587294010	HGWC-12	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587294011	MW-5	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587294012	MW-6	EPA 9315	JC2	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92587294013	MW-19	EPA 9315	JC2	1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92587294

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587294014	MW-25D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587294015	MW-26D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587294016	DUP-1	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587294017	HGWC-7	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587294018	HGWC-8	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587294019	HGWC-13	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587294020	MW-20	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587294021	MW-24D	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587294022	MW-27D	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587294023	MW-28D	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587294024	MW-29	EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
92587294025	EB-1	EPA 9320	JSM	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92587294

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587294026	FB-1	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	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 AP-1 RAD  
Pace Project No.: 92587294

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92587294001</b>	<b>MW-7</b>					
EPA 9315	Radium-226	0.158 ± 0.120 (0.196) C:95% T:NA	pCi/L		03/17/22 09:25	
EPA 9320	Radium-228	0.259 ± 0.338 (0.720) C:78% T:89%	pCi/L		03/14/22 13:18	
Total Radium Calculation	Total Radium	0.417 ± 0.458 (0.916)	pCi/L		03/21/22 17:12	
<b>92587294002</b>	<b>HGWA-44D</b>					
EPA 9315	Radium-226	0.184 ± 0.126 (0.198) C:70% T:NA	pCi/L		03/08/22 09:08	
EPA 9320	Radium-228	0.481 ± 0.406 (0.807) C:76% T:78%	pCi/L		02/23/22 14:46	
Total Radium Calculation	Total Radium	0.665 ± 0.532 (1.01)	pCi/L		03/10/22 17:17	
<b>92587294003</b>	<b>HGWA-2</b>					
EPA 9315	Radium-226	0.328 ± 0.142 (0.152) C:84% T:NA	pCi/L		03/09/22 09:31	
EPA 9320	Radium-228	0.260 ± 0.363 (0.775) C:72% T:85%	pCi/L		02/23/22 14:47	
Total Radium Calculation	Total Radium	0.588 ± 0.505 (0.927)	pCi/L		03/10/22 17:17	
<b>92587294004</b>	<b>HGWA-3</b>					
EPA 9315	Radium-226	0.144 ± 0.104 (0.175) C:93% T:NA	pCi/L		03/09/22 09:28	
EPA 9320	Radium-228	0.122 ± 0.302 (0.675) C:81% T:91%	pCi/L		02/23/22 14:47	
Total Radium Calculation	Total Radium	0.266 ± 0.406 (0.850)	pCi/L		03/10/22 17:17	

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92587294

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92587294005</b>	<b>HGWA-1</b>					
EPA 9315	Radium-226	0.0981 ± 0.107 (0.220) C:93% T:NA	pCi/L		03/09/22 09:28	
EPA 9320	Radium-228	0.0451 ± 0.393 (0.907) C:71% T:84%	pCi/L		02/23/22 14:47	
Total Radium Calculation	Total Radium	0.143 ± 0.500 (1.13)	pCi/L		03/10/22 17:17	
<b>92587294006</b>	<b>HGWA-43D</b>					
EPA 9315	Radium-226	0.174 ± 0.111 (0.170) C:92% T:NA	pCi/L		03/09/22 09:28	
EPA 9320	Radium-228	0.944 ± 0.504 (0.891) C:74% T:81%	pCi/L		02/23/22 14:47	
Total Radium Calculation	Total Radium	1.12 ± 0.615 (1.06)	pCi/L		03/10/22 17:17	
<b>92587294007</b>	<b>HGWC-9</b>					
EPA 9315	Radium-226	0.198 ± 0.113 (0.154) C:93% T:NA	pCi/L		03/16/22 09:13	
EPA 9320	Radium-228	-0.00661 ± 0.320 (0.740) C:77% T:91%	pCi/L		03/14/22 13:18	
Total Radium Calculation	Total Radium	0.198 ± 0.433 (0.894)	pCi/L		03/18/22 13:09	
<b>92587294008</b>	<b>HGWC-10</b>					
EPA 9315	Radium-226	0.0116 ± 0.0787 (0.205) C:85% T:NA	pCi/L		03/16/22 09:13	
EPA 9320	Radium-228	0.478 ± 0.506 (1.06) C:69% T:91%	pCi/L		03/14/22 16:40	
Total Radium Calculation	Total Radium	0.490 ± 0.585 (1.27)	pCi/L		03/18/22 13:09	

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92587294

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92587294009</b>	<b>HGWC-11</b>					
EPA 9315	Radium-226	0.251 ± 0.135 (0.191) C:89% T:NA	pCi/L		03/16/22 09:13	
EPA 9320	Radium-228	0.193 ± 0.523 (1.16) C:69% T:83%	pCi/L		03/14/22 16:40	
Total Radium Calculation	Total Radium	0.444 ± 0.658 (1.35)	pCi/L		03/18/22 13:09	
<b>92587294010</b>	<b>HGWC-12</b>					
EPA 9315	Radium-226	0.173 ± 0.110 (0.167) C:91% T:NA	pCi/L		03/16/22 09:13	
EPA 9320	Radium-228	0.391 ± 0.583 (1.26) C:67% T:87%	pCi/L		03/14/22 16:40	
Total Radium Calculation	Total Radium	0.564 ± 0.693 (1.43)	pCi/L		03/18/22 13:09	
<b>92587294011</b>	<b>MW-5</b>					
EPA 9315	Radium-226	0.137 ± 0.108 (0.190) C:88% T:NA	pCi/L		03/16/22 09:13	
EPA 9320	Radium-228	0.430 ± 0.462 (0.967) C:68% T:86%	pCi/L		03/14/22 16:41	
Total Radium Calculation	Total Radium	0.567 ± 0.570 (1.16)	pCi/L		03/18/22 13:09	
<b>92587294012</b>	<b>MW-6</b>					
EPA 9315	Radium-226	0.181 ± 0.122 (0.203) C:87% T:NA	pCi/L		03/16/22 09:13	
EPA 9320	Radium-228	0.438 ± 0.437 (0.903) C:66% T:88%	pCi/L		03/14/22 16:41	
Total Radium Calculation	Total Radium	0.619 ± 0.559 (1.11)	pCi/L		03/18/22 13:09	

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92587294

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92587294013</b>	<b>MW-19</b>					
EPA 9315	Radium-226	0.245 ± 0.128 (0.169)	pCi/L		03/16/22 09:13	
EPA 9320	Radium-228	C:93% T:NA -0.000859 ± 0.424 (0.985)	pCi/L		03/14/22 16:41	
		C:65% T:86%				
Total Radium Calculation	Total Radium	0.245 ± 0.552 (1.15)	pCi/L		03/18/22 13:09	
<b>92587294014</b>	<b>MW-25D</b>					
EPA 9315	Radium-226	0.603 ± 0.198 (0.156)	pCi/L		03/16/22 09:13	
EPA 9320	Radium-228	C:90% T:NA 0.151 ± 0.439 (0.982)	pCi/L		03/14/22 16:41	
		C:67% T:89%				
Total Radium Calculation	Total Radium	0.754 ± 0.637 (1.14)	pCi/L		03/18/22 13:09	
<b>92587294015</b>	<b>MW-26D</b>					
EPA 9315	Radium-226	0.0677 ± 0.0805 (0.162)	pCi/L		03/16/22 09:13	
EPA 9320	Radium-228	C:93% T:NA -0.00537 ± 0.386 (0.895)	pCi/L		03/14/22 16:41	
		C:69% T:90%				
Total Radium Calculation	Total Radium	0.0677 ± 0.467 (1.06)	pCi/L		03/18/22 13:09	
<b>92587294016</b>	<b>DUP-1</b>					
EPA 9315	Radium-226	0.255 ± 0.148 (0.228)	pCi/L		03/16/22 09:16	
EPA 9320	Radium-228	C:84% T:NA 0.391 ± 0.430 (0.898)	pCi/L		03/14/22 16:41	
		C:63% T:89%				
Total Radium Calculation	Total Radium	0.646 ± 0.578 (1.13)	pCi/L		03/18/22 13:09	

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92587294

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92587294017</b>	<b>HGWC-7</b>					
EPA 9315	Radium-226	0.0268 ± 0.0827 (0.203) C:89% T:NA	pCi/L		03/16/22 09:16	
EPA 9320	Radium-228	0.148 ± 0.394 (0.881) C:69% T:87%	pCi/L		03/14/22 16:41	
Total Radium Calculation	Total Radium	0.175 ± 0.477 (1.08)	pCi/L		03/18/22 13:09	
<b>92587294018</b>	<b>HGWC-8</b>					
EPA 9315	Radium-226	0.254 ± 0.126 (0.154) C:95% T:NA	pCi/L		03/16/22 09:16	
EPA 9320	Radium-228	0.691 ± 0.506 (0.996) C:63% T:92%	pCi/L		03/14/22 16:42	
Total Radium Calculation	Total Radium	0.945 ± 0.632 (1.15)	pCi/L		03/18/22 13:09	
<b>92587294019</b>	<b>HGWC-13</b>					
EPA 9315	Radium-226	0.205 ± 0.108 (0.126) C:93% T:NA	pCi/L		03/16/22 09:16	
EPA 9320	Radium-228	0.237 ± 0.458 (1.01) C:61% T:86%	pCi/L		03/14/22 16:42	
Total Radium Calculation	Total Radium	0.442 ± 0.566 (1.14)	pCi/L		03/18/22 13:09	
<b>92587294020</b>	<b>MW-20</b>					
EPA 9315	Radium-226	0.137 ± 0.0990 (0.157) C:90% T:NA	pCi/L		03/16/22 09:17	
EPA 9320	Radium-228	0.183 ± 0.464 (1.04) C:55% T:87%	pCi/L		03/14/22 16:42	
Total Radium Calculation	Total Radium	0.320 ± 0.563 (1.20)	pCi/L		03/18/22 13:09	

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92587294

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92587294021</b>	<b>MW-24D</b>					
EPA 9315	Radium-226	0.178 ± 0.111 (0.163) C:87% T:NA	pCi/L		03/16/22 09:19	
EPA 9320	Radium-228	-0.0834 ± 0.310 (0.737) C:79% T:85%	pCi/L		03/14/22 13:19	
Total Radium Calculation	Total Radium	0.178 ± 0.421 (0.900)	pCi/L		03/18/22 13:09	
<b>92587294022</b>	<b>MW-27D</b>					
EPA 9315	Radium-226	0.589 ± 0.199 (0.168) C:92% T:NA	pCi/L		03/16/22 09:19	
EPA 9320	Radium-228	0.220 ± 0.319 (0.686) C:79% T:84%	pCi/L		03/14/22 13:19	
Total Radium Calculation	Total Radium	0.809 ± 0.518 (0.854)	pCi/L		03/18/22 13:09	
<b>92587294023</b>	<b>MW-28D</b>					
EPA 9315	Radium-226	0.219 ± 0.124 (0.172) C:96% T:NA	pCi/L		03/16/22 09:19	
EPA 9320	Radium-228	1.74 ± 4.63 (10.3) C:76% T:89%	pCi/L		03/14/22 13:19	
Total Radium Calculation	Total Radium	1.96 ± 4.75 (10.5)	pCi/L		03/18/22 13:09	
<b>92587294024</b>	<b>MW-29</b>					
EPA 9315	Radium-226	0.0596 ± 0.0699 (0.135) C:85% T:NA	pCi/L		03/16/22 10:49	
EPA 9320	Radium-228	0.534 ± 0.424 (0.847) C:75% T:81%	pCi/L		03/14/22 13:19	
Total Radium Calculation	Total Radium	0.594 ± 0.494 (0.982)	pCi/L		03/18/22 13:09	

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92587294025</b>	<b>EB-1</b>					
EPA 9315	Radium-226	0.0149 ± 0.0603 (0.156) C:89% T:NA	pCi/L		03/16/22 10:49	
EPA 9320	Radium-228	0.148 ± 0.351 (0.779) C:73% T:83%	pCi/L		03/14/22 13:19	
Total Radium Calculation	Total Radium	0.163 ± 0.411 (0.935)	pCi/L		03/18/22 13:09	
<b>92587294026</b>	<b>FB-1</b>					
EPA 9315	Radium-226	0.0474 ± 0.0474 (0.0885) C:86% T:NA	pCi/L		03/16/22 12:36	
EPA 9320	Radium-228	0.435 ± 0.327 (0.643) C:87% T:83%	pCi/L		03/14/22 13:19	
Total Radium Calculation	Total Radium	0.482 ± 0.374 (0.732)	pCi/L		03/18/22 13:09	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: MW-7**      **Lab ID: 92587294001**      Collected: 02/08/22 17:05      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	<b>0.158 ± 0.120 (0.196)</b> <b>C:95% T:NA</b>	pCi/L	03/17/22 09:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.259 ± 0.338 (0.720)</b> <b>C:78% T:89%</b>	pCi/L	03/14/22 13:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.417 ± 0.458 (0.916)</b>	pCi/L	03/21/22 17:12	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: HGWA-44D</b> <b>Lab ID: 92587294002</b> Collected: 02/01/22 11:52      Received: 02/09/22 12:40      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.184 ± 0.126 (0.198)</b> <b>C:70% T:NA</b>	pCi/L	03/08/22 09:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.481 ± 0.406 (0.807)</b> <b>C:76% T:78%</b>	pCi/L	02/23/22 14:46	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.665 ± 0.532 (1.01)</b>	pCi/L	03/10/22 17:17	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: HGWA-2**      **Lab ID: 92587294003**      Collected: 02/01/22 11:52      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	<b>0.328 ± 0.142 (0.152)</b> <b>C:84% T:NA</b>	pCi/L	03/09/22 09:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.260 ± 0.363 (0.775)</b> <b>C:72% T:85%</b>	pCi/L	02/23/22 14:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.588 ± 0.505 (0.927)</b>	pCi/L	03/10/22 17:17	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: HGWA-3**      **Lab ID: 92587294004**      Collected: 02/01/22 09:58      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	<b>0.144 ± 0.104 (0.175)</b> <b>C:93% T:NA</b>	pCi/L	03/09/22 09:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.122 ± 0.302 (0.675)</b> <b>C:81% T:91%</b>	pCi/L	02/23/22 14:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.266 ± 0.406 (0.850)</b>	pCi/L	03/10/22 17:17	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: HGWA-1</b> <b>Lab ID: 92587294005</b> Collected: 02/01/22 12:13      Received: 02/09/22 12:40      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0981 ± 0.107 (0.220)</b> <b>C:93% T:NA</b>	pCi/L	03/09/22 09:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0451 ± 0.393 (0.907)</b> <b>C:71% T:84%</b>	pCi/L	02/23/22 14:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.143 ± 0.500 (1.13)</b>	pCi/L	03/10/22 17:17	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: HGWA-43D</b> <b>Lab ID: 92587294006</b> Collected: 02/01/22 10:28      Received: 02/09/22 12:40      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.174 ± 0.111 (0.170)</b> <b>C:92% T:NA</b>	pCi/L	03/09/22 09:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.944 ± 0.504 (0.891)</b> <b>C:74% T:81%</b>	pCi/L	02/23/22 14:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.12 ± 0.615 (1.06)</b>	pCi/L	03/10/22 17:17	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: HGWC-9</b> <b>Lab ID: 92587294007</b> Collected: 02/09/22 11:06      Received: 02/11/22 11:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.198 ± 0.113 (0.154)</b> <b>C:93% T:NA</b>	pCi/L	03/16/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.00661 ± 0.320 (0.740)</b> <b>C:77% T:91%</b>	pCi/L	03/14/22 13:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.198 ± 0.433 (0.894)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: HGWC-10</b> <b>Lab ID: 92587294008</b> Collected: 02/09/22 15:37      Received: 02/11/22 11:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0116 ± 0.0787 (0.205)</b> <b>C:85% T:NA</b>	pCi/L	03/16/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.478 ± 0.506 (1.06)</b> <b>C:69% T:91%</b>	pCi/L	03/14/22 16:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.490 ± 0.585 (1.27)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: HGWC-11</b> <b>Lab ID: 92587294009</b> Collected: 02/09/22 10:02      Received: 02/11/22 11:35      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.251 ± 0.135 (0.191)</b> <b>C:89% T:NA</b>	pCi/L	03/16/22 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.193 ± 0.523 (1.16)</b> <b>C:69% T:83%</b>	pCi/L	03/14/22 16:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.444 ± 0.658 (1.35)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: HGWC-12</b> <b>Lab ID: 92587294010</b> Collected: 02/09/22 11:38      Received: 02/11/22 11:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.173 ± 0.110 (0.167)</b> <b>C:91% T:NA</b>	pCi/L	03/16/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.391 ± 0.583 (1.26)</b> <b>C:67% T:87%</b>	pCi/L	03/14/22 16:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.564 ± 0.693 (1.43)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: MW-5**      **Lab ID: 92587294011**      Collected: 02/09/22 12:33      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	<b>0.137 ± 0.108 (0.190)</b> <b>C:88% T:NA</b>	pCi/L	03/16/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.430 ± 0.462 (0.967)</b> <b>C:68% T:86%</b>	pCi/L	03/14/22 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.567 ± 0.570 (1.16)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: MW-6**      **Lab ID: 92587294012**      Collected: 02/09/22 14:13      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	<b>0.181 ± 0.122 (0.203)</b> <b>C:87% T:NA</b>	pCi/L	03/16/22 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.438 ± 0.437 (0.903)</b> <b>C:66% T:88%</b>	pCi/L	03/14/22 16:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.619 ± 0.559 (1.11)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: MW-19**      **Lab ID: 92587294013**      Collected: 02/09/22 16:25      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	<b>0.245 ± 0.128 (0.169)</b> <b>C:93% T:NA</b>	pCi/L	03/16/22 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.000859 ± 0.424 (0.985)</b> <b>C:65% T:86%</b>	pCi/L	03/14/22 16:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.245 ± 0.552 (1.15)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: MW-25D**      **Lab ID: 92587294014**      Collected: 02/09/22 14:00      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	<b>0.603 ± 0.198 (0.156)</b> <b>C:90% T:NA</b>	pCi/L	03/16/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.151 ± 0.439 (0.982)</b> <b>C:67% T:89%</b>	pCi/L	03/14/22 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.754 ± 0.637 (1.14)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MW-26D</b> <b>Lab ID: 92587294015</b> Collected: 02/09/22 09:54      Received: 02/11/22 11:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0677 ± 0.0805 (0.162)</b> <b>C:93% T:NA</b>	pCi/L	03/16/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.00537 ± 0.386 (0.895)</b> <b>C:69% T:90%</b>	pCi/L	03/14/22 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.0677 ± 0.467 (1.06)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: DUP-1**      **Lab ID: 92587294016**      Collected: 02/09/22 00:00      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	<b>0.255 ± 0.148 (0.228)</b> <b>C:84% T:NA</b>	pCi/L	03/16/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.391 ± 0.430 (0.898)</b> <b>C:63% T:89%</b>	pCi/L	03/14/22 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.646 ± 0.578 (1.13)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: HGWC-7**      **Lab ID: 92587294017**      Collected: 02/10/22 12:12      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	<b>0.0268 ± 0.0827 (0.203)</b> <b>C:89% T:NA</b>	pCi/L	03/16/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.148 ± 0.394 (0.881)</b> <b>C:69% T:87%</b>	pCi/L	03/14/22 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.175 ± 0.477 (1.08)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: HGWC-8**      **Lab ID: 92587294018**      Collected: 02/10/22 15:45      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	<b>0.254 ± 0.126 (0.154)</b> <b>C:95% T:NA</b>	pCi/L	03/16/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.691 ± 0.506 (0.996)</b> <b>C:63% T:92%</b>	pCi/L	03/14/22 16:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.945 ± 0.632 (1.15)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: HGWC-13</b> <b>Lab ID: 92587294019</b> Collected: 02/10/22 14:55      Received: 02/11/22 11:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.205 ± 0.108 (0.126)</b> <b>C:93% T:NA</b>	pCi/L	03/16/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.237 ± 0.458 (1.01)</b> <b>C:61% T:86%</b>	pCi/L	03/14/22 16:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.442 ± 0.566 (1.14)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MW-20</b> <b>Lab ID: 92587294020</b> Collected: 02/10/22 11:33      Received: 02/11/22 11:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.137 ± 0.0990 (0.157)</b> <b>C:90% T:NA</b>	pCi/L	03/16/22 09:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.183 ± 0.464 (1.04)</b> <b>C:55% T:87%</b>	pCi/L	03/14/22 16:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.320 ± 0.563 (1.20)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: MW-24D**      **Lab ID: 92587294021**      Collected: 02/10/22 13:32      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	<b>0.178 ± 0.111 (0.163)</b> <b>C:87% T:NA</b>	pCi/L	03/16/22 09:19	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.0834 ± 0.310 (0.737)</b> <b>C:79% T:85%</b>	pCi/L	03/14/22 13:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.178 ± 0.421 (0.900)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MW-27D</b> <b>Lab ID: 92587294022</b> Collected: 02/10/22 15:40      Received: 02/11/22 11:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.589 ± 0.199 (0.168)</b> <b>C:92% T:NA</b>	pCi/L	03/16/22 09:19	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.220 ± 0.319 (0.686)</b> <b>C:79% T:84%</b>	pCi/L	03/14/22 13:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.809 ± 0.518 (0.854)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: MW-28D**      **Lab ID: 92587294023**      Collected: 02/10/22 14:29      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	<b>0.219 ± 0.124 (0.172)</b> <b>C:96% T:NA</b>	pCi/L	03/16/22 09:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.74 ± 4.63 (10.3)</b> <b>C:76% T:89%</b>	pCi/L	03/14/22 13:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.96 ± 4.75 (10.5)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: MW-29**      **Lab ID: 92587294024**      Collected: 02/10/22 09:44      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	<b>0.0596 ± 0.0699 (0.135)</b> <b>C:85% T:NA</b>	pCi/L	03/16/22 10:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.534 ± 0.424 (0.847)</b> <b>C:75% T:81%</b>	pCi/L	03/14/22 13:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.594 ± 0.494 (0.982)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

**Sample: EB-1**      **Lab ID: 92587294025**      Collected: 02/10/22 15:59      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	<b>0.0149 ± 0.0603 (0.156)</b> <b>C:89% T:NA</b>	pCi/L	03/16/22 10:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.148 ± 0.351 (0.779)</b> <b>C:73% T:83%</b>	pCi/L	03/14/22 13:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.163 ± 0.411 (0.935)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: FB-1</b> <b>Lab ID: 92587294026</b> Collected: 02/10/22 15:50      Received: 02/11/22 11:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0474 ± 0.0474 (0.0885)</b> C:86% T:NA	pCi/L	03/16/22 12:36	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.435 ± 0.327 (0.643)</b> C:87% T:83%	pCi/L	03/14/22 13:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.482 ± 0.374 (0.732)</b>	pCi/L	03/18/22 13:09	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

QC Batch: 488843

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587294001

METHOD BLANK: 2364144

Matrix: Water

Associated Lab Samples: 92587294001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00836 ± 0.0708 (0.195) C:93% T:NA	pCi/L	03/17/22 09:25	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

QC Batch: 488358

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587294021, 92587294022, 92587294023, 92587294024, 92587294025, 92587294026

METHOD BLANK: 2362219

Matrix: Water

Associated Lab Samples: 92587294021, 92587294022, 92587294023, 92587294024, 92587294025, 92587294026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.369 ± 0.321 (0.644) C:75% T:87%	pCi/L	03/14/22 13:20	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

QC Batch: 487656

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587294007, 92587294008, 92587294009, 92587294010, 92587294011, 92587294012, 92587294013, 92587294014, 92587294015, 92587294016, 92587294017, 92587294018, 92587294019, 92587294020, 92587294021, 92587294022, 92587294023, 92587294024, 92587294025, 92587294026

METHOD BLANK: 2358730

Matrix: Water

Associated Lab Samples: 92587294007, 92587294008, 92587294009, 92587294010, 92587294011, 92587294012, 92587294013, 92587294014, 92587294015, 92587294016, 92587294017, 92587294018, 92587294019, 92587294020, 92587294021, 92587294022, 92587294023, 92587294024, 92587294025, 92587294026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.152 ± 0.101 (0.151) C:93% T:NA	pCi/L	03/16/22 09:13	

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

This report shall not be reproduced, except in full,  
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### QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

QC Batch: 484160

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587294002, 92587294003, 92587294004, 92587294005, 92587294006

METHOD BLANK: 2341236

Matrix: Water

Associated Lab Samples: 92587294002, 92587294003, 92587294004, 92587294005, 92587294006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.339 ± 0.327 (0.664) C:77% T:82%	pCi/L	02/23/22 14:44	

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-1 RAD

Pace Project No.: 92587294

QC Batch: 488357 Analysis Method: EPA 9320

QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587294001, 92587294007, 92587294008, 92587294009, 92587294010, 92587294011, 92587294012, 92587294013, 92587294014, 92587294015, 92587294016, 92587294017, 92587294018, 92587294019, 92587294020

METHOD BLANK: 2362218 Matrix: Water

Associated Lab Samples: 92587294001, 92587294007, 92587294008, 92587294009, 92587294010, 92587294011, 92587294012, 92587294013, 92587294014, 92587294015, 92587294016, 92587294017, 92587294018, 92587294019, 92587294020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.722 ± 0.358 (0.620) C:75% T:92%	pCi/L	03/14/22 13:19	

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-1 RAD

Pace Project No.: 92587294

QC Batch: 484283

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587294002, 92587294003, 92587294004, 92587294005, 92587294006

METHOD BLANK: 2341882

Matrix: Water

Associated Lab Samples: 92587294002, 92587294003, 92587294004, 92587294005, 92587294006

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0636 ± 0.0722 (0.141) C:96% T:NA	pCi/L	03/08/22 09:08	

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-1 RAD

Pace Project No.: 92587294

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### 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-1 RAD

Pace Project No.: 92587294

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587294001	MW-7	EPA 9315	488843		
92587294002	HGWA-44D	EPA 9315	484283		
92587294003	HGWA-2	EPA 9315	484283		
92587294004	HGWA-3	EPA 9315	484283		
92587294005	HGWA-1	EPA 9315	484283		
92587294006	HGWA-43D	EPA 9315	484283		
92587294007	HGWC-9	EPA 9315	487656		
92587294008	HGWC-10	EPA 9315	487656		
92587294009	HGWC-11	EPA 9315	487656		
92587294010	HGWC-12	EPA 9315	487656		
92587294011	MW-5	EPA 9315	487656		
92587294012	MW-6	EPA 9315	487656		
92587294013	MW-19	EPA 9315	487656		
92587294014	MW-25D	EPA 9315	487656		
92587294015	MW-26D	EPA 9315	487656		
92587294016	DUP-1	EPA 9315	487656		
92587294017	HGWC-7	EPA 9315	487656		
92587294018	HGWC-8	EPA 9315	487656		
92587294019	HGWC-13	EPA 9315	487656		
92587294020	MW-20	EPA 9315	487656		
92587294021	MW-24D	EPA 9315	487656		
92587294022	MW-27D	EPA 9315	487656		
92587294023	MW-28D	EPA 9315	487656		
92587294024	MW-29	EPA 9315	487656		
92587294025	EB-1	EPA 9315	487656		
92587294026	FB-1	EPA 9315	487656		
92587294001	MW-7	EPA 9320	488357		
92587294002	HGWA-44D	EPA 9320	484160		
92587294003	HGWA-2	EPA 9320	484160		
92587294004	HGWA-3	EPA 9320	484160		
92587294005	HGWA-1	EPA 9320	484160		
92587294006	HGWA-43D	EPA 9320	484160		
92587294007	HGWC-9	EPA 9320	488357		
92587294008	HGWC-10	EPA 9320	488357		
92587294009	HGWC-11	EPA 9320	488357		
92587294010	HGWC-12	EPA 9320	488357		
92587294011	MW-5	EPA 9320	488357		
92587294012	MW-6	EPA 9320	488357		
92587294013	MW-19	EPA 9320	488357		
92587294014	MW-25D	EPA 9320	488357		
92587294015	MW-26D	EPA 9320	488357		
92587294016	DUP-1	EPA 9320	488357		
92587294017	HGWC-7	EPA 9320	488357		
92587294018	HGWC-8	EPA 9320	488357		
92587294019	HGWC-13	EPA 9320	488357		
92587294020	MW-20	EPA 9320	488357		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92587294

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92587294021	MW-24D	EPA 9320	488358		
92587294022	MW-27D	EPA 9320	488358		
92587294023	MW-28D	EPA 9320	488358		
92587294024	MW-29	EPA 9320	488358		
92587294025	EB-1	EPA 9320	488358		
92587294026	FB-1	EPA 9320	488358		
92587294001	MW-7	Total Radium Calculation	491868		
92587294002	HGWA-44D	Total Radium Calculation	489607		
92587294003	HGWA-2	Total Radium Calculation	489607		
92587294004	HGWA-3	Total Radium Calculation	489607		
92587294005	HGWA-1	Total Radium Calculation	489607		
92587294006	HGWA-43D	Total Radium Calculation	489607		
92587294007	HGWC-9	Total Radium Calculation	491420		
92587294008	HGWC-10	Total Radium Calculation	491420		
92587294009	HGWC-11	Total Radium Calculation	491420		
92587294010	HGWC-12	Total Radium Calculation	491420		
92587294011	MW-5	Total Radium Calculation	491420		
92587294012	MW-6	Total Radium Calculation	491420		
92587294013	MW-19	Total Radium Calculation	491420		
92587294014	MW-25D	Total Radium Calculation	491420		
92587294015	MW-26D	Total Radium Calculation	491420		
92587294016	DUP-1	Total Radium Calculation	491420		
92587294017	HGWC-7	Total Radium Calculation	491420		
92587294018	HGWC-8	Total Radium Calculation	491420		
92587294019	HGWC-13	Total Radium Calculation	491420		
92587294020	MW-20	Total Radium Calculation	491420		
92587294021	MW-24D	Total Radium Calculation	491420		
92587294022	MW-27D	Total Radium Calculation	491420		
92587294023	MW-28D	Total Radium Calculation	491420		
92587294024	MW-29	Total Radium Calculation	491420		
92587294025	EB-1	Total Radium Calculation	491420		
92587294026	FB-1	Total Radium Calculation	491420		

### 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:** GA Power Project #: **WO# : 92587319**

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other: \_\_\_\_\_



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: JRE 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: Add/Subtract (°C) +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: \_\_\_\_\_

### 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**

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	<b>REGULATORY AGENCY</b>
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER CCR
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:	
Email To: SCS Contacts	Purchase Order No.:	Address:	
Phone:	Project Name: Hammond AP-1	Pace Quote Reference:	<b>Site Location</b>
Requested Due Date/TAT: 10 Day	Project Number:	Pace Project Manager: Nicole D'Oleo	STATE: <u>GA</u>
		Pace Profile #: 10839	

ITEM #	SAMPLE ID (A-Z, 0-9, -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Analysis Test	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.			
		MATRIX	CODE	COMPOSITE	COMPOSITE			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Chloride, Fluoride, Sulfate		Full App. III and IV metals	PAD 226/228	TDS							
		DRINKING WATER	DW													N		N	N	N							
1	MW-7	WT	G			2/8/2022	17:05	17	5	2	3							X	X	X	X					Pace Project No./ Lab I.D.	
2																											pH = 6.73
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS													
		Connor Carr / Geosyntec		2/8/2022		15:00		Thomas Kessler / Geosyntec		2/8/2022		1500															
		Thomas Kessler / Geosyntec		2/9/2022		0715		Connor Carr / Geosyntec		2/9/2022		0715															
		Connor Carr / Geosyntec		2/9/2022		1246		Geosyntec		2/9/2022		1246															
		BENZ/CG - PAVE		2/9/2022		15:00		Charles Paul		2/9/2022		1500															

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Connor Carr	DATE Signed (MM/DD/YY): 2/8/2022				
SIGNATURE of SAMPLER: <i>[Signature]</i>					

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



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: \_\_\_\_\_



# 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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.	
Address: Atlanta, GA		Copy To: Geosyntec Contacts		Company Name:	
Email To: SCS Contacts		Purchase Order No.:		Address:	
Phone: Fax:		Project Name: Plant Hammond Pooled Upgradient		Pace Quota Reference:	
Requested Due Date/TAT: 10 Day		Project Number:		Pace Project Manager: Nicole D'Oleo	
				Pace Profile #: 10839	

**REGULATORY AGENCY**

NPDES     GROUND WATER     DRINKING WATER  
 UST     RCRA     OTHER CCR

Site Location: GA  
 STATE: GA

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Analysis Test Chloride, Fluoride, Sulfate Full App. III and IV metals RAD 229/228 TDS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.			
					COMPOSITE		COMPOSITE				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol					Other		
					DATE	TIME	DATE	TIME																
1	HGWA-44D		WT	G	2/1/2022	13:35			17	5	2	3												
2	HGWA-2		WT	G	2/1/2022	11:52			17	5	2	3												pH = 8.25
3	HGWA-3		WT	G	2/1/2022	9:58			16	5	2	3												pH = 5.24
4	HGWA-1		WT	G	2/1/2022	12:13			17	5	2	3												pH = 7.45
5	HGWA-43D		WT	G	2/1/2022	10:28			17	5	2	3												pH = 7.19
6																								pH = 7.52
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Thomas Vessler / Geosyntec	2/1/2022	1232	Ryan Williams / Pace	2/3/2022	1232	
	Ryan Williams / Pace	2/3/22	1517	Alvin / Pace	2/3/22	1517	

**SAMPLER NAME AND SIGNATURE**


PRINT Name of SAMPLER: Thomas Vessler, Anthony Sewer, Condon

SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YY): 02/01/2022

Temp in °C: \_\_\_\_\_  
 Received on Ice (Y/N): \_\_\_\_\_  
 Custody Sealed Cooler (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

\*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



	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# : 92587319**

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other: \_\_\_\_\_

PM: NMG Due Date: 02/17/22  
CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: MT 2/11/22

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: 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

Chain of Custody Present?	Yes	No	N/A	1.	Comments/Discrepancy:
Chain of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	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:					
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"/>		

COMMENTS/SAMPLE DISCREPANCY \_\_\_\_\_ Field Data Required?  Yes  No

Lot ID of split containers: \_\_\_\_\_

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCUR Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_

## 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: **Geosyntec Contacts**  
Purchase Order No.: \_\_\_\_\_  
Project Name: **Hammond AP-1**  
Project Number: \_\_\_\_\_

**Section C**

Invoice Information:

Attention: **Southern Co.**  
Company Name: \_\_\_\_\_  
Address: \_\_\_\_\_  
Face Quote Reference: \_\_\_\_\_  
Face Project Manager: **Nicole D'Oleo**  
Face Profile #: **10839**

**REGULATORY AGENCY**

NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER CCR

Site Location

STATE: **GA**

ITEM #	Section D Required Client Information	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.		
		MATRIX	CODE			COMPOSITE		Unpreserved	H <sub>2</sub> SO <sub>4</sub>			HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Y/N	N	N	N	N	N			N	N
						DATE	TIME																				
1	HGWC-9	WT	G	WT	G	2/9/2022	11:06			17	5	2	3					X	X	X	X	X	X	N	pH = 7.30		
2	HGWC-10	WT	G	WT	G	2/9/2022	15:37			17	5	2	3					X	X	X	X	X	X	N	pH = 7.00		
3	HGWC-11	WT	G	WT	G	2/9/2022	10:02			17	5	2	3					X	X	X	X	X	X	N	pH = 6.55		
4	HGWC-12	WT	G	WT	G	2/9/2022	11:38			18	5	2	3					X	X	X	X	X	X	N	pH = 7.23		
5	MW-5	WT	G	WT	G	2/9/2022	12:33			18	5	2	3					X	X	X	X	X	X	N	pH = 6.13		
6	MW-6	WT	G	WT	G	2/9/2022	14:13			20	5	2	3					X	X	X	X	X	X	N	pH = 7.01		
7	MW-19	WT	G	WT	G	2/9/2022	18:25			19	5	2	3					X	X	X	X	X	X	N	pH = 6.28		
8	MW-25D	WT	G	WT	G	2/9/2022	14:00			19	5	2	3					X	X	X	X	X	X	N	pH = 7.82		
9	MW-26D	WT	G	WT	G	2/9/2022	9:54			17	5	2	3					X	X	X	X	X	X	N	pH = 7.32		
10	DUP-1	WT	G	WT	G	2/9/2022	0:00			18	5	2	3					X	X	X	X	X	X	N	N/A		
11																											
12																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	<i>Anthony Seward / Geosyntec</i>	<i>2/9/2022</i>	<i>1700</i>	<i>Thomas Kessler / Geosyntec</i>	<i>2/9/2022</i>	<i>1700</i>				
	<i>Thomas Kessler / Geosyntec</i>	<i>2/10/2022</i>	<i>1135</i>	<i>Ryan Williams / Pace</i>	<i>2/11/2022</i>	<i>1135</i>				
	<i>Ryan Williams / Pace</i>	<i>2/11/2022</i>	<i>1417</i>	<i>MU 100 VCL</i>	<i>2/11</i>	<i>1417</i>				

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: *Cournot Seward, Anthony Seward*

SIGNATURE of SAMPLER: *(Signature)* DATE Signed (MM/DD/YY): *2/9/2022*

Temp in °C \_\_\_\_\_  
Received on Ice (Y/N) \_\_\_\_\_  
Custody Sealed Cooler (Y/N) \_\_\_\_\_  
Samples Intact (Y/N) \_\_\_\_\_



### CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**  
Required Client Information:

**Section B**  
Required Project Information:

**Section C**  
Invoice Information:

Page: **1** of **1**

Company: <b>GA Power</b>		Report To: <b>SCS Contacts</b>		Attention: <b>Southern Co.</b>	
Address: <b>Atlanta, GA</b>		Copy To: <b>Geosyntec Contacts</b>		Company Name:	
Email To: <b>SCS Contacts</b>		Purchase Order No.:		Address:	
Phone:	Fax:	Project Name: <b>Hammond AP-1</b>		Pace Quote Reference:	
Requested Due Date/TAT: <b>10 Day</b>		Project Number:		Pace Project Manager: <b>Nicole D'Oleo</b>	
				Pace Profile #: <b>10839</b>	

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 checked="" type="checkbox"/> OTHER	CCR
Site Location		STATE: <b>GA</b>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)											Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				COMPOSITE		COMPOSITE				Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Test	Chloride, Fluoride, Sulfate	Full App. III and IV metals	RAD 226/228	TDS							
				DATE	TIME	DATE	TIME																N	N	N	N	N		
1	HGWC-7	WT	G	2/10/2022	12:12			18	5	2	3									X	X	X	X	N	pH = 7.22				
2	HGWC-8	WT	G	2/10/2022	15:45			18	5	2	3									X	X	X	X	N	pH = 6.99				
3	HGWC-13	WT	G	2/10/2022	14:55			20	5	2	3									X	X	X	X	N	pH = 7.54				
4	MW-20	WT	G	2/10/2022	11:33			18	5	2	3									X	X	X	X	N	pH = 7.19				
6	MW-24D	WT	G	2/10/2022	13:32			20	5	2	3									X	X	X	X	N	pH = 7.82				
6	MW-27D	WT	G	2/10/2022	15:40			18	5	2	3									X	X	X	X	N	pH = 7.86				
7	MW-28D	WT	G	2/10/2022	14:29			18	5	2	3									X	X	X	X	N	pH = 7.59				
8	MW-29	WT	G	2/10/2022	9:44			16	5	2	3									X	X	X	X	N	pH = 7.27				
8	EB-1	WT	G	2/10/2022	15:58			19	5	2	3									X	X	X	X	N	N/A				
10	FB-1	WT	G	2/10/2022	15:50	TJ	2/10/2022	18	5	2	3									X	X	X	X	N	N/A				
11																													
12						TJ	2/10/2022																				Last sample		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>Thomas Messler / Pace</i>	2/10/2022	11:35	<i>Kyan Williams / Pace</i>	2/10/2022	11:35	
	<i>Kyan Williams / Pace</i>	2/11/2022	14:17	<i>M. M. M.</i>	2/11/2022	14:17	

<b>SAMPLER NAME AND SIGNATURE</b>				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Thomas Messler, Jeffrey Seward Connor, Lynn</i>							
SIGNATURE of SAMPLER: <i>[Signature]</i>							
DATE Signed (MM/DD/YYYY): <i>2/10/2022</i>							

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



## Quality Control Sample Performance Assessment

Test: Ra-226  
Analyst: JC2  
Date: 3/12/2022  
Worklist: 65467  
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment		
MB Sample ID	2364144	
MB concentration:	0.008	
M/B Counting Uncertainty:	0.071	
MB MDC:	0.195	
MB Numerical Performance Indicator:	0.23	
MB Status vs Numerical Indicator:	N/A	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCSD65467	LCSD65467
Count Date:	3/17/2022	3/17/2022
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):	0.501	0.506
Target Conc. (pCi/L, g, F):	4.792	4.751
Uncertainty (Calculated):	0.058	0.057
Result (pCi/L, g, F):	5.598	4.801
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.584	0.536
Numerical Performance Indicator:	2.69	0.18
Percent Recovery:	116.82%	101.07%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		

Duplicate Sample Assessment	LCSD (Y or N)?	Y
Sample I.D.:	LCS65467	92587080023
Duplicate Sample I.D.:	LCSD65467	92587080023DUP
Sample Result (pCi/L, g, F):	5.598	0.004
Sample Result Counting Uncertainty (pCi/L, g, F):	0.584	0.094
Sample Duplicate Result (pCi/L, g, F):	4.801	-0.003
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.536	0.070
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	1.968	0.115
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	14.46%	1003.15%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
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:		

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

\*\*\*Batch must be re-prepped due to unacceptable precision. N/A

LCM 3/17/22

QCMS 1/8/22

LCM 3/17/22



## Quality Control Sample Performance Assessment

Test: Ra-228  
Analyst: JSM  
Date: 3/10/2022  
Worklist: 65420  
Matrix: WI

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Method Blank Assessment	
MB Sample ID	2362219
MB concentration:	0.369
M/B 2 Sigma CSU:	0.321
MB MDC:	0.644
MB Numerical Performance Indicator:	2.26
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS(D Y or N)?	Y
	LCS65420	LCS65420
Count Date:	3/14/2022	3/14/2022
Spike I.D.:	22-016	22-016
Decay Corrected Spike Concentration (pCi/mL):	36.482	36.482
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.810
Target Conc. (pCi/L, g, F):	4.465	4.501
Uncertainty (Calculated):	0.219	0.221
Result (pCi/L, g, F):	4.305	3.914
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.990	0.916
Numerical Performance Indicator:	-0.31	-1.22
Percent Recovery:	96.41%	86.96%
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.:	LCS65420	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCSD65420	
Sample Result (pCi/L, g, F):	4.305	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.990	
Sample Duplicate Result (pCi/L, g, F):	3.914	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.916	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.568	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.31%	
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:

*M 3/15/22*

*3/18/22*



## Quality Control Sample Performance Assessment

Test: Ra-226  
Analyst: JC2  
Date: 3/4/2022  
Worklist: 65374  
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2358730
MB concentration:	0.152
M/B Counting Uncertainty:	0.099
MB MDC:	0.151
MB Numerical Performance Indicator:	3.01
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65374	LCSD65374
Count Date:	3/16/2022	3/16/2022
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):	0.516	0.504
Target Conc. (pCi/L, g, F):	4.654	4.767
Uncertainty (Calculated):	0.056	0.057
Result (pCi/L, g, F):	5.124	5.036
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	0.352	0.344
Numerical Performance Indicator:	2.58	1.51
Percent Recovery:	110.10%	105.63%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		

Duplicate Sample Assessment	LCSD (Y or N)?	Y
Sample I.D.:	LCS65374	92587294007
Duplicate Sample I.D.:	LCSD65374	92587294007DUP
Sample Result (pCi/L, g, F):	5.124	0.198
Sample Result Counting Uncertainty (pCi/L, g, F):	0.352	0.109
Sample Duplicate Result (pCi/L, g, F):	5.036	0.081
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.344	0.077
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.353	1.727 <i>OK</i>
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.15%	84.34%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
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:		

## Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

**Comments:**

\*The method blank result is below the reporting limit for this analysis and is acceptable.

\*\*\*Batch must be re-prepped due to unacceptable precision. *WJA*

*OK*  
*3/18/22*

*UAm 3/18/22*





## Quality Control Sample Performance Assessment

Test: Ra-228  
Analyst: JSM  
Date: 2/21/2022  
Worklist: 65088  
Matrix: WT

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Method Blank Assessment		
MB Sample ID	2341236	
MB concentration:	0.339	
M/B 2 Sigma CSU:	0.327	
MB MDC:	0.664	
MB Numerical Performance Indicator:	2.03	
MB Status vs Numerical Indicator:	Warning	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCSD65088	LCSD65088
Count Date:	2/23/2022	2/23/2022
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.233	36.233
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.807	0.812
Target Conc. (pCi/L, g, F):	4.493	4.462
Uncertainty (Calculated):	0.220	0.219
Result (pCi/L, g, F):	3.310	3.183
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.840	0.812
Numerical Performance Indicator:	-2.67	-2.98
Percent Recovery:	73.67%	71.32%
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.:	LCSD65088	Enter Duplicate sample IDs if other than LCSD/LCSD in the space below.
Duplicate Sample I.D.:	LCSD65088	
Sample Result (pCi/L, g, F):	3.310	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.840	
Sample Duplicate Result (pCi/L, g, F):	3.183	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.812	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.213	92586334001
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.24%	92586334001DUP
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:



## Quality Control Sample Performance Assessment

Test: Ra-228  
Analyst: VAL  
Date: 3/11/2022  
Worklist: 65419  
Matrix: WI

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Method Blank Assessment		
MB Sample ID	2362218	
MB concentration:	0.722	
M/B 2 Sigma CSU:	0.358	
MB MDC:	0.620	
MB Numerical Performance Indicator:	3.95	
MB Status vs Numerical Indicator:	Fail*	
MB Status vs. MDC:	See Comment*	

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65419	LCSD65419
Count Date:	3/14/2022	3/14/2022
Spike I.D.:	22-016	22-016
Decay Corrected Spike Concentration (pCi/mL):	36.482	36.482
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.809	0.807
Target Conc. (pCi/L, g, F):	4.511	4.521
Uncertainty (Calculated):	0.221	0.222
Result (pCi/L, g, F):	4.469	3.720
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.978	0.851
Numerical Performance Indicator:	-0.08	-1.79
Percent Recovery:	99.06%	82.27%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS65419	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCSD65419	
Sample Result (pCi/L, g, F):	4.469	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.978	
Sample Duplicate Result (pCi/L, g, F):	3.720	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.851	
Are sample and/or duplicate results below RL?:	NO	
Duplicate Numerical Performance Indicator:	1.133	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	18.52%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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:		

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:**

\*The method blank result is below the reporting limit for this analysis and is acceptable.

*VAL 3/15/22*

*VAL 3/15/22*



## Quality Control Sample Performance Assessment

Test: Ra-226  
Analyst: JC2  
Date: 2/19/2022  
Worklist: 65099  
Matrix: DW

**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Method Blank Assessment	
MB Sample ID	2341882
MB concentration:	0.064
M/B Counting Uncertainty:	0.072
MB MDC:	0.141
MB Numerical Performance Indicator:	1.74
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	Y
	LCS65099	LCS65099
Count Date:	3/9/2022	3/9/2022
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):	0.506	0.498
Target Conc. (pCi/L, g, F):	4.748	4.829
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	4.768	5.277
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.445	0.483
Numerical Performance Indicator:	0.09	1.81
Percent Recovery:	100.44%	109.28%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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:		

Duplicate Sample Assessment	LCS65099	LCS65099
Sample I.D.:	LCS65099	92586334002
Duplicate Sample I.D.:	LCS65099	92586334002DUP
Sample Result (pCi/L, g, F):	4.768	0.279
Sample Result Counting Uncertainty (pCi/L, g, F):	0.445	0.116
Sample Duplicate Result (pCi/L, g, F):	5.277	0.320
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.483	0.137
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-1.519	-0.448
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.43%	13.69%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
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:		

## 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-1-Revised Report  
Pace Project No.: 92618820

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 include a revised COC, per client request.

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-1-Revised Report

Pace Project No.: 92618820

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### **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

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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### **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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92618820001	HGWC-7	Water	08/03/22 16:12	08/04/22 12:30
92618820002	HGWC-8	Water	08/03/22 09:15	08/04/22 12:30
92618820003	HGWC-10	Water	08/03/22 14:02	08/04/22 12:30
92618820004	HGWC-11	Water	08/03/22 09:48	08/04/22 12:30
92618820005	HGWC-12	Water	08/03/22 11:34	08/04/22 12:30
92618820006	HGWC-13	Water	08/03/22 11:25	08/04/22 12:30
92618820007	MW-5	Water	08/03/22 08:53	08/04/22 12:30
92618820008	MW-6	Water	08/03/22 14:24	08/04/22 12:30
92618820009	MW-24D	Water	08/03/22 12:50	08/04/22 12:30
92618820010	MW-27D	Water	08/03/22 12:15	08/04/22 12:30
92618820011	MW-29	Water	08/03/22 14:47	08/04/22 12:30
92618820012	HGWC-9	Water	08/04/22 11:42	08/05/22 14:15
92618820013	MW-7	Water	08/04/22 09:05	08/05/22 14:15
92618820014	MW-19	Water	08/04/22 14:25	08/05/22 14:15
92618820015	MW-20	Water	08/04/22 11:40	08/05/22 14:15
92618820016	MW-25D	Water	08/04/22 09:26	08/05/22 14:15
92618820017	MW-26D	Water	08/04/22 13:55	08/05/22 14:15
92618820018	MW-28D	Water	08/04/22 09:55	08/05/22 14:15
92618820019	DUP-1	Water	08/04/22 00:00	08/05/22 14:15
92618820020	EB-1	Water	08/04/22 13:30	08/05/22 14:15
92618820021	FB-1	Water	08/04/22 13:15	08/05/22 14:15
92618820022	HGWC-7	Water	08/11/22 14:53	08/12/22 11:25

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92618820001	HGWC-7	EPA 6010D	DRB	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	DMN	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618820002	HGWC-8	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	DMN	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618820003	HGWC-10	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	DMN	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618820004	HGWC-11	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	DMN	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618820005	HGWC-12	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	DMN	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618820006	HGWC-13	EPA 6010D	KH	6
		EPA 6020B	CW1	13

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Lab ID	Sample ID	Method	Analysts	Analytes Reported		
92618820007	MW-5	EPA 7470A	VB	1		
		SM 2540C-2015	BTS	1		
		SM 2320B-2011	DMN	3		
		SM 4500-S2D-2011	JP1	1		
		EPA 300.0 Rev 2.1 1993	CDC	3		
		EPA 6010D	KH	6		
		EPA 6020B	CW1	13		
		EPA 7470A	VB	1		
		SM 2540C-2015	BTS	1		
		SM 2320B-2011	DMN	3		
92618820008	MW-6	SM 4500-S2D-2011	JP1	1		
		EPA 300.0 Rev 2.1 1993	CDC	3		
		EPA 6010D	KH	6		
		EPA 6020B	CW1	13		
		EPA 7470A	VB	1		
		SM 2540C-2015	BTS	1		
		SM 2320B-2011	DMN	3		
		SM 4500-S2D-2011	JP1	1		
		EPA 300.0 Rev 2.1 1993	CDC	3		
		92618820009	MW-24D	EPA 6010D	KH	6
EPA 6020B	CW1			13		
EPA 7470A	VB			1		
SM 2540C-2015	BTS			1		
SM 2320B-2011	DMN			3		
SM 4500-S2D-2011	JP1			1		
EPA 300.0 Rev 2.1 1993	CDC			3		
92618820010	MW-27D			EPA 6010D	KH	6
				EPA 6020B	CW1	13
				EPA 7470A	VB	1
		SM 2540C-2015	BTS	1		
		SM 2320B-2011	DMN	3		
		SM 4500-S2D-2011	JP1	1		
		EPA 300.0 Rev 2.1 1993	CDC	3		
		92618820011	MW-29	EPA 6010D	KH	6
				EPA 6020B	CW1	13
				EPA 7470A	VB	1
SM 2540C-2015	BTS			1		

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92618820012	HGWC-9	SM 2320B-2011	DMN	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	KDF1	3
92618820013	MW-7	SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	KDF1	3
		SM 4500-S2D-2011	JP1	1
92618820014	MW-19	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	KDF1	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92618820015	MW-20	EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	KDF1	3
		SM 4500-S2D-2011	JP1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	6
92618820016	MW-25D	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	KDF1	3
		SM 4500-S2D-2011	JP1	1

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92618820017	MW-26D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	KDF1	3
		SM 4500-S2D-2011	JP1	1
92618820018	MW-28D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	KDF1	3
		SM 4500-S2D-2011	JP1	1
92618820019	DUP-1	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	KDF1	3
		SM 4500-S2D-2011	JP1	1
92618820020	EB-1	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	KDF1	3
		SM 4500-S2D-2011	JP1	1
92618820021	FB-1	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	6
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	KDF1	3
		SM 4500-S2D-2011	JP1	1
92618820022	HGWC-7	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	6

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		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

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-1-Revised Report

Pace Project No.: 92618820

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92618820001</b>	<b>HGWC-7</b>					
	Performed by	Customer			08/05/22 12:47	
	pH	6.93	Std. Units		08/05/22 12:47	
EPA 6010D	Iron	0.17	mg/L	0.040	08/09/22 18:55	
EPA 6010D	Manganese	0.38	mg/L	0.040	08/09/22 18:55	
EPA 6010D	Potassium	3.1	mg/L	0.20	08/09/22 18:55	
EPA 6010D	Sodium	10.3	mg/L	1.0	08/09/22 18:55	
EPA 6010D	Calcium	125	mg/L	1.0	08/09/22 18:55	
EPA 6010D	Magnesium	11.2	mg/L	0.050	08/09/22 18:55	
EPA 6020B	Barium	0.066	mg/L	0.0050	08/11/22 16:10	
EPA 6020B	Boron	1.1	mg/L	0.040	08/11/22 16:10	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	08/11/22 16:10	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	08/11/22 16:10	
EPA 6020B	Molybdenum	0.038	mg/L	0.010	08/11/22 16:10	
SM 2540C-2015	Total Dissolved Solids	441	mg/L	10.0	08/08/22 09:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	182	mg/L	5.0	08/16/22 20:29	
SM 2320B-2011	Alkalinity, Total as CaCO3	182	mg/L	5.0	08/16/22 20:29	
EPA 300.0 Rev 2.1 1993	Chloride	37.9	mg/L	1.0	08/12/22 10:56	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	08/12/22 10:56	
EPA 300.0 Rev 2.1 1993	Sulfate	105	mg/L	2.0	08/12/22 21:53	
<b>92618820002</b>	<b>HGWC-8</b>					
	Performed by	Customer			08/05/22 12:47	
	pH	6.84	Std. Units		08/05/22 12:47	
EPA 6010D	Iron	0.053	mg/L	0.040	08/11/22 13:30	
EPA 6010D	Manganese	0.31	mg/L	0.040	08/11/22 13:30	
EPA 6010D	Potassium	7.7	mg/L	0.20	08/11/22 13:30	
EPA 6010D	Sodium	9.4	mg/L	1.0	08/11/22 13:30	
EPA 6010D	Calcium	153	mg/L	1.0	08/11/22 13:30	M1
EPA 6010D	Magnesium	21.3	mg/L	0.050	08/11/22 13:30	M1
EPA 6020B	Barium	0.060	mg/L	0.0050	08/10/22 17:58	M1
EPA 6020B	Beryllium	0.000056J	mg/L	0.00050	08/10/22 17:58	
EPA 6020B	Boron	1.5	mg/L	0.040	08/10/22 17:58	
EPA 6020B	Cadmium	0.00017J	mg/L	0.00050	08/10/22 17:58	
EPA 6020B	Cobalt	0.0024J	mg/L	0.0050	08/10/22 17:58	
EPA 6020B	Lithium	0.0026J	mg/L	0.030	08/10/22 17:58	
EPA 6020B	Molybdenum	0.29	mg/L	0.010	08/10/22 17:58	M1
EPA 6020B	Thallium	0.00018J	mg/L	0.0010	08/10/22 17:58	
SM 2540C-2015	Total Dissolved Solids	648	mg/L	20.0	08/08/22 09:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	119	mg/L	5.0	08/16/22 20:40	
SM 2320B-2011	Alkalinity, Total as CaCO3	119	mg/L	5.0	08/16/22 20:40	
EPA 300.0 Rev 2.1 1993	Chloride	54.1	mg/L	1.0	08/12/22 12:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.44	mg/L	0.10	08/12/22 12:13	
EPA 300.0 Rev 2.1 1993	Sulfate	241	mg/L	6.0	08/12/22 22:38	
<b>92618820003</b>	<b>HGWC-10</b>					
	Performed by	Customer			08/05/22 12:47	
	pH	6.73	Std. Units		08/05/22 12:47	
EPA 6010D	Potassium	3.2	mg/L	0.20	08/11/22 13:49	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92618820003</b>	<b>HGWC-10</b>					
EPA 6010D	Sodium	8.4	mg/L	1.0	08/11/22 13:49	
EPA 6010D	Calcium	125	mg/L	1.0	08/11/22 13:49	
EPA 6010D	Magnesium	9.0	mg/L	0.050	08/11/22 13:49	
EPA 6020B	Antimony	0.0018J	mg/L	0.0030	08/10/22 18:22	
EPA 6020B	Barium	0.069	mg/L	0.0050	08/10/22 18:22	
EPA 6020B	Boron	0.53	mg/L	0.040	08/10/22 18:22	
EPA 6020B	Molybdenum	0.00079J	mg/L	0.010	08/10/22 18:22	
EPA 6020B	Selenium	0.0017J	mg/L	0.0050	08/10/22 18:22	
SM 2540C-2015	Total Dissolved Solids	433	mg/L	10.0	08/08/22 09:21	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	195	mg/L	5.0	08/16/22 20:49	
SM 2320B-2011	Alkalinity, Total as CaCO3	195	mg/L	5.0	08/16/22 20:49	
EPA 300.0 Rev 2.1 1993	Chloride	12.3	mg/L	1.0	08/12/22 12:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	08/12/22 12:29	
EPA 300.0 Rev 2.1 1993	Sulfate	119	mg/L	3.0	08/12/22 22:54	
<b>92618820004</b>	<b>HGWC-11</b>					
	Performed by	Customer			08/05/22 12:48	
	pH	6.23	Std. Units		08/05/22 12:48	
EPA 6010D	Manganese	0.012J	mg/L	0.040	08/11/22 13:54	
EPA 6010D	Potassium	3.7	mg/L	0.20	08/11/22 13:54	
EPA 6010D	Sodium	5.4	mg/L	1.0	08/11/22 13:54	
EPA 6010D	Calcium	131	mg/L	1.0	08/11/22 13:54	
EPA 6010D	Magnesium	15.5	mg/L	0.050	08/11/22 13:54	
EPA 6020B	Barium	0.041	mg/L	0.0050	08/10/22 18:28	
EPA 6020B	Boron	0.64	mg/L	0.040	08/10/22 18:28	
EPA 6020B	Molybdenum	0.027	mg/L	0.010	08/10/22 18:28	
EPA 6020B	Selenium	0.0057	mg/L	0.0050	08/10/22 18:28	
SM 2540C-2015	Total Dissolved Solids	572	mg/L	20.0	08/08/22 09:21	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	86.6	mg/L	5.0	08/16/22 20:58	
SM 2320B-2011	Alkalinity, Total as CaCO3	86.6	mg/L	5.0	08/16/22 20:58	
EPA 300.0 Rev 2.1 1993	Chloride	13.8	mg/L	1.0	08/12/22 12:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	08/12/22 12:44	
EPA 300.0 Rev 2.1 1993	Sulfate	254	mg/L	6.0	08/12/22 23:09	
<b>92618820005</b>	<b>HGWC-12</b>					
	Performed by	Customer			08/05/22 12:48	
	pH	7.13	Std. Units		08/05/22 12:48	
EPA 6010D	Iron	0.045	mg/L	0.040	08/11/22 13:58	
EPA 6010D	Manganese	1.6	mg/L	0.040	08/11/22 13:58	
EPA 6010D	Potassium	7.5	mg/L	0.20	08/11/22 13:58	
EPA 6010D	Sodium	8.4	mg/L	1.0	08/11/22 13:58	
EPA 6010D	Calcium	167	mg/L	1.0	08/11/22 13:58	
EPA 6010D	Magnesium	16.9	mg/L	0.050	08/11/22 13:58	
EPA 6020B	Arsenic	0.0023J	mg/L	0.0050	08/10/22 18:34	
EPA 6020B	Barium	0.086	mg/L	0.0050	08/10/22 18:34	
EPA 6020B	Boron	1.5	mg/L	0.040	08/10/22 18:34	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	08/10/22 18:34	
EPA 6020B	Lithium	0.0068J	mg/L	0.030	08/10/22 18:34	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92618820005</b>	<b>HGWC-12</b>					
EPA 6020B	Molybdenum	0.047	mg/L	0.010	08/10/22 18:34	
SM 2540C-2015	Total Dissolved Solids	650	mg/L	20.0	08/08/22 09:21	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	175	mg/L	5.0	08/16/22 21:05	
SM 2320B-2011	Alkalinity, Total as CaCO3	175	mg/L	5.0	08/16/22 21:05	
EPA 300.0 Rev 2.1 1993	Chloride	39.2	mg/L	1.0	08/12/22 12:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.21	mg/L	0.10	08/12/22 12:59	
EPA 300.0 Rev 2.1 1993	Sulfate	236	mg/L	6.0	08/12/22 23:24	
<b>92618820006</b>	<b>HGWC-13</b>					
	Performed by	Customer			08/05/22 12:48	
	pH	7.09	Std. Units		08/05/22 12:48	
EPA 6010D	Iron	1.8	mg/L	0.040	08/11/22 14:03	
EPA 6010D	Manganese	2.9	mg/L	0.040	08/11/22 14:03	
EPA 6010D	Potassium	4.6	mg/L	0.20	08/11/22 14:03	
EPA 6010D	Sodium	5.4	mg/L	1.0	08/11/22 14:03	
EPA 6010D	Calcium	237	mg/L	1.0	08/11/22 14:03	
EPA 6010D	Magnesium	21.3	mg/L	0.050	08/11/22 14:03	
EPA 6020B	Arsenic	0.40	mg/L	0.0050	08/10/22 18:40	
EPA 6020B	Barium	0.070	mg/L	0.0050	08/10/22 18:40	
EPA 6020B	Boron	0.76	mg/L	0.040	08/10/22 18:40	
EPA 6020B	Cobalt	0.0041J	mg/L	0.0050	08/10/22 18:40	
EPA 6020B	Lithium	0.029J	mg/L	0.030	08/10/22 18:40	
EPA 6020B	Molybdenum	0.035	mg/L	0.010	08/10/22 18:40	
SM 2540C-2015	Total Dissolved Solids	958	mg/L	20.0	08/08/22 09:21	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	143	mg/L	5.0	08/16/22 21:16	
SM 2320B-2011	Alkalinity, Total as CaCO3	143	mg/L	5.0	08/16/22 21:16	
EPA 300.0 Rev 2.1 1993	Chloride	13.0	mg/L	1.0	08/12/22 13:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.55	mg/L	0.10	08/12/22 13:15	
EPA 300.0 Rev 2.1 1993	Sulfate	451	mg/L	11.0	08/12/22 23:39	
<b>92618820007</b>	<b>MW-5</b>					
	Performed by	Customer			08/05/22 12:48	
	pH	5.96	Std. Units		08/05/22 12:48	
EPA 6010D	Manganese	0.0086J	mg/L	0.040	08/11/22 14:28	
EPA 6010D	Potassium	0.90	mg/L	0.20	08/11/22 14:28	
EPA 6010D	Sodium	16.8	mg/L	1.0	08/11/22 14:28	
EPA 6010D	Calcium	86.6	mg/L	1.0	08/11/22 14:28	
EPA 6010D	Magnesium	10.3	mg/L	0.050	08/11/22 14:28	
EPA 6020B	Barium	0.058	mg/L	0.0050	08/10/22 18:58	
EPA 6020B	Boron	0.034J	mg/L	0.040	08/10/22 18:58	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	08/10/22 18:58	
EPA 6020B	Selenium	0.0032J	mg/L	0.0050	08/10/22 18:58	
SM 2540C-2015	Total Dissolved Solids	391	mg/L	10.0	08/08/22 09:21	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	125	mg/L	5.0	08/16/22 21:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	125	mg/L	5.0	08/16/22 21:26	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	08/12/22 13:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	08/12/22 13:30	
EPA 300.0 Rev 2.1 1993	Sulfate	135	mg/L	3.0	08/12/22 23:54	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92618820008</b>	<b>MW-6</b>					
	Performed by	Customer			08/05/22 12:48	
	pH	6.41	Std. Units		08/05/22 12:48	
EPA 6010D	Iron	0.51	mg/L	0.040	08/11/22 14:33	
EPA 6010D	Manganese	0.51	mg/L	0.040	08/11/22 14:33	
EPA 6010D	Potassium	1.3	mg/L	0.20	08/11/22 14:33	
EPA 6010D	Sodium	12.1	mg/L	1.0	08/11/22 14:33	
EPA 6010D	Calcium	176	mg/L	1.0	08/11/22 14:33	
EPA 6010D	Magnesium	14.4	mg/L	0.050	08/11/22 14:33	
EPA 6020B	Barium	0.084	mg/L	0.0050	08/10/22 19:03	
EPA 6020B	Boron	0.75	mg/L	0.040	08/10/22 19:03	
EPA 6020B	Cobalt	0.00041J	mg/L	0.0050	08/10/22 19:03	
EPA 6020B	Molybdenum	0.0028J	mg/L	0.010	08/10/22 19:03	
SM 2540C-2015	Total Dissolved Solids	666	mg/L	20.0	08/08/22 09:22	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	239	mg/L	5.0	08/16/22 21:36	
SM 2320B-2011	Alkalinity, Total as CaCO3	239	mg/L	5.0	08/16/22 21:36	
EPA 300.0 Rev 2.1 1993	Chloride	39.6	mg/L	1.0	08/12/22 13:46	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	08/12/22 13:46	
EPA 300.0 Rev 2.1 1993	Sulfate	190	mg/L	4.0	08/13/22 00:40	
<b>92618820009</b>	<b>MW-24D</b>					
	Performed by	Customer			08/05/22 12:49	
	pH	7.59	Std. Units		08/05/22 12:49	
EPA 6010D	Manganese	0.031J	mg/L	0.040	08/11/22 14:38	
EPA 6010D	Potassium	0.51	mg/L	0.20	08/11/22 14:38	
EPA 6010D	Sodium	11.8	mg/L	1.0	08/11/22 14:38	
EPA 6010D	Calcium	102	mg/L	1.0	08/11/22 14:38	
EPA 6010D	Magnesium	5.7	mg/L	0.050	08/11/22 14:38	
EPA 6020B	Barium	0.053	mg/L	0.0050	08/10/22 19:09	
EPA 6020B	Boron	0.49	mg/L	0.040	08/10/22 19:09	
EPA 6020B	Lithium	0.0024J	mg/L	0.030	08/10/22 19:09	
EPA 6020B	Molybdenum	0.00095J	mg/L	0.010	08/10/22 19:09	
SM 2540C-2015	Total Dissolved Solids	415	mg/L	10.0	08/08/22 09:22	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	93.8	mg/L	5.0	08/16/22 21:44	
SM 2320B-2011	Alkalinity, Total as CaCO3	93.8	mg/L	5.0	08/16/22 21:44	
EPA 300.0 Rev 2.1 1993	Chloride	39.6	mg/L	1.0	08/12/22 14:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.075J	mg/L	0.10	08/12/22 14:01	
EPA 300.0 Rev 2.1 1993	Sulfate	135	mg/L	3.0	08/13/22 00:55	
<b>92618820010</b>	<b>MW-27D</b>					
	Performed by	Customer			08/05/22 12:49	
	pH	7.40	Std. Units		08/05/22 12:49	
EPA 6010D	Iron	0.30	mg/L	0.040	08/11/22 14:43	
EPA 6010D	Manganese	0.11	mg/L	0.040	08/11/22 14:43	
EPA 6010D	Potassium	0.93	mg/L	0.20	08/11/22 14:43	
EPA 6010D	Sodium	31.2	mg/L	1.0	08/11/22 14:43	
EPA 6010D	Calcium	30.8	mg/L	1.0	08/11/22 14:43	
EPA 6010D	Magnesium	20.1	mg/L	0.050	08/11/22 14:43	
EPA 6020B	Barium	0.94	mg/L	0.025	08/12/22 13:15	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92618820010</b>	<b>MW-27D</b>					
EPA 6020B	Boron	0.12	mg/L	0.040	08/10/22 19:15	
EPA 6020B	Lithium	0.0063J	mg/L	0.030	08/10/22 19:15	
EPA 6020B	Molybdenum	0.0020J	mg/L	0.010	08/10/22 19:15	
SM 2540C-2015	Total Dissolved Solids	230	mg/L	10.0	08/08/22 09:22	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	163	mg/L	5.0	08/16/22 21:52	
SM 2320B-2011	Alkalinity, Total as CaCO3	163	mg/L	5.0	08/16/22 21:52	
EPA 300.0 Rev 2.1 1993	Chloride	36.7	mg/L	1.0	08/12/22 14:17	
EPA 300.0 Rev 2.1 1993	Fluoride	0.27	mg/L	0.10	08/12/22 14:17	
EPA 300.0 Rev 2.1 1993	Sulfate	9.5	mg/L	1.0	08/12/22 14:17	
<b>92618820011</b>	<b>MW-29</b>					
	Performed by	Customer			08/05/22 12:49	
	pH	6.87	Std. Units		08/05/22 12:49	
EPA 6010D	Iron	0.065	mg/L	0.040	08/11/22 14:48	
EPA 6010D	Manganese	1.5	mg/L	0.040	08/11/22 14:48	
EPA 6010D	Potassium	1.3	mg/L	0.20	08/11/22 14:48	
EPA 6010D	Sodium	12.1	mg/L	1.0	08/11/22 14:48	
EPA 6010D	Calcium	143	mg/L	1.0	08/11/22 14:48	
EPA 6010D	Magnesium	12.7	mg/L	0.050	08/11/22 14:48	
EPA 6020B	Barium	0.081	mg/L	0.0050	08/10/22 19:21	
EPA 6020B	Boron	1.1	mg/L	0.040	08/10/22 19:21	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	08/10/22 19:21	
EPA 6020B	Lithium	0.0018J	mg/L	0.030	08/10/22 19:21	
EPA 6020B	Molybdenum	0.0032J	mg/L	0.010	08/10/22 19:21	
SM 2540C-2015	Total Dissolved Solids	538	mg/L	20.0	08/08/22 09:22	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	177	mg/L	5.0	08/16/22 22:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	177	mg/L	5.0	08/16/22 22:12	
EPA 300.0 Rev 2.1 1993	Chloride	63.5	mg/L	1.0	08/12/22 15:03	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.069J	mg/L	0.10	08/12/22 15:03	
EPA 300.0 Rev 2.1 1993	Sulfate	140	mg/L	3.0	08/13/22 01:10	
<b>92618820012</b>	<b>HGWC-9</b>					
	Performed by	Customer			08/08/22 10:22	
	pH	7.03	Std. Units		08/08/22 10:22	
EPA 6010D	Iron	0.13	mg/L	0.040	08/11/22 17:16	
EPA 6010D	Manganese	0.42	mg/L	0.040	08/11/22 17:16	
EPA 6010D	Potassium	3.5	mg/L	0.20	08/11/22 17:16	
EPA 6010D	Sodium	13.3	mg/L	1.0	08/11/22 17:16	
EPA 6010D	Calcium	196	mg/L	1.0	08/11/22 17:16	
EPA 6010D	Magnesium	19.2	mg/L	0.050	08/11/22 17:16	
EPA 6020B	Barium	0.091	mg/L	0.0050	08/11/22 18:13	
EPA 6020B	Boron	2.0	mg/L	0.040	08/11/22 18:13	
EPA 6020B	Cobalt	0.00046J	mg/L	0.0050	08/11/22 18:13	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	08/11/22 18:13	
EPA 6020B	Molybdenum	0.033	mg/L	0.010	08/11/22 18:13	
SM 2540C-2015	Total Dissolved Solids	760	mg/L	20.0	08/09/22 10:03	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	185	mg/L	5.0	08/17/22 13:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	185	mg/L	5.0	08/17/22 13:20	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1-Revised Report

Lab Project No.: 92618820

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92618820012</b>	<b>HGWC-9</b>					
EPA 300.0 Rev 2.1 1993	Chloride	86.8	mg/L	1.0	08/17/22 12:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	08/17/22 12:13	
EPA 300.0 Rev 2.1 1993	Sulfate	243	mg/L	5.0	08/18/22 02:51	
<b>92618820013</b>	<b>MW-7</b>					
	Performed by	Customer			08/08/22 10:23	
	pH	6.47	Std. Units		08/08/22 10:23	
EPA 6010D	Potassium	0.74	mg/L	0.20	08/11/22 17:21	
EPA 6010D	Sodium	7.4	mg/L	1.0	08/11/22 17:21	
EPA 6010D	Calcium	73.1	mg/L	1.0	08/11/22 17:21	
EPA 6010D	Magnesium	7.2	mg/L	0.050	08/11/22 17:21	
EPA 6020B	Barium	0.064	mg/L	0.0050	08/11/22 18:19	
EPA 6020B	Boron	0.14	mg/L	0.040	08/11/22 18:19	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	08/11/22 18:19	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	08/11/22 18:19	
SM 2540C-2015	Total Dissolved Solids	246	mg/L	10.0	08/09/22 10:04	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	139	mg/L	5.0	08/17/22 13:32	
SM 2320B-2011	Alkalinity, Total as CaCO3	139	mg/L	5.0	08/17/22 13:32	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	08/17/22 12:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.078J	mg/L	0.10	08/17/22 12:28	
EPA 300.0 Rev 2.1 1993	Sulfate	76.0	mg/L	1.0	08/17/22 12:28	
<b>92618820014</b>	<b>MW-19</b>					
	Performed by	Customer			08/08/22 10:23	
	pH	6.32	Std. Units		08/08/22 10:23	
EPA 6010D	Manganese	5.0	mg/L	0.040	08/11/22 17:26	
EPA 6010D	Potassium	3.8	mg/L	0.20	08/11/22 17:26	
EPA 6010D	Sodium	5.9	mg/L	1.0	08/11/22 17:26	
EPA 6010D	Calcium	187	mg/L	1.0	08/11/22 17:26	
EPA 6010D	Magnesium	18.7	mg/L	0.050	08/11/22 17:26	
EPA 6020B	Barium	0.050	mg/L	0.0050	08/11/22 18:25	
EPA 6020B	Boron	0.58	mg/L	0.040	08/11/22 18:25	
EPA 6020B	Cadmium	0.00022J	mg/L	0.00050	08/11/22 18:25	
EPA 6020B	Cobalt	0.043	mg/L	0.0050	08/11/22 18:25	
EPA 6020B	Lithium	0.013J	mg/L	0.030	08/11/22 18:25	
EPA 6020B	Molybdenum	0.039	mg/L	0.010	08/11/22 18:25	
EPA 6020B	Selenium	0.0022J	mg/L	0.0050	08/11/22 18:25	
EPA 6020B	Thallium	0.00026J	mg/L	0.0010	08/11/22 18:25	
SM 2540C-2015	Total Dissolved Solids	762	mg/L	20.0	08/09/22 10:05	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	112	mg/L	5.0	08/17/22 13:42	
SM 2320B-2011	Alkalinity, Total as CaCO3	112	mg/L	5.0	08/17/22 13:42	
EPA 300.0 Rev 2.1 1993	Chloride	11.3	mg/L	1.0	08/17/22 12:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.18	mg/L	0.10	08/17/22 12:43	
EPA 300.0 Rev 2.1 1993	Sulfate	412	mg/L	8.0	08/18/22 03:06	
<b>92618820015</b>	<b>MW-20</b>					
	Performed by	Customer			08/08/22 10:24	
	pH	6.96	Std. Units		08/08/22 10:24	
EPA 6010D	Iron	2.7	mg/L	0.040	08/11/22 17:31	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92618820015</b>	<b>MW-20</b>					
EPA 6010D	Manganese	0.14	mg/L	0.040	08/11/22 17:31	
EPA 6010D	Potassium	0.29	mg/L	0.20	08/11/22 17:31	
EPA 6010D	Sodium	12.2	mg/L	1.0	08/11/22 17:31	
EPA 6010D	Calcium	131	mg/L	1.0	08/11/22 17:31	
EPA 6010D	Magnesium	9.9	mg/L	0.050	08/11/22 17:31	
EPA 6020B	Barium	0.093	mg/L	0.0050	08/11/22 18:31	
EPA 6020B	Boron	0.11	mg/L	0.040	08/11/22 18:31	
EPA 6020B	Lithium	0.00075J	mg/L	0.030	08/11/22 18:31	
SM 2540C-2015	Total Dissolved Solids	431	mg/L	10.0	08/09/22 10:05	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	228	mg/L	5.0	08/17/22 20:03	
SM 2320B-2011	Alkalinity, Total as CaCO3	228	mg/L	5.0	08/17/22 20:03	
EPA 300.0 Rev 2.1 1993	Chloride	31.4	mg/L	1.0	08/17/22 13:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.074J	mg/L	0.10	08/17/22 13:28	
EPA 300.0 Rev 2.1 1993	Sulfate	110	mg/L	2.0	08/18/22 04:50	
<b>92618820016</b>	<b>MW-25D</b>					
	Performed by	Customer			08/08/22 10:25	
	pH	7.66	Std. Units		08/08/22 10:25	
EPA 6010D	Iron	0.23	mg/L	0.040	08/11/22 17:36	
EPA 6010D	Manganese	0.022J	mg/L	0.040	08/11/22 17:36	
EPA 6010D	Potassium	0.45	mg/L	0.20	08/11/22 17:36	
EPA 6010D	Sodium	104	mg/L	1.0	08/11/22 17:36	
EPA 6010D	Calcium	22.0	mg/L	1.0	08/11/22 17:36	
EPA 6010D	Magnesium	9.8	mg/L	0.050	08/11/22 17:36	
EPA 6020B	Barium	0.75	mg/L	0.0050	08/11/22 18:37	
EPA 6020B	Boron	0.35	mg/L	0.040	08/11/22 18:37	
EPA 6020B	Lithium	0.040	mg/L	0.030	08/11/22 18:37	
SM 2540C-2015	Total Dissolved Solids	302	mg/L	10.0	08/09/22 10:05	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	302	mg/L	5.0	08/17/22 20:11	
SM 2320B-2011	Alkalinity, Total as CaCO3	302	mg/L	5.0	08/17/22 20:11	
SM 4500-S2D-2011	Sulfide	0.17	mg/L	0.10	08/10/22 04:09	
EPA 300.0 Rev 2.1 1993	Chloride	20.5	mg/L	1.0	08/17/22 13:43	
EPA 300.0 Rev 2.1 1993	Fluoride	1.5	mg/L	0.10	08/17/22 13:43	
EPA 300.0 Rev 2.1 1993	Sulfate	0.97J	mg/L	1.0	08/17/22 13:43	
<b>92618820017</b>	<b>MW-26D</b>					
	Performed by	Customer			08/08/22 10:25	
	pH	7.08	Std. Units		08/08/22 10:25	
EPA 6010D	Iron	0.21	mg/L	0.040	08/11/22 17:41	
EPA 6010D	Manganese	0.30	mg/L	0.040	08/11/22 17:41	
EPA 6010D	Potassium	2.9	mg/L	0.20	08/11/22 17:41	
EPA 6010D	Sodium	12.6	mg/L	1.0	08/11/22 17:41	
EPA 6010D	Calcium	186	mg/L	1.0	08/11/22 17:41	
EPA 6010D	Magnesium	18.3	mg/L	0.050	08/11/22 17:41	
EPA 6020B	Barium	0.062	mg/L	0.0050	08/11/22 18:43	
EPA 6020B	Boron	2.0	mg/L	0.040	08/11/22 18:43	
EPA 6020B	Cobalt	0.00048J	mg/L	0.0050	08/11/22 18:43	
EPA 6020B	Lithium	0.0033J	mg/L	0.030	08/11/22 18:43	

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92618820017</b>	<b>MW-26D</b>					
EPA 6020B	Molybdenum	0.028	mg/L	0.010	08/11/22 18:43	
SM 2540C-2015	Total Dissolved Solids	788	mg/L	20.0	08/09/22 10:05	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	184	mg/L	5.0	08/17/22 14:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	184	mg/L	5.0	08/17/22 14:06	
EPA 300.0 Rev 2.1 1993	Chloride	88.5	mg/L	1.0	08/17/22 13:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	08/17/22 13:58	
EPA 300.0 Rev 2.1 1993	Sulfate	239	mg/L	5.0	08/18/22 05:05	
<b>92618820018</b>	<b>MW-28D</b>					
	Performed by	Customer			08/08/22 10:26	
	pH	7.38	Std. Units		08/08/22 10:26	
EPA 6010D	Iron	0.11	mg/L	0.040	08/11/22 17:46	
EPA 6010D	Manganese	0.18	mg/L	0.040	08/11/22 17:46	
EPA 6010D	Potassium	1.3	mg/L	0.20	08/11/22 17:46	
EPA 6010D	Sodium	13.9	mg/L	1.0	08/11/22 17:46	
EPA 6010D	Calcium	76.7	mg/L	1.0	08/11/22 17:46	
EPA 6010D	Magnesium	26.0	mg/L	0.050	08/11/22 17:46	
EPA 6020B	Barium	0.70	mg/L	0.0050	08/11/22 18:49	
EPA 6020B	Boron	0.55	mg/L	0.040	08/11/22 18:49	
EPA 6020B	Lithium	0.0088J	mg/L	0.030	08/11/22 18:49	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	08/11/22 18:49	
SM 2540C-2015	Total Dissolved Solids	378	mg/L	10.0	08/09/22 10:07	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	220	mg/L	5.0	08/17/22 20:19	
SM 2320B-2011	Alkalinity, Total as CaCO3	220	mg/L	5.0	08/17/22 20:19	
SM 4500-S2D-2011	Sulfide	3.9	mg/L	1.0	08/10/22 04:49	M1
EPA 300.0 Rev 2.1 1993	Chloride	33.3	mg/L	1.0	08/17/22 14:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	08/17/22 14:12	
EPA 300.0 Rev 2.1 1993	Sulfate	80.5	mg/L	1.0	08/17/22 14:12	
<b>92618820019</b>	<b>DUP-1</b>					
EPA 6010D	Potassium	0.75	mg/L	0.20	08/11/22 17:50	
EPA 6010D	Sodium	7.3	mg/L	1.0	08/11/22 17:50	
EPA 6010D	Calcium	76.9	mg/L	1.0	08/11/22 17:50	
EPA 6010D	Magnesium	7.5	mg/L	0.050	08/11/22 17:50	
EPA 6020B	Barium	0.059	mg/L	0.0050	08/11/22 19:06	
EPA 6020B	Boron	0.15	mg/L	0.040	08/11/22 19:06	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	08/11/22 19:06	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	08/11/22 19:06	
SM 2540C-2015	Total Dissolved Solids	268	mg/L	10.0	08/09/22 10:07	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	149	mg/L	5.0	08/17/22 14:26	
SM 2320B-2011	Alkalinity, Total as CaCO3	149	mg/L	5.0	08/17/22 14:26	
EPA 300.0 Rev 2.1 1993	Chloride	5.3	mg/L	1.0	08/17/22 14:57	
EPA 300.0 Rev 2.1 1993	Fluoride	0.082J	mg/L	0.10	08/17/22 14:57	
EPA 300.0 Rev 2.1 1993	Sulfate	81.8	mg/L	1.0	08/17/22 14:57	
<b>92618820022</b>	<b>HGWC-7</b>					
	Performed by	Customer			08/12/22 15:35	
	pH	7.07	Std. Units		08/12/22 15:35	
EPA 6010D	Potassium	3.1	mg/L	0.20	08/19/22 12:27	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92618820022</b>	<b>HGWC-7</b>					
EPA 6010D	Sodium	9.7	mg/L	1.0	08/19/22 12:27	
EPA 6010D	Iron	0.11	mg/L	0.040	08/18/22 20:58	
EPA 6010D	Manganese	0.36	mg/L	0.040	08/18/22 20:58	
EPA 6010D	Calcium	119	mg/L	1.0	08/18/22 20:58	
EPA 6010D	Magnesium	10.5	mg/L	0.050	08/18/22 20:58	
EPA 6020B	Barium	0.071	mg/L	0.0050	08/26/22 15:02	
EPA 6020B	Boron	1.1	mg/L	0.20	08/27/22 14:16	
EPA 6020B	Cobalt	0.0018J	mg/L	0.0050	08/26/22 15:02	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	08/26/22 15:02	
EPA 6020B	Molybdenum	0.044	mg/L	0.010	08/26/22 15:02	
SM 2540C-2015	Total Dissolved Solids	445	mg/L	10.0	08/15/22 11:27	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	184	mg/L	5.0	08/22/22 15:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	184	mg/L	5.0	08/22/22 15:20	
EPA 300.0 Rev 2.1 1993	Chloride	37.7	mg/L	1.0	08/21/22 05:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	08/21/22 05:29	
EPA 300.0 Rev 2.1 1993	Sulfate	121	mg/L	2.0	08/21/22 11:02	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: <b>HGWC-7</b>		Lab ID: <b>92618820001</b>		Collected: 08/03/22 16:12	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/05/22 12:47		
pH	<b>6.93</b>	Std. Units			1		08/05/22 12:47		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.17</b>	mg/L	0.040	0.025	1	08/09/22 11:41	08/09/22 18:55	7439-89-6	
Manganese	<b>0.38</b>	mg/L	0.040	0.0043	1	08/09/22 11:41	08/09/22 18:55	7439-96-5	
Potassium	<b>3.1</b>	mg/L	0.20	0.15	1	08/09/22 11:41	08/09/22 18:55	7440-09-7	
Sodium	<b>10.3</b>	mg/L	1.0	0.58	1	08/09/22 11:41	08/09/22 18:55	7440-23-5	
Calcium	<b>125</b>	mg/L	1.0	0.12	1	08/09/22 11:41	08/09/22 18:55	7440-70-2	
Magnesium	<b>11.2</b>	mg/L	0.050	0.012	1	08/09/22 11:41	08/09/22 18:55	7439-95-4	
<b>6020 MET ICPMS</b>									
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 14:18	08/11/22 16:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:18	08/11/22 16:10	7440-38-2	
Barium	<b>0.066</b>	mg/L	0.0050	0.00067	1	08/09/22 14:18	08/11/22 16:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:18	08/11/22 16:10	7440-41-7	
Boron	<b>1.1</b>	mg/L	0.040	0.0086	1	08/09/22 14:18	08/11/22 16:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:18	08/11/22 16:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:18	08/11/22 16:10	7440-47-3	
Cobalt	<b>0.0015J</b>	mg/L	0.0050	0.00039	1	08/09/22 14:18	08/11/22 16:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:18	08/11/22 16:10	7439-92-1	
Lithium	<b>0.0019J</b>	mg/L	0.030	0.00073	1	08/09/22 14:18	08/11/22 16:10	7439-93-2	
Molybdenum	<b>0.038</b>	mg/L	0.010	0.00074	1	08/09/22 14:18	08/11/22 16:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/09/22 14:18	08/11/22 16:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:18	08/11/22 16:10	7440-28-0	
<b>7470 Mercury</b>									
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 10:42	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>441</b>	mg/L	10.0	10.0	1		08/08/22 09:18		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>182</b>	mg/L	5.0	5.0	1		08/16/22 20:29		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/16/22 20:29		
Alkalinity, Total as CaCO <sub>3</sub>	<b>182</b>	mg/L	5.0	5.0	1		08/16/22 20:29		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: <b>HGWC-7</b> Lab ID: <b>92618820001</b> Collected: 08/03/22 16:12      Received: 08/04/22 12:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>									
Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:48	18496-25-8	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>37.9</b>	mg/L	1.0	0.60	1		08/12/22 10:56	16887-00-6	M1
Fluoride	<b>0.11</b>	mg/L	0.10	0.050	1		08/12/22 10:56	16984-48-8	
Sulfate	<b>105</b>	mg/L	2.0	1.0	2		08/12/22 21:53	14808-79-8	

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: <b>HGWC-8</b> Lab ID: <b>92618820002</b> Collected: 08/03/22 09:15 Received: 08/04/22 12:30 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/05/22 12:47		
pH	<b>6.84</b>	Std. Units			1		08/05/22 12:47		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.053</b>	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 13:30	7439-89-6	
Manganese	<b>0.31</b>	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 13:30	7439-96-5	
Potassium	<b>7.7</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 13:30	7440-09-7	
Sodium	<b>9.4</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 13:30	7440-23-5	
Calcium	<b>153</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 13:30	7440-70-2	M1
Magnesium	<b>21.3</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 13:30	7439-95-4	M1
<b>6020 MET ICPMS</b>									
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 17:58	7440-36-0	M1
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 17:58	7440-38-2	
Barium	<b>0.060</b>	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 17:58	7440-39-3	M1
Beryllium	<b>0.000056J</b>	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 17:58	7440-41-7	
Boron	<b>1.5</b>	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 17:58	7440-42-8	
Cadmium	<b>0.00017J</b>	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 17:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 17:58	7440-47-3	
Cobalt	<b>0.0024J</b>	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 17:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 17:58	7439-92-1	
Lithium	<b>0.0026J</b>	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 17:58	7439-93-2	
Molybdenum	<b>0.29</b>	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 17:58	7439-98-7	M1
Selenium	ND	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 17:58	7782-49-2	
Thallium	<b>0.00018J</b>	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 17:58	7440-28-0	
<b>7470 Mercury</b>									
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 10:53	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>648</b>	mg/L	20.0	20.0	1		08/08/22 09:18		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>119</b>	mg/L	5.0	5.0	1		08/16/22 20:40		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/16/22 20:40		
Alkalinity, Total as CaCO <sub>3</sub>	<b>119</b>	mg/L	5.0	5.0	1		08/16/22 20:40		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: <b>HGWC-8</b>		Lab ID: <b>92618820002</b>		Collected: 08/03/22 09:15	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:48	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>54.1</b>	mg/L	1.0	0.60	1		08/12/22 12:13	16887-00-6	
Fluoride	<b>0.44</b>	mg/L	0.10	0.050	1		08/12/22 12:13	16984-48-8	
Sulfate	<b>241</b>	mg/L	6.0	3.0	6		08/12/22 22:38	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: <b>HGWC-10</b>		Lab ID: <b>92618820003</b>		Collected: 08/03/22 14:02		Received: 08/04/22 12:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/05/22 12:47		
pH	<b>6.73</b>	Std. Units			1		08/05/22 12:47		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 13:49	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 13:49	7439-96-5	
Potassium	<b>3.2</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 13:49	7440-09-7	
Sodium	<b>8.4</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 13:49	7440-23-5	
Calcium	<b>125</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 13:49	7440-70-2	
Magnesium	<b>9.0</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 13:49	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.0018J</b>	mg/L	0.0030	0.00078	1	08/09/22 14:37	08/10/22 18:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 18:22	7440-38-2	
Barium	<b>0.069</b>	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 18:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 18:22	7440-41-7	
Boron	<b>0.53</b>	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 18:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 18:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 18:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 18:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 18:22	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 18:22	7439-93-2	
Molybdenum	<b>0.00079J</b>	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 18:22	7439-98-7	
Selenium	<b>0.0017J</b>	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 18:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 18:22	7440-28-0	
<b>7470 Mercury</b>									
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 10:56	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>433</b>	mg/L	10.0	10.0	1		08/08/22 09:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>195</b>	mg/L	5.0	5.0	1		08/16/22 20:49		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/16/22 20:49		
Alkalinity, Total as CaCO <sub>3</sub>	<b>195</b>	mg/L	5.0	5.0	1		08/16/22 20:49		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: <b>HGWC-10</b>		Lab ID: <b>92618820003</b>		Collected: 08/03/22 14:02	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:48	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>12.3</b>	mg/L	1.0	0.60	1		08/12/22 12:29	16887-00-6	
Fluoride	<b>0.13</b>	mg/L	0.10	0.050	1		08/12/22 12:29	16984-48-8	
Sulfate	<b>119</b>	mg/L	3.0	1.5	3		08/12/22 22:54	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: HGWC-11		Lab ID: 92618820004		Collected: 08/03/22 09:48		Received: 08/04/22 12:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/05/22 12:48		
pH	<b>6.23</b>	Std. Units			1		08/05/22 12:48		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 13:54	7439-89-6	
Manganese	<b>0.012J</b>	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 13:54	7439-96-5	
Potassium	<b>3.7</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 13:54	7440-09-7	
Sodium	<b>5.4</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 13:54	7440-23-5	
Calcium	<b>131</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 13:54	7440-70-2	
Magnesium	<b>15.5</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 13:54	7439-95-4	
<b>6020 MET ICPMS</b>									
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 18:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 18:28	7440-38-2	
Barium	<b>0.041</b>	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 18:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 18:28	7440-41-7	
Boron	<b>0.64</b>	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 18:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 18:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 18:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 18:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 18:28	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 18:28	7439-93-2	
Molybdenum	<b>0.027</b>	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 18:28	7439-98-7	
Selenium	<b>0.0057</b>	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 18:28	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 18:28	7440-28-0	
<b>7470 Mercury</b>									
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 11:04	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>572</b>	mg/L	20.0	20.0	1		08/08/22 09:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>86.6</b>	mg/L	5.0	5.0	1		08/16/22 20:58		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/16/22 20:58		
Alkalinity, Total as CaCO <sub>3</sub>	<b>86.6</b>	mg/L	5.0	5.0	1		08/16/22 20:58		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: <b>HGWC-11</b>		Lab ID: <b>92618820004</b>		Collected: 08/03/22 09:48	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:49	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>13.8</b>	mg/L	1.0	0.60	1		08/12/22 12:44	16887-00-6	
Fluoride	<b>0.22</b>	mg/L	0.10	0.050	1		08/12/22 12:44	16984-48-8	
Sulfate	<b>254</b>	mg/L	6.0	3.0	6		08/12/22 23:09	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: HGWC-12		Lab ID: 92618820005		Collected: 08/03/22 11:34		Received: 08/04/22 12:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/05/22 12:48		
pH	<b>7.13</b>	Std. Units			1		08/05/22 12:48		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.045</b>	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 13:58	7439-89-6	
Manganese	<b>1.6</b>	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 13:58	7439-96-5	
Potassium	<b>7.5</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 13:58	7440-09-7	
Sodium	<b>8.4</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 13:58	7440-23-5	
Calcium	<b>167</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 13:58	7440-70-2	
Magnesium	<b>16.9</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 13:58	7439-95-4	
<b>6020 MET ICPMS</b>									
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 18:34	7440-36-0	
Arsenic	<b>0.0023J</b>	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 18:34	7440-38-2	
Barium	<b>0.086</b>	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 18:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 18:34	7440-41-7	
Boron	<b>1.5</b>	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 18:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 18:34	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 18:34	7440-47-3	
Cobalt	<b>0.0012J</b>	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 18:34	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 18:34	7439-92-1	
Lithium	<b>0.0068J</b>	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 18:34	7439-93-2	
Molybdenum	<b>0.047</b>	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 18:34	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 18:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 18:34	7440-28-0	
<b>7470 Mercury</b>									
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 11:06	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>650</b>	mg/L	20.0	20.0	1		08/08/22 09:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>175</b>	mg/L	5.0	5.0	1		08/16/22 21:05		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/16/22 21:05		
Alkalinity, Total as CaCO <sub>3</sub>	<b>175</b>	mg/L	5.0	5.0	1		08/16/22 21:05		

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: <b>HGWC-12</b>		Lab ID: <b>92618820005</b>		Collected: 08/03/22 11:34	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:49	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>39.2</b>	mg/L	1.0	0.60	1		08/12/22 12:59	16887-00-6	
Fluoride	<b>0.21</b>	mg/L	0.10	0.050	1		08/12/22 12:59	16984-48-8	
Sulfate	<b>236</b>	mg/L	6.0	3.0	6		08/12/22 23:24	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: <b>HGWC-13</b>		Lab ID: <b>92618820006</b>		Collected: 08/03/22 11:25		Received: 08/04/22 12:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/05/22 12:48		
pH	<b>7.09</b>	Std. Units			1		08/05/22 12:48		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>1.8</b>	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 14:03	7439-89-6	
Manganese	<b>2.9</b>	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 14:03	7439-96-5	
Potassium	<b>4.6</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 14:03	7440-09-7	
Sodium	<b>5.4</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 14:03	7440-23-5	
Calcium	<b>237</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 14:03	7440-70-2	
Magnesium	<b>21.3</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 14:03	7439-95-4	
<b>6020 MET ICPMS</b>									
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 18:40	7440-36-0	
Arsenic	<b>0.40</b>	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 18:40	7440-38-2	
Barium	<b>0.070</b>	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 18:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 18:40	7440-41-7	
Boron	<b>0.76</b>	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 18:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 18:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 18:40	7440-47-3	
Cobalt	<b>0.0041J</b>	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 18:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 18:40	7439-92-1	
Lithium	<b>0.029J</b>	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 18:40	7439-93-2	
Molybdenum	<b>0.035</b>	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 18:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 18:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 18:40	7440-28-0	
<b>7470 Mercury</b>									
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 11:09	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>958</b>	mg/L	20.0	20.0	1		08/08/22 09:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>143</b>	mg/L	5.0	5.0	1		08/16/22 21:16		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/16/22 21:16		
Alkalinity, Total as CaCO <sub>3</sub>	<b>143</b>	mg/L	5.0	5.0	1		08/16/22 21:16		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: <b>HGWC-13</b>		Lab ID: <b>92618820006</b>		Collected: 08/03/22 11:25	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:50	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>13.0</b>	mg/L	1.0	0.60	1		08/12/22 13:15	16887-00-6	
Fluoride	<b>0.55</b>	mg/L	0.10	0.050	1		08/12/22 13:15	16984-48-8	
Sulfate	<b>451</b>	mg/L	11.0	5.5	11		08/12/22 23:39	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: MW-5		Lab ID: 92618820007		Collected: 08/03/22 08:53		Received: 08/04/22 12:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/05/22 12:48		
pH	<b>5.96</b>	Std. Units			1		08/05/22 12:48		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 14:28	7439-89-6	
Manganese	<b>0.0086J</b>	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 14:28	7439-96-5	
Potassium	<b>0.90</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 14:28	7440-09-7	
Sodium	<b>16.8</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 14:28	7440-23-5	
Calcium	<b>86.6</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 14:28	7440-70-2	
Magnesium	<b>10.3</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 14:28	7439-95-4	
<b>6020 MET ICPMS</b>									
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 18:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 18:58	7440-38-2	
Barium	<b>0.058</b>	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 18:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 18:58	7440-41-7	
Boron	<b>0.034J</b>	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 18:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 18:58	7440-43-9	
Chromium	<b>0.0015J</b>	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 18:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 18:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 18:58	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 18:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 18:58	7439-98-7	
Selenium	<b>0.0032J</b>	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 18:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 18:58	7440-28-0	
<b>7470 Mercury</b>									
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 11:11	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>391</b>	mg/L	10.0	10.0	1		08/08/22 09:21		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>125</b>	mg/L	5.0	5.0	1		08/16/22 21:26		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/16/22 21:26		
Alkalinity, Total as CaCO <sub>3</sub>	<b>125</b>	mg/L	5.0	5.0	1		08/16/22 21:26		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: MW-5		Lab ID: 92618820007		Collected: 08/03/22 08:53	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:50	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>4.4</b>	mg/L	1.0	0.60	1		08/12/22 13:30	16887-00-6	
Fluoride	<b>0.094J</b>	mg/L	0.10	0.050	1		08/12/22 13:30	16984-48-8	
Sulfate	<b>135</b>	mg/L	3.0	1.5	3		08/12/22 23:54	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: MW-6		Lab ID: 92618820008		Collected: 08/03/22 14:24		Received: 08/04/22 12:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/05/22 12:48		
pH	<b>6.41</b>	Std. Units			1		08/05/22 12:48		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.51</b>	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 14:33	7439-89-6	
Manganese	<b>0.51</b>	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 14:33	7439-96-5	
Potassium	<b>1.3</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 14:33	7440-09-7	
Sodium	<b>12.1</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 14:33	7440-23-5	
Calcium	<b>176</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 14:33	7440-70-2	
Magnesium	<b>14.4</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 14:33	7439-95-4	
<b>6020 MET ICPMS</b>									
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 19:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 19:03	7440-38-2	
Barium	<b>0.084</b>	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 19:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 19:03	7440-41-7	
Boron	<b>0.75</b>	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 19:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 19:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 19:03	7440-47-3	
Cobalt	<b>0.00041J</b>	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 19:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 19:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 19:03	7439-93-2	
Molybdenum	<b>0.0028J</b>	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 19:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 19:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 19:03	7440-28-0	
<b>7470 Mercury</b>									
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 11:14	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>666</b>	mg/L	20.0	20.0	1		08/08/22 09:22		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>239</b>	mg/L	5.0	5.0	1		08/16/22 21:36		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/16/22 21:36		
Alkalinity, Total as CaCO <sub>3</sub>	<b>239</b>	mg/L	5.0	5.0	1		08/16/22 21:36		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: MW-6		Lab ID: 92618820008		Collected: 08/03/22 14:24	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:50	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>39.6</b>	mg/L	1.0	0.60	1		08/12/22 13:46	16887-00-6	
Fluoride	<b>0.085J</b>	mg/L	0.10	0.050	1		08/12/22 13:46	16984-48-8	
Sulfate	<b>190</b>	mg/L	4.0	2.0	4		08/13/22 00:40	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: MW-24D	Lab ID: 92618820009	Collected: 08/03/22 12:50	Received: 08/04/22 12:30	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/05/22 12:49		
pH	<b>7.59</b>	Std. Units			1		08/05/22 12:49		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 14:38	7439-89-6	
Manganese	<b>0.031J</b>	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 14:38	7439-96-5	
Potassium	<b>0.51</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 14:38	7440-09-7	
Sodium	<b>11.8</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 14:38	7440-23-5	
Calcium	<b>102</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 14:38	7440-70-2	
Magnesium	<b>5.7</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 14:38	7439-95-4	
<b>6020 MET ICPMS</b>									
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 19:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 19:09	7440-38-2	
Barium	<b>0.053</b>	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 19:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 19:09	7440-41-7	
Boron	<b>0.49</b>	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 19:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 19:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 19:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 19:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 19:09	7439-92-1	
Lithium	<b>0.0024J</b>	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 19:09	7439-93-2	
Molybdenum	<b>0.00095J</b>	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 19:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 19:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 19:09	7440-28-0	
<b>7470 Mercury</b>									
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 11:17	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>415</b>	mg/L	10.0	10.0	1		08/08/22 09:22		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>93.8</b>	mg/L	5.0	5.0	1		08/16/22 21:44		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/16/22 21:44		
Alkalinity, Total as CaCO <sub>3</sub>	<b>93.8</b>	mg/L	5.0	5.0	1		08/16/22 21:44		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: MW-24D		Lab ID: 92618820009		Collected: 08/03/22 12:50	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:51	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>39.6</b>	mg/L	1.0	0.60	1		08/12/22 14:01	16887-00-6	
Fluoride	<b>0.075J</b>	mg/L	0.10	0.050	1		08/12/22 14:01	16984-48-8	
Sulfate	<b>135</b>	mg/L	3.0	1.5	3		08/13/22 00:55	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: MW-27D		Lab ID: 92618820010		Collected: 08/03/22 12:15		Received: 08/04/22 12:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/05/22 12:49		
pH	<b>7.40</b>	Std. Units			1		08/05/22 12:49		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.30</b>	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 14:43	7439-89-6	
Manganese	<b>0.11</b>	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 14:43	7439-96-5	
Potassium	<b>0.93</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 14:43	7440-09-7	
Sodium	<b>31.2</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 14:43	7440-23-5	
Calcium	<b>30.8</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 14:43	7440-70-2	
Magnesium	<b>20.1</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 14:43	7439-95-4	
<b>6020 MET ICPMS</b>									
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 19:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 19:15	7440-38-2	
Barium	<b>0.94</b>	mg/L	0.025	0.0034	5	08/09/22 14:37	08/12/22 13:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 19:15	7440-41-7	
Boron	<b>0.12</b>	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 19:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 19:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 19:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 19:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 19:15	7439-92-1	
Lithium	<b>0.0063J</b>	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 19:15	7439-93-2	
Molybdenum	<b>0.0020J</b>	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 19:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 19:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 19:15	7440-28-0	
<b>7470 Mercury</b>									
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 11:19	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>230</b>	mg/L	10.0	10.0	1		08/08/22 09:22		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>163</b>	mg/L	5.0	5.0	1		08/16/22 21:52		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/16/22 21:52		
Alkalinity, Total as CaCO <sub>3</sub>	<b>163</b>	mg/L	5.0	5.0	1		08/16/22 21:52		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: MW-27D		Lab ID: 92618820010		Collected: 08/03/22 12:15	Received: 08/04/22 12:30	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:51	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>36.7</b>	mg/L	1.0	0.60	1		08/12/22 14:17	16887-00-6	
Fluoride	<b>0.27</b>	mg/L	0.10	0.050	1		08/12/22 14:17	16984-48-8	
Sulfate	<b>9.5</b>	mg/L	1.0	0.50	1		08/12/22 14:17	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: MW-29		Lab ID: 92618820011		Collected: 08/03/22 14:47		Received: 08/04/22 12:30		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/05/22 12:49		
pH	<b>6.87</b>	Std. Units			1		08/05/22 12:49		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.065</b>	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 14:48	7439-89-6	
Manganese	<b>1.5</b>	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 14:48	7439-96-5	
Potassium	<b>1.3</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 14:48	7440-09-7	
Sodium	<b>12.1</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 14:48	7440-23-5	
Calcium	<b>143</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 14:48	7440-70-2	
Magnesium	<b>12.7</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 14:48	7439-95-4	
<b>6020 MET ICPMS</b>									
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 19:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/09/22 14:37	08/10/22 19:21	7440-38-2	
Barium	<b>0.081</b>	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 19:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 19:21	7440-41-7	
Boron	<b>1.1</b>	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 19:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/09/22 14:37	08/10/22 19:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/09/22 14:37	08/10/22 19:21	7440-47-3	
Cobalt	<b>0.0012J</b>	mg/L	0.0050	0.00039	1	08/09/22 14:37	08/10/22 19:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/09/22 14:37	08/10/22 19:21	7439-92-1	
Lithium	<b>0.0018J</b>	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 19:21	7439-93-2	
Molybdenum	<b>0.0032J</b>	mg/L	0.010	0.00074	1	08/09/22 14:37	08/10/22 19:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/09/22 14:37	08/10/22 19:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/09/22 14:37	08/10/22 19:21	7440-28-0	
<b>7470 Mercury</b>									
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 11:22	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>538</b>	mg/L	20.0	20.0	1		08/08/22 09:22		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>177</b>	mg/L	5.0	5.0	1		08/16/22 22:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/16/22 22:12		
Alkalinity, Total as CaCO3	<b>177</b>	mg/L	5.0	5.0	1		08/16/22 22:12		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: MW-29      Lab ID: 92618820011      Collected: 08/03/22 14:47      Received: 08/04/22 12:30      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>									
Analytical Method: SM 4500-S2D-2011									
Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		08/06/22 03:52	18496-25-8	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>63.5</b>	mg/L	1.0	0.60	1		08/12/22 15:03	16887-00-6	M1
Fluoride	<b>0.069J</b>	mg/L	0.10	0.050	1		08/12/22 15:03	16984-48-8	
Sulfate	<b>140</b>	mg/L	3.0	1.5	3		08/13/22 01:10	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: HGWC-9		Lab ID: 92618820012		Collected: 08/04/22 11:42		Received: 08/05/22 14:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/08/22 10:22		
pH	<b>7.03</b>	Std. Units			1		08/08/22 10:22		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.13</b>	mg/L	0.040	0.025	1	08/11/22 09:30	08/11/22 17:16	7439-89-6	
Manganese	<b>0.42</b>	mg/L	0.040	0.0043	1	08/11/22 09:30	08/11/22 17:16	7439-96-5	
Potassium	<b>3.5</b>	mg/L	0.20	0.15	1	08/11/22 09:30	08/11/22 17:16	7440-09-7	
Sodium	<b>13.3</b>	mg/L	1.0	0.58	1	08/11/22 09:30	08/11/22 17:16	7440-23-5	
Calcium	<b>196</b>	mg/L	1.0	0.12	1	08/11/22 09:30	08/11/22 17:16	7440-70-2	
Magnesium	<b>19.2</b>	mg/L	0.050	0.012	1	08/11/22 09:30	08/11/22 17:16	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/10/22 08:00	08/11/22 18:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/10/22 08:00	08/11/22 18:13	7440-38-2	
Barium	<b>0.091</b>	mg/L	0.0050	0.00067	1	08/10/22 08:00	08/11/22 18:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/10/22 08:00	08/11/22 18:13	7440-41-7	
Boron	<b>2.0</b>	mg/L	0.040	0.0086	1	08/10/22 08:00	08/11/22 18:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/10/22 08:00	08/11/22 18:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/10/22 08:00	08/11/22 18:13	7440-47-3	
Cobalt	<b>0.00046J</b>	mg/L	0.0050	0.00039	1	08/10/22 08:00	08/11/22 18:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/10/22 08:00	08/11/22 18:13	7439-92-1	
Lithium	<b>0.0036J</b>	mg/L	0.030	0.00073	1	08/10/22 08:00	08/11/22 18:13	7439-93-2	
Molybdenum	<b>0.033</b>	mg/L	0.010	0.00074	1	08/10/22 08:00	08/11/22 18:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/10/22 08:00	08/11/22 18:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/10/22 08:00	08/11/22 18:13	7440-28-0	
<b>7470 Mercury</b>									
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 11:24	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>760</b>	mg/L	20.0	20.0	1		08/09/22 10:03		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>185</b>	mg/L	5.0	5.0	1		08/17/22 13:20		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/17/22 13:20		
Alkalinity, Total as CaCO <sub>3</sub>	<b>185</b>	mg/L	5.0	5.0	1		08/17/22 13:20		

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: <b>HGWC-9</b>		Lab ID: <b>92618820012</b>		Collected: 08/04/22 11:42	Received: 08/05/22 14:15	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/10/22 04:06	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>86.8</b>	mg/L	1.0	0.60	1		08/17/22 12:13	16887-00-6	
Fluoride	<b>0.13</b>	mg/L	0.10	0.050	1		08/17/22 12:13	16984-48-8	
Sulfate	<b>243</b>	mg/L	5.0	2.5	5		08/18/22 02:51	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: MW-7		Lab ID: 92618820013		Collected: 08/04/22 09:05		Received: 08/05/22 14:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/08/22 10:23		
pH	<b>6.47</b>	Std. Units			1		08/08/22 10:23		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	08/11/22 09:30	08/11/22 17:21	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	08/11/22 09:30	08/11/22 17:21	7439-96-5	
Potassium	<b>0.74</b>	mg/L	0.20	0.15	1	08/11/22 09:30	08/11/22 17:21	7440-09-7	
Sodium	<b>7.4</b>	mg/L	1.0	0.58	1	08/11/22 09:30	08/11/22 17:21	7440-23-5	
Calcium	<b>73.1</b>	mg/L	1.0	0.12	1	08/11/22 09:30	08/11/22 17:21	7440-70-2	
Magnesium	<b>7.2</b>	mg/L	0.050	0.012	1	08/11/22 09:30	08/11/22 17:21	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/10/22 08:00	08/11/22 18:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/10/22 08:00	08/11/22 18:19	7440-38-2	
Barium	<b>0.064</b>	mg/L	0.0050	0.00067	1	08/10/22 08:00	08/11/22 18:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/10/22 08:00	08/11/22 18:19	7440-41-7	
Boron	<b>0.14</b>	mg/L	0.040	0.0086	1	08/10/22 08:00	08/11/22 18:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/10/22 08:00	08/11/22 18:19	7440-43-9	
Chromium	<b>0.0020J</b>	mg/L	0.0050	0.0011	1	08/10/22 08:00	08/11/22 18:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/10/22 08:00	08/11/22 18:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/10/22 08:00	08/11/22 18:19	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/10/22 08:00	08/11/22 18:19	7439-93-2	
Molybdenum	<b>0.0014J</b>	mg/L	0.010	0.00074	1	08/10/22 08:00	08/11/22 18:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/10/22 08:00	08/11/22 18:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/10/22 08:00	08/11/22 18:19	7440-28-0	
<b>7470 Mercury</b>									
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 11:32	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>246</b>	mg/L	10.0	10.0	1		08/09/22 10:04		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>139</b>	mg/L	5.0	5.0	1		08/17/22 13:32		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/17/22 13:32		
Alkalinity, Total as CaCO <sub>3</sub>	<b>139</b>	mg/L	5.0	5.0	1		08/17/22 13:32		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: MW-7		Lab ID: 92618820013		Collected: 08/04/22 09:05	Received: 08/05/22 14:15	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/10/22 04:07	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>4.7</b>	mg/L	1.0	0.60	1		08/17/22 12:28	16887-00-6	
Fluoride	<b>0.078J</b>	mg/L	0.10	0.050	1		08/17/22 12:28	16984-48-8	
Sulfate	<b>76.0</b>	mg/L	1.0	0.50	1		08/17/22 12:28	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

**Sample: MW-19**      **Lab ID: 92618820014**      Collected: 08/04/22 14:25      Received: 08/05/22 14:15      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/08/22 10:23		
pH	<b>6.32</b>	Std. Units			1		08/08/22 10:23		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	08/11/22 09:30	08/11/22 17:26	7439-89-6	
Manganese	<b>5.0</b>	mg/L	0.040	0.0043	1	08/11/22 09:30	08/11/22 17:26	7439-96-5	
Potassium	<b>3.8</b>	mg/L	0.20	0.15	1	08/11/22 09:30	08/11/22 17:26	7440-09-7	
Sodium	<b>5.9</b>	mg/L	1.0	0.58	1	08/11/22 09:30	08/11/22 17:26	7440-23-5	
Calcium	<b>187</b>	mg/L	1.0	0.12	1	08/11/22 09:30	08/11/22 17:26	7440-70-2	
Magnesium	<b>18.7</b>	mg/L	0.050	0.012	1	08/11/22 09:30	08/11/22 17:26	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/10/22 08:00	08/11/22 18:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/10/22 08:00	08/11/22 18:25	7440-38-2	
Barium	<b>0.050</b>	mg/L	0.0050	0.00067	1	08/10/22 08:00	08/11/22 18:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/10/22 08:00	08/11/22 18:25	7440-41-7	
Boron	<b>0.58</b>	mg/L	0.040	0.0086	1	08/10/22 08:00	08/11/22 18:25	7440-42-8	
Cadmium	<b>0.00022J</b>	mg/L	0.00050	0.00011	1	08/10/22 08:00	08/11/22 18:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/10/22 08:00	08/11/22 18:25	7440-47-3	
Cobalt	<b>0.043</b>	mg/L	0.0050	0.00039	1	08/10/22 08:00	08/11/22 18:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/10/22 08:00	08/11/22 18:25	7439-92-1	
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	08/10/22 08:00	08/11/22 18:25	7439-93-2	
Molybdenum	<b>0.039</b>	mg/L	0.010	0.00074	1	08/10/22 08:00	08/11/22 18:25	7439-98-7	
Selenium	<b>0.0022J</b>	mg/L	0.0050	0.0014	1	08/10/22 08:00	08/11/22 18:25	7782-49-2	
Thallium	<b>0.00026J</b>	mg/L	0.0010	0.00018	1	08/10/22 08:00	08/11/22 18:25	7440-28-0	
<b>7470 Mercury</b>									
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 11:35	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>762</b>	mg/L	20.0	20.0	1		08/09/22 10:05		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>112</b>	mg/L	5.0	5.0	1		08/17/22 13:42		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/17/22 13:42		
Alkalinity, Total as CaCO <sub>3</sub>	<b>112</b>	mg/L	5.0	5.0	1		08/17/22 13:42		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: MW-19		Lab ID: 92618820014		Collected: 08/04/22 14:25	Received: 08/05/22 14:15	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/10/22 04:08	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>11.3</b>	mg/L	1.0	0.60	1		08/17/22 12:43	16887-00-6	
Fluoride	<b>0.18</b>	mg/L	0.10	0.050	1		08/17/22 12:43	16984-48-8	
Sulfate	<b>412</b>	mg/L	8.0	4.0	8		08/18/22 03:06	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: MW-20		Lab ID: 92618820015		Collected: 08/04/22 11:40		Received: 08/05/22 14:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/08/22 10:24		
pH	<b>6.96</b>	Std. Units			1		08/08/22 10:24		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>2.7</b>	mg/L	0.040	0.025	1	08/11/22 09:30	08/11/22 17:31	7439-89-6	
Manganese	<b>0.14</b>	mg/L	0.040	0.0043	1	08/11/22 09:30	08/11/22 17:31	7439-96-5	
Potassium	<b>0.29</b>	mg/L	0.20	0.15	1	08/11/22 09:30	08/11/22 17:31	7440-09-7	
Sodium	<b>12.2</b>	mg/L	1.0	0.58	1	08/11/22 09:30	08/11/22 17:31	7440-23-5	
Calcium	<b>131</b>	mg/L	1.0	0.12	1	08/11/22 09:30	08/11/22 17:31	7440-70-2	
Magnesium	<b>9.9</b>	mg/L	0.050	0.012	1	08/11/22 09:30	08/11/22 17:31	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/10/22 08:00	08/11/22 18:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/10/22 08:00	08/11/22 18:31	7440-38-2	
Barium	<b>0.093</b>	mg/L	0.0050	0.00067	1	08/10/22 08:00	08/11/22 18:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/10/22 08:00	08/11/22 18:31	7440-41-7	
Boron	<b>0.11</b>	mg/L	0.040	0.0086	1	08/10/22 08:00	08/11/22 18:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/10/22 08:00	08/11/22 18:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/10/22 08:00	08/11/22 18:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/10/22 08:00	08/11/22 18:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/10/22 08:00	08/11/22 18:31	7439-92-1	
Lithium	<b>0.00075J</b>	mg/L	0.030	0.00073	1	08/10/22 08:00	08/11/22 18:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/10/22 08:00	08/11/22 18:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/10/22 08:00	08/11/22 18:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/10/22 08:00	08/11/22 18:31	7440-28-0	
<b>7470 Mercury</b>									
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 11:38	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>431</b>	mg/L	10.0	10.0	1		08/09/22 10:05		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>228</b>	mg/L	5.0	5.0	1		08/17/22 20:03		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/17/22 20:03		
Alkalinity, Total as CaCO <sub>3</sub>	<b>228</b>	mg/L	5.0	5.0	1		08/17/22 20:03		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: MW-20		Lab ID: 92618820015		Collected: 08/04/22 11:40	Received: 08/05/22 14:15	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	ND	mg/L	0.10	0.050	1		08/10/22 04:08	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>31.4</b>	mg/L	1.0	0.60	1		08/17/22 13:28	16887-00-6	
Fluoride	<b>0.074J</b>	mg/L	0.10	0.050	1		08/17/22 13:28	16984-48-8	
Sulfate	<b>110</b>	mg/L	2.0	1.0	2		08/18/22 04:50	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: MW-25D		Lab ID: 92618820016		Collected: 08/04/22 09:26		Received: 08/05/22 14:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/08/22 10:25		
pH	<b>7.66</b>	Std. Units			1		08/08/22 10:25		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.23</b>	mg/L	0.040	0.025	1	08/11/22 09:30	08/11/22 17:36	7439-89-6	
Manganese	<b>0.022J</b>	mg/L	0.040	0.0043	1	08/11/22 09:30	08/11/22 17:36	7439-96-5	
Potassium	<b>0.45</b>	mg/L	0.20	0.15	1	08/11/22 09:30	08/11/22 17:36	7440-09-7	
Sodium	<b>104</b>	mg/L	1.0	0.58	1	08/11/22 09:30	08/11/22 17:36	7440-23-5	
Calcium	<b>22.0</b>	mg/L	1.0	0.12	1	08/11/22 09:30	08/11/22 17:36	7440-70-2	
Magnesium	<b>9.8</b>	mg/L	0.050	0.012	1	08/11/22 09:30	08/11/22 17:36	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/10/22 08:00	08/11/22 18:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/10/22 08:00	08/11/22 18:37	7440-38-2	
Barium	<b>0.75</b>	mg/L	0.0050	0.00067	1	08/10/22 08:00	08/11/22 18:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/10/22 08:00	08/11/22 18:37	7440-41-7	
Boron	<b>0.35</b>	mg/L	0.040	0.0086	1	08/10/22 08:00	08/11/22 18:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/10/22 08:00	08/11/22 18:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/10/22 08:00	08/11/22 18:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/10/22 08:00	08/11/22 18:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/10/22 08:00	08/11/22 18:37	7439-92-1	
Lithium	<b>0.040</b>	mg/L	0.030	0.00073	1	08/10/22 08:00	08/11/22 18:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/10/22 08:00	08/11/22 18:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/10/22 08:00	08/11/22 18:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/10/22 08:00	08/11/22 18:37	7440-28-0	
<b>7470 Mercury</b>									
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 13:00	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>302</b>	mg/L	10.0	10.0	1		08/09/22 10:05		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>302</b>	mg/L	5.0	5.0	1		08/17/22 20:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/17/22 20:11		
Alkalinity, Total as CaCO3	<b>302</b>	mg/L	5.0	5.0	1		08/17/22 20:11		

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: MW-25D		Lab ID: 92618820016		Collected: 08/04/22 09:26	Received: 08/05/22 14:15	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	<b>0.17</b>	mg/L	0.10	0.050	1		08/10/22 04:09	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>20.5</b>	mg/L	1.0	0.60	1		08/17/22 13:43	16887-00-6	
Fluoride	<b>1.5</b>	mg/L	0.10	0.050	1		08/17/22 13:43	16984-48-8	
Sulfate	<b>0.97J</b>	mg/L	1.0	0.50	1		08/17/22 13:43	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: MW-26D		Lab ID: 92618820017		Collected: 08/04/22 13:55		Received: 08/05/22 14:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/08/22 10:25		
pH	<b>7.08</b>	Std. Units			1		08/08/22 10:25		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.21</b>	mg/L	0.040	0.025	1	08/11/22 09:30	08/11/22 17:41	7439-89-6	
Manganese	<b>0.30</b>	mg/L	0.040	0.0043	1	08/11/22 09:30	08/11/22 17:41	7439-96-5	
Potassium	<b>2.9</b>	mg/L	0.20	0.15	1	08/11/22 09:30	08/11/22 17:41	7440-09-7	
Sodium	<b>12.6</b>	mg/L	1.0	0.58	1	08/11/22 09:30	08/11/22 17:41	7440-23-5	
Calcium	<b>186</b>	mg/L	1.0	0.12	1	08/11/22 09:30	08/11/22 17:41	7440-70-2	
Magnesium	<b>18.3</b>	mg/L	0.050	0.012	1	08/11/22 09:30	08/11/22 17:41	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/10/22 08:00	08/11/22 18:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/10/22 08:00	08/11/22 18:43	7440-38-2	
Barium	<b>0.062</b>	mg/L	0.0050	0.00067	1	08/10/22 08:00	08/11/22 18:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/10/22 08:00	08/11/22 18:43	7440-41-7	
Boron	<b>2.0</b>	mg/L	0.040	0.0086	1	08/10/22 08:00	08/11/22 18:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/10/22 08:00	08/11/22 18:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/10/22 08:00	08/11/22 18:43	7440-47-3	
Cobalt	<b>0.00048J</b>	mg/L	0.0050	0.00039	1	08/10/22 08:00	08/11/22 18:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/10/22 08:00	08/11/22 18:43	7439-92-1	
Lithium	<b>0.0033J</b>	mg/L	0.030	0.00073	1	08/10/22 08:00	08/11/22 18:43	7439-93-2	
Molybdenum	<b>0.028</b>	mg/L	0.010	0.00074	1	08/10/22 08:00	08/11/22 18:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/10/22 08:00	08/11/22 18:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/10/22 08:00	08/11/22 18:43	7440-28-0	
<b>7470 Mercury</b>									
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 13:02	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>788</b>	mg/L	20.0	20.0	1		08/09/22 10:05		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>184</b>	mg/L	5.0	5.0	1		08/17/22 14:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/17/22 14:06		
Alkalinity, Total as CaCO3	<b>184</b>	mg/L	5.0	5.0	1		08/17/22 14:06		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: MW-26D		Lab ID: 92618820017		Collected: 08/04/22 13:55	Received: 08/05/22 14:15	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.050	1		08/10/22 04:09	18496-25-8		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	<b>88.5</b>	mg/L	1.0	0.60	1		08/17/22 13:58	16887-00-6		
Fluoride	<b>0.12</b>	mg/L	0.10	0.050	1		08/17/22 13:58	16984-48-8		
Sulfate	<b>239</b>	mg/L	5.0	2.5	5		08/18/22 05:05	14808-79-8		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: MW-28D		Lab ID: 92618820018		Collected: 08/04/22 09:55		Received: 08/05/22 14:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/08/22 10:26		
pH	<b>7.38</b>	Std. Units			1		08/08/22 10:26		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.11</b>	mg/L	0.040	0.025	1	08/11/22 09:30	08/11/22 17:46	7439-89-6	
Manganese	<b>0.18</b>	mg/L	0.040	0.0043	1	08/11/22 09:30	08/11/22 17:46	7439-96-5	
Potassium	<b>1.3</b>	mg/L	0.20	0.15	1	08/11/22 09:30	08/11/22 17:46	7440-09-7	
Sodium	<b>13.9</b>	mg/L	1.0	0.58	1	08/11/22 09:30	08/11/22 17:46	7440-23-5	
Calcium	<b>76.7</b>	mg/L	1.0	0.12	1	08/11/22 09:30	08/11/22 17:46	7440-70-2	
Magnesium	<b>26.0</b>	mg/L	0.050	0.012	1	08/11/22 09:30	08/11/22 17:46	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/10/22 08:00	08/11/22 18:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/10/22 08:00	08/11/22 18:49	7440-38-2	
Barium	<b>0.70</b>	mg/L	0.0050	0.00067	1	08/10/22 08:00	08/11/22 18:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/10/22 08:00	08/11/22 18:49	7440-41-7	
Boron	<b>0.55</b>	mg/L	0.040	0.0086	1	08/10/22 08:00	08/11/22 18:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/10/22 08:00	08/11/22 18:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/10/22 08:00	08/11/22 18:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/10/22 08:00	08/11/22 18:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/10/22 08:00	08/11/22 18:49	7439-92-1	
Lithium	<b>0.0088J</b>	mg/L	0.030	0.00073	1	08/10/22 08:00	08/11/22 18:49	7439-93-2	
Molybdenum	<b>0.011</b>	mg/L	0.010	0.00074	1	08/10/22 08:00	08/11/22 18:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/10/22 08:00	08/11/22 18:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/10/22 08:00	08/11/22 18:49	7440-28-0	
<b>7470 Mercury</b>									
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 13:05	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>378</b>	mg/L	10.0	10.0	1		08/09/22 10:07		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>220</b>	mg/L	5.0	5.0	1		08/17/22 20:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/17/22 20:19		
Alkalinity, Total as CaCO3	<b>220</b>	mg/L	5.0	5.0	1		08/17/22 20:19		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: MW-28D		Lab ID: 92618820018		Collected: 08/04/22 09:55	Received: 08/05/22 14:15	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	<b>3.9</b>	mg/L	1.0	0.50	10		08/10/22 04:49	18496-25-8	M1
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>33.3</b>	mg/L	1.0	0.60	1		08/17/22 14:12	16887-00-6	
Fluoride	<b>0.19</b>	mg/L	0.10	0.050	1		08/17/22 14:12	16984-48-8	
Sulfate	<b>80.5</b>	mg/L	1.0	0.50	1		08/17/22 14:12	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: DUP-1		Lab ID: 92618820019		Collected: 08/04/22 00:00		Received: 08/05/22 14:15		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/11/22 09:30	08/11/22 17:50	7439-89-6		
Manganese	ND	mg/L	0.040	0.0043	1	08/11/22 09:30	08/11/22 17:50	7439-96-5		
Potassium	<b>0.75</b>	mg/L	0.20	0.15	1	08/11/22 09:30	08/11/22 17:50	7440-09-7		
Sodium	<b>7.3</b>	mg/L	1.0	0.58	1	08/11/22 09:30	08/11/22 17:50	7440-23-5		
Calcium	<b>76.9</b>	mg/L	1.0	0.12	1	08/11/22 09:30	08/11/22 17:50	7440-70-2		
Magnesium	<b>7.5</b>	mg/L	0.050	0.012	1	08/11/22 09:30	08/11/22 17:50	7439-95-4		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/10/22 08:00	08/11/22 19:06	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	08/10/22 08:00	08/11/22 19:06	7440-38-2		
Barium	<b>0.059</b>	mg/L	0.0050	0.00067	1	08/10/22 08:00	08/11/22 19:06	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	08/10/22 08:00	08/11/22 19:06	7440-41-7		
Boron	<b>0.15</b>	mg/L	0.040	0.0086	1	08/10/22 08:00	08/11/22 19:06	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	08/10/22 08:00	08/11/22 19:06	7440-43-9		
Chromium	<b>0.0020J</b>	mg/L	0.0050	0.0011	1	08/10/22 08:00	08/11/22 19:06	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	08/10/22 08:00	08/11/22 19:06	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	08/10/22 08:00	08/11/22 19:06	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	08/10/22 08:00	08/11/22 19:06	7439-93-2		
Molybdenum	<b>0.0014J</b>	mg/L	0.010	0.00074	1	08/10/22 08:00	08/11/22 19:06	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	08/10/22 08:00	08/11/22 19:06	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	08/10/22 08:00	08/11/22 19:06	7440-28-0		
<b>7470 Mercury</b>		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 13:07	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	<b>268</b>	mg/L	10.0	10.0	1		08/09/22 10:07			
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	<b>149</b>	mg/L	5.0	5.0	1		08/17/22 14:26			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/17/22 14:26			
Alkalinity, Total as CaCO3	<b>149</b>	mg/L	5.0	5.0	1		08/17/22 14:26			
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.050	1		08/10/22 04:12	18496-25-8		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	<b>5.3</b>	mg/L	1.0	0.60	1		08/17/22 14:57	16887-00-6		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

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**Sample: DUP-1**      **Lab ID: 92618820019**      Collected: 08/04/22 00:00      Received: 08/05/22 14:15      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	<b>0.082J</b>	mg/L	0.10	0.050	1		08/17/22 14:57	16984-48-8	
Sulfate	<b>81.8</b>	mg/L	1.0	0.50	1		08/17/22 14:57	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: EB-1		Lab ID: 92618820020		Collected: 08/04/22 13:30		Received: 08/05/22 14:15		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
<b>6010D ATL ICP</b>		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Iron	ND	mg/L	0.040	0.025	1	08/11/22 09:30	08/11/22 17:55	7439-89-6		
Manganese	ND	mg/L	0.040	0.0043	1	08/11/22 09:30	08/11/22 17:55	7439-96-5		
Potassium	ND	mg/L	0.20	0.15	1	08/11/22 09:30	08/11/22 17:55	7440-09-7		
Sodium	ND	mg/L	1.0	0.58	1	08/11/22 09:30	08/11/22 17:55	7440-23-5		
Calcium	ND	mg/L	1.0	0.12	1	08/11/22 09:30	08/11/22 17:55	7440-70-2		
Magnesium	ND	mg/L	0.050	0.012	1	08/11/22 09:30	08/11/22 17:55	7439-95-4		
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/10/22 08:00	08/11/22 19:12	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	08/10/22 08:00	08/11/22 19:12	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	08/10/22 08:00	08/11/22 19:12	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	08/10/22 08:00	08/11/22 19:12	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	08/10/22 08:00	08/11/22 19:12	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	08/10/22 08:00	08/11/22 19:12	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	08/10/22 08:00	08/11/22 19:12	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	08/10/22 08:00	08/11/22 19:12	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	08/10/22 08:00	08/11/22 19:12	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	08/10/22 08:00	08/11/22 19:12	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	08/10/22 08:00	08/11/22 19:12	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	08/10/22 08:00	08/11/22 19:12	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	08/10/22 08:00	08/11/22 19:12	7440-28-0		
<b>7470 Mercury</b>		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 13:10	7439-97-6		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		08/09/22 10:07			
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/17/22 14:36			
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/17/22 14:36			
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/17/22 14:36			
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	ND	mg/L	0.10	0.050	1		08/10/22 04:13	18496-25-8		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/17/22 15:12	16887-00-6		

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: EB-1</b>									
<b>Lab ID: 92618820020</b>									
Collected: 08/04/22 13:30									
Received: 08/05/22 14:15									
Matrix: Water									
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/17/22 15:12	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/17/22 15:12	14808-79-8	

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

Sample: <b>FB-1</b> Lab ID: <b>92618820021</b> Collected: 08/04/22 13:15      Received: 08/05/22 14:15      Matrix: Water									
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	ND	mg/L	0.040	0.025	1	08/11/22 09:30	08/11/22 18:09	7439-89-6	
Manganese	ND	mg/L	0.040	0.0043	1	08/11/22 09:30	08/11/22 18:09	7439-96-5	
Potassium	ND	mg/L	0.20	0.15	1	08/11/22 09:30	08/11/22 18:09	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	08/11/22 09:30	08/11/22 18:09	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	08/11/22 09:30	08/11/22 18:09	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	08/11/22 09:30	08/11/22 18:09	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/10/22 08:00	08/11/22 19:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/10/22 08:00	08/11/22 19:18	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/10/22 08:00	08/11/22 19:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/10/22 08:00	08/11/22 19:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/10/22 08:00	08/11/22 19:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/10/22 08:00	08/11/22 19:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/10/22 08:00	08/11/22 19:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/10/22 08:00	08/11/22 19:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/10/22 08:00	08/11/22 19:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/10/22 08:00	08/11/22 19:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/10/22 08:00	08/11/22 19:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/10/22 08:00	08/11/22 19:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/10/22 08:00	08/11/22 19:18	7440-28-0	
<b>7470 Mercury</b>									
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 13:13	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		08/09/22 10:07		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/17/22 14:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/17/22 14:41		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		08/17/22 14:41		
<b>4500S2D Sulfide Water</b>									
Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville									
Sulfide	ND	mg/L	0.10	0.050	1		08/10/22 04:14	18496-25-8	
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		08/17/22 15:27	16887-00-6	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: FB-1</b>									
<b>Lab ID: 92618820021</b>									
Collected: 08/04/22 13:15									
Received: 08/05/22 14:15									
Matrix: Water									
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/17/22 15:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/17/22 15:27	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

**Sample: HGWC-7**      **Lab ID: 92618820022**      Collected: 08/11/22 14:53      Received: 08/12/22 11:25      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Customer</b>				1		08/12/22 15:35		
pH	<b>7.07</b>	Std. Units			1		08/12/22 15:35		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>3.1</b>	mg/L	0.20	0.15	1	08/18/22 11:22	08/19/22 12:27	7440-09-7	
Sodium	<b>9.7</b>	mg/L	1.0	0.58	1	08/18/22 11:22	08/19/22 12:27	7440-23-5	
Iron	<b>0.11</b>	mg/L	0.040	0.025	1	08/18/22 11:22	08/18/22 20:58	7439-89-6	
Manganese	<b>0.36</b>	mg/L	0.040	0.0043	1	08/18/22 11:22	08/18/22 20:58	7439-96-5	
Calcium	<b>119</b>	mg/L	1.0	0.12	1	08/18/22 11:22	08/18/22 20:58	7440-70-2	
Magnesium	<b>10.5</b>	mg/L	0.050	0.012	1	08/18/22 11:22	08/18/22 20:58	7439-95-4	
<b>6020 MET ICPMS</b>									
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 15:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	08/24/22 13:32	08/26/22 15:02	7440-38-2	
Barium	<b>0.071</b>	mg/L	0.0050	0.00067	1	08/24/22 13:32	08/26/22 15:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/24/22 13:32	08/26/22 15:02	7440-41-7	
Boron	<b>1.1</b>	mg/L	0.20	0.043	5	08/24/22 13:32	08/27/22 14:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/24/22 13:32	08/26/22 15:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/24/22 13:32	08/26/22 15:02	7440-47-3	
Cobalt	<b>0.0018J</b>	mg/L	0.0050	0.00039	1	08/24/22 13:32	08/26/22 15:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/24/22 13:32	08/26/22 15:02	7439-92-1	
Lithium	<b>0.0019J</b>	mg/L	0.030	0.00073	1	08/24/22 13:32	08/26/22 15:02	7439-93-2	
Molybdenum	<b>0.044</b>	mg/L	0.010	0.00074	1	08/24/22 13:32	08/26/22 15:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/24/22 13:32	08/26/22 15:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/24/22 13:32	08/26/22 15:02	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	08/22/22 15:00	08/23/22 09:41	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>445</b>	mg/L	10.0	10.0	1		08/15/22 11:27		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>184</b>	mg/L	5.0	5.0	1		08/22/22 15:20		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/22/22 15:20		
Alkalinity, Total as CaCO <sub>3</sub>	<b>184</b>	mg/L	5.0	5.0	1		08/22/22 15:20		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Sample: <b>HGWC-7</b>		Lab ID: <b>92618820022</b>		Collected: 08/11/22 14:53	Received: 08/12/22 11:25	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
<b>4500S2D Sulfide Water</b>		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		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	<b>37.7</b>	mg/L	1.0	0.60	1		08/21/22 05:29	16887-00-6		
Fluoride	<b>0.11</b>	mg/L	0.10	0.050	1		08/21/22 05:29	16984-48-8		
Sulfate	<b>121</b>	mg/L	2.0	1.0	2		08/21/22 11:02	14808-79-8		

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

QC Batch: 715912

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92618820001

METHOD BLANK: 3732003

Matrix: Water

Associated Lab Samples: 92618820001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/09/22 16:35	
Iron	mg/L	ND	0.040	0.025	08/09/22 16:35	
Magnesium	mg/L	ND	0.050	0.012	08/09/22 16:35	
Manganese	mg/L	ND	0.040	0.0043	08/09/22 16:35	
Potassium	mg/L	ND	0.20	0.15	08/09/22 16:35	
Sodium	mg/L	ND	1.0	0.58	08/09/22 16:35	

LABORATORY CONTROL SAMPLE: 3732004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	
Iron	mg/L	1	1.1	110	80-120	
Magnesium	mg/L	1	1.1	111	80-120	
Manganese	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.0	102	80-120	
Sodium	mg/L	1	1.1	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732005 3732006

Parameter	Units	92617392038		3732005		3732006		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result							
Calcium	mg/L	69.4	1	1	68.2	72.1	-119	266	75-125	5	20	M1		
Iron	mg/L	0.42	1	1	1.5	1.5	107	112	75-125	4	20			
Magnesium	mg/L	30.5	1	1	31.0	32.7	46	215	75-125	5	20	M1		
Manganese	mg/L	0.092	1	1	1.1	1.2	105	110	75-125	4	20			
Potassium	mg/L	3.3	1	1	4.4	4.6	104	128	75-125	5	20	M1		
Sodium	mg/L	4.6	1	1	5.5	5.8	96	126	75-125	5	20	M1		

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

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: 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011

METHOD BLANK: 3732776 Matrix: Water  
Associated Lab Samples: 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011

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 Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618820002 Result	Spike Conc.	Spike Conc.	Conc.								
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		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

QC Batch: 716036 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92618820012, 92618820013, 92618820014, 92618820015, 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

METHOD BLANK: 3732817 Matrix: Water  
Associated Lab Samples: 92618820012, 92618820013, 92618820014, 92618820015, 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/11/22 15:55	
Iron	mg/L	ND	0.040	0.025	08/11/22 15:55	
Magnesium	mg/L	ND	0.050	0.012	08/11/22 15:55	
Manganese	mg/L	ND	0.040	0.0043	08/11/22 15:55	
Potassium	mg/L	ND	0.20	0.15	08/11/22 15:55	
Sodium	mg/L	ND	1.0	0.58	08/11/22 15:55	

LABORATORY CONTROL SAMPLE: 3732818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	
Iron	mg/L	1	1.1	106	80-120	
Magnesium	mg/L	1	1.1	106	80-120	
Manganese	mg/L	1	1.1	108	80-120	
Potassium	mg/L	1	1.0	105	80-120	
Sodium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732819 3732820

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618823006 Result	Spike Conc.	Spike Conc.	Conc.								
Calcium	mg/L	170	1	1	171	166	120	-307	75-125	3	20	M1	
Iron	mg/L	0.10	1	1	1.2	1.2	109	107	75-125	2	20		
Magnesium	mg/L	27.3	1	1	28.6	27.7	123	41	75-125	3	20	M1	
Manganese	mg/L	2.3	1	1	3.4	3.3	109	100	75-125	3	20		
Potassium	mg/L	3.4	1	1	4.6	4.4	120	99	75-125	5	20		
Sodium	mg/L	16.2	1	1	17.5	16.8	125	62	75-125	4	20	M1	

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

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: 92618820022

METHOD BLANK: 3743081      Matrix: Water  
Associated Lab Samples: 92618820022

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-1-Revised Report  
Pace Project No.: 92618820

QC Batch: 715915 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92618820001

METHOD BLANK: 3732025 Matrix: Water  
Associated Lab Samples: 92618820001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/10/22 16:33	
Arsenic	mg/L	ND	0.0050	0.0022	08/10/22 16:33	
Barium	mg/L	ND	0.0050	0.00067	08/10/22 16:33	
Beryllium	mg/L	ND	0.00050	0.000054	08/10/22 16:33	
Boron	mg/L	ND	0.040	0.0086	08/10/22 16:33	
Cadmium	mg/L	ND	0.00050	0.00011	08/10/22 16:33	
Chromium	mg/L	ND	0.0050	0.0011	08/10/22 16:33	
Cobalt	mg/L	ND	0.0050	0.00039	08/10/22 16:33	
Lead	mg/L	ND	0.0010	0.00089	08/10/22 16:33	
Lithium	mg/L	ND	0.030	0.00073	08/10/22 16:33	
Molybdenum	mg/L	ND	0.010	0.00074	08/10/22 16:33	
Selenium	mg/L	ND	0.0050	0.0014	08/10/22 16:33	
Thallium	mg/L	ND	0.0010	0.00018	08/10/22 16:33	

LABORATORY CONTROL SAMPLE: 3732026

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	101	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	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	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732708 3732709

Parameter	Units	92617392041 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	0.11	0.12	114	115	75-125	1	20	
Arsenic	mg/L	0.0033J	0.1	0.1	0.11	0.11	108	106	75-125	1	20	

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Parameter	Units	3732708		3732709		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92617392041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.074	0.1	0.1	0.17	0.17	98	98	75-125	0	20		
Beryllium	mg/L	0.00012J	0.1	0.1	0.093	0.093	93	93	75-125	0	20		
Boron	mg/L	21.5	1	1	20.5	21.2	-99	-29	75-125	3	20	M1	
Cadmium	mg/L	0.00012J	0.1	0.1	0.095	0.096	95	95	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20		
Cobalt	mg/L	0.034	0.1	0.1	0.13	0.12	93	90	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20		
Lithium	mg/L	0.030J	0.1	0.1	0.13	0.13	100	100	75-125	0	20		
Molybdenum	mg/L	0.040	0.1	0.1	0.15	0.15	109	109	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	104	104	75-125	1	20		
Thallium	mg/L	0.00098J	0.1	0.1	0.098	0.097	97	96	75-125	0	20		

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

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: 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011

METHOD BLANK: 3732042 Matrix: Water  
Associated Lab Samples: 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011

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
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.12	0.13	123	128	75-125	4	20	M1

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**QUALITY CONTROL DATA**

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Parameter	Units	3732044		3732045		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92618820002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
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-1-Revised Report  
Pace Project No.: 92618820

QC Batch: 716035 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92618820012, 92618820013, 92618820014, 92618820015, 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

METHOD BLANK: 3732802 Matrix: Water  
Associated Lab Samples: 92618820012, 92618820013, 92618820014, 92618820015, 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/11/22 16:40	
Arsenic	mg/L	ND	0.0050	0.0022	08/11/22 16:40	
Barium	mg/L	ND	0.0050	0.00067	08/11/22 16:40	
Beryllium	mg/L	ND	0.00050	0.000054	08/11/22 16:40	
Boron	mg/L	ND	0.040	0.0086	08/11/22 16:40	
Cadmium	mg/L	ND	0.00050	0.00011	08/11/22 16:40	
Chromium	mg/L	ND	0.0050	0.0011	08/11/22 16:40	
Cobalt	mg/L	ND	0.0050	0.00039	08/11/22 16:40	
Lead	mg/L	ND	0.0010	0.00089	08/11/22 16:40	
Lithium	mg/L	ND	0.030	0.00073	08/11/22 16:40	
Molybdenum	mg/L	ND	0.010	0.00074	08/11/22 16:40	
Selenium	mg/L	ND	0.0050	0.0014	08/11/22 16:40	
Thallium	mg/L	ND	0.0010	0.00018	08/11/22 16:40	

LABORATORY CONTROL SAMPLE: 3732803

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	0.098	98	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	1.0	102	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	101	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732804 3732805

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618823003 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	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-1-Revised Report

Pace Project No.: 92618820

Parameter	Units	3732804		3732805		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92618823003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	ND	0.1	0.1	0.099	0.092	98	91	75-125	7	20		
Barium	mg/L	0.048	0.1	0.1	0.15	0.16	105	110	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.086	0.079	86	79	75-125	8	20		
Boron	mg/L	1.0	1	1	2.0	2.0	99	90	75-125	4	20		
Cadmium	mg/L	ND	0.1	0.1	0.095	0.088	95	88	75-125	7	20		
Chromium	mg/L	ND	0.1	0.1	0.099	0.091	98	90	75-125	9	20		
Cobalt	mg/L	0.0058	0.1	0.1	0.10	0.095	95	89	75-125	6	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.090	96	90	75-125	6	20		
Lithium	mg/L	0.023J	0.1	0.1	0.11	0.10	88	79	75-125	8	20		
Molybdenum	mg/L	0.032	0.1	0.1	0.12	0.13	91	98	75-125	6	20		
Selenium	mg/L	ND	0.1	0.1	0.095	0.089	95	89	75-125	7	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.091	96	91	75-125	6	20		

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

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: 92618820022

METHOD BLANK: 3748677 Matrix: Water  
Associated Lab Samples: 92618820022

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.	MSD Spike Conc.	MS Result	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-1-Revised Report

Pace Project No.: 92618820

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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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

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: 92618820001, 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011, 92618820012, 92618820013, 92618820014, 92618820015

METHOD BLANK: 3733695 Matrix: Water

Associated Lab Samples: 92618820001, 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011, 92618820012, 92618820013, 92618820014, 92618820015

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	92618820001 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	0.0020	82	82	75-125	1	20	

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

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: 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

METHOD BLANK: 3733717 Matrix: Water  
Associated Lab Samples: 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

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	MS		MSD		% Rec		% Rec Limits	RPD	Max RPD	Qual	
		92618822001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec					% Rec
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0019	84	75	75-125	10	20	

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

QC Batch: 718669	Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A	Analysis Description: 7470 Mercury
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92618820022

METHOD BLANK: 3746073 Matrix: Water  
Associated Lab Samples: 92618820022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	08/23/22 08:35	

LABORATORY CONTROL SAMPLE: 3746074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3746075 3746076

Parameter	Units	3746075		3746076		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	92620540001 ND	0.0025	0.0025	0.0021	0.0020	86	80	75-125	6	20

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

QC Batch: 715588 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: 92618820001, 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011

METHOD BLANK: 3730515 Matrix: Water  
Associated Lab Samples: 92618820001, 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/08/22 09:16	

LABORATORY CONTROL SAMPLE: 3730516

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	395	99	80-120	

SAMPLE DUPLICATE: 3730517

Parameter	Units	92617392050 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	582	612	5	25	

SAMPLE DUPLICATE: 3730518

Parameter	Units	92618820002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	648	646	0	25	

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

QC Batch: 715879 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: 92618820012, 92618820013, 92618820014, 92618820015, 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

METHOD BLANK: 3731855 Matrix: Water  
Associated Lab Samples: 92618820012, 92618820013, 92618820014, 92618820015, 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/09/22 10:01	

LABORATORY CONTROL SAMPLE: 3731856

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

SAMPLE DUPLICATE: 3731857

Parameter	Units	92618823005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	334	334	0	25	

SAMPLE DUPLICATE: 3731858

Parameter	Units	92618820016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	302	335	10	25	

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

QC Batch: 717151

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: 92618820022

METHOD BLANK: 3738466

Matrix: Water

Associated Lab Samples: 92618820022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/15/22 11:23	

LABORATORY CONTROL SAMPLE: 3738467

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	415	104	80-120	

SAMPLE DUPLICATE: 3738468

Parameter	Units	92620164002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	226	227	0	25	

SAMPLE DUPLICATE: 3738469

Parameter	Units	92619171028 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		25	

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

QC Batch: 717507 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92618820001, 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011

METHOD BLANK: 3740325 Matrix: Water  
Associated Lab Samples: 92618820001, 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/16/22 19:16	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/16/22 19:16	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/16/22 19:16	

LABORATORY CONTROL SAMPLE: 3740326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

LABORATORY CONTROL SAMPLE: 3740327

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.4	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3740328 3740329

Parameter	Units	3740328		3740329		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	295	50	50	347	342	104	96	80-120	1	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3740330 3740331

Parameter	Units	3740330		3740331		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	ND	50	50	50.9	50.7	101	101	80-120	0	25

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

QC Batch: 717728 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92618820012, 92618820013, 92618820014, 92618820015, 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

METHOD BLANK: 3741339 Matrix: Water  
Associated Lab Samples: 92618820012, 92618820013, 92618820014, 92618820015, 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	08/17/22 12:09	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	08/17/22 12:09	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	08/17/22 12:09	

LABORATORY CONTROL SAMPLE: 3741340

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.6	103	80-120	

LABORATORY CONTROL SAMPLE: 3741341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3741344 3741345

Parameter	Units	3741344		3741345		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618823009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	ND	50	50	52.3	51.5	104	103	80-120	1	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3742568 3742569

Parameter	Units	3742568		3742569		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92618820012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Alkalinity, Total as CaCO3	mg/L	185	50	50	233	233	97	96	80-120	0	25

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

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: 92618820022

METHOD BLANK: 3744938 Matrix: Water  
Associated Lab Samples: 92618820022

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		3744942		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS 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		3744944		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS 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-1-Revised Report  
Pace Project No.: 92618820

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: 92618820001, 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011

METHOD BLANK: 3730185 Matrix: Water  
Associated Lab Samples: 92618820001, 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011

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 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	ND	0.5	0.5	0.52	0.55	101	108	80-120	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3730189 3730190

Parameter	Units	92618607002 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	0.49	92	92	80-120	0	10	

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

QC Batch: 716115 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: 92618820012, 92618820013, 92618820014, 92618820015, 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

METHOD BLANK: 3733268 Matrix: Water  
Associated Lab Samples: 92618820012, 92618820013, 92618820014, 92618820015, 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Sulfide	mg/L	ND	0.10	0.050	08/10/22 04:00	

LABORATORY CONTROL SAMPLE: 3733269

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3733270 3733271

Parameter	Units	92618823007 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	0.33	0.33	60	60	80-120	0	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3733272 3733273

Parameter	Units	92618820018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfide	mg/L	3.9	0.5	0.5	4.7	4.7	164	169	80-120	0	10	M1

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

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: 92618820022

METHOD BLANK: 3742818 Matrix: Water  
Associated Lab Samples: 92618820022

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		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
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		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
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-1-Revised Report  
Pace Project No.: 92618820

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: 92618820001, 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011

METHOD BLANK: 3736371 Matrix: Water  
Associated Lab Samples: 92618820001, 92618820002, 92618820003, 92618820004, 92618820005, 92618820006, 92618820007, 92618820008, 92618820009, 92618820010, 92618820011

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 Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
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 Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
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-1-Revised Report  
Pace Project No.: 92618820

QC Batch: 717488 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: 92618820012, 92618820013, 92618820014, 92618820015, 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

METHOD BLANK: 3740180 Matrix: Water  
Associated Lab Samples: 92618820012, 92618820013, 92618820014, 92618820015, 92618820016, 92618820017, 92618820018, 92618820019, 92618820020, 92618820021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/17/22 08:09	
Fluoride	mg/L	ND	0.10	0.050	08/17/22 08:09	
Sulfate	mg/L	ND	1.0	0.50	08/17/22 08:09	

LABORATORY CONTROL SAMPLE: 3740181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	49.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3740182 3740183

Parameter	Units	92618823003		3740183		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	2.7	50	50	54.9	54.4	104	104	90-110	1	10
Fluoride	mg/L	0.38	2.5	2.5	2.8	2.8	97	96	90-110	1	10
Sulfate	mg/L	230	50	50	276	276	93	93	90-110	0	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3740184 3740185

Parameter	Units	92618820014		3740185		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	11.3	50	50	63.6	63.4	105	104	90-110	0	10
Fluoride	mg/L	0.18	2.5	2.5	2.6	2.6	97	97	90-110	0	10
Sulfate	mg/L	412	50	50	465	460	106	96	90-110	1	10

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### QUALITY CONTROL DATA

Project: HAMMOND AP-1-Revised Report  
Pace Project No.: 92618820

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: 92618820022

METHOD BLANK: 3745484 Matrix: Water  
Associated Lab Samples: 92618820022

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		3745486		3745487		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
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	

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-1-Revised Report  
Pace Project No.: 92618820

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### 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 AP-1-Revised Report  
Pace Project No.: 92618820

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618820001	HGWC-7				
92618820002	HGWC-8				
92618820003	HGWC-10				
92618820004	HGWC-11				
92618820005	HGWC-12				
92618820006	HGWC-13				
92618820007	MW-5				
92618820008	MW-6				
92618820009	MW-24D				
92618820010	MW-27D				
92618820011	MW-29				
92618820012	HGWC-9				
92618820013	MW-7				
92618820014	MW-19				
92618820015	MW-20				
92618820016	MW-25D				
92618820017	MW-26D				
92618820018	MW-28D				
92618820022	HGWC-7				
92618820001	HGWC-7	EPA 3010A	715912	EPA 6010D	715979
92618820002	HGWC-8	EPA 3010A	716032	EPA 6010D	716586
92618820003	HGWC-10	EPA 3010A	716032	EPA 6010D	716586
92618820004	HGWC-11	EPA 3010A	716032	EPA 6010D	716586
92618820005	HGWC-12	EPA 3010A	716032	EPA 6010D	716586
92618820006	HGWC-13	EPA 3010A	716032	EPA 6010D	716586
92618820007	MW-5	EPA 3010A	716032	EPA 6010D	716586
92618820008	MW-6	EPA 3010A	716032	EPA 6010D	716586
92618820009	MW-24D	EPA 3010A	716032	EPA 6010D	716586
92618820010	MW-27D	EPA 3010A	716032	EPA 6010D	716586
92618820011	MW-29	EPA 3010A	716032	EPA 6010D	716586
92618820012	HGWC-9	EPA 3010A	716036	EPA 6010D	716583
92618820013	MW-7	EPA 3010A	716036	EPA 6010D	716583
92618820014	MW-19	EPA 3010A	716036	EPA 6010D	716583
92618820015	MW-20	EPA 3010A	716036	EPA 6010D	716583
92618820016	MW-25D	EPA 3010A	716036	EPA 6010D	716583
92618820017	MW-26D	EPA 3010A	716036	EPA 6010D	716583
92618820018	MW-28D	EPA 3010A	716036	EPA 6010D	716583
92618820019	DUP-1	EPA 3010A	716036	EPA 6010D	716583
92618820020	EB-1	EPA 3010A	716036	EPA 6010D	716583
92618820021	FB-1	EPA 3010A	716036	EPA 6010D	716583
92618820022	HGWC-7	EPA 3010A	718057	EPA 6010D	718149
92618820001	HGWC-7	EPA 3005A	715915	EPA 6020B	716062
92618820002	HGWC-8	EPA 3005A	715918	EPA 6020B	716063
92618820003	HGWC-10	EPA 3005A	715918	EPA 6020B	716063
92618820004	HGWC-11	EPA 3005A	715918	EPA 6020B	716063
92618820005	HGWC-12	EPA 3005A	715918	EPA 6020B	716063

### REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618820006	HGWC-13	EPA 3005A	715918	EPA 6020B	716063
92618820007	MW-5	EPA 3005A	715918	EPA 6020B	716063
92618820008	MW-6	EPA 3005A	715918	EPA 6020B	716063
92618820009	MW-24D	EPA 3005A	715918	EPA 6020B	716063
92618820010	MW-27D	EPA 3005A	715918	EPA 6020B	716063
92618820011	MW-29	EPA 3005A	715918	EPA 6020B	716063
92618820012	HGWC-9	EPA 3005A	716035	EPA 6020B	716280
92618820013	MW-7	EPA 3005A	716035	EPA 6020B	716280
92618820014	MW-19	EPA 3005A	716035	EPA 6020B	716280
92618820015	MW-20	EPA 3005A	716035	EPA 6020B	716280
92618820016	MW-25D	EPA 3005A	716035	EPA 6020B	716280
92618820017	MW-26D	EPA 3005A	716035	EPA 6020B	716280
92618820018	MW-28D	EPA 3005A	716035	EPA 6020B	716280
92618820019	DUP-1	EPA 3005A	716035	EPA 6020B	716280
92618820020	EB-1	EPA 3005A	716035	EPA 6020B	716280
92618820021	FB-1	EPA 3005A	716035	EPA 6020B	716280
92618820022	HGWC-7	EPA 3005A	719224	EPA 6020B	719388
92618820001	HGWC-7	EPA 7470A	716247	EPA 7470A	716490
92618820002	HGWC-8	EPA 7470A	716247	EPA 7470A	716490
92618820003	HGWC-10	EPA 7470A	716247	EPA 7470A	716490
92618820004	HGWC-11	EPA 7470A	716247	EPA 7470A	716490
92618820005	HGWC-12	EPA 7470A	716247	EPA 7470A	716490
92618820006	HGWC-13	EPA 7470A	716247	EPA 7470A	716490
92618820007	MW-5	EPA 7470A	716247	EPA 7470A	716490
92618820008	MW-6	EPA 7470A	716247	EPA 7470A	716490
92618820009	MW-24D	EPA 7470A	716247	EPA 7470A	716490
92618820010	MW-27D	EPA 7470A	716247	EPA 7470A	716490
92618820011	MW-29	EPA 7470A	716247	EPA 7470A	716490
92618820012	HGWC-9	EPA 7470A	716247	EPA 7470A	716490
92618820013	MW-7	EPA 7470A	716247	EPA 7470A	716490
92618820014	MW-19	EPA 7470A	716247	EPA 7470A	716490
92618820015	MW-20	EPA 7470A	716247	EPA 7470A	716490
92618820016	MW-25D	EPA 7470A	716252	EPA 7470A	716491
92618820017	MW-26D	EPA 7470A	716252	EPA 7470A	716491
92618820018	MW-28D	EPA 7470A	716252	EPA 7470A	716491
92618820019	DUP-1	EPA 7470A	716252	EPA 7470A	716491
92618820020	EB-1	EPA 7470A	716252	EPA 7470A	716491
92618820021	FB-1	EPA 7470A	716252	EPA 7470A	716491
92618820022	HGWC-7	EPA 7470A	718669	EPA 7470A	718906
92618820001	HGWC-7	SM 2540C-2015	715588		
92618820002	HGWC-8	SM 2540C-2015	715588		
92618820003	HGWC-10	SM 2540C-2015	715588		
92618820004	HGWC-11	SM 2540C-2015	715588		
92618820005	HGWC-12	SM 2540C-2015	715588		
92618820006	HGWC-13	SM 2540C-2015	715588		
92618820007	MW-5	SM 2540C-2015	715588		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618820008	MW-6	SM 2540C-2015	715588		
92618820009	MW-24D	SM 2540C-2015	715588		
92618820010	MW-27D	SM 2540C-2015	715588		
92618820011	MW-29	SM 2540C-2015	715588		
92618820012	HGWC-9	SM 2540C-2015	715879		
92618820013	MW-7	SM 2540C-2015	715879		
92618820014	MW-19	SM 2540C-2015	715879		
92618820015	MW-20	SM 2540C-2015	715879		
92618820016	MW-25D	SM 2540C-2015	715879		
92618820017	MW-26D	SM 2540C-2015	715879		
92618820018	MW-28D	SM 2540C-2015	715879		
92618820019	DUP-1	SM 2540C-2015	715879		
92618820020	EB-1	SM 2540C-2015	715879		
92618820021	FB-1	SM 2540C-2015	715879		
92618820022	HGWC-7	SM 2540C-2015	717151		
92618820001	HGWC-7	SM 2320B-2011	717507		
92618820002	HGWC-8	SM 2320B-2011	717507		
92618820003	HGWC-10	SM 2320B-2011	717507		
92618820004	HGWC-11	SM 2320B-2011	717507		
92618820005	HGWC-12	SM 2320B-2011	717507		
92618820006	HGWC-13	SM 2320B-2011	717507		
92618820007	MW-5	SM 2320B-2011	717507		
92618820008	MW-6	SM 2320B-2011	717507		
92618820009	MW-24D	SM 2320B-2011	717507		
92618820010	MW-27D	SM 2320B-2011	717507		
92618820011	MW-29	SM 2320B-2011	717507		
92618820012	HGWC-9	SM 2320B-2011	717728		
92618820013	MW-7	SM 2320B-2011	717728		
92618820014	MW-19	SM 2320B-2011	717728		
92618820015	MW-20	SM 2320B-2011	717728		
92618820016	MW-25D	SM 2320B-2011	717728		
92618820017	MW-26D	SM 2320B-2011	717728		
92618820018	MW-28D	SM 2320B-2011	717728		
92618820019	DUP-1	SM 2320B-2011	717728		
92618820020	EB-1	SM 2320B-2011	717728		
92618820021	FB-1	SM 2320B-2011	717728		
92618820022	HGWC-7	SM 2320B-2011	718423		
92618820001	HGWC-7	SM 4500-S2D-2011	715462		
92618820002	HGWC-8	SM 4500-S2D-2011	715462		
92618820003	HGWC-10	SM 4500-S2D-2011	715462		
92618820004	HGWC-11	SM 4500-S2D-2011	715462		
92618820005	HGWC-12	SM 4500-S2D-2011	715462		
92618820006	HGWC-13	SM 4500-S2D-2011	715462		
92618820007	MW-5	SM 4500-S2D-2011	715462		
92618820008	MW-6	SM 4500-S2D-2011	715462		
92618820009	MW-24D	SM 4500-S2D-2011	715462		

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-1-Revised Report

Pace Project No.: 92618820

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618820010	MW-27D	SM 4500-S2D-2011	715462		
92618820011	MW-29	SM 4500-S2D-2011	715462		
92618820012	HGWC-9	SM 4500-S2D-2011	716115		
92618820013	MW-7	SM 4500-S2D-2011	716115		
92618820014	MW-19	SM 4500-S2D-2011	716115		
92618820015	MW-20	SM 4500-S2D-2011	716115		
92618820016	MW-25D	SM 4500-S2D-2011	716115		
92618820017	MW-26D	SM 4500-S2D-2011	716115		
92618820018	MW-28D	SM 4500-S2D-2011	716115		
92618820019	DUP-1	SM 4500-S2D-2011	716115		
92618820020	EB-1	SM 4500-S2D-2011	716115		
92618820021	FB-1	SM 4500-S2D-2011	716115		
92618820022	HGWC-7	SM 4500-S2D-2011	717960		
92618820001	HGWC-7	EPA 300.0 Rev 2.1 1993	716707		
92618820002	HGWC-8	EPA 300.0 Rev 2.1 1993	716707		
92618820003	HGWC-10	EPA 300.0 Rev 2.1 1993	716707		
92618820004	HGWC-11	EPA 300.0 Rev 2.1 1993	716707		
92618820005	HGWC-12	EPA 300.0 Rev 2.1 1993	716707		
92618820006	HGWC-13	EPA 300.0 Rev 2.1 1993	716707		
92618820007	MW-5	EPA 300.0 Rev 2.1 1993	716707		
92618820008	MW-6	EPA 300.0 Rev 2.1 1993	716707		
92618820009	MW-24D	EPA 300.0 Rev 2.1 1993	716707		
92618820010	MW-27D	EPA 300.0 Rev 2.1 1993	716707		
92618820011	MW-29	EPA 300.0 Rev 2.1 1993	716707		
92618820012	HGWC-9	EPA 300.0 Rev 2.1 1993	717488		
92618820013	MW-7	EPA 300.0 Rev 2.1 1993	717488		
92618820014	MW-19	EPA 300.0 Rev 2.1 1993	717488		
92618820015	MW-20	EPA 300.0 Rev 2.1 1993	717488		
92618820016	MW-25D	EPA 300.0 Rev 2.1 1993	717488		
92618820017	MW-26D	EPA 300.0 Rev 2.1 1993	717488		
92618820018	MW-28D	EPA 300.0 Rev 2.1 1993	717488		
92618820019	DUP-1	EPA 300.0 Rev 2.1 1993	717488		
92618820020	EB-1	EPA 300.0 Rev 2.1 1993	717488		
92618820021	FB-1	EPA 300.0 Rev 2.1 1993	717488		
92618820022	HGWC-7	EPA 300.0 Rev 2.1 1993	718499		

## 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#: 92618820

Courier:  Fed Ex  UPS  USPS  Client  Pace  Other:



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 5/12/22 [Signature]

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

				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 checked="" 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

WO#: 92618820

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)	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/SK (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)	DGSU-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																													

BPIN

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.

Section A  
 Required Client Information:  
 Company: GA Power  
 Address: Atlanta GA  
 Report To: SCS Contacts  
 Copy To: Geosynics Contacts

Section B  
 Required Project Information:  
 Report To: SCS Contacts  
 Project Name: Hammond AP-1  
 Project Number: 10439

Section C  
 Invoice Information:  
 Attention: Southern Co.  
 Company Name:  
 Address:  
 City/State:  
 Project Manager: Nicole DOKO  
 Project No: 10439

REGULATORY AGENCY  
 NPDES  GROUND WATER  DRINKING WATER  
 UST  RCRA  OTHER    
 Site Location: \_\_\_\_\_ STATE: GA

Page: 1 of 1

ITEM #	Section D Required Client Information	VALID Matrix Codes CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preparatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Face Project No./ Lab I.D.	
					DATE	TIME								
1	HQWC-7	WVG G	8/3/2022	48:12	TK 8/2/2022	21	7	3	3	1	X	X	N	pH = 6.93
2	HQWC-8	WVG G	8/3/2022	08:15		21	7	3	3	1	X	X	N	pH = 6.84
3	HQWC-10	WVG G	8/3/2022	14:02		22	7	3	3	1	X	X	N	pH = 6.73
4	HQWC-11	WVG G	8/3/2022	08:48		22	7	3	3	1	X	X	N	pH = 6.23
5	HQWC-12	WVG G	8/3/2022	11:34		22	7	3	3	1	X	X	N	pH = 7.13
6	HQWC-13	WVG G	8/3/2022	11:25		22	7	3	3	1	X	X	N	pH = 7.08
7	MM-5	WVG G	8/3/2022	08:53		20	7	3	3	1	X	X	N	pH = 5.96
8	MM-6	WVG G	8/3/2022	14:24		22	7	3	3	1	X	X	N	pH = 6.41
9	MM-24D	WVG G	8/3/2022	12:50		22	7	3	3	1	X	X	N	pH = 7.59
10	MM-27D	WVG G	8/3/2022	12:15		23	7	3	3	1	X	X	N	pH = 7.40
11	MM-29	WVG G	8/3/2022	14:47		22	7	3	3	1	X	X	N	pH = 6.87
12														

REQUISITIONED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Therence Messick Ryan William Pava	8/1/2022	12:30	Ryan William Pava Claude Frazz	8/4/2022	12:30	Temp in °C Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)

ADDITIONAL COMMENTS

REQUISITIONED BY / AFFILIATION: Therence Messick  
 DATE: 8/1/2022  
 TIME: 12:30

ACCEPTED BY / AFFILIATION: Ryan William Pava  
 DATE: 8/4/2022  
 TIME: 12:30

SAMPLER NAME AND SIGNATURE: Ryan William Pava  
 DATE SIGNED: 8/13/2022

PRINT Name of SAMPLER: Therence Messick  
 SIGNATURE of SAMPLER: [Signature]

DATE SIGNED: 8/13/2022

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020 rev.07, 10-Feb-2007



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Knoxville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92618820

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Other:

PM: NMG Due Date: 08/18/22 CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 8/5/22 CDH

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: 1.8 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): 1.8

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	Comments/Discrepancy:
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2.
Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3.
Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
-Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
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 checked="" type="checkbox"/>	

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

Project #

WO#: 92618820

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 NazSO3 (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																										
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12																												

BP1N

PH 8/5/22

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.

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>		<b>Section D</b>	
Requested Client Information Company: GA Power Address: Atlanta, GA		Requested Project Information Report To: SCS Contacts Copy To: Geosynthetic Contacts		Invoice Information Address: Saddle Creek Company Name: City: State: Zip: Phone: Fax:		REGULATORY AGENCY NPOES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/> Site Location: _____ STATE: GA	
Requested Date of Collection: 11 Day		Project Name: Hammond AP-1		Reference Price Project: Nickel / DIBCO		Analysis Requested (Y/N)	
Requested Date of Delivery: 11 Day		Project Number: _____		Reference Price Project: Nickel / DIBCO		Chloride, Fluoride, Sulfate Full App III and IV metals RAD 228/228 TDS Major Ions Alkalinity, Bicarbonates	
Requested Date of Delivery: 11 Day		Project Number: _____		Reference Price Project: Nickel / DIBCO		Residual Chlorine (Y/N)	

ITEM #	Sample ID (4-2, 06/1-J) Samples IDs MUST BE UNIQUE	Matrix Code (see valid codes to left)	Sample Type (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES									ANALYSIS TEST					Residual Chlorine (Y/N)	Pack Project No / Lab ID.									
				DATE	TIME			UNPRESERVED	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Methanol	Other	Y	N	Y	N	Y	N			Y	N							
																										DATE	TIME	UNPRESERVED	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH
1	HQWC-9			8/4/2022	11:42	19	7	3	3	3	3	3																				
2	MM-7			8/4/2022	09:05	23	7	3	3	3	3																					
3	MM-19			8/4/2022	14:25	20	7	3	3	3	3																					
4	MM-28			8/4/2022	11:40	21	7	3	3	3	3																					
5	MM-25D			8/4/2022	09:28	21	7	3	3	3	3																					
6	MM-26D			8/4/2022	13:55	21	7	3	3	3	3																					
7	MM-28D			8/4/2022	08:55	21	7	3	3	3	3																					
8	DUP-1			8/4/2022	09:06	21	7	3	3	3	3																					
9	EB-1			8/4/2022	13:30	21	7	3	3	3	3																					
10	FB-1			8/4/2022	13:15	21	7	3	3	3	3																					
11				8/4/2022	13:15	21	7	3	3	3	3																					
12				8/4/2022	13:15	21	7	3	3	3	3																					

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: Thomas Kessler / GEOSYNTHETIC

DATE: 8/5/2022

TIME: 13:50

ACCEPTED BY / AFFILIATION: \_\_\_\_\_

DATE: 8/5/2022

TIME: 14:15

SAMPLER NAME AND SIGNATURE: Thomas Kessler / GEOSYNTHETIC

PRINT NAME OF SAMPLER: Thomas Kessler

SIGNATURE OF SAMPLER: [Signature]

DATE SIGNED: 8/5/2022

TEMP IN °C: \_\_\_\_\_

RECEIVED ON ICE (Y/N): \_\_\_\_\_

CUSTOMER SEALED COOLER (Y/N): \_\_\_\_\_

SAMPLES INTACT (Y/N): \_\_\_\_\_

Important Note: By signing this form you are accepting Price Analytical's 30 day payment terms and agreeing to the charges of 1.5% per month for any payments not paid within 30 days.

F-ALL-042020REV.07 30-Sep-2007



Lab#\_Title: ENV-FRM-MON-1-0003 V01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name:

GA Power

Project

WO#: 92618820

PM: NMG

Due Date: 08/18/22

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 [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: 0.0 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): 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

WO#: 92618820

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

Proj:

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP2U-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)	BP4E-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)	DG9U-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9U-40 mL VOA Na2S2O3 (N/A)	VG9L-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)		
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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.



# CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A** Required Client Information  
Company: GA Power  
Address: Atlanta, GA  
Email To: SCS Contacts  
Phone: [blank]  
Requested Due Date/TIME: 10 Day

**Section B** Required Project Information  
Report To: SCS Contacts  
Copy To: Geosyntec Contacts  
Purchased Order No: [blank]  
Project Name: Hammond AP-1  
Project Number: [blank]

**Section C** Hydraulic Information  
Company Name: Southern Co.  
Attention: Southern Co.  
Address: [blank]  
Project Code: [blank]  
Sutler No: [blank]  
Project Profile #: 10839

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER  
 DDT  RCRA  CERCLA  GHER CAL

Site Location: [blank]  
STATE: GA

**Section D** Required Client Information

**Valid Matrix Codes**

DRINKING WATER	CODE	01
WASTE WATER	CODE	02
WASTE WATER	CODE	03
WASTE WATER	CODE	04
WASTE WATER	CODE	05
WASTE WATER	CODE	06
WASTE WATER	CODE	07
WASTE WATER	CODE	08
WASTE WATER	CODE	09
WASTE WATER	CODE	10
WASTE WATER	CODE	11
WASTE WATER	CODE	12
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WASTE WATER	CODE	38
WASTE WATER	CODE	39
WASTE WATER	CODE	40
WASTE WATER	CODE	41
WASTE WATER	CODE	42
WASTE WATER	CODE	43
WASTE WATER	CODE	44
WASTE WATER	CODE	45
WASTE WATER	CODE	46
WASTE WATER	CODE	47
WASTE WATER	CODE	48
WASTE WATER	CODE	49
WASTE WATER	CODE	50

Sample IDs MUST BE UNIQUE

ITEM #	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Test	Requested Analysis Filled (Y/N)	Residual Chlorine (Y/N)				
1	HGWC-7	WG	G	8/11/23	1453	8/11/23	21	7	3	3	1	X	X	X	X	X	X	N	N	N	N	N	N

**REQUISITIONED BY / AFFILIATION**  
Name: Alex Brown / Soc  
Signature: [Signature]  
Date: 8/11/23  
Time: 1600

**ACCEPTED BY / AFFILIATION**  
Name: Yannis Haddad / Soc  
Signature: [Signature]  
Date: 8/11/23  
Time: 1125

**REQUISITIONED BY / AFFILIATION**  
Name: Ryan Williams / Soc  
Signature: [Signature]  
Date: 8/11/23  
Time: 1230

**ACCEPTED BY / AFFILIATION**  
Name: Yannis Haddad / Soc  
Signature: [Signature]  
Date: 8/11/23  
Time: 1250

**REQUISITIONED BY / AFFILIATION**  
Name: Alex Brown / Soc  
Signature: [Signature]  
Date: 8/11/2027  
Time: [blank]

**ADDITIONAL COMMENTS**

HGWC-7 (8/11/2022) is a re-sample

**TEMPERATURE**

Temp in °C	N
Received on Ice (Y/N)	N
Custody (Y/N)	N
Sealed (Y/N)	N
Samples Intact (Y/N)	N

**SAMPLER NAME AND SIGNATURE**  
PRINT Name of SAMPLER: Alex Brown  
SIGNATURE of SAMPLER: [Signature]

**DATE** 8/11/2027

September 22, 2022

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

RE: Project: HAMMOND AP-1 RAD  
Pace Project No.: 92618773

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

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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## CERTIFICATIONS

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92618773

---

### **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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92618773001	HGWC-7	Water	08/03/22 16:12	08/04/22 12:30
92618773002	HGWC-8	Water	08/03/22 09:15	08/04/22 12:30
92618773003	HGWC-10	Water	08/03/22 14:02	08/04/22 12:30
92618773004	HGWC-11	Water	08/03/22 09:48	08/04/22 12:30
92618773005	HGWC-12	Water	08/03/22 11:34	08/04/22 12:30
92618773006	HGWC-13	Water	08/03/22 11:25	08/04/22 12:30
92618773007	MW-5	Water	08/03/22 08:53	08/04/22 12:30
92618773008	MW-6	Water	08/03/22 14:24	08/04/22 12:30
92618773009	MW-24D	Water	08/03/22 12:50	08/04/22 12:30
92618773010	MW-27D	Water	08/03/22 12:15	08/04/22 12:30
92618773011	MW-29	Water	08/03/22 14:47	08/04/22 12:30
92618773012	HGWC-9	Water	08/04/22 11:42	08/05/22 14:15
92618773013	MW-7	Water	08/04/22 09:05	08/05/22 14:15
92618773014	MW-19	Water	08/04/22 14:25	08/05/22 14:15
92618773015	MW-20	Water	08/04/22 11:40	08/05/22 14:15
92618773016	MW-25D	Water	08/04/22 09:26	08/05/22 14:15
92618773017	MW-26D	Water	08/04/22 13:55	08/05/22 14:15
92618773018	MW-28D	Water	08/04/22 09:55	08/05/22 14:15
92618773019	DUP-1	Water	08/04/22 00:00	08/05/22 14:15
92618773020	EB-1	Water	08/04/22 13:30	08/05/22 14:15
92618773021	FB-1	Water	08/04/22 13:15	08/05/22 14:15
92618773022	HGWC-7	Water	08/11/22 14:53	08/12/22 11:25

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92618773

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92618773001	HGWC-7	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618773002	HGWC-8	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618773003	HGWC-10	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618773004	HGWC-11	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618773005	HGWC-12	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618773006	HGWC-13	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618773007	MW-5	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618773008	MW-6	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618773009	MW-24D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618773010	MW-27D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618773011	MW-29	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618773012	HGWC-9	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92618773013	MW-7	EPA 9315	RMS	1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92618773

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92618773014	MW-19	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92618773015	MW-20	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92618773016	MW-25D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92618773017	MW-26D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92618773018	MW-28D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92618773019	DUP-1	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92618773020	EB-1	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92618773021	FB-1	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92618773022	HGWC-7	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92618773

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92618773001</b>	<b>HGWC-7</b>					
EPA 9315	Radium-226	0.120 ± 0.206 (0.462) C:90% T:NA	pCi/L		09/06/22 09:26	
EPA 9320	Radium-228	0.300 ± 0.339 (0.709) C:81% T:84%	pCi/L		08/22/22 17:17	
Total Radium Calculation	Total Radium	0.420 ± 0.545 (1.17)	pCi/L		09/06/22 15:52	
<b>92618773002</b>	<b>HGWC-8</b>					
EPA 9315	Radium-226	0.0170 ± 0.170 (0.457) C:90% T:NA	pCi/L		09/06/22 09:26	
EPA 9320	Radium-228	0.438 ± 0.367 (0.735) C:74% T:93%	pCi/L		08/22/22 17:17	
Total Radium Calculation	Total Radium	0.455 ± 0.537 (1.19)	pCi/L		09/06/22 15:52	
<b>92618773003</b>	<b>HGWC-10</b>					
EPA 9315	Radium-226	0.176 ± 0.250 (0.536) C:74% T:NA	pCi/L		09/06/22 09:26	
EPA 9320	Radium-228	0.278 ± 0.325 (0.679) C:75% T:91%	pCi/L		08/22/22 17:18	
Total Radium Calculation	Total Radium	0.454 ± 0.575 (1.22)	pCi/L		09/06/22 15:52	
<b>92618773004</b>	<b>HGWC-11</b>					
EPA 9315	Radium-226	0.146 ± 0.195 (0.406) C:91% T:NA	pCi/L		09/06/22 09:26	
EPA 9320	Radium-228	0.677 ± 0.402 (0.738) C:73% T:92%	pCi/L		08/22/22 17:18	
Total Radium Calculation	Total Radium	0.823 ± 0.597 (1.14)	pCi/L		09/06/22 15:52	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92618773

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92618773005</b>	<b>HGWC-12</b>					
EPA 9315	Radium-226	0.164 ± 0.229 (0.492) C:88% T:NA	pCi/L		09/06/22 09:26	
EPA 9320	Radium-228	0.254 ± 0.352 (0.754) C:73% T:94%	pCi/L		08/22/22 17:18	
Total Radium Calculation	Total Radium	0.418 ± 0.581 (1.25)	pCi/L		09/06/22 15:52	
<b>92618773006</b>	<b>HGWC-13</b>					
EPA 9315	Radium-226	0.141 ± 0.232 (0.518) C:94% T:NA	pCi/L		09/06/22 09:26	
EPA 9320	Radium-228	0.399 ± 0.378 (0.771) C:76% T:91%	pCi/L		08/22/22 17:18	
Total Radium Calculation	Total Radium	0.540 ± 0.610 (1.29)	pCi/L		09/06/22 15:52	
<b>92618773007</b>	<b>MW-5</b>					
EPA 9315	Radium-226	-0.0887 ± 0.160 (0.529) C:83% T:NA	pCi/L		09/06/22 09:26	
EPA 9320	Radium-228	0.630 ± 0.397 (0.734) C:71% T:89%	pCi/L		08/22/22 17:18	
Total Radium Calculation	Total Radium	0.630 ± 0.557 (1.26)	pCi/L		09/06/22 15:52	
<b>92618773008</b>	<b>MW-6</b>					
EPA 9315	Radium-226	0.134 ± 0.214 (0.474) C:86% T:NA	pCi/L		09/06/22 09:26	
EPA 9320	Radium-228	0.409 ± 0.377 (0.766) C:73% T:91%	pCi/L		08/22/22 17:18	
Total Radium Calculation	Total Radium	0.543 ± 0.591 (1.24)	pCi/L		09/06/22 15:52	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92618773009</b>	<b>MW-24D</b>					
EPA 9315	Radium-226	-0.0209 ± 0.179 (0.530) C:69% T:NA	pCi/L		09/06/22 09:26	
EPA 9320	Radium-228	0.263 ± 0.313 (0.658) C:73% T:96%	pCi/L		08/22/22 17:19	
Total Radium Calculation	Total Radium	0.263 ± 0.492 (1.19)	pCi/L		09/06/22 15:52	
<b>92618773010</b>	<b>MW-27D</b>					
EPA 9315	Radium-226	0.288 ± 0.366 (0.793) C:90% T:NA	pCi/L		09/06/22 08:50	
EPA 9320	Radium-228	0.397 ± 0.328 (0.651) C:77% T:94%	pCi/L		08/22/22 17:19	
Total Radium Calculation	Total Radium	0.685 ± 0.694 (1.44)	pCi/L		09/06/22 15:52	
<b>92618773011</b>	<b>MW-29</b>					
EPA 9315	Radium-226	0.206 ± 0.269 (0.572) C:84% T:NA	pCi/L		09/06/22 08:50	
EPA 9320	Radium-228	0.375 ± 0.346 (0.702) C:81% T:88%	pCi/L		08/22/22 17:18	
Total Radium Calculation	Total Radium	0.581 ± 0.615 (1.27)	pCi/L		09/06/22 15:52	
<b>92618773012</b>	<b>HGWC-9</b>					
EPA 9315	Radium-226	0.233 ± 0.214 (0.383) C:96% T:NA	pCi/L		09/06/22 08:27	
EPA 9320	Radium-228	0.364 ± 0.308 (0.618) C:83% T:92%	pCi/L		08/29/22 11:34	
Total Radium Calculation	Total Radium	0.597 ± 0.522 (1.00)	pCi/L		09/06/22 15:52	

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92618773

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92618773013</b>	<b>MW-7</b>					
EPA 9315	Radium-226	0.630 ± 0.373 (0.558) C:80% T:NA	pCi/L		09/06/22 08:27	
EPA 9320	Radium-228	0.554 ± 0.396 (0.767) C:73% T:81%	pCi/L		08/29/22 11:34	
Total Radium Calculation	Total Radium	1.18 ± 0.769 (1.33)	pCi/L		09/06/22 15:52	
<b>92618773014</b>	<b>MW-19</b>					
EPA 9315	Radium-226	0.0557 ± 0.165 (0.404) C:94% T:NA	pCi/L		09/07/22 08:50	
EPA 9320	Radium-228	0.453 ± 0.307 (0.572) C:82% T:87%	pCi/L		08/29/22 12:29	
Total Radium Calculation	Total Radium	0.509 ± 0.472 (0.976)	pCi/L		09/08/22 18:24	
<b>92618773015</b>	<b>MW-20</b>					
EPA 9315	Radium-226	0.175 ± 0.176 (0.331) C:89% T:NA	pCi/L		09/07/22 08:53	
EPA 9320	Radium-228	0.871 ± 0.444 (0.771) C:73% T:85%	pCi/L		08/29/22 14:43	
Total Radium Calculation	Total Radium	1.05 ± 0.620 (1.10)	pCi/L		09/08/22 18:24	
<b>92618773016</b>	<b>MW-25D</b>					
EPA 9315	Radium-226	0.808 ± 0.327 (0.372) C:90% T:NA	pCi/L		09/07/22 08:54	
EPA 9320	Radium-228	0.845 ± 0.362 (0.553) C:77% T:94%	pCi/L		08/29/22 14:43	
Total Radium Calculation	Total Radium	1.65 ± 0.689 (0.925)	pCi/L		09/08/22 18:24	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92618773

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92618773017</b>	<b>MW-26D</b>					
EPA 9315	Radium-226	-0.0234 ± 0.115 (0.349) C:88% T:NA	pCi/L		09/07/22 08:54	
EPA 9320	Radium-228	0.0273 ± 0.289 (0.677) C:76% T:87%	pCi/L		08/29/22 15:35	
Total Radium Calculation	Total Radium	0.0273 ± 0.404 (1.03)	pCi/L		09/08/22 18:24	
<b>92618773018</b>	<b>MW-28D</b>					
EPA 9315	Radium-226	0.475 ± 0.280 (0.448) C:90% T:NA	pCi/L		09/07/22 08:55	
EPA 9320	Radium-228	0.365 ± 0.326 (0.657) C:76% T:92%	pCi/L		08/29/22 14:43	
Total Radium Calculation	Total Radium	0.840 ± 0.606 (1.11)	pCi/L		09/08/22 18:24	
<b>92618773019</b>	<b>DUP-1</b>					
EPA 9315	Radium-226	0.0406 ± 0.127 (0.318) C:86% T:NA	pCi/L		09/07/22 08:41	
EPA 9320	Radium-228	0.202 ± 0.347 (0.757) C:74% T:92%	pCi/L		08/29/22 14:44	
Total Radium Calculation	Total Radium	0.243 ± 0.474 (1.08)	pCi/L		09/08/22 18:24	
<b>92618773020</b>	<b>EB-1</b>					
EPA 9315	Radium-226	0.105 ± 0.176 (0.395) C:90% T:NA	pCi/L		09/07/22 08:43	
EPA 9320	Radium-228	0.474 ± 0.347 (0.669) C:76% T:96%	pCi/L		08/29/22 15:35	
Total Radium Calculation	Total Radium	0.579 ± 0.523 (1.06)	pCi/L		09/08/22 18:24	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92618773

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92618773021</b>	<b>FB-1</b>					
EPA 9315	Radium-226	0.0356 ± 0.135 (0.344) C:93% T:NA	pCi/L		09/07/22 08:43	
EPA 9320	Radium-228	-0.0322 ± 0.248 (0.594) C:79% T:94%	pCi/L		08/29/22 14:44	
Total Radium Calculation	Total Radium	0.0356 ± 0.383 (0.938)	pCi/L		09/08/22 18:24	
<b>92618773022</b>	<b>HGWC-7</b>					
EPA 9315	Radium-226	0.0292 ± 0.0969 (0.244) C:92% T:NA	pCi/L		09/12/22 09:16	
EPA 9320	Radium-228	0.432 ± 0.320 (0.625) C:79% T:95%	pCi/L		09/06/22 11:53	
Total Radium Calculation	Total Radium	0.461 ± 0.417 (0.869)	pCi/L		09/12/22 15:39	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: HGWC-7**      **Lab ID: 92618773001**      Collected: 08/03/22 16:12      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	<b>0.120 ± 0.206 (0.462)</b> <b>C:90% T:NA</b>	pCi/L	09/06/22 09:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.300 ± 0.339 (0.709)</b> <b>C:81% T:84%</b>	pCi/L	08/22/22 17:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.420 ± 0.545 (1.17)</b>	pCi/L	09/06/22 15:52	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: HGWC-8**      **Lab ID: 92618773002**      Collected: 08/03/22 09:15      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	<b>0.0170 ± 0.170 (0.457)</b> <b>C:90% T:NA</b>	pCi/L	09/06/22 09:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.438 ± 0.367 (0.735)</b> <b>C:74% T:93%</b>	pCi/L	08/22/22 17:17	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.455 ± 0.537 (1.19)</b>	pCi/L	09/06/22 15:52	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: HGWC-10**      **Lab ID: 92618773003**      Collected: 08/03/22 14:02      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	<b>0.176 ± 0.250 (0.536)</b> <b>C:74% T:NA</b>	pCi/L	09/06/22 09:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.278 ± 0.325 (0.679)</b> <b>C:75% T:91%</b>	pCi/L	08/22/22 17:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.454 ± 0.575 (1.22)</b>	pCi/L	09/06/22 15:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: HGWC-11**      **Lab ID: 92618773004**      Collected: 08/03/22 09:48      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	<b>0.146 ± 0.195 (0.406)</b> <b>C:91% T:NA</b>	pCi/L	09/06/22 09:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.677 ± 0.402 (0.738)</b> <b>C:73% T:92%</b>	pCi/L	08/22/22 17:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.823 ± 0.597 (1.14)</b>	pCi/L	09/06/22 15:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: HGWC-12</b> <b>Lab ID: 92618773005</b> Collected: 08/03/22 11:34      Received: 08/04/22 12:30      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.164 ± 0.229 (0.492)</b> <b>C:88% T:NA</b>	pCi/L	09/06/22 09:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.254 ± 0.352 (0.754)</b> <b>C:73% T:94%</b>	pCi/L	08/22/22 17:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.418 ± 0.581 (1.25)</b>	pCi/L	09/06/22 15:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: HGWC-13**      **Lab ID: 92618773006**      Collected: 08/03/22 11:25      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	<b>0.141 ± 0.232 (0.518)</b> <b>C:94% T:NA</b>	pCi/L	09/06/22 09:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.399 ± 0.378 (0.771)</b> <b>C:76% T:91%</b>	pCi/L	08/22/22 17:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.540 ± 0.610 (1.29)</b>	pCi/L	09/06/22 15:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: MW-5**      **Lab ID: 92618773007**      Collected: 08/03/22 08:53      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	<b>-0.0887 ± 0.160 (0.529)</b> <b>C:83% T:NA</b>	pCi/L	09/06/22 09:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.630 ± 0.397 (0.734)</b> <b>C:71% T:89%</b>	pCi/L	08/22/22 17:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.630 ± 0.557 (1.26)</b>	pCi/L	09/06/22 15:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: MW-6**      **Lab ID: 92618773008**      Collected: 08/03/22 14:24      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	<b>0.134 ± 0.214 (0.474)</b> <b>C:86% T:NA</b>	pCi/L	09/06/22 09:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.409 ± 0.377 (0.766)</b> <b>C:73% T:91%</b>	pCi/L	08/22/22 17:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.543 ± 0.591 (1.24)</b>	pCi/L	09/06/22 15:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MW-24D</b> <b>Lab ID: 92618773009</b> Collected: 08/03/22 12:50      Received: 08/04/22 12:30      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.0209 ± 0.179 (0.530)</b> <b>C:69% T:NA</b>	pCi/L	09/06/22 09:26	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.263 ± 0.313 (0.658)</b> <b>C:73% T:96%</b>	pCi/L	08/22/22 17:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.263 ± 0.492 (1.19)</b>	pCi/L	09/06/22 15:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: MW-27D**      **Lab ID: 92618773010**      Collected: 08/03/22 12:15      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	<b>0.288 ± 0.366 (0.793)</b> <b>C:90% T:NA</b>	pCi/L	09/06/22 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.397 ± 0.328 (0.651)</b> <b>C:77% T:94%</b>	pCi/L	08/22/22 17:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.685 ± 0.694 (1.44)</b>	pCi/L	09/06/22 15:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: MW-29**      **Lab ID: 92618773011**      Collected: 08/03/22 14:47      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	<b>0.206 ± 0.269 (0.572)</b> <b>C:84% T:NA</b>	pCi/L	09/06/22 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.375 ± 0.346 (0.702)</b> <b>C:81% T:88%</b>	pCi/L	08/22/22 17:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.581 ± 0.615 (1.27)</b>	pCi/L	09/06/22 15:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: HGWC-9**      **Lab ID: 92618773012**      Collected: 08/04/22 11:42      Received: 08/05/22 14:15      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	<b>0.233 ± 0.214 (0.383)</b> <b>C:96% T:NA</b>	pCi/L	09/06/22 08:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.364 ± 0.308 (0.618)</b> <b>C:83% T:92%</b>	pCi/L	08/29/22 11:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.597 ± 0.522 (1.00)</b>	pCi/L	09/06/22 15:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: MW-7**      **Lab ID: 92618773013**      Collected: 08/04/22 09:05      Received: 08/05/22 14:15      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	<b>0.630 ± 0.373 (0.558)</b> <b>C:80% T:NA</b>	pCi/L	09/06/22 08:27	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.554 ± 0.396 (0.767)</b> <b>C:73% T:81%</b>	pCi/L	08/29/22 11:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.18 ± 0.769 (1.33)</b>	pCi/L	09/06/22 15:52	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: MW-19**      **Lab ID: 92618773014**      Collected: 08/04/22 14:25      Received: 08/05/22 14:15      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	<b>0.0557 ± 0.165 (0.404)</b> <b>C:94% T:NA</b>	pCi/L	09/07/22 08:50	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.453 ± 0.307 (0.572)</b> <b>C:82% T:87%</b>	pCi/L	08/29/22 12:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.509 ± 0.472 (0.976)</b>	pCi/L	09/08/22 18:24	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MW-20</b> <b>Lab ID: 92618773015</b> Collected: 08/04/22 11:40      Received: 08/05/22 14:15      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.175 ± 0.176 (0.331)</b> <b>C:89% T:NA</b>	pCi/L	09/07/22 08:53	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.871 ± 0.444 (0.771)</b> <b>C:73% T:85%</b>	pCi/L	08/29/22 14:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.05 ± 0.620 (1.10)</b>	pCi/L	09/08/22 18:24	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: MW-25D**      **Lab ID: 92618773016**      Collected: 08/04/22 09:26      Received: 08/05/22 14:15      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	<b>0.808 ± 0.327 (0.372)</b> <b>C:90% T:NA</b>	pCi/L	09/07/22 08:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.845 ± 0.362 (0.553)</b> <b>C:77% T:94%</b>	pCi/L	08/29/22 14:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.65 ± 0.689 (0.925)</b>	pCi/L	09/08/22 18:24	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: MW-26D</b> <b>Lab ID: 92618773017</b> Collected: 08/04/22 13:55      Received: 08/05/22 14:15      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>-0.0234 ± 0.115 (0.349)</b> <b>C:88% T:NA</b>	pCi/L	09/07/22 08:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0273 ± 0.289 (0.677)</b> <b>C:76% T:87%</b>	pCi/L	08/29/22 15:35	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.0273 ± 0.404 (1.03)</b>	pCi/L	09/08/22 18:24	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: MW-28D**      **Lab ID: 92618773018**      Collected: 08/04/22 09:55      Received: 08/05/22 14:15      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	<b>0.475 ± 0.280 (0.448)</b> <b>C:90% T:NA</b>	pCi/L	09/07/22 08:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.365 ± 0.326 (0.657)</b> <b>C:76% T:92%</b>	pCi/L	08/29/22 14:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.840 ± 0.606 (1.11)</b>	pCi/L	09/08/22 18:24	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: DUP-1**      **Lab ID: 92618773019**      Collected: 08/04/22 00:00      Received: 08/05/22 14:15      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	<b>0.0406 ± 0.127 (0.318)</b> <b>C:86% T:NA</b>	pCi/L	09/07/22 08:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.202 ± 0.347 (0.757)</b> <b>C:74% T:92%</b>	pCi/L	08/29/22 14:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.243 ± 0.474 (1.08)</b>	pCi/L	09/08/22 18:24	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

**Sample: EB-1**      **Lab ID: 92618773020**      Collected: 08/04/22 13:30      Received: 08/05/22 14:15      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	<b>0.105 ± 0.176 (0.395)</b> <b>C:90% T:NA</b>	pCi/L	09/07/22 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.474 ± 0.347 (0.669)</b> <b>C:76% T:96%</b>	pCi/L	08/29/22 15:35	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.579 ± 0.523 (1.06)</b>	pCi/L	09/08/22 18:24	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: FB-1</b> <b>Lab ID: 92618773021</b> Collected: 08/04/22 13:15      Received: 08/05/22 14:15      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0356 ± 0.135 (0.344)</b> <b>C:93% T:NA</b>	pCi/L	09/07/22 08:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>-0.0322 ± 0.248 (0.594)</b> <b>C:79% T:94%</b>	pCi/L	08/29/22 14:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.0356 ± 0.383 (0.938)</b>	pCi/L	09/08/22 18:24	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: HGWC-7</b> <b>Lab ID: 92618773022</b> Collected: 08/11/22 14:53      Received: 08/12/22 11:25      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0292 ± 0.0969 (0.244)</b> C:92% T:NA	pCi/L	09/12/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.432 ± 0.320 (0.625)</b> C:79% T:95%	pCi/L	09/06/22 11:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.461 ± 0.417 (0.869)</b>	pCi/L	09/12/22 15:39	7440-14-4	

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**QUALITY CONTROL - RADIOCHEMISTRY**

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

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QC Batch:	525510	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92618773001, 92618773002, 92618773003, 92618773004, 92618773005, 92618773006, 92618773007, 92618773008, 92618773009, 92618773010, 92618773011, 92618773012, 92618773013

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METHOD BLANK:	2549236	Matrix:	Water
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Associated Lab Samples: 92618773001, 92618773002, 92618773003, 92618773004, 92618773005, 92618773006, 92618773007, 92618773008, 92618773009, 92618773010, 92618773011, 92618773012, 92618773013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.171 ± 0.214 (0.439) C:89% T:NA	pCi/L	09/06/22 09:26	

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.

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

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: 92618773022

METHOD BLANK: 2572288

Matrix: Water

Associated Lab Samples: 92618773022

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-1 RAD

Pace Project No.: 92618773

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: 92618773022

METHOD BLANK: 2554429

Matrix: Water

Associated Lab Samples: 92618773022

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	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92618773

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:	92618773012, 92618773013, 92618773014, 92618773015, 92618773016, 92618773017, 92618773018, 92618773019, 92618773020, 92618773021		

METHOD BLANK:	2551553	Matrix:	Water
Associated Lab Samples:	92618773012, 92618773013, 92618773014, 92618773015, 92618773016, 92618773017, 92618773018, 92618773019, 92618773020, 92618773021		

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	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

QC Batch:	525938	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg
Associated Lab Samples:	92618773001, 92618773002, 92618773003, 92618773004, 92618773005, 92618773006, 92618773007, 92618773008, 92618773009, 92618773010, 92618773011		

METHOD BLANK:	2551498	Matrix:	Water
Associated Lab Samples:	92618773001, 92618773002, 92618773003, 92618773004, 92618773005, 92618773006, 92618773007, 92618773008, 92618773009, 92618773010, 92618773011		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0673 ± 0.311 (0.742) C:77% T:89%	pCi/L	08/22/22 17:19	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92618773

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: 92618773014, 92618773015, 92618773016, 92618773017, 92618773018, 92618773019, 92618773020, 92618773021

METHOD BLANK: 2549243

Matrix: Water

Associated Lab Samples: 92618773014, 92618773015, 92618773016, 92618773017, 92618773018, 92618773019, 92618773020, 92618773021

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-1 RAD

Pace Project No.: 92618773

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### 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-1 RAD  
Pace Project No.: 92618773

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618773001	HGWC-7	EPA 9315	525510		
92618773002	HGWC-8	EPA 9315	525510		
92618773003	HGWC-10	EPA 9315	525510		
92618773004	HGWC-11	EPA 9315	525510		
92618773005	HGWC-12	EPA 9315	525510		
92618773006	HGWC-13	EPA 9315	525510		
92618773007	MW-5	EPA 9315	525510		
92618773008	MW-6	EPA 9315	525510		
92618773009	MW-24D	EPA 9315	525510		
92618773010	MW-27D	EPA 9315	525510		
92618773011	MW-29	EPA 9315	525510		
92618773012	HGWC-9	EPA 9315	525510		
92618773013	MW-7	EPA 9315	525510		
92618773014	MW-19	EPA 9315	525513		
92618773015	MW-20	EPA 9315	525513		
92618773016	MW-25D	EPA 9315	525513		
92618773017	MW-26D	EPA 9315	525513		
92618773018	MW-28D	EPA 9315	525513		
92618773019	DUP-1	EPA 9315	525513		
92618773020	EB-1	EPA 9315	525513		
92618773021	FB-1	EPA 9315	525513		
92618773022	HGWC-7	EPA 9315	530296		
92618773001	HGWC-7	EPA 9320	525938		
92618773002	HGWC-8	EPA 9320	525938		
92618773003	HGWC-10	EPA 9320	525938		
92618773004	HGWC-11	EPA 9320	525938		
92618773005	HGWC-12	EPA 9320	525938		
92618773006	HGWC-13	EPA 9320	525938		
92618773007	MW-5	EPA 9320	525938		
92618773008	MW-6	EPA 9320	525938		
92618773009	MW-24D	EPA 9320	525938		
92618773010	MW-27D	EPA 9320	525938		
92618773011	MW-29	EPA 9320	525938		
92618773012	HGWC-9	EPA 9320	525947		
92618773013	MW-7	EPA 9320	525947		
92618773014	MW-19	EPA 9320	525947		
92618773015	MW-20	EPA 9320	525947		
92618773016	MW-25D	EPA 9320	525947		
92618773017	MW-26D	EPA 9320	525947		
92618773018	MW-28D	EPA 9320	525947		
92618773019	DUP-1	EPA 9320	525947		
92618773020	EB-1	EPA 9320	525947		
92618773021	FB-1	EPA 9320	525947		
92618773022	HGWC-7	EPA 9320	526536		
92618773001	HGWC-7	Total Radium Calculation	530889		
92618773002	HGWC-8	Total Radium Calculation	530889		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-1 RAD  
Pace Project No.: 92618773

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92618773003	HGWC-10	Total Radium Calculation	530889		
92618773004	HGWC-11	Total Radium Calculation	530889		
92618773005	HGWC-12	Total Radium Calculation	530889		
92618773006	HGWC-13	Total Radium Calculation	530889		
92618773007	MW-5	Total Radium Calculation	530889		
92618773008	MW-6	Total Radium Calculation	530889		
92618773009	MW-24D	Total Radium Calculation	530889		
92618773010	MW-27D	Total Radium Calculation	530889		
92618773011	MW-29	Total Radium Calculation	530889		
92618773012	HGWC-9	Total Radium Calculation	530889		
92618773013	MW-7	Total Radium Calculation	530889		
92618773014	MW-19	Total Radium Calculation	531569		
92618773015	MW-20	Total Radium Calculation	531569		
92618773016	MW-25D	Total Radium Calculation	531569		
92618773017	MW-26D	Total Radium Calculation	531569		
92618773018	MW-28D	Total Radium Calculation	531569		
92618773019	DUP-1	Total Radium Calculation	531569		
92618773020	EB-1	Total Radium Calculation	531569		
92618773021	FB-1	Total Radium Calculation	531569		
92618773022	HGWC-7	Total Radium Calculation	532141		

### 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#: 92618773



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 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 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

**WO#: 92618773**

Project #

PM: NMG

Due Date: 08/25/22

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#	BP4L-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3L-250 mL Plastic Unpreserved (N/A)	BP2L-500 mL Plastic Unpreserved (N/A)	BP1L-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-)	WGFJ-Wide-mouthed Glass jar Unpreserved	AG1L-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3L-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.



# CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: GA Power Address: Atlanta, GA

Section B Required Project Information: Report To: SCS Contacts Copy To: Geosynthetic Contacts

Section C Invoice Information: Attention: Southem Cd. Company Name: Address: Regulatory Agency: NPDES  GROUND WATER  DRINKING WATER  OTHER

Requested Client Information: Company: GA Power Address: Atlanta, GA

Required Project Information: Report To: SCS Contacts Copy To: Geosynthetic Contacts

Invoice Information: Attention: Southem Cd. Company Name: Address: Regulatory Agency: NPDES  GROUND WATER  DRINKING WATER  OTHER

Requested Analysis Filtered (Y/N): Chloride, Fluoride, Sulfate (N), Full App. III and IV metals (N), RAD 226/228 (N), TDS (N), Major Ions (N), Alkalinity, Bicarbonate (N), Residual Chlorine (Y/N)

ITEM #	Section D Required Client Information	VOID MATRIX CODES MATRIX OPENING WATER DW WASTE WATER WW PRODUCT SOLVENT OIL WIFE AIR OTHER MSW	CODE	MATRIX CODE (see void 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)	Pace Project No./ Lab I.D.	
						DATE	TIME								
1	HGWC-7			WG G	G	8/2/2022	16:12	TK 8/2/2022	21	7	3	3	1		
2	HGWC-8			WG G	G	8/2/2022	08:15		21	7	3	3	1		
3	HGWC-10			WG G	G	8/2/2022	14:02		22	7	3	3	1		
4	HGWC-11			WG G	G	8/2/2022	09:48		22	7	3	3	1		
5	HGWC-12			WG G	G	8/2/2022	11:34		22	7	3	3	1		
6	HGWC-13			WG G	G	8/2/2022	11:25		22	7	3	3	1		
7	MMW-5			WG G	G	8/2/2022	08:53		20	7	3	3	1		
8	MMW-6			WG G	G	8/2/2022	14:24		22	7	3	3	1		
9	MMW-24D			WG G	G	8/2/2022	12:50		22	7	3	3	1		
10	MMW-27D			WG G	G	8/2/2022	12:15		23	7	3	3	1		
11	MMW-29			WG G	G	8/2/2022	14:47		22	7	3	3	1		
12															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Business Associates	8/1/2022	12:30	Ryan William Pace	8/4/2022	12:30	
	Ryan William Pace	8/4/2022	15:15	Clayton A. Hunt	8/4/2022	15:15	

Temp in °C: \_\_\_\_\_

Received on Ice (Y/N): \_\_\_\_\_

Custody Sealed Cooler (Y/N): \_\_\_\_\_

Samples Intact (Y/N): \_\_\_\_\_

Signature: Ryan William Pace

Date: 8/4/2022

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 18-Feb-2007



DC#\_ Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

~~Ashville~~ ~~Eden~~ ~~Greenwood~~ ~~Huntersville~~ ~~Raleigh~~ ~~Mechanicsville~~  Atlanta ~~Kernersville~~

Sample Condition Upon Receipt

Client Name: GA Power

Project # WO#: 92618773  
PM: NMG Due Date: 08/19/22  
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: 230 Type of Ice:  Wet  Blue  None

Cooler Temp: 3.0 Correction Factor: 0.0 Add/Subtract (°C)

Cooler Temp Corrected (°C): 3.0

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

Date/Initials Person Examining Contents: 07/31/22  
128  
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

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 checked="" 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

\*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# : 92618773**

PM: NMG

Due Date: 08/19/22

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 (>8)	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			1	1	1	1																					
2	2	1			1	1	1	1																					
3	2	1			1	1	1	1																					
4	2	1			1	1	1	1																					
5	2	1			1	1	1	1																					
6	2	1			1	1	1	1																					
7	2	1			1	1	1	1																					
8	2	1			1	1	1	1																					
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.

Section A Requested Client Information Company: <b>GA Power</b> Address: <b>Atlanta, GA</b>	Section B Requested Project Information Report To: <b>SCS Contracts</b> Copy To: <b>Geosynthetic Contracts</b>	Section C Invoice Information Address: <b>Southern Co.</b> Company Name: <b>Southern Co.</b>	REGULATORY AGENCY <input type="checkbox"/> NPOES <input type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> DRINKING WATER <input type="checkbox"/> USE1 <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER State: <b>GA</b>
Requested Date: <b>11 Day</b>	Project Name: <b>Hammond AP-1</b>	Project Address: <b>Nickle Dicks</b>	State: <b>GA</b>
Project Number: <b>10839</b>	Project Number: <b>10839</b>	Project Number: <b>10839</b>	State: <b>GA</b>

ITEM #	Section D Required Client Information Valid Analyte Codes DRINKING WATER WASTE WATER GROUNDWATER OTHER	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVED		ANALYSIS TEST		Residual Chlorine (Y/N)	Pack Project No./ Lab ID			
					DATE	TIME			DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>			HNO <sub>3</sub>	HCl	NaOH
1	HQWC-9	WG G	8/4/2022	11:42	TK 8/4/2022	21	7	3	3	1							
2	MM-7	WG G	8/4/2022	08:05		18	7	3	3	1							
3	MM-19	WG G	8/4/2022	14:25		23	7	3	3	1							
4	MM-28	WG G	8/4/2022	11:40		20	7	3	3	1							
5	MM-25D	WG G	8/4/2022	09:28		21	7	3	3	1							
6	MM-26D	WG G	8/4/2022	13:55		21	7	3	3	1							
7	MM-28D	WG G	8/4/2022	08:55		21	7	3	3	1							
8	DUP-1	WG G	8/4/2022	09:06		21	7	3	3	1							
9	EB-1	WG G	8/4/2022	13:30		21	7	3	3	1							
10	FB-1	WG G	8/4/2022	13:15		21	7	3	3	1							
11					TK 8/4/2022	21	7	3	3	1							
12						21	7	3	3	1							

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION: **Thomas Kessler / Georgia**

DATE: **8/5/2022** TIME: **13:50**

ACCEPTED BY / AFFILIATION: **Adam Spauld / Geosynthetic**

DATE: **8/5/2022** TIME: **14:15**

SIGNATURE OF SAMPLER: *(Signature)*

DATE SIGNED: **8/4/2022**

TEMP IN °C: \_\_\_\_\_

RECEIVED ON ICE (Y/N): \_\_\_\_\_

CUSTODY SEALED COOLER (Y/N): \_\_\_\_\_

SAMPLES INTACT (Y/N): \_\_\_\_\_

Important Note: By signing this form you are accepting Pace Analytical's standard terms and agreeing to the charge of 1.5% per month for any requests not paid within 15 days.

F-ALL-Q-0201W-07, 10-1-20-2007



Lab# Title: ENV-FRM-NON1-0003 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#: 92618773

PM: NMG

Due Date: 08/19/22

CLIENT: GA-GA Power

Courier:  FedEx  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 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 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#: 92618773

Project

PM: NMG

Due Date: 08/19/22

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-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGJU-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)	DG9U-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																														
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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.

<b>Section A</b> Required Client Information Company: GA Power	<b>Section B</b> Required Project Information Report To: SCS Contacts	<b>Section C</b> Physical Information Attention: Southern CO	Page: 1 of 1
Address: Atlanta GA	Copy To: Geosyntec Contacts	Company Name:	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 checked="" type="checkbox"/> HLR CCL
Email To: SCS Contacts	Purchase Order No:	Address:	
Phone:	Fax:	Project Name: Hammond AP 1	Reference:
Requested Due Date/TAT: 10 Day	Project Number:	Price Project Manager:	Nicole D'Oleo
		Price Profile #:	10839
		Site Location:	STATE: CA

ITEM #	Section D Requires Chain Information Valid Matrix Codes MATERIAL CODE DRINKING WATER WASTE WATER WASTE WATER PRODUCT SOLID OIL WIFE AIR OTHER TISSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	Temp in °C	Received on Ice (Y/N)	Custody Sealed Code (Y/N)	Samples Intact (Y/N)		
				DATE	TIME				DATE	TIME						Chloride	Fluoride
1	HGWC-7	WG	G	8/11/22	1453	IK 8/11/2022	21	Unpreserved	X	X	X	X	X	X	X	N	92618773 Price Project No./ Lab I.D. 92618773 92618773
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

ADDITIONAL COMMENTS: HGWC 7 (8/11/2022) is a re-sample

REQUISITIONED BY / AFFILIATION: Alex Brown / Soc

DATE: 8/11/22

TIME: 1600

ACCEPTED BY / AFFILIATION: Thomas Hester / Soc

DATE: 8/11/22

TIME: 1600

SAMPLER NAME AND SIGNATURE: Alex Brown / Soc

PRINT Name of SAMPLER: Alex Brown / Soc

SIGNATURE of SAMPLER: [Signature]

DATE Signed (MANDATORY): 8/11/2022

Temp in °C: 1230

Received on Ice (Y/N):

Custody Sealed Code (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 Szwast, Geosyntec  
Nardos Tilahun, GeoSyntec  
Dawit Yifru, Geosyntec Consultants, Inc.



## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

## CERTIFICATIONS

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

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### **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

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

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### **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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

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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

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<b>Lab ID</b>	<b>Sample ID</b>	<b>Method</b>	<b>Analysts</b>	<b>Analytes Reported</b>
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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					
<b>92618829001</b>	<b>HGWA-1</b>					
	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	
<b>92618829002</b>	<b>HGWA-2</b>					
	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	
<b>92618829003</b>	<b>HGWA-3</b>					
	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					
<b>92618829003</b>	<b>HGWA-3</b>					
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	
<b>92618829004</b>	<b>HGWA-43D</b>					
	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	
<b>92618829005</b>	<b>HGWA-44D</b>					
	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	

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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
<b>92618829005</b>	<b>HGWA-44D</b>					
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	

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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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		08/05/22 12:45		
pH	<b>7.03</b>	Std. Units			1		08/05/22 12:45		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.21</b>	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 15:26	7439-89-6	
Manganese	<b>0.48</b>	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 15:26	7439-96-5	
Potassium	<b>0.28</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 15:26	7440-09-7	
Sodium	<b>28.5</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 15:26	7440-23-5	
Calcium	<b>117</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 15:26	7440-70-2	
Magnesium	<b>4.4</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 15:26	7439-95-4	
<b>6020 MET ICPMS</b>									
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	<b>0.039</b>	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	<b>0.012J</b>	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	<b>0.00054J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>400</b>	mg/L	10.0	10.0	1		08/09/22 10:23		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	<b>266</b>	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	<b>266</b>	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	
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville								
Sulfide	<b>0.062J</b>	mg/L	0.10	0.050	1		08/06/22 03:40	18496-25-8		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	<b>14.1</b>	mg/L	1.0	0.60	1		08/12/22 17:33	16887-00-6		
Fluoride	<b>0.090J</b>	mg/L	0.10	0.050	1		08/12/22 17:33	16984-48-8		
Sulfate	<b>58.1</b>	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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		08/05/22 12:45		
pH	<b>4.57</b>	Std. Units			1		08/05/22 12:45		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.72</b>	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 15:31	7439-89-6	
Manganese	<b>0.80</b>	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 15:31	7439-96-5	
Potassium	<b>1.0</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 15:31	7440-09-7	
Sodium	<b>11.2</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 15:31	7440-23-5	
Calcium	<b>31.2</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 15:31	7440-70-2	
Magnesium	<b>4.0</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 15:31	7439-95-4	
<b>6020 MET ICPMS</b>									
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	<b>0.11</b>	mg/L	0.0050	0.00067	1	08/09/22 14:37	08/10/22 20:15	7440-39-3	
Beryllium	<b>0.00019J</b>	mg/L	0.00050	0.000054	1	08/09/22 14:37	08/10/22 20:15	7440-41-7	
Boron	<b>0.047</b>	mg/L	0.040	0.0086	1	08/09/22 14:37	08/10/22 20:15	7440-42-8	
Cadmium	<b>0.00023J</b>	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	<b>0.024</b>	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	<b>0.0013J</b>	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	<b>0.0014J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>196</b>	mg/L	10.0	10.0	1		08/09/22 10:23		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>12.8</b>	mg/L	5.0	5.0	1		08/10/22 11:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/10/22 11:59		
Alkalinity, Total as CaCO3	<b>12.8</b>	mg/L	5.0	5.0	1		08/10/22 11:59		

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

Sample: <b>HGWA-2</b>		Lab ID: <b>92618829002</b>		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
<b>4500S2D Sulfide Water</b>		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	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>7.8</b>	mg/L	1.0	0.60	1		08/12/22 17:49	16887-00-6	
Fluoride	<b>0.053J</b>	mg/L	0.10	0.050	1		08/12/22 17:49	16984-48-8	
Sulfate	<b>86.9</b>	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: <b>HGWA-3</b>		Lab ID: <b>92618829003</b>		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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		08/05/22 12:45		
pH	<b>7.02</b>	Std. Units			1		08/05/22 12:45		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>1.0</b>	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 15:35	7439-89-6	
Manganese	<b>0.24</b>	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 15:35	7439-96-5	
Potassium	<b>0.37</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 15:35	7440-09-7	
Sodium	<b>5.7</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 15:35	7440-23-5	
Calcium	<b>84.6</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 15:35	7440-70-2	
Magnesium	<b>5.2</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 15:35	7439-95-4	
<b>6020 MET ICPMS</b>									
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	<b>0.16</b>	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	<b>0.0030J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>287</b>	mg/L	10.0	10.0	1		08/09/22 10:23		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>179</b>	mg/L	5.0	5.0	1		08/10/22 12:16		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/10/22 12:16		
Alkalinity, Total as CaCO <sub>3</sub>	<b>179</b>	mg/L	5.0	5.0	1		08/10/22 12:16		

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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
<b>4500S2D Sulfide Water</b>		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	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>5.9</b>	mg/L	1.0	0.60	1		08/12/22 18:35	16887-00-6	
Fluoride	<b>0.067J</b>	mg/L	0.10	0.050	1		08/12/22 18:35	16984-48-8	
Sulfate	<b>43.5</b>	mg/L	1.0	0.50	1		08/12/22 18:35	14808-79-8	

## 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
<b>Field Data</b>									
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		
<b>6010D ATL ICP</b>									
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	
<b>6020 MET ICPMS</b>									
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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
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		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	203	mg/L	5.0	5.0	1		08/10/22 13:13		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		08/10/22 13:13		
Alkalinity, Total as CaCO3	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: <b>HGWA-43D</b>		Lab ID: <b>92618829004</b>		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
<b>4500S2D Sulfide Water</b>		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	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>4.3</b>	mg/L	1.0	0.60	1		08/12/22 18:50	16887-00-6	
Fluoride	<b>0.22</b>	mg/L	0.10	0.050	1		08/12/22 18:50	16984-48-8	
Sulfate	<b>37.0</b>	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: <b>HGWA-44D</b>	Lab ID: <b>92618829005</b>	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
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>CUSTOMER</b>				1		08/05/22 12:45		
pH	<b>7.90</b>	Std. Units			1		08/05/22 12:45		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Iron	<b>0.24</b>	mg/L	0.040	0.025	1	08/11/22 10:02	08/11/22 15:45	7439-89-6	
Manganese	<b>0.013J</b>	mg/L	0.040	0.0043	1	08/11/22 10:02	08/11/22 15:45	7439-96-5	
Potassium	<b>3.9</b>	mg/L	0.20	0.15	1	08/11/22 10:02	08/11/22 15:45	7440-09-7	
Sodium	<b>94.6</b>	mg/L	1.0	0.58	1	08/11/22 10:02	08/11/22 15:45	7440-23-5	
Calcium	<b>20.9</b>	mg/L	1.0	0.12	1	08/11/22 10:02	08/11/22 15:45	7440-70-2	
Magnesium	<b>12.2</b>	mg/L	0.050	0.012	1	08/11/22 10:02	08/11/22 15:45	7439-95-4	
<b>6020 MET ICPMS</b>									
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	<b>0.37</b>	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	<b>0.31</b>	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	<b>0.041</b>	mg/L	0.030	0.00073	1	08/09/22 14:37	08/10/22 20:33	7439-93-2	
Molybdenum	<b>0.0020J</b>	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	
<b>7470 Mercury</b>									
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	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>311</b>	mg/L	10.0	10.0	1		08/09/22 10:27		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>263</b>	mg/L	5.0	5.0	1		08/10/22 13:21		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		08/10/22 13:21		
Alkalinity, Total as CaCO <sub>3</sub>	<b>263</b>	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: <b>HGWA-44D</b>		Lab ID: <b>92618829005</b>		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
<b>4500S2D Sulfide Water</b>		Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville							
Sulfide	<b>0.058J</b>	mg/L	0.10	0.050	1		08/06/22 03:44	18496-25-8	
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville							
Chloride	<b>19.8</b>	mg/L	1.0	0.60	1		08/17/22 03:36	16887-00-6	
Fluoride	<b>0.80</b>	mg/L	0.10	0.050	1		08/17/22 03:36	16984-48-8	
Sulfate	<b>13.2</b>	mg/L	1.0	0.50	1		08/17/22 03:36	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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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	MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			MS Spike Conc.	MSD Spike Conc.								
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	92618820001		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	0.0025	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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### REPORT OF LABORATORY ANALYSIS

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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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### REPORT OF LABORATORY ANALYSIS

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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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### REPORT OF LABORATORY ANALYSIS

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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	

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### 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.	Conc.								
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.	Conc.								
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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## QUALIFIERS

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

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### 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		

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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	Comments/Discrepancy:
1.	Chain of Custody Present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.	Samples Arrived within Hold Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.	Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4.	Rush Turn Around Time Requested?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5.	Sufficient Volume?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.	Correct Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	-Pace Containers Used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.	Containers Intact?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.	Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9.	Sample Labels Match COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	-Includes Date/Time/ID/Analysis Matrix:	W			
10.	Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11.	Trip Blank Present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	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

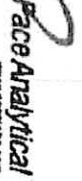
\*\*\*Check all unpreserved Nitrates for chlorine

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)	DG9L-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)



# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	Page: 1 of 1
Company: GA Power	Report To: SCS Contacts	Attention: Southern OC	
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:	
		Address:	
Email To: SCS Contacts	Purchase Order No:	Part Code:	
Phone: Fax	Project Name: Plant Hammond Pooled Upgradient	Reference:	
Requested Due Date/TAT: 10 Day	Project Number:	Part Project Manager:	
		Price Profile #: 10839	

<b>REGULATORY AGENCY</b> <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER <small>see</small>	
Site Location	STATE: GA

ITEM #	Section D Required Client Information		Valid Matrix Codes		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)	Pace Project No./ Lab I.D.
	Matrix	Code	Composite	Time			DATE	TIME							
	DRINKING WATER WATER WASTE WATER PRODUCT SOLID/SOLID OIL MILK MEAT OTHER TISSUE	DW WW PW SL WP MT OT TS													
1	HGWA-1	WG	G	8/2/2022	08:44			TK 8/2/2022	19	7	3	3	3	1	
2	HGWA-2	WG	G	8/2/2022	12:28				20	7	3	3	3	1	
3	HGWA-3	WG	G	8/2/2022	14:08				20	7	3	3	3	1	
4	HGWA-4-3D	WG	G	8/2/2022	08:33				18	7	3	3	3	1	
5	HGWA-4-4D	WG	G	8/2/2022	10:42				19	7	3	3	3	1	
6															
7															
8															
9															
10															
11															
12															

RELEASING BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Thomas Kessler	8/4/2022	1230	Ryan Williams	8/4/2022	1230
Ryan Williams	8/4/2022	1515			

<b>SAMPLER NAME AND SIGNATURE</b>	
PRINT Name of SAMPLER: Thomas Kessler, Southern Company Services, Western District	DATE Signed (MM/DD/YYYY): 8/2/2022
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YYYY): 8/2/2022

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

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

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### **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

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## 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
<b>92618785001</b>	<b>HGWA-1</b>					
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	
<b>92618785002</b>	<b>HGWA-2</b>					
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	
<b>92618785003</b>	<b>HGWA-3</b>					
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	
<b>92618785004</b>	<b>HGWA-43D</b>					
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
<b>92618785005</b>	<b>HGWA-44D</b>					
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	<b>0.106 ± 0.204 (0.469)</b> <b>C:79% T:NA</b>	pCi/L	09/06/22 08:53	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0966 ± 0.281 (0.632)</b> <b>C:81% T:87%</b>	pCi/L	08/29/22 11:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.203 ± 0.485 (1.10)</b>	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	<b>0.119 ± 0.196 (0.434)</b> <b>C:83% T:NA</b>	pCi/L	09/06/22 08:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.742 ± 0.357 (0.601)</b> <b>C:80% T:88%</b>	pCi/L	08/29/22 11:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.861 ± 0.553 (1.04)</b>	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	<b>-0.0471 ± 0.162 (0.494)</b> <b>C:87% T:NA</b>	pCi/L	09/06/22 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.400 ± 0.346 (0.699)</b> <b>C:78% T:87%</b>	pCi/L	08/29/22 11:34	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.400 ± 0.508 (1.19)</b>	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	<b>0.297 ± 0.256 (0.460)</b> <b>C:86% T:NA</b>	pCi/L	09/06/22 08:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.365 ± 0.318 (0.636)</b> <b>C:82% T:87%</b>	pCi/L	08/29/22 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.662 ± 0.574 (1.10)</b>	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
<b>Sample: HGWA-44D</b> <b>Lab ID: 92618785005</b> 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	<b>0.0642 ± 0.408 (1.04)</b> C:45% T:NA	pCi/L	09/06/22 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.888 ± 0.367 (0.564)</b> C:80% T:90%	pCi/L	08/29/22 11:34	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.952 ± 0.775 (1.60)</b>	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: 525510

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92618785001, 92618785002, 92618785003, 92618785004, 92618785005

METHOD BLANK: 2549236

Matrix: Water

Associated Lab Samples: 92618785001, 92618785002, 92618785003, 92618785004, 92618785005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.171 ± 0.214 (0.439) C:89% T:NA	pCi/L	09/06/22 09:26	

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 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.

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## QUALIFIERS

Project: HAMMOND POOLED UPGRADIENT RAD  
Pace Project No.: 92618785

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### 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		

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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:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 8/4/23

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)	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.



# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information	<b>Section B</b> Reported Project Information	<b>Section C</b> Invoice Information	<b>Section D</b> Requested Analysis Filtered (Y/N)
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.	<input type="checkbox"/> Chloride, Fluoride, Sulfate
Address: Atlanta, GA	Copy To: Geosyntec Contacts	Company Name:	<input type="checkbox"/> Full App. III and IV metals
Email To: SCS Contacts	Purchase Order No.:	Address:	<input type="checkbox"/> RAD 226/228
Phone:	Project Name: Plant Hammond Pooled Upgradient	Reference:	<input type="checkbox"/> TDS
Requested Due Date/TAT: 18 Day	Project Number:	Pace Project Manager: Nicole D'Ordo	<input type="checkbox"/> Major Ions
		Pace Project # 10839	<input type="checkbox"/> Alkalinity, Bicarbonate

<b>Section D</b> Valid Matrix Codes	<b>Section D</b> Required Client Information
MATRIX CODE	MATRIX CODE
DRINKING WATER DW	DRINKING WATER DW
WASTE WATER WW	WASTE WATER WW
PRODUCT P	PRODUCT P
SOIL/SOLID S	SOIL/SOLID S
SL	SL
WV	WV
WP	WP
WT	WT
OT	OT
TS	TS

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE	COMPOSITE							H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol				
1	HGWA-1	WG G	8/2/2022	08:44	TK 8/2/2022	19	7	3	3	1	X	X	X	X	X	X	X	X	X	pH = 7.03
2	HGWA-2	WG G	8/2/2022	12:28		20	7	3	3	1	X	X	X	X	X	X	X	X	X	pH = 4.57
3	HGWA-3	WG G	8/2/2022	14:06		20	7	3	3	1	X	X	X	X	X	X	X	X	X	pH = 7.02
4	HGWA-43D	WG G	8/2/2022	08:33		18	7	3	3	1	X	X	X	X	X	X	X	X	X	pH = 7.15
5	HGWA-44D	WG G	8/2/2022	10:42		19	7	3	3	1	X	X	X	X	X	X	X	X	X	pH = 7.90
6																				
7																				
8																				
9																				
10																				
11																				
12																				

<b>RELIQUISHED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>ACCEPTED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>SAMPLE CONDITIONS</b>
Thomas Hossler	8/4/2022	1230	Kyan Williams	8/4/2022	1230	TK 8/2/2022
Kyan Williams / Pace	8/4/2022	1515				

<b>SAMPLER NAME AND SIGNATURE</b>	<b>PRINT Name of SAMPLER:</b> Thomas Hossler, Kentucky Sewer, Trisha Orndorff	<b>DATE Signed (MM/DD/YY):</b> 8/2/2022
<b>SIGNATURE OF SAMPLER:</b>		

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-0207rev.07 15-Feb-2007

# 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 92587319 Revision 2**

**SITE: Plant Hammond AP-1**

### INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-three 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 reports:

Laboratory ID	Client ID
92587319001	MW-7
92587319002	HGWA-44D
92587319003	HGWA-2
92587319004	HGWA-3
92587319005	HGWA-1
92587319006	HGWA-43D
92587319007	HGWC-9
92587319008	HGWC-10
92587319009	HGWC-11
92587319010	HGWC-12
92587319011	MW-5
92587319012	MW-6
92587319013	MW-19

Laboratory ID	Client ID
92587319014	MW-25D
92587319015	MW-26D
92587319016	DUP-1
92587319017	HGWC-7
92587319018	HGWC-8
92587319019	HGWC-13
92587319020	MW-20
92587319021	MW-24D
92587319022	MW-27D
92587319023	MW-28D
92587319024	MW-29
92587319025	EB-1
92587319026	FB-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Incorrect error corrections were observed on the chain of custody (COC) containing sample MW-7, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The laboratory report was revised twice. The first revision was provided on 22 March 2022 to include an updated COC. The second revision was provided on 3 June 2022 to remove a holding time laboratory flag for the TDS result in sample HGWA-2. The revised report was identified as 92587319 Revision 2.

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, 680603, 680760, 678928, 680607 and 680757). Metals were not detected in the method blanks above the method detection limits (MDLs), with the following exceptions.

Calcium was detected in the method blank in batch 680603 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since calcium was detected in the associated

samples at concentrations greater than the RL and based on professional and technical judgment, no qualifications were applied to the data.

Arsenic was detected in the method blank in batch 680607 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated arsenic concentrations in samples HGWC-9, HGWC-11, MW-5, MW-6, MW-26D and HGWC-8 were U qualified as not detected at the RL, and based on professional and technical judgment, the arsenic concentration in sample HGWC-12 was J+ qualified as estimated with a high bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
HGWC-9	Arsenic	0.0021	J B	0.0050	U	3
HGWC-11	Arsenic	0.0047	J B	0.0050	U	3
HGWC-12	Arsenic	0.0053	B	0.0053	J+	3
MW-5	Arsenic	0.0013	J B	0.0050	U	3
MW-6	Arsenic	0.0034	J B	0.0050	U	3
MW-26D	Arsenic	0.0017	J B	0.0050	U	3
HGWC-8	Arsenic	0.0020	J B	0.0050	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

B-laboratory indicating the analyte was detected in both the method blank and sample

\* 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

#### 1.4 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).

One sample set specific MS/MSD pair was reported for calcium by US EPA method 6010D, using sample MW-7. The relative percent difference (RPD) result was within the laboratory specified acceptance criteria, and the recoveries of calcium in the MD/MSD pair using sample MW-7 were high and outside of the laboratory specified acceptance criteria. Since the calcium concentration in sample MW-7 was greater than four times the spike concentration, no qualifications were applied to the data.

Two batch MS/MSD pairs were 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.

One sample set specific MS/MSD pair was reported for metals by US EPA method 6020B, using sample MW-7. The recovery and RPD results were within the laboratory specified acceptance criteria.

Two batch MS/MSD pairs were 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-1. Metals were not detected in the equipment blank above the MDLs, with the following exception.

Barium was detected in the equipment blank at an estimated concentration greater than the MDL and less than the RL. Since the estimated barium concentration in the equipment blank was U qualified as not detected at the RL 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-1. Metals were not detected in the field blank above the MDLs, with the following exception.

Barium was detected in the field blank at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated barium concentration in sample EB-1 was U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
EB-1	Barium	0.0026	J	0.0050	U	3

mg/L-milligrams per liter

J-estimated concentration greater than the MDL and less than the RL

**1.8 Field Duplicate**

One field duplicate sample was collected with the sample set, DUP-1. Acceptable precision (RPD ≤ 30%) was demonstrated between the field duplicate and the original sample, HGWC-10, with the following exceptions.

The RPD for boron was greater than 30% in the field duplicate pair. Therefore, the boron concentrations in samples DUP-1 and HGWC-10 were J qualified as estimated

Chromium was detected at a concentration equal to the MDL in sample HGWC-10 and not detected in field duplicate sample DUP-1, resulting in a noncalculable RPD between the results. Therefore, the chromium concentration in sample HGWC-10 was J qualified as estimated, and the non-detect result of chromium in sample DUP-1 was UJ qualified as estimated less than the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
DUP-1	Boron	0.18	NA	57	0.18	J	7
HGWC-10	Boron	0.10	NA		0.10	J	7
DUP-1	Chromium	0.0011	U	NC	0.0011	UJ	7
HGWC-10	Chromium	0.0011	J		0.0011	J	7

mg/L-milligrams per liter

NA-not applicable

NC-noncalculable

U-not detected at or above RL

J-estimated concentration greater than or equal to the MDL and less than the RL

## 1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not 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). Four method blanks were reported (batches 678094, 678396, 680659 and 681261). 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 MW-7. The recovery and RPD results were within the laboratory specified acceptance criteria.

Three 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). Four 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-1. 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-1. 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-1. Acceptable precision (RPD  $\leq 30\%$ ) was demonstrated between the field duplicate and the original sample, HGWC-10.

## **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, 678369, 678705, 678707 and 679091) and four method blanks were reported for the anions (batches 676561, 678309, 678880 and 678978). 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). Two sample set specific MS/MSD pairs were reported for anions, using samples HGWC-9 and MW-20. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of chloride in the MS/MSD pair using sample HGWC-9 were low and outside of the laboratory specified acceptance criteria. Therefore, the chloride concentration in sample HGWC-9 was J- qualified as estimated with a low bias.

The MS recovery of sulfate in the MS/MSD pair using sample MW-20 was low and outside of the laboratory specified acceptance criteria. Therefore, the sulfate concentration in sample MW-20 was J- qualified as estimated with a low bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
HGWC-9	Chloride	84.4	M1	84.4	J-	4
MW-20	Sulfate	95.9	M1	95.9	J-	4

mg/L-milligrams per liter

M1-laboratory flag indicating MS recovery exceeded QC limits

Six 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

Three sample set specific laboratory duplicates were reported for TDS, using samples HGWA-2, HGWC-9 and MW-28D. The RPD results were within the laboratory specified acceptance criteria.

Six 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-1. 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-1. 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-1. Acceptable precision (RPD  $\leq 30\%$ ) was demonstrated between the field duplicate and the original sample, HGWC-10, with the following exception.

The RPD for chloride was greater than 30% in the field duplicate pair. Therefore, the chloride concentrations in samples DUP-1 and HGWC-10 were J qualified as estimated

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
DUP-1	Chloride	3.5	NA	98	3.5	J	7
HGWC-10	Chloride	1.2	NA		1.2	J	7

mg/L-milligrams per liter

NA-not applicable

### 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**

<b>Valid Value</b>	<b>Description</b>
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 15, 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 92587294**

**SITE: Plant Hammond AP-1**

### INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-three 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 United States (US) Environmental Protection Agency (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 as qualified are usable for meeting 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:

- 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 reports:

Laboratory ID	Client ID
92587294001	MW-7
92587294002	HGWA-44D
92587294003	HGWA-2
92587294004	HGWA-3
92587294005	HGWA-1
92587294006	HGWA-43D
92587294007	HGWC-9
92587294008	HGWC-10
92587294009	HGWC-11
92587294010	HGWC-12
92587294011	MW-5
92587294012	MW-6
92587294013	MW-19

Laboratory ID	Client ID
92587294014	MW-25D
92587294015	MW-26D
92587294016	DUP-1
92587294017	HGWC-7
92587294018	HGWC-8
92587294019	HGWC-13
92587294020	MW-20
92587294021	MW-24D
92587294022	MW-27D
92587294023	MW-28D
92587294024	MW-29
92587294025	EB-1
92587294026	FB-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

## 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 488358, 484160 and 488357). Three method blanks were reported for the radium-226 data (batches 488843, 487656 and 484283). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs), with the following exceptions.

Radium-228 was detected in the method blank in batches 488358 (0.369 pCi/L) and 488357 (0.369 pCi/L) at concentrations greater than the MDCs. Since radium-228 was not detected in the associated samples above the MDCs, no qualifications were applied to the data.

Radium-226 (0.152 pCi/L) was detected in the method blank in batch 487656 at a concentration greater than the MDC. Therefore, the radium-226 concentrations in the associated samples greater than the MDCs were J+ qualified as estimated with high biases. In addition, the combined radium 226+228 concentrations for these samples were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
HGWC-9	Radium-226	0.198	NA	0.198	J+	3
HGWC-9	Combined Radium 226 + 228	0.198	U	0.198	J+	3
HGWC-11	Radium-226	0.251	NA	0.251	J+	3
HGWC-11	Combined Radium 226 + 228	0.444	U	0.444	J+	3

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
HGWC-12	Radium-226	0.173	NA	0.173	J+	3
HGWC-12	Combined Radium 226 + 228	0.564	U	0.564	J+	3
MW-19	Radium-226	0.245	NA	0.245	J+	3
MW-19	Combined Radium 226 + 228	0.245	U	0.245	J+	3
MW-25D	Radium-226	0.603	NA	0.603	J+	3
MW-25D	Combined Radium 226 + 228	0.754	U	0.754	J+	3
DUP-1	Radium-226	0.255	NA	0.255	J+	3
DUP-1	Combined Radium 226 + 228	0.646	U	0.646	J+	3
HGWC-8	Radium-226	0.254	NA	0.254	J+	3
HGWC-8	Combined Radium 226 + 228	0.945	U	0.945	J+	3
HGWC-13	Radium-226	0.205	NA	0.205	J+	3
HGWC-13	Combined Radium 226 + 228	0.442	U	0.442	J+	3
MW-24D	Radium-226	0.178	NA	0.178	J+	3
MW-24D	Combined Radium 226 + 228	0.178	U	0.178	J+	3
MW-27D	Radium-226	0.589	NA	0.589	J+	3
MW-27D	Combined Radium 226 + 228	0.809	U	0.809	J+	3
MW-28D	Radium-226	0.219	NA	0.219	J+	3
MW-28D	Combined Radium 226 + 228	1.96	U	1.96	J+	3

pCi/L-picocuries per liter

NA-not applicable

U-not detected at or above the MDC

\* 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

#### 1.4 Matrix Spike/Matrix Spike Duplicate

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/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 ( $1\sigma$ )] 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 HWWC-9. The RER result was within the laboratory specified acceptance criteria.

Two batch laboratory duplicates were also 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-01. 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-01. 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-01. Acceptable precision (RER ( $1\sigma$ ) < 3) was demonstrated between the field duplicate and the original sample, HGWC-10.

### **1.11 Sensitivity**

The samples were reported to the MDCs. No elevated non-detect results were reported.

### **1.12 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**

<b>Valid Value</b>	<b>Description</b>
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-1 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 CaCO<sub>3</sub> (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 CaCO<sub>3</sub> (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.



<b>Analysis</b>	<b>Holding Time</b>
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**

<b>Valid Value</b>	<b>Description</b>
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-1 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 ( $1\sigma$ )] 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.

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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**

<b>Valid Value</b>	<b>Description</b>
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: 7 November 2022  
To: Christine Hug  
From: Ashley Wilson  
CC: J. Caprio  
Subject: **Stage 2A Data Validations - Level II Data Deliverable – Pace Analytical Project No.: 92618820 Revision 1**

**SITE: CCR Plant Hammond AP-1**

### INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nineteen aqueous samples, one field blank, one equipment blank and one field duplicate, collected 3-4 & 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 CaCO<sub>3</sub> (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
92618820001	HGWC-7
92618820002	HGWC-8
92618820003	HGWC-10
92618820004	HGWC-11
92618820005	HGWC-12
92618820006	HGWC-13
92618820007	MW-5
92618820008	MW-6
92618820009	MW-24D
92618820010	MW-27D
92618820011	MW-29

Laboratory IDs	Client IDs
92618820012	HGWC-9
92618820013	MW-7
92618820014	MW-19
92618820015	MW-20
92618820016	MW-25D
92618820017	MW-26D
92618820018	MW-28D
92618820019	DUP-1
92618820020	EB-1
92618820021	FB-1
92618820022	HGWC-7

The chain of custody (COC) indicates the samples were received between 0-6 °C. No preservation issues were noted by the laboratory.

The laboratory report was revised per the client’s request to include a revised COC.

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 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 715915, 715918, 716035 and 719224), and four method blanks for metals by US EPA Method 6010D (batches 715912, 716032, 716036 and 718057). 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). Sample set specific MS/MSD pairs were reported for metals by US EPA methods 6020B and 6010D, using sample HGWC-8. 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 and magnesium in the MS/MSD pair using sample HGWC-8 were low and outside of laboratory specified acceptance criteria. Since the calcium and magnesium

concentrations in sample HGWC-8 were greater than four times the spiked concentration, no qualifications were applied to the data based on the MS/MSD recovery results.

The MSD recoveries of antimony, barium and molybdenum in the MS/MSD pair using sample HGWC-8 were high and outside of laboratory specified acceptance criteria. Since antimony was not detected in sample HGWC-8, no qualifications were applied to the antimony data. However, the concentrations of barium and molybdenum in sample HGWC-8 were J+ qualified as estimated with high biases.

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.

Sample ID	Compound	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
HGWC-8	Barium	0.060	M1	0.060	J+	4
HGWC-8	Molybdenum	0.29	M1	0.29	J+	4

mg/L- milligram per liter

M1-Matrix spike recovery exceeded QC limits

\* 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

### 1.5 **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-1. Metals were not detected in the equipment blank at or above the MDLs.

### 1.7 **Field Blank**

One field blank was collected with the sample set, FB-1. Metals by were not detected in the field blank at or above the MDLs.

### 1.8 **Field Duplicate**

One field duplicate was collected with the sample set, DUP-1. Acceptable precision ( $RPD \leq 30\%$ ) was demonstrated between the field duplicate and the original sample, MW-7.



## 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). Three method blanks were reported (batches 716247, 716252 and 718669). 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, both using sample HGWC-7. The recovery and RPD results were within the laboratory specified acceptance criteria.

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.

### **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-1. Mercury was not detected in the equipment blank at or above the MDL.

### **2.7 Field Blank**

One field blank was collected with the sample set, FB-1. Mercury was not detected in the field blank at or above the MDL.

### **2.8 Field Duplicate**

One field duplicate was collected with the sample set, DUP-1. Acceptable precision ( $RPD \leq 30\%$ ) was demonstrated between the field duplicate and the original sample, MW-7.

### **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 CaCO<sub>3</sub> (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.

<b>Analysis</b>	<b>Holding Time</b>
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 715588, 715879 and 717151). Three method blanks were reported for chloride, fluoride and sulfate (batches 716707, 717488 and 718499). Three method blanks were reported for alkalinity (batches 717507, 717728 and 718423). Three method blanks were reported for sulfide (batches 715462, 716115 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). Three sample set specific MS/MSD pairs were reported for chloride, fluoride and sulfate using samples HGWC-7, MW-29 and MW-19. Two sample set specific MS/MSD pairs were reported for alkalinity using samples HGWC-9 and MW-28D. Two sample set specific MS/MSD pairs were reported for sulfide using samples MW-28D and MW-24D. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of sulfide in the MS/MSD pair using sample MW-28D were high and outside of laboratory specified acceptance criteria. Therefore, the concentration of sulfide in sample MW-28D was J+ qualified as estimated with high bias.

The recoveries of chloride in the MS/MSD pair using sample HGWC-7 were high and outside of laboratory specified acceptance criteria. Therefore, the concentration of chloride in sample HGWC-7 was J+ qualified as estimated with high bias.

The recoveries of chloride in the MS/MSD pair using sample MW-29 were low and outside of laboratory specified acceptance criteria. Therefore, the concentration of chloride in sample MW-29 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
MW-28D	Sulfide	3.9	M1	3.9	J+	4
HGWC-7	Chloride	37.9	M1	37.9	J+	4
MW-29	Chloride	63.5	M1	63.5	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

One laboratory duplicate was reported for TDS using sample HGWC-8 MW-25D. The RPD result was within the laboratory specified acceptance criteria.

Five 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-1. 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-1. 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-1. Acceptable precision ( $RPD \leq 30\%$ ) was demonstrated between the field duplicate and the original sample, MW-7.

### 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.

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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 at or 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**

<b>Valid Value</b>	<b>Description</b>
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

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

## Memorandum

Date: January 30, 2023  
To: Whitney Law  
From: Matthew Richardson  
CC: J. Caprio  
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92618773**

**SITE: Plant Hammond AP-1**

### INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of nineteen aqueous samples, one field duplicate, one field blank and one equipment blank collected 3, 4 and 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 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:

- 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
92618773001	HGWC-7
92618773002	HGWC-8
92618773003	HGWC-10
92618773004	HGWC-11
92618773005	HGWC-12
92618773006	HGWC-13
92618773007	MW-5
92618773008	MW-6
92618773009	MW-24D
92618773010	MW-27D
92618773011	MW-29

Laboratory ID	Client ID
92618773012	HGWC-9
92618773013	MW-7
92618773014	MW-19
92618773015	MW-20
92618773016	MW-25D
92618773017	MW-26D
92618773018	MW-28D
92618773019	DUP-1
92618773020	EB-1
92618773021	FB-1
92618773022	HGWC-7

## 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-226 data (batches 525510, 530296 and 525513). Three method blanks were reported for the radium-228 data (batches 526536, 525947 and 525938). 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). Three 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 ( $1\sigma$ )] 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-6. The RER result was within the laboratory specified acceptance criteria.

Two 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-1, was collected with the sample set. Radium-226 and radium-228 were not detected in the equipment blank above the MDCs.

### **1.9 Field Blank**

One field blank, FB-1, was collected with the sample set. 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-1. Acceptable precision (RER ( $1\sigma$ ) < 3) was demonstrated between the field duplicate and the original sample, MW-7.

### **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**

<b>Valid Value</b>	<b>Description</b>
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

<b>Location Name: HGWA-1</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 22.50 ft</b> <b>Total Depth: 32.50 ft</b> <b>Initial Depth to Water: 13.42 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 27.50 ft</b> <b>Estimated Total Volume Pumped: 7.5 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.52 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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

<b>Location Name: HGWA-2</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 17.95 ft</b> <b>Total Depth: 27.95 ft</b> <b>Initial Depth to Water: 8.27 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 22.95 ft</b> <b>Estimated Total Volume Pumped: 14 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.14 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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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

<b>Location Name: HGWA-3</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 34.87 ft</b> <b>Total Depth: 44.87 ft</b> <b>Initial Depth to Water: 7.86 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 39.87 ft</b> <b>Estimated Total Volume Pumped: 8 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.02 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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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

<b>Location Name: HGWA-43D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 51.25 ft</b> <b>Total Depth: 61.25 ft</b> <b>Initial Depth to Water: 13.34 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 56.25 ft</b> <b>Estimated Total Volume Pumped: 9 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 3.19 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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

<b>Location Name: HGWA-44D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 103.28 ft</b> <b>Total Depth: 113.28 ft</b> <b>Initial Depth to Water: 13.34 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 108.28 ft</b> <b>Estimated Total Volume Pumped: 26 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min Final Draw Down: 1.20 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728634</b>
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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: 2/10/2022 11:07:10 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

<b>Location Name: HGWC-7</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 18.17 ft</b> <b>Total Depth: 28.17 ft</b> <b>Initial Depth to Water: 5.01 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 23.17 ft</b> <b>Estimated Total Volume Pumped: 13 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min Final Draw Down: 0.08 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728634</b>
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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	
2/10/2022 11:07 AM	00:00	7.26 pH	17.70 °C	604.37 µS/cm	0.97 mg/L	2.32 NTU	-3.9 mV	5.09 ft	200.00 ml/min
2/10/2022 11:12 AM	05:00	7.25 pH	17.29 °C	620.79 µS/cm	0.60 mg/L	3.27 NTU	-8.7 mV	5.09 ft	200.00 ml/min
2/10/2022 11:17 AM	10:00	7.24 pH	17.33 °C	623.39 µS/cm	0.41 mg/L	2.92 NTU	-14.6 mV	5.09 ft	200.00 ml/min
2/10/2022 11:22 AM	15:00	7.23 pH	17.47 °C	623.37 µS/cm	0.29 mg/L	4.43 NTU	-9.6 mV	5.09 ft	200.00 ml/min
2/10/2022 11:27 AM	20:00	7.23 pH	17.47 °C	623.97 µS/cm	0.21 mg/L	5.91 NTU	-14.8 mV	5.09 ft	200.00 ml/min
2/10/2022 11:32 AM	25:00	7.23 pH	17.60 °C	623.78 µS/cm	0.18 mg/L	9.01 NTU	-9.7 mV	5.09 ft	200.00 ml/min
2/10/2022 11:37 AM	30:00	7.22 pH	17.58 °C	624.53 µS/cm	0.15 mg/L	11.49 NTU	-15.0 mV	5.09 ft	200.00 ml/min
2/10/2022 11:42 AM	35:00	7.22 pH	17.71 °C	623.07 µS/cm	0.13 mg/L	9.41 NTU	-14.9 mV	5.09 ft	200.00 ml/min
2/10/2022 11:47 AM	40:00	7.22 pH	17.79 °C	623.46 µS/cm	0.12 mg/L	7.70 NTU	-15.2 mV	5.09 ft	200.00 ml/min
2/10/2022 11:52 AM	45:00	7.22 pH	17.80 °C	624.27 µS/cm	0.12 mg/L	6.37 NTU	-15.2 mV	5.09 ft	200.00 ml/min
2/10/2022 11:57 AM	50:00	7.22 pH	17.89 °C	624.60 µS/cm	0.11 mg/L	5.98 NTU	-15.4 mV	5.09 ft	200.00 ml/min
2/10/2022 12:02 PM	55:00	7.22 pH	17.98 °C	624.18 µS/cm	0.11 mg/L	6.07 NTU	-10.0 mV	5.09 ft	200.00 ml/min
2/10/2022 12:07 PM	01:00:00	7.22 pH	18.05 °C	623.81 µS/cm	0.11 mg/L	4.20 NTU	-10.0 mV	5.09 ft	200.00 ml/min

**Samples**

Sample ID:	Description:
HGWC-7	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/10/2022 3:09:46 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

<b>Location Name: HGWC-8</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 16.65 ft</b> <b>Total Depth: 26.65 ft</b> <b>Initial Depth to Water: 5.03 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 21.65 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.02 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728634</b>
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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	
2/10/2022 3:09 PM	00:00	7.14 pH	18.95 °C	837.78 µS/cm	0.27 mg/L	17.60 NTU	-9.0 mV	5.05 ft	200.00 ml/min
2/10/2022 3:14 PM	05:00	7.08 pH	18.33 °C	827.67 µS/cm	0.19 mg/L	9.68 NTU	-19.0 mV	5.05 ft	200.00 ml/min
2/10/2022 3:19 PM	10:00	7.04 pH	18.38 °C	828.94 µS/cm	0.15 mg/L	5.45 NTU	-14.0 mV	5.05 ft	200.00 ml/min
2/10/2022 3:24 PM	15:00	7.02 pH	18.43 °C	828.95 µS/cm	0.13 mg/L	3.75 NTU	-20.3 mV	5.05 ft	200.00 ml/min
2/10/2022 3:29 PM	20:00	7.01 pH	18.45 °C	828.86 µS/cm	0.11 mg/L	3.68 NTU	-14.2 mV	5.05 ft	200.00 ml/min
2/10/2022 3:34 PM	25:00	7.00 pH	18.49 °C	828.13 µS/cm	0.10 mg/L	3.33 NTU	-20.7 mV	5.05 ft	200.00 ml/min
2/10/2022 3:39 PM	30:00	6.99 pH	18.55 °C	828.00 µS/cm	0.10 mg/L	3.06 NTU	-14.4 mV	5.05 ft	200.00 ml/min

## Samples

Sample ID:	Description:
HGWC-8	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/9/2022 10:31:41 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: HGWC-9</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 36.98 ft</b> <b>Total Depth: 46.98 ft</b> <b>Initial Depth to Water: 9.35 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 41.98 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.10 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

Five bottles: Full app. III and IV.

## Weather Conditions:

Sunny, 40 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 10:31 AM	00:00	7.23 pH	16.14 °C	998.83 µS/cm	0.89 mg/L	12.49 NTU	12.1 mV	9.40 ft	200.00 ml/min
2/9/2022 10:36 AM	05:00	7.26 pH	16.55 °C	992.40 µS/cm	0.48 mg/L	9.31 NTU	14.8 mV	9.42 ft	200.00 ml/min
2/9/2022 10:41 AM	10:00	7.27 pH	16.71 °C	993.25 µS/cm	0.36 mg/L	7.69 NTU	18.1 mV	9.42 ft	200.00 ml/min
2/9/2022 10:46 AM	15:00	7.29 pH	16.65 °C	990.11 µS/cm	0.27 mg/L	5.53 NTU	23.7 mV	9.43 ft	200.00 ml/min
2/9/2022 10:51 AM	20:00	7.29 pH	16.69 °C	991.56 µS/cm	0.23 mg/L	4.89 NTU	26.5 mV	9.44 ft	200.00 ml/min
2/9/2022 10:56 AM	25:00	7.29 pH	16.78 °C	992.30 µS/cm	0.21 mg/L	3.60 NTU	28.4 mV	9.45 ft	200.00 ml/min
2/9/2022 11:01 AM	30:00	7.30 pH	16.87 °C	992.99 µS/cm	0.19 mg/L	3.33 NTU	28.6 mV	9.45 ft	200.00 ml/min

## Samples

Sample ID:	Description:
HGWC-9	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/9/2022 3:02:18 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: HGWC-10</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 13 ft</b> <b>Total Depth: 23 ft</b> <b>Initial Depth to Water: 7.68 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 18 ft</b> <b>Estimated Total Volume Pumped: 7 ml</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.08 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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 3:02 PM	00:00	6.95 pH	17.05 °C	371.75 µS/cm	4.67 mg/L	1.72 NTU	65.9 mV	7.73 ft	200.00 ml/min
2/9/2022 3:07 PM	05:00	6.98 pH	16.51 °C	376.95 µS/cm	4.70 mg/L	1.92 NTU	53.7 mV	7.74 ft	200.00 ml/min
2/9/2022 3:12 PM	10:00	6.99 pH	16.53 °C	378.49 µS/cm	4.64 mg/L	1.47 NTU	52.8 mV	7.74 ft	200.00 ml/min
2/9/2022 3:17 PM	15:00	7.00 pH	16.65 °C	378.15 µS/cm	4.55 mg/L	1.81 NTU	69.4 mV	7.75 ft	200.00 ml/min
2/9/2022 3:22 PM	20:00	7.00 pH	16.70 °C	379.62 µS/cm	4.46 mg/L	1.37 NTU	69.9 mV	7.75 ft	200.00 ml/min
2/9/2022 3:27 PM	25:00	7.00 pH	16.75 °C	383.56 µS/cm	4.36 mg/L	1.13 NTU	52.5 mV	7.76 ft	200.00 ml/min
2/9/2022 3:32 PM	30:00	7.00 pH	16.78 °C	385.15 µS/cm	4.27 mg/L	0.97 NTU	69.0 mV	7.76 ft	200.00 ml/min

## Samples

Sample ID:	Description:
HGWC-10	Grab sample.
DUP-1	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/9/2022 9:27:10 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

<b>Location Name: HGWC-11</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 15.78 ft</b> <b>Total Depth: 25.78 ft</b> <b>Initial Depth to Water: 10.19 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 20.78 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.14 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

Five bottles: Full app. III and IV.

## Weather Conditions:

Sunny, 27 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 9:27 AM	00:00	6.72 pH	13.76 °C	879.81 µS/cm	0.77 mg/L	1.63 NTU	126.5 mV	10.29 ft	200.00 ml/min
2/9/2022 9:32 AM	05:00	6.55 pH	15.96 °C	856.08 µS/cm	0.59 mg/L	2.06 NTU	73.7 mV	10.31 ft	200.00 ml/min
2/9/2022 9:37 AM	10:00	6.55 pH	16.43 °C	850.26 µS/cm	0.55 mg/L	1.63 NTU	60.4 mV	10.32 ft	200.00 ml/min
2/9/2022 9:42 AM	15:00	6.56 pH	16.29 °C	851.32 µS/cm	0.41 mg/L	1.75 NTU	54.3 mV	10.32 ft	200.00 ml/min
2/9/2022 9:47 AM	20:00	6.55 pH	16.47 °C	851.41 µS/cm	0.39 mg/L	1.31 NTU	51.9 mV	10.32 ft	200.00 ml/min
2/9/2022 9:52 AM	25:00	6.55 pH	16.78 °C	853.52 µS/cm	0.50 mg/L	1.26 NTU	49.7 mV	10.33 ft	200.00 ml/min
2/9/2022 9:57 AM	30:00	6.55 pH	16.74 °C	847.06 µS/cm	0.52 mg/L	1.06 NTU	73.7 mV	10.33 ft	200.00 ml/min

## Samples

Sample ID:	Description:
HGWC-11	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/9/2022 10:43:23 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

<b>Location Name: HGWC-12</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 25.68 ft</b> <b>Total Depth: 35.68 ft</b> <b>Initial Depth to Water: 10.51 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 30.68ft</b> <b>Estimated Total Volume Pumped: 11 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.05 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

Five bottles: Full app. III and IV.

## Weather Conditions:

Sunny, 48 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 10:43 AM	00:00	7.25 pH	17.89 °C	987.40 µS/cm	1.75 mg/L	16.40 NTU	20.9 mV	10.55 ft	200.00 ml/min
2/9/2022 10:48 AM	05:00	7.24 pH	18.25 °C	1,002.5 µS/cm	1.21 mg/L	15.90 NTU	9.0 mV	10.55 ft	200.00 ml/min
2/9/2022 10:53 AM	10:00	7.20 pH	18.25 °C	990.38 µS/cm	0.87 mg/L	12.00 NTU	6.0 mV	10.55 ft	200.00 ml/min
2/9/2022 10:58 AM	15:00	7.24 pH	18.16 °C	1,001.1 µS/cm	0.81 mg/L	7.25 NTU	5.5 mV	10.55 ft	200.00 ml/min
2/9/2022 11:03 AM	20:00	7.24 pH	18.29 °C	1,054.4 µS/cm	0.88 mg/L	4.07 NTU	4.0 mV	10.55 ft	200.00 ml/min
2/9/2022 11:08 AM	25:00	7.24 pH	18.39 °C	1,003.6 µS/cm	0.97 mg/L	4.01 NTU	5.0 mV	10.55 ft	200.00 ml/min
2/9/2022 11:13 AM	30:00	7.22 pH	18.37 °C	880.88 µS/cm	0.81 mg/L	1.33 NTU	7.5 mV	10.55 ft	200.00 ml/min
2/9/2022 11:18 AM	35:00	7.25 pH	18.36 °C	897.26 µS/cm	0.77 mg/L	0.68 NTU	3.9 mV	10.55 ft	200.00 ml/min
2/9/2022 11:23 AM	40:00	7.24 pH	18.39 °C	998.46 µS/cm	0.84 mg/L	0.53 NTU	4.0 mV	10.55 ft	200.00 ml/min
2/9/2022 11:28 AM	45:00	7.24 pH	18.43 °C	997.19 µS/cm	0.72 mg/L	0.46 NTU	4.4 mV	10.56 ft	200.00 ml/min
2/9/2022 11:33 AM	50:00	7.23 pH	18.39 °C	997.88 µS/cm	0.78 mg/L	0.48 NTU	4.7 mV	10.56 ft	200.00 ml/min

## Samples



Sample ID:	Description:
HGWC-12	Grab sample.

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# Low-Flow Test Report:

Test Date / Time: 2/10/2022 2:20:43 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: HGWC-13</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 35.07 ft</b> <b>Total Depth: 45.07 ft</b> <b>Initial Depth to Water: 22.34 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 40.07 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.06 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

Five bottles: Full app. III and IV.

## Weather Conditions:

Sunny, 65 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 2:20 PM	00:00	7.46 pH	19.95 °C	1,015.2 µS/cm	0.42 mg/L	2.34 NTU	-100.1 mV	22.40 ft	200.00 ml/min
2/10/2022 2:25 PM	05:00	7.49 pH	19.79 °C	1,017.4 µS/cm	0.28 mg/L	2.49 NTU	-112.8 mV	22.40 ft	200.00 ml/min
2/10/2022 2:30 PM	10:00	7.51 pH	19.83 °C	1,017.2 µS/cm	0.23 mg/L	1.28 NTU	-98.3 mV	22.40 ft	200.00 ml/min
2/10/2022 2:35 PM	15:00	7.52 pH	19.81 °C	1,014.1 µS/cm	0.21 mg/L	0.93 NTU	-97.6 mV	22.40 ft	200.00 ml/min
2/10/2022 2:40 PM	20:00	7.53 pH	19.88 °C	1,015.5 µS/cm	0.19 mg/L	0.88 NTU	-97.0 mV	22.40 ft	200.00 ml/min
2/10/2022 2:45 PM	25:00	7.54 pH	19.88 °C	1,014.7 µS/cm	0.17 mg/L	0.65 NTU	-112.0 mV	22.40 ft	200.00 ml/min
2/10/2022 2:50 PM	30:00	7.54 pH	19.95 °C	1,015.4 µS/cm	0.16 mg/L	0.39 NTU	-97.1 mV	22.40 ft	200.00 ml/min

## Samples

Sample ID:	Description:
HGWC-13	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/9/2022 11:58:18 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: MW-5</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 20.82 ft</b> <b>Total Depth: 30.82 ft</b> <b>Initial Depth to Water: 10.74 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 25.82 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.26 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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	
2/9/2022 11:58 AM	00:00	6.15 pH	17.72 °C	439.67 µS/cm	2.21 mg/L	2.59 NTU	94.7 mV	10.96 ft	200.00 ml/min
2/9/2022 12:03 PM	05:00	6.14 pH	17.74 °C	440.08 µS/cm	1.86 mg/L	2.03 NTU	84.7 mV	10.96 ft	200.00 ml/min
2/9/2022 12:08 PM	10:00	6.14 pH	17.72 °C	440.49 µS/cm	1.84 mg/L	1.56 NTU	110.9 mV	10.99 ft	200.00 ml/min
2/9/2022 12:13 PM	15:00	6.13 pH	17.68 °C	439.46 µS/cm	1.76 mg/L	1.25 NTU	111.8 mV	10.95 ft	200.00 ml/min
2/9/2022 12:18 PM	20:00	6.13 pH	17.75 °C	438.14 µS/cm	1.68 mg/L	1.13 NTU	111.2 mV	10.99 ft	200.00 ml/min
2/9/2022 12:23 PM	25:00	6.13 pH	17.81 °C	437.66 µS/cm	1.68 mg/L	0.98 NTU	81.4 mV	11.00 ft	200.00 ml/min
2/9/2022 12:28 PM	30:00	6.13 pH	17.90 °C	436.64 µS/cm	1.62 mg/L	1.03 NTU	108.7 mV	11.00 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-5	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/9/2022 1:33:42 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: MW-6</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 23.00 ft</b> <b>Total Depth: 33.00 ft</b> <b>Initial Depth to Water: 11.15 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 28 ft</b> <b>Estimated Total Volume Pumped: 8 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.10 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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 1:33 PM	00:00	6.93 pH	19.61 °C	960.08 µS/cm	1.61 mg/L	41.10 NTU	-70.7 mV	11.20 ft	200.00 ml/min
2/9/2022 1:38 PM	05:00	6.96 pH	20.12 °C	935.75 µS/cm	0.35 mg/L	36.60 NTU	-18.4 mV	11.21 ft	200.00 ml/min
2/9/2022 1:43 PM	10:00	6.97 pH	20.23 °C	926.39 µS/cm	0.25 mg/L	16.90 NTU	-6.5 mV	11.21 ft	200.00 ml/min
2/9/2022 1:48 PM	15:00	6.98 pH	20.26 °C	924.13 µS/cm	0.26 mg/L	11.77 NTU	-4.8 mV	11.22 ft	200.00 ml/min
2/9/2022 1:53 PM	20:00	7.00 pH	20.26 °C	923.36 µS/cm	0.26 mg/L	8.89 NTU	-5.6 mV	11.24 ft	200.00 ml/min
2/9/2022 1:58 PM	25:00	7.01 pH	20.29 °C	920.57 µS/cm	0.23 mg/L	6.49 NTU	-4.7 mV	11.24 ft	200.00 ml/min
2/9/2022 2:03 PM	30:00	7.01 pH	20.27 °C	918.86 µS/cm	0.20 mg/L	5.08 NTU	-4.3 mV	11.24 ft	200.00 ml/min
2/9/2022 2:08 PM	35:00	7.01 pH	20.26 °C	917.55 µS/cm	0.17 mg/L	4.98 NTU	-5.2 mV	11.25 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-6	Grab sample

# Low-Flow Test Report:

Test Date / Time: 2/8/2022 4:20:38 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

<b>Location Name: MW-7</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 16.80 ft</b> <b>Total Depth: 26.80 ft</b> <b>Initial Depth to Water: 6.13 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 21.80 ft</b> <b>Estimated Total Volume Pumped: 9 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.04 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

Five bottles: Full app. III and IV.

## Weather Conditions:

Sunny, 52 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 4:20 PM	00:00	6.62 pH	16.74 °C	417.45 µS/cm	3.62 mg/L	3.06 NTU	66.5 mV	16.13 ft	200.00 ml/min
2/8/2022 4:25 PM	05:00	6.67 pH	16.79 °C	409.50 µS/cm	2.77 mg/L	3.22 NTU	55.2 mV	16.13 ft	200.00 ml/min
2/8/2022 4:30 PM	10:00	6.67 pH	16.98 °C	406.85 µS/cm	2.65 mg/L	3.02 NTU	53.3 mV	16.15 ft	200.00 ml/min
2/8/2022 4:35 PM	15:00	6.66 pH	17.09 °C	398.29 µS/cm	2.43 mg/L	1.47 NTU	51.7 mV	16.15 ft	200.00 ml/min
2/8/2022 4:40 PM	20:00	6.67 pH	17.19 °C	421.42 µS/cm	2.27 mg/L	1.54 NTU	49.7 mV	16.17 ft	200.00 ml/min
2/8/2022 4:45 PM	25:00	6.72 pH	17.14 °C	394.75 µS/cm	2.43 mg/L	1.15 NTU	76.4 mV	16.17 ft	200.00 ml/min
2/8/2022 4:50 PM	30:00	6.72 pH	17.20 °C	425.66 µS/cm	2.35 mg/L	0.85 NTU	76.8 mV	16.17 ft	200.00 ml/min
2/8/2022 4:55 PM	35:00	6.71 pH	17.23 °C	430.83 µS/cm	2.20 mg/L	0.97 NTU	47.9 mV	16.17 ft	200.00 ml/min
2/8/2022 5:00 PM	40:00	6.73 pH	17.05 °C	425.12 µS/cm	2.22 mg/L	0.72 NTU	46.3 mV	16.17 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-7	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/9/2022 3:00:04 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

<b>Location Name: MW-19</b> <b>Well Diameter: 2 in Casing</b> <b>Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 19.87 ft Total</b> <b>Depth: 29.87 ft</b> <b>Initial Depth to Water: 9.40 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 24.87 ft</b> <b>Estimated Total Volume Pumped: 17 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.09 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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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	
2/9/2022 3:00 PM	00:00	6.29 pH	18.79 °C	642.81 µS/cm	1.55 mg/L	10.13 NTU	55.9 mV	9.45 ft	200.00 ml/min
2/9/2022 3:05 PM	05:00	6.25 pH	19.00 °C	584.72 µS/cm	1.00 mg/L	8.27 NTU	54.7 mV	9.47 ft	200.00 ml/min
2/9/2022 3:10 PM	10:00	6.27 pH	18.84 °C	651.00 µS/cm	0.91 mg/L	5.97 NTU	83.4 mV	9.47 ft	200.00 ml/min
2/9/2022 3:15 PM	15:00	6.27 pH	18.97 °C	665.68 µS/cm	0.86 mg/L	5.88 NTU	52.5 mV	9.47 ft	200.00 ml/min
2/9/2022 3:20 PM	20:00	6.27 pH	19.04 °C	679.35 µS/cm	0.77 mg/L	5.53 NTU	81.6 mV	9.49 ft	200.00 ml/min
2/9/2022 3:25 PM	25:00	6.27 pH	19.10 °C	693.31 µS/cm	0.79 mg/L	8.17 NTU	53.4 mV	9.49 ft	200.00 ml/min
2/9/2022 3:30 PM	30:00	6.29 pH	18.98 °C	698.21 µS/cm	0.74 mg/L	8.56 NTU	50.6 mV	9.49 ft	200.00 ml/min
2/9/2022 3:35 PM	35:00	6.29 pH	19.07 °C	699.23 µS/cm	0.79 mg/L	7.75 NTU	78.2 mV	9.49 ft	200.00 ml/min
2/9/2022 3:40 PM	40:00	6.28 pH	19.15 °C	717.10 µS/cm	0.68 mg/L	5.78 NTU	51.5 mV	9.49 ft	200.00 ml/min
2/9/2022 3:45 PM	45:00	6.30 pH	19.10 °C	505.19 µS/cm	0.66 mg/L	4.85 NTU	77.6 mV	9.49 ft	200.00 ml/min
2/9/2022 3:50 PM	50:00	6.29 pH	19.07 °C	713.81 µS/cm	0.78 mg/L	4.30 NTU	50.2 mV	9.49 ft	200.00 ml/min
2/9/2022 3:55 PM	55:00	6.29 pH	19.14 °C	711.72 µS/cm	0.86 mg/L	2.36 NTU	75.5 mV	9.49 ft	200.00 ml/min
2/9/2022 4:00 PM	01:00:00	6.27 pH	19.19 °C	636.21 µS/cm	0.68 mg/L	1.73 NTU	49.4 mV	9.49 ft	200.00 ml/min

2/9/2022 4:05 PM	01:05:00	6.30 pH	19.08 °C	614.01 µS/cm	0.75 mg/L	4.03 NTU	48.4 mV	9.49 ft	200.00 ml/min
2/9/2022 4:10 PM	01:10:00	6.31 pH	19.05 °C	717.42 µS/cm	0.75 mg/L	3.59 NTU	47.2 mV	9.49 ft	200.00 ml/min
2/9/2022 4:15 PM	01:15:00	6.30 pH	19.14 °C	716.25 µS/cm	0.77 mg/L	3.36 NTU	73.4 mV	9.49 ft	200.00 ml/min
2/9/2022 4:20 PM	01:20:00	6.28 pH	19.16 °C	718.67 µS/cm	0.77 mg/L	2.78 NTU	49.0 mV	9.49 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-19	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/10/2022 10:57:47 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: MW-20</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 24.36 ft</b> <b>Total Depth: 34.36 ft</b> <b>Initial Depth to Water: 9.43 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 29.36 ft</b> <b>Estimated Total Volume Pumped: 10 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.57 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

Five bottles: Full app. III and IV.

## Weather Conditions:

Sunny, 40 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 10:57 AM	00:00	7.10 pH	17.54 °C	670.61 µS/cm	0.39 mg/L	8.50 NTU	-70.8 mV	9.82 ft	200.00 ml/min
2/10/2022 11:02 AM	05:00	7.14 pH	17.72 °C	673.89 µS/cm	0.32 mg/L	7.83 NTU	-85.8 mV	9.85 ft	200.00 ml/min
2/10/2022 11:07 AM	10:00	7.16 pH	17.76 °C	676.28 µS/cm	0.27 mg/L	7.26 NTU	-87.6 mV	9.89 ft	200.00 ml/min
2/10/2022 11:12 AM	15:00	7.17 pH	17.77 °C	677.97 µS/cm	0.22 mg/L	7.10 NTU	-88.7 mV	9.94 ft	200.00 ml/min
2/10/2022 11:17 AM	20:00	7.18 pH	17.81 °C	679.24 µS/cm	0.20 mg/L	6.15 NTU	-89.0 mV	9.94 ft	200.00 ml/min
2/10/2022 11:22 AM	25:00	7.19 pH	17.89 °C	679.96 µS/cm	0.18 mg/L	5.42 NTU	-89.4 mV	9.98 ft	200.00 ml/min
2/10/2022 11:27 AM	30:00	7.19 pH	17.90 °C	680.88 µS/cm	0.17 mg/L	4.95 NTU	-89.3 mV	10.00 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-20	Grab sample.



# Low-Flow Test Report:

Test Date / Time: 2/10/2022 12:57:49 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: MW-24D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 63.11 ft</b> <b>Total Depth: 73.11 ft</b> <b>Initial Depth to Water: 25.79 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 68.11 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.05 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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	
2/10/2022 12:57 PM	00:00	7.71 pH	19.44 °C	583.22 µS/cm	0.37 mg/L	1.14 NTU	-78.7 mV	25.84 ft	200.00 ml/min
2/10/2022 1:02 PM	05:00	7.77 pH	19.59 °C	582.12 µS/cm	0.16 mg/L	3.48 NTU	-53.4 mV	25.81 ft	200.00 ml/min
2/10/2022 1:07 PM	10:00	7.80 pH	19.41 °C	585.83 µS/cm	0.13 mg/L	4.33 NTU	-41.3 mV	25.88 ft	200.00 ml/min
2/10/2022 1:12 PM	15:00	7.81 pH	19.51 °C	584.95 µS/cm	0.12 mg/L	3.67 NTU	-35.5 mV	25.86 ft	200.00 ml/min
2/10/2022 1:17 PM	20:00	7.81 pH	19.72 °C	581.30 µS/cm	0.12 mg/L	3.89 NTU	-53.9 mV	25.87 ft	200.00 ml/min
2/10/2022 1:22 PM	25:00	7.81 pH	19.68 °C	581.21 µS/cm	0.12 mg/L	3.75 NTU	-52.2 mV	25.86 ft	200.00 ml/min
2/10/2022 1:27 PM	30:00	7.82 pH	19.57 °C	582.76 µS/cm	0.13 mg/L	3.66 NTU	-29.9 mV	25.84 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-24D	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/9/2022 1:20:34 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

<b>Location Name: MW-25D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 53.03 ft</b> <b>Total Depth: 63.03 ft</b> <b>Initial Depth to Water: 10.4 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 58.03 ft</b> <b>Estimated Total Volume Pumped: 6 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 4.62 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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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	
2/9/2022 1:20 PM	00:00	7.69 pH	19.41 °C	602.23 µS/cm	1.18 mg/L	1.21 NTU	-131.0 mV	10.99 ft	200.00 ml/min
2/9/2022 1:25 PM	05:00	7.73 pH	18.41 °C	624.43 µS/cm	0.94 mg/L	2.01 NTU	-147.4 mV	12.68 ft	200.00 ml/min
2/9/2022 1:30 PM	10:00	7.78 pH	18.64 °C	638.18 µS/cm	0.73 mg/L	1.60 NTU	-156.7 mV	13.78 ft	200.00 ml/min
2/9/2022 1:35 PM	15:00	7.79 pH	18.56 °C	622.08 µS/cm	0.90 mg/L	1.89 NTU	-161.4 mV	14.75 ft	200.00 ml/min
2/9/2022 1:40 PM	20:00	7.80 pH	18.54 °C	619.05 µS/cm	0.83 mg/L	1.32 NTU	-162.2 mV	14.96 ft	100.00 ml/min
2/9/2022 1:45 PM	25:00	7.80 pH	18.54 °C	621.19 µS/cm	1.02 mg/L	1.14 NTU	-163.3 mV	15.00 ft	100.00 ml/min
2/9/2022 1:50 PM	30:00	7.80 pH	18.59 °C	620.65 µS/cm	1.05 mg/L	0.96 NTU	-164.8 mV	15.02 ft	100.00 ml/min
2/9/2022 1:55 PM	35:00	7.82 pH	18.92 °C	616.93 µS/cm	0.99 mg/L	0.99 NTU	-165.6 mV	15.02 ft	100.00 ml/min

## Samples

Sample ID:	Description:
MW-25D	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/9/2022 9:19:04 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: MW-26D</b> <b>Well Diameter: 2 in Casing</b> <b>Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 67.91 ft Total</b> <b>Depth: 77.91 ft</b> <b>Initial Depth to Water: 9.30 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 72.91 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.21 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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	
2/9/2022 9:19 AM	00:00	7.43 pH	14.24 °C	891.84 µS/cm	0.71 mg/L	2.79 NTU	-172.7 mV	9.45 ft	200.00 ml/min
2/9/2022 9:24 AM	05:00	7.29 pH	15.57 °C	1,000.5 µS/cm	0.21 mg/L	13.45 NTU	-83.5 mV	9.49 ft	200.00 ml/min
2/9/2022 9:29 AM	10:00	7.31 pH	16.16 °C	996.62 µS/cm	0.15 mg/L	11.87 NTU	-68.7 mV	9.46 ft	200.00 ml/min
2/9/2022 9:34 AM	15:00	7.31 pH	16.41 °C	996.55 µS/cm	0.11 mg/L	9.57 NTU	-77.4 mV	9.50 ft	200.00 ml/min
2/9/2022 9:39 AM	20:00	7.32 pH	16.57 °C	997.56 µS/cm	0.10 mg/L	6.63 NTU	-54.7 mV	9.50 ft	200.00 ml/min
2/9/2022 9:44 AM	25:00	7.32 pH	16.65 °C	995.64 µS/cm	0.10 mg/L	4.86 NTU	-66.4 mV	9.50 ft	200.00 ml/min
2/9/2022 9:49 AM	30:00	7.32 pH	16.78 °C	995.51 µS/cm	0.11 mg/L	4.73 NTU	-47.0 mV	9.51 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-26D	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/10/2022 9:20:04 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

<b>Location Name: MW-27D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 52.97 ft</b> <b>Total Depth: 62.97 ft</b> <b>Initial Depth to Water: 4.63 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 57.97 ft</b> <b>Estimated Total Volume Pumped: 55 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 48.63 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

Five bottles: Full app. III and IV.

## Weather Conditions:

Sunny, 33 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 9:20 AM	00:00	7.83 pH	15.93 °C	461.77 µS/cm	1.06 mg/L	1.56 NTU	-153.0 mV	7.21 ft	300.00 ml/min
2/10/2022 9:25 AM	05:00	7.83 pH	16.36 °C	467.77 µS/cm	0.94 mg/L	3.81 NTU	-158.4 mV	8.58 ft	300.00 ml/min
2/10/2022 9:30 AM	10:00	7.80 pH	16.68 °C	428.40 µS/cm	0.95 mg/L	5.29 NTU	-160.5 mV	10.84 ft	300.00 ml/min
2/10/2022 9:35 AM	15:00	7.79 pH	16.96 °C	431.60 µS/cm	0.96 mg/L	6.12 NTU	-155.5 mV	12.72 ft	300.00 ml/min
2/10/2022 9:40 AM	20:00	7.78 pH	17.09 °C	420.35 µS/cm	1.00 mg/L	2.91 NTU	-150.2 mV	14.77 ft	300.00 ml/min
2/10/2022 9:45 AM	25:00	7.74 pH	17.22 °C	422.92 µS/cm	0.88 mg/L	3.53 NTU	-145.6 mV	16.71 ft	300.00 ml/min
2/10/2022 9:50 AM	30:00	7.76 pH	17.18 °C	416.98 µS/cm	0.99 mg/L	2.24 NTU	-160.1 mV	18.84 ft	300.00 ml/min
2/10/2022 9:55 AM	35:00	7.78 pH	17.32 °C	422.22 µS/cm	0.96 mg/L	2.30 NTU	-158.1 mV	21.40 ft	300.00 ml/min
2/10/2022 10:00 AM	40:00	7.79 pH	17.49 °C	421.53 µS/cm	1.47 mg/L	2.44 NTU	-128.9 mV	22.80 ft	300.00 ml/min
2/10/2022 10:05 AM	45:00	7.79 pH	17.59 °C	421.46 µS/cm	2.34 mg/L	2.59 NTU	-114.1 mV	24.76 ft	300.00 ml/min
2/10/2022 10:10 AM	50:00	7.83 pH	17.68 °C	421.45 µS/cm	3.03 mg/L	3.02 NTU	-106.8 mV	26.70 ft	300.00 ml/min
2/10/2022 10:15 AM	55:00	7.85 pH	17.76 °C	421.15 µS/cm	3.16 mg/L	2.72 NTU	-103.0 mV	28.51 ft	300.00 ml/min
2/10/2022 10:20 AM	01:00:00	7.83 pH	17.82 °C	426.49 µS/cm	3.35 mg/L	3.18 NTU	-99.8 mV	30.25 ft	300.00 ml/min

2/10/2022 10:25 AM	01:05:00	7.84 pH	17.88 °C	417.81 µS/cm	3.50 mg/L	3.55 NTU	-100.4 mV	31.97 ft	300.00 ml/min
2/10/2022 10:30 AM	01:10:00	7.86 pH	17.90 °C	424.10 µS/cm	3.54 mg/L	3.87 NTU	-102.3 mV	33.72 ft	300.00 ml/min
2/10/2022 10:35 AM	01:15:00	7.86 pH	17.99 °C	425.66 µS/cm	3.51 mg/L	4.02 NTU	-101.7 mV	35.40 ft	300.00 ml/min
2/10/2022 10:40 AM	01:20:00	7.88 pH	17.49 °C	423.65 µS/cm	3.70 mg/L	4.80 NTU	-100.7 mV	36.41 ft	200.00 ml/min
2/10/2022 10:45 AM	01:25:00	7.89 pH	17.48 °C	430.17 µS/cm	3.42 mg/L	3.31 NTU	-110.8 mV	36.84 ft	100.00 ml/min
2/10/2022 10:50 AM	01:30:00	7.87 pH	18.02 °C	408.07 µS/cm	3.18 mg/L	4.18 NTU	-118.4 mV	37.32 ft	100.00 ml/min
2/10/2022 10:55 AM	01:35:00	7.89 pH	17.94 °C	431.71 µS/cm	3.12 mg/L	3.66 NTU	-119.7 mV	37.77 ft	100.00 ml/min
2/10/2022 11:00 AM	01:40:00	7.90 pH	18.04 °C	431.62 µS/cm	3.13 mg/L	3.24 NTU	-136.4 mV	38.23 ft	100.00 ml/min
2/10/2022 11:05 AM	01:45:00	7.86 pH	17.99 °C	425.97 µS/cm	3.12 mg/L	1.85 NTU	-118.2 mV	38.87 ft	100.00 ml/min
2/10/2022 11:10 AM	01:50:00	7.89 pH	18.04 °C	430.44 µS/cm	3.18 mg/L	2.06 NTU	-136.4 mV	38.87 ft	100.00 ml/min
2/10/2022 11:15 AM	01:55:00	7.90 pH	18.07 °C	426.57 µS/cm	3.23 mg/L	1.47 NTU	-120.5 mV	39.61 ft	100.00 ml/min
2/10/2022 11:20 AM	02:00:00	7.90 pH	18.10 °C	429.68 µS/cm	3.20 mg/L	1.19 NTU	-120.3 mV	39.98 ft	100.00 ml/min
2/10/2022 11:25 AM	02:05:00	7.88 pH	18.18 °C	429.26 µS/cm	3.17 mg/L	0.84 NTU	-135.1 mV	40.40 ft	100.00 ml/min
2/10/2022 11:30 AM	02:10:00	7.90 pH	18.22 °C	282.39 µS/cm	3.11 mg/L	0.14 NTU	-121.8 mV	41.00 ft	100.00 ml/min
2/10/2022 11:35 AM	02:15:00	7.91 pH	18.21 °C	428.37 µS/cm	3.13 mg/L	0.14 NTU	-121.7 mV	41.26 ft	100.00 ml/min
2/10/2022 11:40 AM	02:20:00	7.91 pH	18.41 °C	428.55 µS/cm	3.13 mg/L	0.03 NTU	-121.5 mV	41.63 ft	100.00 ml/min
2/10/2022 11:45 AM	02:25:00	7.90 pH	18.43 °C	426.97 µS/cm	3.19 mg/L	0.18 NTU	-122.3 mV	42.02 ft	100.00 ml/min
2/10/2022 11:50 AM	02:30:00	7.91 pH	18.48 °C	382.81 µS/cm	3.35 mg/L	0.26 NTU	-122.9 mV	42.41 ft	100.00 ml/min
2/10/2022 11:55 AM	02:35:00	7.92 pH	18.54 °C	427.27 µS/cm	3.06 mg/L	0.09 NTU	-123.1 mV	42.80 ft	100.00 ml/min
2/10/2022 12:00 PM	02:40:00	7.90 pH	18.53 °C	426.60 µS/cm	3.13 mg/L	0.47 NTU	-121.8 mV	43.20 ft	100.00 ml/min
2/10/2022 12:05 PM	02:45:00	7.89 pH	18.60 °C	425.40 µS/cm	3.20 mg/L	0.42 NTU	-124.7 mV	43.55 ft	100.00 ml/min
2/10/2022 12:10 PM	02:50:00	7.91 pH	18.65 °C	398.51 µS/cm	3.02 mg/L	0.51 NTU	-124.8 mV	43.96 ft	100.00 ml/min
2/10/2022 12:15 PM	02:55:00	7.92 pH	18.58 °C	425.10 µS/cm	2.97 mg/L	0.32 NTU	-125.3 mV	44.31 ft	100.00 ml/min
2/10/2022 12:20 PM	03:00:00	7.92 pH	18.74 °C	424.39 µS/cm	3.03 mg/L	0.34 NTU	-122.7 mV	44.66 ft	100.00 ml/min
2/10/2022 12:25 PM	03:05:00	7.90 pH	18.76 °C	424.58 µS/cm	2.89 mg/L	0.37 NTU	-126.2 mV	45.10 ft	100.00 ml/min
2/10/2022 12:30 PM	03:10:00	7.92 pH	18.75 °C	427.50 µS/cm	3.12 mg/L	0.40 NTU	-126.7 mV	45.45 ft	100.00 ml/min
2/10/2022 12:35 PM	03:15:00	7.93 pH	18.83 °C	424.38 µS/cm	3.07 mg/L	0.38 NTU	-127.3 mV	45.82 ft	100.00 ml/min
2/10/2022 12:40 PM	03:20:00	7.91 pH	18.92 °C	423.90 µS/cm	3.05 mg/L	0.39 NTU	-141.3 mV	46.09 ft	100.00 ml/min
2/10/2022 12:45 PM	03:25:00	7.91 pH	18.97 °C	422.70 µS/cm	2.93 mg/L	0.41 NTU	-141.8 mV	46.38 ft	100.00 ml/min

2/10/2022 12:50 PM	03:30:00	7.92 pH	18.93 °C	421.23 µS/cm	2.95 mg/L	0.36 NTU	-128.3 mV	46.71 ft	100.00 ml/min
2/10/2022 12:55 PM	03:35:00	7.93 pH	18.97 °C	422.85 µS/cm	3.00 mg/L	0.46 NTU	-128.7 mV	47.02 ft	100.00 ml/min
2/10/2022 1:00 PM	03:40:00	7.94 pH	18.97 °C	422.07 µS/cm	2.88 mg/L	0.33 NTU	-128.4 mV	47.28 ft	100.00 ml/min
2/10/2022 1:05 PM	03:45:00	7.92 pH	19.12 °C	422.73 µS/cm	3.02 mg/L	0.39 NTU	-143.3 mV	47.51 ft	100.00 ml/min
2/10/2022 1:10 PM	03:50:00	7.94 pH	19.08 °C	422.15 µS/cm	3.12 mg/L	0.32 NTU	-130.9 mV	47.72 ft	100.00 ml/min
2/10/2022 1:15 PM	03:55:00	7.93 pH	19.11 °C	427.17 µS/cm	2.89 mg/L	0.43 NTU	-130.5 mV	47.93 ft	100.00 ml/min
2/10/2022 1:20 PM	04:00:00	7.94 pH	19.10 °C	421.36 µS/cm	2.81 mg/L	0.47 NTU	-130.7 mV	48.17 ft	100.00 ml/min
2/10/2022 1:25 PM	04:05:00	7.93 pH	19.13 °C	420.66 µS/cm	2.98 mg/L	0.31 NTU	-131.2 mV	48.47 ft	100.00 ml/min
2/10/2022 1:30 PM	04:10:00	7.93 pH	19.10 °C	420.79 µS/cm	2.88 mg/L	0.36 NTU	-132.2 mV	48.62 ft	100.00 ml/min
2/10/2022 1:35 PM	04:15:00	7.94 pH	19.07 °C	406.37 µS/cm	2.87 mg/L	0.84 NTU	-131.0 mV	48.85 ft	100.00 ml/min
2/10/2022 1:40 PM	04:20:00	7.94 pH	19.10 °C	419.93 µS/cm	2.82 mg/L	0.78 NTU	-128.9 mV	49.07 ft	100.00 ml/min
2/10/2022 1:45 PM	04:25:00	7.94 pH	19.14 °C	428.73 µS/cm	2.79 mg/L	0.96 NTU	-132.0 mV	49.26 ft	100.00 ml/min
2/10/2022 1:50 PM	04:30:00	7.94 pH	19.10 °C	418.88 µS/cm	2.75 mg/L	0.87 NTU	-132.3 mV	49.48 ft	100.00 ml/min
2/10/2022 1:55 PM	04:35:00	7.95 pH	19.08 °C	419.70 µS/cm	2.78 mg/L	0.94 NTU	-131.6 mV	49.70 ft	100.00 ml/min
2/10/2022 2:00 PM	04:40:00	7.93 pH	19.06 °C	418.32 µS/cm	2.80 mg/L	0.72 NTU	-130.6 mV	49.91 ft	100.00 ml/min
2/10/2022 2:05 PM	04:45:00	7.94 pH	19.10 °C	418.17 µS/cm	2.76 mg/L	0.93 NTU	-132.9 mV	50.09 ft	100.00 ml/min
2/10/2022 2:10 PM	04:50:00	7.95 pH	19.14 °C	418.41 µS/cm	2.75 mg/L	0.81 NTU	-133.9 mV	50.28 ft	100.00 ml/min
2/10/2022 2:15 PM	04:55:00	7.96 pH	19.15 °C	417.98 µS/cm	3.02 mg/L	0.84 NTU	-133.3 mV	50.48 ft	100.00 ml/min
2/10/2022 2:20 PM	05:00:00	7.94 pH	19.08 °C	418.18 µS/cm	2.77 mg/L	0.87 NTU	-145.2 mV	50.69 ft	100.00 ml/min
2/10/2022 2:25 PM	05:05:00	7.95 pH	19.06 °C	417.05 µS/cm	2.75 mg/L	1.02 NTU	-134.1 mV	50.86 ft	100.00 ml/min
2/10/2022 2:30 PM	05:10:00	7.96 pH	19.13 °C	417.18 µS/cm	2.71 mg/L	0.93 NTU	-134.2 mV	51.06 ft	100.00 ml/min
2/10/2022 2:35 PM	05:15:00	7.96 pH	19.14 °C	416.73 µS/cm	2.69 mg/L	0.78 NTU	-134.1 mV	51.23 ft	100.00 ml/min
2/10/2022 2:40 PM	05:20:00	7.94 pH	19.13 °C	416.17 µS/cm	2.76 mg/L	0.81 NTU	-131.8 mV	51.46 ft	100.00 ml/min
2/10/2022 2:45 PM	05:25:00	7.95 pH	19.10 °C	416.66 µS/cm	2.71 mg/L	1.17 NTU	-146.1 mV	51.61 ft	100.00 ml/min
2/10/2022 2:50 PM	05:30:00	7.96 pH	19.10 °C	416.66 µS/cm	2.65 mg/L	0.93 NTU	-133.3 mV	51.78 ft	100.00 ml/min
2/10/2022 2:55 PM	05:35:00	7.96 pH	19.10 °C	416.49 µS/cm	2.66 mg/L	0.94 NTU	-132.9 mV	51.96 ft	100.00 ml/min
2/10/2022 3:00 PM	05:40:00	7.95 pH	19.16 °C	416.50 µS/cm	2.70 mg/L	0.70 NTU	-132.6 mV	52.14 ft	100.00 ml/min
2/10/2022 3:05 PM	05:45:00	7.96 pH	19.15 °C	416.70 µS/cm	2.79 mg/L	0.84 NTU	-134.6 mV	52.31 ft	100.00 ml/min
2/10/2022 3:10 PM	05:50:00	7.97 pH	19.14 °C	416.18 µS/cm	2.70 mg/L	0.97 NTU	-134.3 mV	52.49 ft	100.00 ml/min

2/10/2022 3:15 PM	05:55:00	7.96 pH	19.10 °C	416.53 µS/cm	2.65 mg/L	0.77 NTU	-132.9 mV	52.65 ft	100.00 ml/min
2/10/2022 3:20 PM	06:00:00	7.94 pH	19.19 °C	416.15 µS/cm	2.61 mg/L	0.74 NTU	-133.2 mV	52.81 ft	100.00 ml/min
2/10/2022 3:25 PM	06:05:00	7.96 pH	19.23 °C	415.94 µS/cm	2.55 mg/L	0.79 NTU	-136.0 mV	52.97 ft	100.00 ml/min
2/10/2022 3:30 PM	06:10:00	7.97 pH	19.05 °C	416.45 µS/cm	2.55 mg/L	1.12 NTU	-134.6 mV	53.15 ft	100.00 ml/min
2/10/2022 3:35 PM	06:15:00	7.96 pH	19.06 °C	416.89 µS/cm	2.60 mg/L	0.96 NTU	-131.0 mV	53.26 ft	100.00 ml/min

## Samples

Sample ID:	Description:
MW-27D	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/10/2022 12:58:42 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

<b>Location Name: MW-28D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft Top of</b> <b>Screen: 48.14 ft</b> <b>Total Depth: 58.14 ft</b> <b>Initial Depth to Water: 5.00 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 53.14 ft</b> <b>Estimated Total Volume Pumped:</b> <b>18 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.05 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728634</b>
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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	
2/10/2022 12:58 PM	00:00	7.69 pH	20.89 °C	500.78 µS/cm	1.24 mg/L	3.91 NTU	-121.3 mV	5.05 ft	200.00 ml/min
2/10/2022 1:03 PM	05:00	7.57 pH	18.03 °C	502.04 µS/cm	0.22 mg/L	11.10 NTU	-108.2 mV	5.05 ft	200.00 ml/min
2/10/2022 1:08 PM	10:00	7.58 pH	17.70 °C	500.66 µS/cm	0.09 mg/L	46.00 NTU	-139.6 mV	5.05 ft	200.00 ml/min
2/10/2022 1:13 PM	15:00	7.58 pH	17.63 °C	500.56 µS/cm	0.06 mg/L	33.10 NTU	-144.8 mV	5.05 ft	200.00 ml/min
2/10/2022 1:18 PM	20:00	7.58 pH	17.63 °C	499.14 µS/cm	0.06 mg/L	33.60 NTU	-139.2 mV	5.05 ft	200.00 ml/min
2/10/2022 1:23 PM	25:00	7.58 pH	17.66 °C	498.64 µS/cm	0.07 mg/L	24.20 NTU	-198.3 mV	5.05 ft	200.00 ml/min
2/10/2022 1:28 PM	30:00	7.58 pH	17.73 °C	497.85 µS/cm	0.08 mg/L	25.90 NTU	-181.2 mV	5.05 ft	200.00 ml/min
2/10/2022 1:33 PM	35:00	7.57 pH	17.71 °C	498.78 µS/cm	0.09 mg/L	20.90 NTU	-181.0 mV	5.05 ft	200.00 ml/min
2/10/2022 1:38 PM	40:00	7.57 pH	17.71 °C	501.24 µS/cm	0.11 mg/L	18.00 NTU	-202.9 mV	5.05 ft	200.00 ml/min
2/10/2022 1:43 PM	45:00	7.57 pH	17.80 °C	502.47 µS/cm	0.12 mg/L	14.20 NTU	-163.4 mV	5.05 ft	200.00 ml/min
2/10/2022 1:48 PM	50:00	7.57 pH	17.80 °C	505.36 µS/cm	0.13 mg/L	11.30 NTU	-180.1 mV	5.05 ft	200.00 ml/min
2/10/2022 1:53 PM	55:00	7.58 pH	17.85 °C	506.25 µS/cm	0.13 mg/L	11.42 NTU	-139.7 mV	5.05 ft	200.00 ml/min
2/10/2022 1:58 PM	01:00:00	7.58 pH	17.84 °C	509.02 µS/cm	0.14 mg/L	9.69 NTU	-131.5 mV	5.05 ft	200.00 ml/min



2/10/2022 2:03 PM	01:05:00	7.58 pH	17.87 °C	510.03 µS/cm	0.14 mg/L	8.23 NTU	-125.8 mV	5.05 ft	200.00 ml/min
2/10/2022 2:08 PM	01:10:00	7.58 pH	17.84 °C	511.86 µS/cm	0.14 mg/L	7.34 NTU	-149.1 mV	5.05 ft	200.00 ml/min
2/10/2022 2:13 PM	01:15:00	7.58 pH	17.96 °C	512.19 µS/cm	0.15 mg/L	6.48 NTU	-118.0 mV	5.05 ft	200.00 ml/min
2/10/2022 2:18 PM	01:20:00	7.59 pH	17.91 °C	513.65 µS/cm	0.15 mg/L	5.63 NTU	-142.5 mV	5.05 ft	200.00 ml/min
2/10/2022 2:23 PM	01:25:00	7.59 pH	17.94 °C	514.48 µS/cm	0.15 mg/L	4.96 NTU	-140.3 mV	5.05 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-28D	Grab sample.

# Low-Flow Test Report:

Test Date / Time: 2/10/2022 8:59:51 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: MW-29</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 18.21 ft</b> <b>Total Depth: 28.21 ft</b> <b>Initial Depth to Water: 4.19 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 23.21 ft</b> <b>Estimated Total Volume Pumped: 9 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.10 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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	
2/10/2022 8:59 AM	00:00	7.05 pH	13.31 °C	815.94 µS/cm	1.77 mg/L	36.00 NTU	4.2 mV	4.27 ft	200.00 ml/min
2/10/2022 9:04 AM	05:00	7.21 pH	14.73 °C	829.86 µS/cm	0.59 mg/L	21.90 NTU	18.1 mV	4.27 ft	200.00 ml/min
2/10/2022 9:09 AM	10:00	7.23 pH	14.96 °C	825.03 µS/cm	0.55 mg/L	11.30 NTU	24.5 mV	4.29 ft	200.00 ml/min
2/10/2022 9:14 AM	15:00	7.25 pH	15.03 °C	827.09 µS/cm	0.46 mg/L	11.00 NTU	28.2 mV	4.29 ft	200.00 ml/min
2/10/2022 9:19 AM	20:00	7.26 pH	15.26 °C	828.25 µS/cm	0.40 mg/L	10.27 NTU	29.8 mV	4.30 ft	200.00 ml/min
2/10/2022 9:24 AM	25:00	7.27 pH	15.26 °C	824.27 µS/cm	0.33 mg/L	9.05 NTU	27.9 mV	4.28 ft	200.00 ml/min
2/10/2022 9:29 AM	30:00	7.26 pH	15.33 °C	827.43 µS/cm	0.29 mg/L	6.61 NTU	29.7 mV	4.30 ft	200.00 ml/min
2/10/2022 9:34 AM	35:00	7.27 pH	15.57 °C	825.28 µS/cm	0.25 mg/L	5.95 NTU	27.6 mV	4.29 ft	200.00 ml/min
2/10/2022 9:39 AM	40:00	7.27 pH	15.62 °C	827.37 µS/cm	0.24 mg/L	4.98 NTU	29.2 mV	4.29 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-29	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

<b>Location Name: HGWA-1</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 22.49 ft</b> <b>Total Depth: 32.29 ft</b> <b>Initial Depth to Water: 18.63 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 27.49 ft</b> <b>Estimated Total Volume Pumped: 8.6 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.46 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883546</b>
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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

<b>Location Name: HGWA-2</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 17.95 ft</b> <b>Total Depth: 28.37 ft</b> <b>Initial Depth to Water: 10.58 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 22.95 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.1 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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

<b>Location Name: HGWA-3</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 34.51 ft</b> <b>Total Depth: 45.32 ft</b> <b>Initial Depth to Water: 10.33 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 39.51 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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

<b>Location Name: HGWA-43D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 51.25 ft</b> <b>Total Depth: 61.75 ft</b> <b>Initial Depth to Water: 18.46 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 56.25 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 3.22 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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

<b>Location Name: HGWA-44D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 103.5 ft</b> <b>Total Depth: 111.42 ft</b> <b>Initial Depth to Water: 17.96 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 108.5 ft</b> <b>Estimated Total Volume Pumped: 17 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 4.4 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884186</b>
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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: 8/3/2022 3:22:00 PM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

<b>Location Name: HGWC-7</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 17.96 ft</b> <b>Total Depth: 30.02 ft</b> <b>Initial Depth to Water: 6.74 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 22.96 ft</b> <b>Estimated Total Volume Pumped: 10 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.08 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883546</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

**Weather Conditions:** Sunny, 90 degrees F. Might storm

## 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	
8/3/2022 3:22 PM	00:00	6.90 pH	23.99 °C	694.78 µS/cm	0.13 mg/L	1.09 NTU	21.8 mV	6.80 ft	200.00 ml/min
8/3/2022 3:27 PM	05:00	6.91 pH	23.45 °C	698.93 µS/cm	0.10 mg/L	2.16 NTU	45.2 mV	6.81 ft	200.00 ml/min
8/3/2022 3:32 PM	10:00	6.92 pH	23.14 °C	700.08 µS/cm	0.08 mg/L	6.20 NTU	56.3 mV	6.81 ft	200.00 ml/min
8/3/2022 3:37 PM	15:00	6.93 pH	22.60 °C	703.25 µS/cm	0.08 mg/L	11.23 NTU	58.6 mV	6.81 ft	200.00 ml/min
8/3/2022 3:42 PM	20:00	6.92 pH	21.97 °C	704.31 µS/cm	0.07 mg/L	17.50 NTU	59.6 mV	6.82 ft	200.00 ml/min
8/3/2022 3:47 PM	25:00	6.93 pH	21.60 °C	704.44 µS/cm	0.08 mg/L	12.00 NTU	27.5 mV	6.81 ft	200.00 ml/min
8/3/2022 3:52 PM	30:00	6.93 pH	21.44 °C	706.92 µS/cm	0.06 mg/L	11.70 NTU	48.9 mV	6.81 ft	200.00 ml/min
8/3/2022 3:57 PM	35:00	6.93 pH	21.48 °C	706.65 µS/cm	0.06 mg/L	12.32 NTU	52.7 mV	6.82 ft	200.00 ml/min
8/3/2022 4:02 PM	40:00	6.93 pH	21.31 °C	704.91 µS/cm	0.05 mg/L	8.32 NTU	54.5 mV	6.81 ft	200.00 ml/min
8/3/2022 4:07 PM	45:00	6.93 pH	21.17 °C	706.51 µS/cm	0.05 mg/L	7.28 NTU	53.3 mV	6.82 ft	200.00 ml/min

## Samples

Sample ID:	Description:
HGWC-7	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/11/2022 1:07:59 PM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

<b>Location Name: HGWC-7</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 17.96 ft</b> <b>Total Depth: 30.02 ft</b> <b>Initial Depth to Water: 7.2 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 22.96 ft</b> <b>Estimated Total Volume Pumped: 25.8 L</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 240 ml/min</b> <b>Final Draw Down: 0.09 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883546</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Partly 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	
8/11/2022 1:07 PM	00:00	7.08 pH	23.27 °C	704.86 µS/cm	0.19 mg/L	842.00 AU	27.6 mV	7.29 ft	200.00 ml/min
8/11/2022 1:12 PM	05:00	7.07 pH	22.60 °C	712.29 µS/cm	0.13 mg/L	2,272.0 AU	54.1 mV	7.29 ft	200.00 ml/min
8/11/2022 1:17 PM	10:00	7.07 pH	22.55 °C	713.08 µS/cm	0.10 mg/L	2,571.0 AU	59.0 mV	7.29 ft	200.00 ml/min
8/11/2022 1:22 PM	15:00	7.07 pH	22.09 °C	715.24 µS/cm	0.09 mg/L	2,404.0 AU	58.8 mV	7.29 ft	240.00 ml/min
8/11/2022 1:27 PM	20:00	7.06 pH	22.11 °C	716.82 µS/cm	0.08 mg/L	1,936.0 AU	55.7 mV	7.29 ft	240.00 ml/min
8/11/2022 1:32 PM	25:00	7.07 pH	21.85 °C	716.18 µS/cm	0.08 mg/L	1,340.0 AU	52.8 mV	7.29 ft	240.00 ml/min
8/11/2022 1:37 PM	30:00	7.07 pH	21.71 °C	719.17 µS/cm	0.07 mg/L	955.00 AU	49.0 mV	7.29 ft	240.00 ml/min
8/11/2022 1:42 PM	35:00	7.07 pH	21.52 °C	717.12 µS/cm	0.07 mg/L	621.00 AU	45.0 mV	7.29 ft	240.00 ml/min
8/11/2022 1:47 PM	40:00	7.07 pH	21.62 °C	716.77 µS/cm	0.06 mg/L	65.00 NTU	42.8 mV	7.29 ft	240.00 ml/min
8/11/2022 1:52 PM	45:00	7.07 pH	21.33 °C	719.21 µS/cm	0.06 mg/L	50.70 NTU	41.6 mV	7.29 ft	240.00 ml/min
8/11/2022 1:57 PM	50:00	7.07 pH	21.28 °C	720.07 µS/cm	0.06 mg/L	34.90 NTU	40.4 mV	7.29 ft	240.00 ml/min
8/11/2022 2:02 PM	55:00	7.07 pH	21.57 °C	715.72 µS/cm	0.06 mg/L	21.80 NTU	39.2 mV	7.29 ft	240.00 ml/min
8/11/2022 2:07 PM	01:00:00	7.07 pH	21.65 °C	716.18 µS/cm	0.06 mg/L	17.00 NTU	39.1 mV	7.29 ft	240.00 ml/min

8/11/2022 2:12 PM	01:05:00	7.06 pH	21.38 °C	720.03 µS/cm	0.05 mg/L	14.30 NTU	39.8 mV	7.29 ft	240.00 ml/min
8/11/2022 2:17 PM	01:10:00	7.06 pH	21.63 °C	717.51 µS/cm	0.05 mg/L	11.10 NTU	39.5 mV	7.29 ft	240.00 ml/min
8/11/2022 2:22 PM	01:15:00	7.06 pH	21.89 °C	717.29 µS/cm	0.05 mg/L	9.52 NTU	40.9 mV	7.29 ft	240.00 ml/min
8/11/2022 2:27 PM	01:20:00	7.07 pH	21.77 °C	717.00 µS/cm	0.05 mg/L	8.25 NTU	41.7 mV	7.29 ft	240.00 ml/min
8/11/2022 2:32 PM	01:25:00	7.07 pH	21.57 °C	717.52 µS/cm	0.05 mg/L	5.14 NTU	42.5 mV	7.29 ft	240.00 ml/min
8/11/2022 2:37 PM	01:30:00	7.07 pH	21.76 °C	716.19 µS/cm	0.05 mg/L	10.18 NTU	41.3 mV	7.29 ft	240.00 ml/min
8/11/2022 2:42 PM	01:35:00	7.07 pH	21.71 °C	715.84 µS/cm	0.04 mg/L	4.53 NTU	42.0 mV	7.29 ft	240.00 ml/min
8/11/2022 2:47 PM	01:40:00	7.07 pH	21.41 °C	717.31 µS/cm	0.04 mg/L	4.51 NTU	43.3 mV	7.29 ft	240.00 ml/min

## Samples

Sample ID:	Description:
HGWC-7	Grab. Resample.

# Low-Flow Test Report:

Test Date / Time: 8/3/2022 8:39:25 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

<b>Location Name: HGWC-8</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 15.51 ft</b> <b>Total Depth: 25.05 ft</b> <b>Initial Depth to Water: 7.58 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 20.51 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 1.02 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884186</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Sunny, 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	
8/3/2022 8:39 AM	00:00	6.86 pH	21.89 °C	901.22 µS/cm	0.21 mg/L	10.72 NTU	69.2 mV	7.60 ft	200.00 ml/min
8/3/2022 8:44 AM	05:00	6.85 pH	21.63 °C	903.88 µS/cm	0.15 mg/L	11.60 NTU	73.2 mV	7.60 ft	200.00 ml/min
8/3/2022 8:49 AM	10:00	6.85 pH	21.59 °C	903.40 µS/cm	0.12 mg/L	10.05 NTU	76.0 mV	7.60 ft	200.00 ml/min
8/3/2022 8:54 AM	15:00	6.85 pH	21.48 °C	899.42 µS/cm	0.10 mg/L	6.00 NTU	89.4 mV	7.60 ft	200.00 ml/min
8/3/2022 8:59 AM	20:00	6.84 pH	21.42 °C	900.09 µS/cm	0.09 mg/L	3.14 NTU	91.4 mV	7.60 ft	200.00 ml/min
8/3/2022 9:04 AM	25:00	6.84 pH	21.51 °C	901.36 µS/cm	0.08 mg/L	2.38 NTU	79.5 mV	7.60 ft	200.00 ml/min
8/3/2022 9:09 AM	30:00	6.84 pH	21.42 °C	901.49 µS/cm	0.07 mg/L	1.78 NTU	79.9 mV	7.60 ft	200.00 ml/min

## Samples

Sample ID:	Description:
HGWC-8	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/4/2022 11:07:12 AM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

<b>Location Name: HGWC-9</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 36.97 ft</b> <b>Total Depth: 47.62 ft</b> <b>Initial Depth to Water: 14.45 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 41.97 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.02 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883546</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Sunny, 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	
8/4/2022 11:07 AM	00:00	7.03 pH	21.55 °C	1,063.1 µS/cm	1.31 mg/L	17.30 NTU	29.3 mV	14.46 ft	200.00 ml/min
8/4/2022 11:12 AM	05:00	7.04 pH	21.19 °C	1,060.3 µS/cm	0.78 mg/L	15.20 NTU	51.2 mV	14.47 ft	200.00 ml/min
8/4/2022 11:17 AM	10:00	7.03 pH	21.06 °C	1,065.6 µS/cm	0.54 mg/L	12.50 NTU	54.2 mV	14.47 ft	200.00 ml/min
8/4/2022 11:22 AM	15:00	7.03 pH	20.90 °C	1,063.7 µS/cm	0.41 mg/L	13.23 NTU	57.0 mV	14.47 ft	200.00 ml/min
8/4/2022 11:27 AM	20:00	7.03 pH	21.00 °C	1,063.7 µS/cm	0.30 mg/L	10.37 NTU	70.8 mV	14.47 ft	200.00 ml/min
8/4/2022 11:32 AM	25:00	7.03 pH	20.99 °C	1,063.0 µS/cm	0.33 mg/L	8.56 NTU	71.4 mV	14.47 ft	200.00 ml/min
8/4/2022 11:37 AM	30:00	7.03 pH	21.02 °C	1,061.4 µS/cm	0.30 mg/L	4.01 NTU	71.1 mV	14.47 ft	200.00 ml/min

## Samples

Sample ID:	Description:
HGWC-9	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/3/2022 12:37:14 PM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

<b>Location Name: HGWC-10</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 12.94 ft</b> <b>Total Depth: 22.70 ft</b> <b>Initial Depth to Water: 13.76 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 17.94 ft</b> <b>Estimated Total Volume Pumped: 17 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.05 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883546</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Hot, sunny, 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	
8/3/2022 12:37 PM	00:00	6.65 pH	24.88 °C	431.68 µS/cm	4.51 mg/L	0.82 NTU	68.6 mV	13.80 ft	200.00 ml/min
8/3/2022 12:42 PM	05:00	6.63 pH	23.41 °C	446.42 µS/cm	4.37 mg/L	0.81 NTU	83.0 mV	13.80 ft	200.00 ml/min
8/3/2022 12:47 PM	10:00	6.62 pH	23.14 °C	456.44 µS/cm	4.18 mg/L	1.08 NTU	88.3 mV	13.80 ft	200.00 ml/min
8/3/2022 12:52 PM	15:00	6.63 pH	22.73 °C	466.33 µS/cm	4.01 mg/L	0.94 NTU	92.8 mV	13.81 ft	200.00 ml/min
8/3/2022 12:57 PM	20:00	6.62 pH	22.48 °C	474.27 µS/cm	3.80 mg/L	0.77 NTU	121.8 mV	13.81 ft	200.00 ml/min
8/3/2022 1:02 PM	25:00	6.63 pH	22.42 °C	483.24 µS/cm	3.61 mg/L	0.90 NTU	125.7 mV	13.82 ft	200.00 ml/min
8/3/2022 1:07 PM	30:00	6.64 pH	22.33 °C	498.52 µS/cm	3.30 mg/L	0.90 NTU	127.8 mV	13.82 ft	200.00 ml/min
8/3/2022 1:12 PM	35:00	6.65 pH	22.35 °C	514.85 µS/cm	2.99 mg/L	0.71 NTU	128.4 mV	13.81 ft	200.00 ml/min
8/3/2022 1:17 PM	40:00	6.67 pH	22.33 °C	534.66 µS/cm	2.64 mg/L	0.82 NTU	129.0 mV	13.81 ft	200.00 ml/min
8/3/2022 1:22 PM	45:00	6.67 pH	22.40 °C	556.31 µS/cm	2.34 mg/L	1.63 NTU	129.0 mV	13.81 ft	200.00 ml/min
8/3/2022 1:27 PM	50:00	6.69 pH	22.09 °C	573.36 µS/cm	2.11 mg/L	0.71 NTU	129.0 mV	13.81 ft	200.00 ml/min
8/3/2022 1:32 PM	55:00	6.70 pH	22.10 °C	590.42 µS/cm	1.85 mg/L	0.70 NTU	127.5 mV	13.81 ft	200.00 ml/min
8/3/2022 1:37 PM	01:00:00	6.70 pH	22.44 °C	609.09 µS/cm	1.63 mg/L	0.76 NTU	127.7 mV	13.81 ft	200.00 ml/min

8/3/2022 1:42 PM	01:05:00	6.71 pH	22.38 °C	620.76 µS/cm	1.48 mg/L	0.86 NTU	128.7 mV	13.81 ft	200.00 ml/min
8/3/2022 1:47 PM	01:10:00	6.71 pH	22.33 °C	632.14 µS/cm	1.36 mg/L	1.52 NTU	129.9 mV	13.81 ft	200.00 ml/min
8/3/2022 1:52 PM	01:15:00	6.73 pH	22.25 °C	640.79 µS/cm	1.25 mg/L	2.46 NTU	131.5 mV	13.81 ft	200.00 ml/min
8/3/2022 1:57 PM	01:20:00	6.73 pH	22.06 °C	648.57 µS/cm	1.18 mg/L	1.84 NTU	132.0 mV	13.81 ft	200.00 ml/min

## Samples

Sample ID:	Description:
HGWC-10	Grab.



# Low-Flow Test Report:

Test Date / Time: 8/3/2022 9:08:43 AM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

<b>Location Name: HGWC-11</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 15.78 ft</b> <b>Total Depth: 25.97 ft</b> <b>Initial Depth to Water: 15.79 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 20.78 ft</b> <b>Estimated Total Volume Pumped: 8 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.07 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883546</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Partly 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	
8/3/2022 9:08 AM	00:00	5.94 pH	22.41 °C	672.85 µS/cm	2.18 mg/L	2.13 NTU	108.1 mV	15.86 ft	200.00 ml/min
8/3/2022 9:13 AM	05:00	6.00 pH	21.93 °C	687.43 µS/cm	1.95 mg/L	1.82 NTU	102.1 mV	15.86 ft	200.00 ml/min
8/3/2022 9:18 AM	10:00	6.06 pH	21.98 °C	705.76 µS/cm	1.69 mg/L	1.31 NTU	98.1 mV	15.87 ft	200.00 ml/min
8/3/2022 9:23 AM	15:00	6.13 pH	22.06 °C	726.72 µS/cm	1.38 mg/L	1.09 NTU	122.4 mV	15.86 ft	200.00 ml/min
8/3/2022 9:28 AM	20:00	6.17 pH	22.05 °C	736.20 µS/cm	1.26 mg/L	0.93 NTU	124.0 mV	15.86 ft	200.00 ml/min
8/3/2022 9:33 AM	25:00	6.15 pH	22.13 °C	737.67 µS/cm	1.16 mg/L	0.92 NTU	96.8 mV	15.86 ft	200.00 ml/min
8/3/2022 9:38 AM	30:00	6.24 pH	21.89 °C	747.19 µS/cm	1.07 mg/L	0.75 NTU	95.9 mV	15.86 ft	200.00 ml/min
8/3/2022 9:43 AM	35:00	6.23 pH	22.29 °C	745.21 µS/cm	1.01 mg/L	0.78 NTU	120.3 mV	15.86 ft	200.00 ml/min

## Samples

Sample ID:	Description:
HGWC-11	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/3/2022 10:59:12 AM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

<b>Location Name: HGWC-12</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 25.42 ft</b> <b>Total Depth: 34.95 ft</b> <b>Initial Depth to Water: 15.78 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 30.42 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: -0.02 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 883546</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Cloudy, 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	
8/3/2022 10:59 AM	00:00	7.14 pH	21.64 °C	947.35 µS/cm	0.88 mg/L	3.54 NTU	24.3 mV	15.77 ft	200.00 ml/min
8/3/2022 11:04 AM	05:00	7.14 pH	21.35 °C	952.38 µS/cm	0.28 mg/L	3.30 NTU	51.2 mV	15.77 ft	200.00 ml/min
8/3/2022 11:09 AM	10:00	7.13 pH	21.53 °C	954.48 µS/cm	0.19 mg/L	2.40 NTU	56.7 mV	15.77 ft	200.00 ml/min
8/3/2022 11:14 AM	15:00	7.13 pH	21.49 °C	956.15 µS/cm	0.16 mg/L	1.74 NTU	65.5 mV	15.76 ft	200.00 ml/min
8/3/2022 11:19 AM	20:00	7.13 pH	21.74 °C	954.69 µS/cm	0.15 mg/L	1.35 NTU	68.0 mV	15.76 ft	200.00 ml/min
8/3/2022 11:24 AM	25:00	7.13 pH	21.62 °C	954.17 µS/cm	0.15 mg/L	1.26 NTU	62.8 mV	15.76 ft	200.00 ml/min
8/3/2022 11:29 AM	30:00	7.13 pH	21.95 °C	956.88 µS/cm	0.15 mg/L	1.30 NTU	71.4 mV	15.76 ft	200.00 ml/min

## Samples

Sample ID:	Description:
HGWC-12	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/3/2022 10:51:41 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

<b>Location Name: HGWC-13</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 35.15 ft</b> <b>Total Depth: 46.76 ft</b> <b>Initial Depth to Water: 24.74 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 40.15 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.06 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884186</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Partly cloudy, 81 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	
8/3/2022 10:51 AM	00:00	6.85 pH	22.47 °C	1,186.5 µS/cm	0.32 mg/L	9.28 NTU	-50.4 mV	24.80 ft	200.00 ml/min
8/3/2022 10:56 AM	05:00	6.93 pH	22.02 °C	1,183.3 µS/cm	0.21 mg/L	5.74 NTU	-59.2 mV	24.80 ft	200.00 ml/min
8/3/2022 11:01 AM	10:00	6.99 pH	21.93 °C	1,178.8 µS/cm	0.18 mg/L	3.80 NTU	-87.2 mV	24.80 ft	200.00 ml/min
8/3/2022 11:06 AM	15:00	7.02 pH	22.03 °C	1,177.0 µS/cm	0.16 mg/L	3.96 NTU	-66.3 mV	24.80 ft	200.00 ml/min
8/3/2022 11:11 AM	20:00	7.05 pH	21.95 °C	1,174.8 µS/cm	0.14 mg/L	3.70 NTU	-91.6 mV	24.80 ft	200.00 ml/min
8/3/2022 11:16 AM	25:00	7.07 pH	21.86 °C	1,173.6 µS/cm	0.13 mg/L	2.68 NTU	-69.1 mV	24.80 ft	200.00 ml/min
8/3/2022 11:21 AM	30:00	7.09 pH	21.85 °C	1,171.3 µS/cm	0.12 mg/L	2.35 NTU	-92.8 mV	24.80 ft	200.00 ml/min

## Samples

Sample ID:	Description:
HGWC-13	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/3/2022 8:18:26 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: MW-5</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 20.84 ft</b> <b>Total Depth: 31.02 ft</b> <b>Initial Depth to Water: 16.86 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 25.84 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.22 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Sunny, 75 degree 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	
8/3/2022 8:18 AM	00:00	5.70 pH	20.06 °C	439.86 µS/cm	1.89 mg/L	0.79 NTU	126.5 mV	17.03 ft	200.00 ml/min
8/3/2022 8:23 AM	05:00	5.53 pH	19.50 °C	442.66 µS/cm	0.98 mg/L	0.71 NTU	114.6 mV	17.07 ft	200.00 ml/min
8/3/2022 8:28 AM	10:00	5.53 pH	19.39 °C	446.78 µS/cm	0.93 mg/L	0.37 NTU	112.7 mV	17.08 ft	200.00 ml/min
8/3/2022 8:33 AM	15:00	5.80 pH	19.44 °C	506.88 µS/cm	0.64 mg/L	0.21 NTU	106.7 mV	17.08 ft	200.00 ml/min
8/3/2022 8:38 AM	20:00	5.88 pH	19.50 °C	530.23 µS/cm	0.54 mg/L	0.12 NTU	112.7 mV	17.08 ft	200.00 ml/min
8/3/2022 8:43 AM	25:00	5.93 pH	19.55 °C	544.66 µS/cm	0.52 mg/L	0.38 NTU	112.0 mV	17.08 ft	200.00 ml/min
8/3/2022 8:48 AM	30:00	5.96 pH	19.55 °C	555.38 µS/cm	0.48 mg/L	0.04 NTU	111.5 mV	17.08 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-5	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/3/2022 1:48:54 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: MW-6</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 22.96 ft</b> <b>Total Depth: 32.88 ft</b> <b>Initial Depth to Water: 16.86 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 27.96 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.02 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Sunny, 90 degree 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	
8/3/2022 1:48 PM	00:00	6.47 pH	23.84 °C	962.84 µS/cm	0.78 mg/L	74.00 NTU	4.1 mV	16.90 ft	200.00 ml/min
8/3/2022 1:53 PM	05:00	6.38 pH	22.65 °C	957.26 µS/cm	0.37 mg/L	31.50 NTU	26.6 mV	16.90 ft	200.00 ml/min
8/3/2022 1:58 PM	10:00	6.31 pH	22.44 °C	954.19 µS/cm	0.28 mg/L	16.50 NTU	20.4 mV	16.88 ft	200.00 ml/min
8/3/2022 2:03 PM	15:00	6.29 pH	22.35 °C	953.09 µS/cm	0.22 mg/L	7.93 NTU	25.1 mV	16.88 ft	200.00 ml/min
8/3/2022 2:08 PM	20:00	6.32 pH	22.18 °C	951.03 µS/cm	0.17 mg/L	5.99 NTU	41.5 mV	16.88 ft	200.00 ml/min
8/3/2022 2:13 PM	25:00	6.35 pH	22.45 °C	951.46 µS/cm	0.15 mg/L	5.65 NTU	42.4 mV	16.88 ft	200.00 ml/min
8/3/2022 2:18 PM	30:00	6.41 pH	22.39 °C	947.74 µS/cm	0.13 mg/L	2.81 NTU	44.4 mV	16.88 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-6	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/4/2022 8:29:58 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: MW-7</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 16.89 ft</b> <b>Total Depth = 26.58 ft</b> <b>Initial Depth to Water: 13.34 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 21.89 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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	
8/4/2022 8:29 AM	00:00	6.51 pH	21.27 °C	375.76 µS/cm	3.09 mg/L	0.81 NTU	137.9 mV	13.34 ft	200.00 ml/min
8/4/2022 8:34 AM	05:00	6.41 pH	19.46 °C	367.26 µS/cm	1.56 mg/L	0.42 NTU	119.7 mV	13.34 ft	200.00 ml/min
8/4/2022 8:39 AM	10:00	6.40 pH	19.33 °C	373.60 µS/cm	1.40 mg/L	0.35 NTU	131.3 mV	13.34 ft	200.00 ml/min
8/4/2022 8:44 AM	15:00	6.41 pH	19.36 °C	382.59 µS/cm	1.27 mg/L	0.42 NTU	129.1 mV	13.34 ft	200.00 ml/min
8/4/2022 8:49 AM	20:00	6.43 pH	19.28 °C	388.51 µS/cm	1.22 mg/L	0.30 NTU	127.1 mV	13.34 ft	200.00 ml/min
8/4/2022 8:54 AM	25:00	6.46 pH	19.33 °C	394.35 µS/cm	1.13 mg/L	0.07 NTU	124.6 mV	13.34 ft	200.00 ml/min
8/4/2022 8:59 AM	30:00	6.47 pH	19.27 °C	402.16 µS/cm	1.09 mg/L	0.12 NTU	110.9 mV	13.34 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-7	Grab.
Dup-1	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/4/2022 1:52:30 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

<b>Location Name: MW-19</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 19.53 ft</b> <b>Total Depth = 29.46 ft</b> <b>Initial Depth to Water: 13.62 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 24.53 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884186</b>
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## Test Notes:

Seven bottles: Full app.III and IV and Major Ions.

## Weather Conditions:

Sunny, 93 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	
8/4/2022 1:52 PM	00:00	6.38 pH	25.42 °C	953.10 µS/cm	1.08 mg/L	2.66 NTU	69.3 mV	13.62 ft	200.00 ml/min
8/4/2022 1:57 PM	05:00	6.33 pH	23.61 °C	952.25 µS/cm	0.67 mg/L	2.55 NTU	100.0 mV	13.62 ft	200.00 ml/min
8/4/2022 2:02 PM	10:00	6.33 pH	23.42 °C	952.69 µS/cm	0.78 mg/L	1.76 NTU	101.5 mV	13.62 ft	200.00 ml/min
8/4/2022 2:07 PM	15:00	6.31 pH	23.61 °C	952.63 µS/cm	0.57 mg/L	1.80 NTU	136.7 mV	13.62 ft	200.00 ml/min
8/4/2022 2:12 PM	20:00	6.31 pH	23.43 °C	950.14 µS/cm	0.55 mg/L	1.85 NTU	137.8 mV	13.62 ft	200.00 ml/min
8/4/2022 2:17 PM	25:00	6.32 pH	23.39 °C	957.64 µS/cm	0.47 mg/L	2.25 NTU	101.7 mV	13.62 ft	200.00 ml/min
8/4/2022 2:22 PM	30:00	6.32 pH	23.17 °C	953.88 µS/cm	0.48 mg/L	1.96 NTU	100.3 mV	13.62 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-19	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/4/2022 11:05:54 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

<b>Location Name: MW-20</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 24.37 ft</b> <b>Total Depth: 34.40 ft</b> <b>Initial Depth to Water: 14.29 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 29.37 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.31 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884186</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Sunny, 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	
8/4/2022 11:05 AM	00:00	6.70 pH	21.82 °C	598.06 µS/cm	1.59 mg/L	7.89 NTU	-24.8 mV	14.55 ft	200.00 ml/min
8/4/2022 11:10 AM	05:00	6.78 pH	20.56 °C	640.75 µS/cm	0.71 mg/L	4.69 NTU	-32.1 mV	14.60 ft	200.00 ml/min
8/4/2022 11:15 AM	10:00	6.85 pH	20.38 °C	661.25 µS/cm	0.47 mg/L	2.69 NTU	-40.2 mV	14.60 ft	200.00 ml/min
8/4/2022 11:20 AM	15:00	6.89 pH	20.21 °C	670.41 µS/cm	0.32 mg/L	1.93 NTU	-71.9 mV	14.60 ft	200.00 ml/min
8/4/2022 11:25 AM	20:00	6.92 pH	20.22 °C	674.76 µS/cm	0.19 mg/L	1.47 NTU	-45.0 mV	14.60 ft	200.00 ml/min
8/4/2022 11:30 AM	25:00	6.94 pH	20.26 °C	677.52 µS/cm	0.13 mg/L	1.54 NTU	-74.1 mV	14.60 ft	200.00 ml/min
8/4/2022 11:35 AM	30:00	6.96 pH	20.14 °C	680.70 µS/cm	0.11 mg/L	1.16 NTU	-74.2 mV	14.60 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-7	Grab.



# Low-Flow Test Report:

Test Date / Time: 8/3/2022 12:16:25 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

<b>Location Name: MW-24D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 62.77 ft</b> <b>Total Depth: 73.46 ft</b> <b>Initial Depth to Water: 28.68 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 67.77 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.05 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884186</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Sunny, 88 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	
8/3/2022 12:16 PM	00:00	7.55 pH	21.79 °C	594.85 µS/cm	0.67 mg/L	2.40 NTU	-12.4 mV	28.75 ft	200.00 ml/min
8/3/2022 12:21 PM	05:00	7.57 pH	22.00 °C	616.51 µS/cm	0.32 mg/L	2.87 NTU	5.4 mV	28.73 ft	200.00 ml/min
8/3/2022 12:26 PM	10:00	7.58 pH	22.02 °C	607.62 µS/cm	0.21 mg/L	2.62 NTU	-9.5 mV	28.73 ft	200.00 ml/min
8/3/2022 12:31 PM	15:00	7.58 pH	21.91 °C	606.64 µS/cm	0.19 mg/L	2.39 NTU	-4.9 mV	28.73 ft	200.00 ml/min
8/3/2022 12:36 PM	20:00	7.59 pH	21.91 °C	607.12 µS/cm	0.17 mg/L	2.17 NTU	15.5 mV	28.73 ft	200.00 ml/min
8/3/2022 12:41 PM	25:00	7.59 pH	21.89 °C	606.78 µS/cm	0.17 mg/L	2.05 NTU	0.9 mV	28.73 ft	200.00 ml/min
8/3/2022 12:46 PM	30:00	7.59 pH	21.91 °C	606.00 µS/cm	0.16 mg/L	2.38 NTU	2.3 mV	28.73 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-24D	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/4/2022 8:41:34 AM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

<b>Location Name: MW-25D</b> Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.21 ft Total Depth: 63.15 ft Initial Depth to Water: 15.64 ft	<b>Pump Type: Bladder</b> Tubing Type: Poly Pump Intake From TOC: 58.21 ft Estimated Total Volume Pumped: 7.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 140 ml/min Final Draw Down: 4.4 ft	<b>Instrument Used: Aqua TROLL 400</b> Serial Number: 883546
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Partly 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	
8/4/2022 8:41 AM	00:00	7.51 pH	20.86 °C	609.38 µS/cm	0.08 mg/L	1.04 NTU	-46.6 mV	17.34 ft	200.00 ml/min
8/4/2022 8:46 AM	05:00	7.58 pH	20.30 °C	610.30 µS/cm	0.04 mg/L	1.09 NTU	-53.7 mV	18.06 ft	200.00 ml/min
8/4/2022 8:51 AM	10:00	7.61 pH	20.16 °C	608.22 µS/cm	0.04 mg/L	0.78 NTU	-105.4 mV	18.81 ft	200.00 ml/min
8/4/2022 8:56 AM	15:00	7.62 pH	20.17 °C	607.43 µS/cm	0.06 mg/L	0.61 NTU	-111.2 mV	19.20 ft	200.00 ml/min
8/4/2022 9:01 AM	20:00	7.63 pH	20.25 °C	605.13 µS/cm	0.09 mg/L	0.54 NTU	-114.1 mV	19.51 ft	160.00 ml/min
8/4/2022 9:06 AM	24:40	7.64 pH	20.26 °C	602.41 µS/cm	0.11 mg/L	0.55 NTU	-65.9 mV	19.89 ft	160.00 ml/min
8/4/2022 9:11 AM	29:40	7.65 pH	20.32 °C	600.57 µS/cm	0.12 mg/L	0.52 NTU	-115.3 mV	20.04 ft	160.00 ml/min
8/4/2022 9:16 AM	34:40	7.65 pH	20.63 °C	597.47 µS/cm	0.14 mg/L	0.54 NTU	-67.0 mV	20.04 ft	140.00 ml/min
8/4/2022 9:21 AM	39:40	7.66 pH	20.68 °C	593.92 µS/cm	0.15 mg/L	0.54 NTU	-117.4 mV	20.04 ft	140.00 ml/min

## Samples

Sample ID:	Description:
MW-25D	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/4/2022 1:17:07 PM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

<b>Location Name: MW-26D</b> Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 68.11 ft Total Depth: 77.91 ft Initial Depth to Water: 14.48 ft	<b>Pump Type: Bladder</b> Tubing Type: Poly Pump Intake From TOC: 73.11 ft Estimated Total Volume Pumped: 7.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.07 ft	<b>Instrument Used: Aqua TROLL 400</b> Serial Number: 883546
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Sunny, 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	
8/4/2022 1:17 PM	00:00	7.18 pH	21.44 °C	1,052.2 µS/cm	0.63 mg/L	5.03 NTU	-35.7 mV	14.55 ft	200.00 ml/min
8/4/2022 1:20 PM	03:06	7.14 pH	21.08 °C	1,055.9 µS/cm	0.36 mg/L	3.65 NTU	-17.6 mV	14.54 ft	200.00 ml/min
8/4/2022 1:25 PM	08:06	7.11 pH	20.93 °C	1,055.9 µS/cm	0.25 mg/L	2.60 NTU	5.9 mV	14.54 ft	200.00 ml/min
8/4/2022 1:30 PM	13:06	7.09 pH	20.89 °C	1,055.0 µS/cm	0.17 mg/L	1.76 NTU	11.2 mV	14.54 ft	200.00 ml/min
8/4/2022 1:35 PM	18:06	7.08 pH	20.91 °C	1,057.7 µS/cm	0.19 mg/L	2.00 NTU	13.5 mV	14.54 ft	200.00 ml/min
8/4/2022 1:40 PM	23:06	7.08 pH	20.59 °C	1,055.7 µS/cm	0.19 mg/L	1.46 NTU	14.7 mV	14.54 ft	200.00 ml/min
8/4/2022 1:45 PM	28:06	7.08 pH	20.72 °C	1,057.5 µS/cm	0.20 mg/L	1.38 NTU	1.3 mV	14.54 ft	200.00 ml/min
8/4/2022 1:50 PM	33:06	7.08 pH	20.77 °C	1,057.3 µS/cm	0.20 mg/L	1.32 NTU	1.8 mV	14.55 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-26D	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/3/2022 9:40:02 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: MW-27D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 53.19 ft</b> <b>Total Depth: 63.94 ft</b> <b>Initial Depth to Water: 7.43 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 58.19 ft</b> <b>Estimated Total Volume Pumped: 34.25 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 38.16 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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	
8/3/2022 9:40 AM	00:00	7.44 pH	20.57 °C	462.63 µS/cm	0.28 mg/L	2.98 NTU	-61.1 mV	9.79 ft	250.00 ml/min
8/3/2022 9:45 AM	05:00	7.46 pH	20.30 °C	466.41 µS/cm	0.17 mg/L	13.70 NTU	-88.0 mV	11.40 ft	250.00 ml/min
8/3/2022 9:50 AM	10:00	7.44 pH	20.25 °C	438.02 µS/cm	0.11 mg/L	35.20 NTU	-108.2 mV	13.14 ft	250.00 ml/min
8/3/2022 9:55 AM	15:00	7.42 pH	20.17 °C	421.89 µS/cm	0.10 mg/L	3.87 NTU	-61.6 mV	14.90 ft	250.00 ml/min
8/3/2022 10:00 AM	20:00	7.38 pH	20.12 °C	416.88 µS/cm	0.10 mg/L	3.98 NTU	-47.0 mV	16.71 ft	250.00 ml/min
8/3/2022 10:05 AM	25:00	7.36 pH	20.10 °C	413.10 µS/cm	0.11 mg/L	4.30 NTU	-40.2 mV	18.53 ft	250.00 ml/min
8/3/2022 10:10 AM	30:00	7.34 pH	20.08 °C	412.09 µS/cm	0.12 mg/L	4.36 NTU	-34.7 mV	20.10 ft	250.00 ml/min
8/3/2022 10:15 AM	35:00	7.33 pH	20.04 °C	411.25 µS/cm	0.12 mg/L	4.85 NTU	-57.1 mV	21.63 ft	250.00 ml/min
8/3/2022 10:20 AM	40:00	7.32 pH	19.95 °C	411.10 µS/cm	0.14 mg/L	4.76 NTU	-56.5 mV	23.23 ft	250.00 ml/min
8/3/2022 10:25 AM	45:00	7.31 pH	19.89 °C	411.82 µS/cm	0.13 mg/L	5.07 NTU	-56.2 mV	24.98 ft	250.00 ml/min
8/3/2022 10:30 AM	50:00	7.31 pH	19.86 °C	412.78 µS/cm	0.13 mg/L	5.71 NTU	-31.8 mV	26.35 ft	250.00 ml/min
8/3/2022 10:35 AM	55:00	7.30 pH	19.81 °C	415.40 µS/cm	0.13 mg/L	6.39 NTU	-31.7 mV	27.90 ft	250.00 ml/min
8/3/2022 10:40 AM	01:00:00	7.30 pH	19.79 °C	413.71 µS/cm	0.14 mg/L	6.43 NTU	-57.9 mV	29.60 ft	250.00 ml/min

8/3/2022 10:45 AM	01:05:00	7.31 pH	19.81 °C	414.17 µS/cm	0.13 mg/L	6.66 NTU	-60.4 mV	31.06 ft	250.00 ml/min
8/3/2022 10:50 AM	01:10:00	7.31 pH	19.85 °C	414.19 µS/cm	0.14 mg/L	6.90 NTU	-62.6 mV	32.52 ft	250.00 ml/min
8/3/2022 10:55 AM	01:15:00	7.32 pH	19.88 °C	416.10 µS/cm	0.14 mg/L	6.93 NTU	-37.1 mV	33.93 ft	250.00 ml/min
8/3/2022 11:00 AM	01:20:00	7.33 pH	20.02 °C	415.67 µS/cm	0.14 mg/L	7.01 NTU	-65.6 mV	35.30 ft	250.00 ml/min
8/3/2022 11:05 AM	01:25:00	7.33 pH	20.08 °C	415.13 µS/cm	0.14 mg/L	5.54 NTU	-67.2 mV	36.72 ft	250.00 ml/min
8/3/2022 11:10 AM	01:30:00	7.37 pH	20.80 °C	416.25 µS/cm	0.14 mg/L	5.08 NTU	-43.0 mV	37.55 ft	250.00 ml/min
8/3/2022 11:15 AM	01:35:00	7.35 pH	20.56 °C	417.61 µS/cm	0.15 mg/L	5.97 NTU	-47.0 mV	38.31 ft	250.00 ml/min
8/3/2022 11:20 AM	01:40:00	7.41 pH	20.81 °C	425.08 µS/cm	0.19 mg/L	3.95 NTU	-48.6 mV	39.41 ft	250.00 ml/min
8/3/2022 11:25 AM	01:45:00	7.36 pH	20.15 °C	427.44 µS/cm	0.23 mg/L	3.79 NTU	-47.0 mV	40.59 ft	250.00 ml/min
8/3/2022 11:30 AM	01:50:00	7.34 pH	20.21 °C	424.27 µS/cm	0.26 mg/L	3.25 NTU	-70.0 mV	41.90 ft	250.00 ml/min
8/3/2022 11:35 AM	01:55:00	7.33 pH	20.26 °C	424.87 µS/cm	0.29 mg/L	2.84 NTU	-69.5 mV	43.26 ft	250.00 ml/min
8/3/2022 11:40 AM	02:00:00	7.32 pH	20.15 °C	425.52 µS/cm	0.36 mg/L	2.19 NTU	-42.4 mV	44.75 ft	100.00 ml/min
8/3/2022 11:45 AM	02:05:00	7.34 pH	20.98 °C	429.56 µS/cm	0.46 mg/L	1.72 NTU	-45.8 mV	45.10 ft	100.00 ml/min
8/3/2022 11:50 AM	02:10:00	7.40 pH	22.23 °C	427.48 µS/cm	0.46 mg/L	1.69 NTU	-50.9 mV	45.20 ft	100.00 ml/min
8/3/2022 11:55 AM	02:15:00	7.43 pH	22.58 °C	429.59 µS/cm	0.40 mg/L	1.47 NTU	-63.9 mV	45.29 ft	100.00 ml/min
8/3/2022 12:00 PM	02:20:00	7.43 pH	22.62 °C	430.45 µS/cm	0.37 mg/L	1.52 NTU	-69.0 mV	45.40 ft	100.00 ml/min
8/3/2022 12:05 PM	02:25:00	7.42 pH	22.84 °C	432.93 µS/cm	0.35 mg/L	1.88 NTU	-74.4 mV	45.49 ft	100.00 ml/min
8/3/2022 12:10 PM	02:30:00	7.40 pH	22.76 °C	433.27 µS/cm	0.32 mg/L	1.69 NTU	-101.7 mV	45.59 ft	100.00 ml/min

## Samples

Sample ID:	Description:
MW-27D	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/4/2022 8:28:25 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

<b>Location Name: MW-28D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 48.21 ft</b> <b>Total Depth: 58.24 ft</b> <b>Initial Depth to Water: 6.79 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 53.21 ft</b> <b>Estimated Total Volume Pumped: 17 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.12 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884186</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Sunny, 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	
8/4/2022 8:28 AM	00:00	7.44 pH	21.20 °C	538.19 µS/cm	0.24 mg/L	21.70 NTU	-102.4 mV	6.81 ft	200.00 ml/min
8/4/2022 8:33 AM	05:00	7.46 pH	20.98 °C	538.83 µS/cm	0.12 mg/L	28.00 NTU	-110.4 mV	6.91 ft	200.00 ml/min
8/4/2022 8:38 AM	10:00	7.47 pH	20.93 °C	537.49 µS/cm	0.09 mg/L	27.80 NTU	-131.8 mV	6.91 ft	200.00 ml/min
8/4/2022 8:43 AM	15:00	7.48 pH	20.89 °C	538.35 µS/cm	0.09 mg/L	20.91 NTU	-137.4 mV	6.91 ft	200.00 ml/min
8/4/2022 8:48 AM	20:00	7.47 pH	20.71 °C	544.31 µS/cm	0.10 mg/L	16.70 NTU	-163.0 mV	6.91 ft	200.00 ml/min
8/4/2022 8:53 AM	25:00	7.46 pH	20.70 °C	554.08 µS/cm	0.11 mg/L	12.30 NTU	-157.2 mV	6.91 ft	200.00 ml/min
8/4/2022 8:58 AM	30:00	7.45 pH	20.66 °C	563.44 µS/cm	0.12 mg/L	9.80 NTU	-106.8 mV	6.91 ft	200.00 ml/min
8/4/2022 9:03 AM	35:00	7.43 pH	20.62 °C	573.76 µS/cm	0.12 mg/L	8.93 NTU	-144.4 mV	6.91 ft	200.00 ml/min
8/4/2022 9:08 AM	40:00	7.42 pH	20.70 °C	579.50 µS/cm	0.13 mg/L	9.32 NTU	-142.4 mV	6.91 ft	200.00 ml/min
8/4/2022 9:13 AM	45:00	7.41 pH	20.73 °C	581.93 µS/cm	0.13 mg/L	8.21 NTU	-97.0 mV	6.91 ft	200.00 ml/min
8/4/2022 9:18 AM	50:00	7.40 pH	20.66 °C	585.62 µS/cm	0.14 mg/L	6.42 NTU	-139.3 mV	6.91 ft	200.00 ml/min
8/4/2022 9:23 AM	55:00	7.40 pH	20.70 °C	590.82 µS/cm	0.14 mg/L	6.37 NTU	-138.2 mV	6.91 ft	200.00 ml/min
8/4/2022 9:28 AM	01:00:00	7.39 pH	20.69 °C	594.40 µS/cm	0.13 mg/L	6.11 NTU	-92.2 mV	6.91 ft	200.00 ml/min

8/4/2022 9:33 AM	01:05:00	7.38 pH	20.77 °C	594.91 µS/cm	0.13 mg/L	5.82 NTU	-136.6 mV	6.91 ft	200.00 ml/min
8/4/2022 9:38 AM	01:10:00	7.39 pH	20.81 °C	595.21 µS/cm	0.13 mg/L	5.32 NTU	-136.8 mV	6.91 ft	200.00 ml/min
8/4/2022 9:43 AM	01:15:00	7.38 pH	21.02 °C	599.59 µS/cm	0.14 mg/L	5.26 NTU	-156.8 mV	6.91 ft	200.00 ml/min
8/4/2022 9:48 AM	01:20:00	7.38 pH	21.26 °C	598.96 µS/cm	0.14 mg/L	4.95 NTU	-111.6 mV	6.91 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-28D	Grab.

# Low-Flow Test Report:

Test Date / Time: 8/3/2022 2:12:12 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

<b>Location Name: MW-29</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 18.25 ft</b> <b>Total Depth: 28.25 ft</b> <b>Initial Depth to Water: 7.44 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 23.25 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.15 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 884186</b>
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## Test Notes:

Seven bottles: Full app. III and IV and Major Ions

## Weather Conditions:

Sunny, 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	
8/3/2022 2:12 PM	00:00	6.89 pH	22.46 °C	828.18 µS/cm	0.35 mg/L	9.25 NTU	15.8 mV	7.59 ft	200.00 ml/min
8/3/2022 2:17 PM	05:00	6.90 pH	22.21 °C	832.99 µS/cm	0.17 mg/L	8.93 NTU	34.6 mV	7.59 ft	200.00 ml/min
8/3/2022 2:22 PM	10:00	6.88 pH	21.77 °C	822.29 µS/cm	0.17 mg/L	5.02 NTU	31.7 mV	7.59 ft	200.00 ml/min
8/3/2022 2:27 PM	15:00	6.89 pH	22.03 °C	821.75 µS/cm	0.19 mg/L	2.72 NTU	32.7 mV	7.59 ft	200.00 ml/min
8/3/2022 2:32 PM	20:00	6.88 pH	21.99 °C	822.26 µS/cm	0.17 mg/L	1.85 NTU	33.2 mV	7.59 ft	200.00 ml/min
8/3/2022 2:37 PM	25:00	6.87 pH	22.04 °C	819.91 µS/cm	0.18 mg/L	1.67 NTU	32.4 mV	7.59 ft	200.00 ml/min
8/3/2022 2:42 PM	30:00	6.87 pH	21.97 °C	817.41 µS/cm	0.13 mg/L	1.46 NTU	31.3 mV	7.59 ft	200.00 ml/min

## Samples

Sample ID:	Description:
MW-29	Grab.



# 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%	Yes No	
pH (4)		3.85	4.00	3.97	4.00	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	<del>21070193 08/2022</del>	<del>3.70</del>	<del>4.00</del>	<del>4.21</del>	<del>4.00</del>	<del>+/- 0.1 SU</del>	<del>Yes No</del>	<del>Lost battery, 2nd Calibration</del>
pH (7)	21010066 08/2022	4.65	7.00	7.04	7.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21010066 08/2022	4.65	7.00	7.22	7.00	+/- 0.1 SU	Yes No	
pH (10)	21080189 06/2022	5.46	10.00	10.21	10.00	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080189 06/2022	5.46	10.00	10.07	10.00	+/- 0.1 SU	Yes No	
ORP (mV)	21140141 08/2022	5.46	228	242.2	228.0	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	97.67	100.0	+/- 6% saturation	Yes No	
Turbidity 0 NTU			0	0.66	0.43	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	1.42	1.0	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	8.13	10.00	+/- 0.5 NTU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAIN

Date: 2/1/22

Time (start): 0809

Time (finish): 0827

smarTroll SN: 850724

Turbidity Meter Type: LaMote 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%	Yes No	
pH (4)			4.00	3.99	4.0	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070193 8/22	14.6 2.16	4.00	4.13	4.0	+/- 0.1 SU	Yes No	
pH (7)	21010064 8/22	2.39	7.00	7.07	7.0	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21010066 8/22	14.96	7.00	7.16	7.0	+/- 0.1 SU	Yes No	
pH (10)	21080189 6/22	2.35	10.00	10.22	10.0	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080189 6/22	14.13	10.00	10.05	10.0	+/- 0.1 SU	Yes No	
ORP (mV)	21140141 8/22	2.21	228	247.2	228	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	101.59	100	+/- 6% saturation	Yes No	
Turbidity 0 NTU			0	0.02	0.02	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	1.04	1.00	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	10.89	10.0	+/- 0.5 NTU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Hessler

Date: 2/11/2022

Time (start): 0730

Time (finish): 0820

smarTroll SN: 778634

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	<del>10.35</del>	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 08/2022	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 08/2022	7.56	10.00	10.09	10.0	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080189 08/2022	7.45	10.00	255.7	224	+/- 0.1 SU	Yes No	
ORP (mV)	21140141 08/2022	—	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: C. CAW Date: 2/8/22 Time (start): 0747 Time (finish): 0813  
 smarTroll SN: 850724 Turbidity Meter Type: LaMote 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"/> No	
pH (4)			4.00	4.03	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (4) check	9/21070193 \1 8/22	—	4.00	4.04	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
pH (7)	21010066 8/22	8.04	7.00	7.06	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (7) check			1/21010066 \1 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"/> No	
Mid-Day pH (10) check			1/21080189 \1 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"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	99.47	100	+/- 6% saturation	<input checked="" type="checkbox"/> No	
Turbidity 0 NTU			0	0.0	0.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 1 NTU			1.00	1.00	1.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 10 NTU			10.00	10.26	10.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: A. Swast Date: 2/9/2022 Time (start): 8:21 Time (finish): 8:37  
 smarTroll SN: 843593 Turbidity Meter Type: LaMotte 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	5.15	4490	4489.7	4490.0	+/- 5 %	Yes No	
pH (4)	08/2022	5.26	4.00	3.87	4.00	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070193 08/2022	16.35	4.00	4.10	—	+/- 0.1 SU	Yes No	Mid-day pH check passed, not calibrated
pH (7)	21010066 08/2022	6.07	7.00	6.95	7.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21010066 08/2022	14.79	7.00	7.09	<del>7.00</del>	+/- 0.1 SU	Yes No	pH check passed, not calibrated
pH (10)	21080189 06/2022	6.78	10.00	10.09	10.00	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080189 06/2022	13.00	10.00	10.09	—	+/- 0.1 SU	Yes No	pH check passed, not calibrated
ORP (mV)	21140141 08/2022	6.78	228	228.3	228.0	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	101.12	100.0	+/- 6 % saturation	Yes No	
Turbidity 0 NTU			0	1.12	0.0	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	0.85	1.0	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	11.52	10.0	+/- 0.5 NTU	Yes No	



**EQUIPMENT CALIBRATION LOG**

Field Technician: C. CRAIN Date: 2/9/22 Time (start): 0820 Time (finish): 0850  
 smarTroll SN: 850724 Turbidity Meter Type: LaMote 2020we SN: 1601  
 Weather Conditions: Sunny 28F 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	8.47	4490	4388	4490	+/- 5 %	Yes No	
pH (4)			4.00	4.0	4.0	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070193 8/22	8.02	4.00	4.02	4.0	+/- 0.1 SU	Yes No	
pH (7)	21010066 8/22	8.02	7.00	7.05	7.0	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21010066 8/22	—	7.00	6.96	7.0	+/- 0.1 SU	Yes No	
pH (10)	21080189 6/22	7.90	10.00	10.11	10.0	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080189 6/22	—	10.00	9.98	10	+/- 0.1 SU	Yes No	
ORP (mV)	21140141 8/22	7.99	228	226.5	228	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	97.63	100	+/- 6 % saturation	Yes No	
Turbidity 0 NTU			0	0	0	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	1.15	1.0	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	9.20	10	+/- 0.5 NTU	Yes No	



EQUIPMENT CALIBRATION LOG

Field Technician: A. Swast Date: 2/10/2022 Time (start): 750 Time (finish): 801  
 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	7.17	4490	4465.3	4490.0	+/- 5 %	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)	08/2022	7.27	4.00	4.04	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check	21070193 08/2022	<del>7.27</del> 7.27	4.00	<del>4.04</del> 4.12	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (7)	21010066 08/2022	8.16	7.00	7.01	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	21010066 08/2022	12.55	7.00	7.10	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (10)	21080189 06/2022	8.88	10.00	10.09	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	21080189 06/2022	11.91	10.00	10.08	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
ORP (mV)	21140141 08/2022	8.90	228	223.6	228.0	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	99.59	100.0	+/- 6 % saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.93	0.0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	0.83	1.0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	11.39	10.0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAIN

Date: 2/16/22

Time (start): 0745

Time (finish): 0806

smarTroll SN: 850724

Turbidity Meter Type: LaMotte 2020we

SN: 1601

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)	21070173 8/22	8.45	4490	4589	4490	+/- 5 %	<input checked="" type="checkbox"/> No	
pH (4)			4.00	3.98	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (4) check	// 21070143 // 8/22	—	4.00	—	—	+/- 0.1 SU	<input checked="" type="checkbox"/> <del>No</del>	NA, only 1 sample taken
pH (7)	21010066 8/22	8.84	7.00	7.03	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (7) check	// 21010066 // 8/22	—	7.00	—	—	+/- 0.1 SU	<input checked="" type="checkbox"/> <del>No</del>	NA, only 1 sample taken
pH (10)	21080189 6/22	9.04	10.00	10.09	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (10) check	// 21080189 // 6/22	—	10.00	—	—	+/- 0.1 SU	<input checked="" type="checkbox"/> <del>No</del>	NA, only 1 sample taken
ORP (mV)	21140141 8/22	8.99	228	225.6	228	+/- 20mV	<input checked="" type="checkbox"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	100.49	100	+/- 6 % saturation	<input checked="" type="checkbox"/> No	
Turbidity 0 NTU			0	0.02	0.02	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 1 NTU			1.00	0.78	1.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 10 NTU			10.00	10.28	10.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	

**EQUIPMENT CALIBRATION LOG**

Field Technician: Thomas Hester Date: 2/10/2022 Time (start): 0825 Time (finish): 758  
 smarTroll SN: 778634 Turbidity Meter Type: LaMotte 2020we SN: 59903915  
 Weather Conditions: Sun, 48° Facility and Unit: Hammord 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	6.9	4490	4666.1	4490	+/- 5 %	Yes No	
pH (4)	08/2022		4.00	4.00	4.00	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070193 08/2022	—	4.00	4.05	—	+/- 0.1 SU	Yes No	
pH (7)	21060066 08/2022	7.98	7.00	7.04	7.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21060066 08/2022	—	7.00	7.01	—	+/- 0.1 SU	Yes No	
pH (10)	21050189 08/2022	8.75	10.00	10.12	10.0	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21050189 08/2022	—	10.00	9.98	—	+/- 0.1 SU	Yes No	
ORP (mV)	21140141 08/2022	8.83	228	226.1	228	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	95.74	100	+/- 6 % saturation	Yes No	
Turbidity 0 NTU			0	0.83	0.00	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	1.11	1.36	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	7.47	9.85	+/- 0.5 NTU	Yes No	

August 2022

EQUIPMENT CALIBRATION LOG

Field Technician Anthony S.

Date 8/11/2022

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 Thomas Kessler

Date 8/12/2022

Time (start): 0715

Time (finish): 0730

smarTroll SN 884185

Turbidity Meter Type LaMotte 2020we

SN 2289-2672

Weather Conditions Cloudy, 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	25	4490	4837	4490	+/- 5%	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)	041123		4.00	4.07	4.0	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check	<del>                    </del>	<del>                    </del>	4.00	4.05	<del>                    </del>	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (7)	21880622 041123	23.91	7.00	7.25	7.0	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	<del>                    </del>	<del>                    </del>	7.00	7.00	<del>                    </del>	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (10)	20080656 41123	24.12	10.00	10.91	10.0	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	<del>                    </del>	<del>24.24</del>	10.00	9.96	<del>                    </del>	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
ORP (mV)	21140143 41123	24.24	228	215	228	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	104.83	100	+/- 6% saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.94	0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	0.96	0.98	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	0.85	10.01	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician A. Stoney S.

Date 8/3/2022

Time (start) 7:15

Time (finish) 7:35

SmartTroll SN: 843593

Turbidity Meter Type LaMotte 2020we

SN 1511-4111

Weather Conditions Sunny, 75-90°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)	<u>21070193 08/22</u>	<u>26.60</u>	4490	<u>4533.3</u>	<u>4490</u>	+/- 5 %	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)	<u>21070193 08/22</u>	<u>26.83</u>	4.00	<u>4.16</u>	<u>4.00</u>	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check			<del>4.00</del>			<del>+/- 0.1 SU</del>	<del><input checked="" type="radio"/> Yes <input type="radio"/> No</del>	
pH (7)	<u>21380102 04/23</u>	<u>27.45</u>	7.00	<u>7.21</u>	<u>7.00</u>	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check			<del>7.00</del>			<del>+/- 0.1 SU</del>	<del><input checked="" type="radio"/> Yes <input type="radio"/> No</del>	
pH (10)	<u>20080056 04/23</u>	<u>27.80</u>	10.00	<u>10.24</u>	<u>10.00</u>	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check			<del>10.00</del>			<del>+/- 0.1 SU</del>	<del><input checked="" type="radio"/> Yes <input type="radio"/> No</del>	
ORP (mV)	<u>21140143 04/23</u>	<u>27.80</u>	228	<u>216.0</u>	<u>228.0</u>	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	<u>95.32</u>	<u>100.0</u>	+/- 6 % saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	<u>0.00</u>	<u>—</u>	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	<u>1.24</u>	<u>—</u>	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	<u>10.82</u>	<u>10.0</u>	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	





EQUIPMENT CALIBRATION LOG

Field Technician Thomas Kessler

Date 8/31/2022

Time (start) 0715

Time (finish) 0732

SmartTroll SN 884186

Turbidity Meter Type LaMotte 2020we

SN: 2289-2672

Weather Conditions: Cloudy, 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)	<del>2146032</del>	25.19	4490	4529.7	4490	+/- 5 %	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)	04123		4.00	4.06	4.0	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check	<del>21380102</del>	<del>25.19</del>	4.00	3.99	<del>4.00</del>	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (7)	04123	26.29	7.00	7.03	7.0	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	<del>21380102</del>	<del>26.29</del>	7.00	7.01	<del>7.00</del>	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (10)	20060644 4/23	26.40	10.00	9.95	10.0	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	21140143 4/23	26.33	10.00	222.3	228	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
ORP (mV)	<del>21380102</del>	<del>26.29</del>	228	10.00	<del>228</del>	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	96.32	100	+/- 6% saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.95	0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	1.08	1.0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	10.28	10.0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: Anthony S.

Date: 8/4/2022

Time (start): 735

Time (finish): 752

smarTroll SN: 843593

Turbidity Meter Type: LaMotte 2020we

SN: 1511-4111

Weather Conditions: Sunny

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	25.40	4490	4563.2	4490	+/- 5%	<input checked="" type="radio"/> Yes No	
pH (4)		26.24	4.00	4.17	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (4) check	21090193 08/2022	33.41	4.00	4.05	—	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (7)	21380102 04/2023	27.11	7.00	7.14	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (7) check	21380102 04/2023	32.31	7.00	6.96	—	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (10)	20080056 04/2023	27.43	10.00	10.06	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (10) check	20080056 04/2023	31.75	10.00	9.94	—	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
ORP (mV)	21140143 04/2023	27.55	228	224.5	228.0	+/- 20mV	<input checked="" type="radio"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	102.57	100.0	+/- 6% saturation	<input checked="" type="radio"/> Yes No	
Turbidity 0 NTU			0	0.07	0.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 1 NTU			1.00	1.17	1.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 10 NTU			10.00	9.64	10.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: Tristan O.

Date: 8/4/22

Time (start): 7:35

Time (finish): 7:50

smarTroll SN: 883546

Turbidity Meter Type: LaMotte 2020we

SN: 1603

Weather Conditions: partly cloudy, high of 91

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)	2470032 04/2023	22.91	4490	4457.3	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	<del>2470032 04/2023</del>		4.00	4.12	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
pH (7)	21380102 04/23	24.48	7.00	7.01	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (7) check			<del>21380102 04/23</del>		7.00	6.98	7.00	+/- 0.1 SU
pH (10)	20080056 04/23	24.85	10.00	9.99	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes No	
Mid-Day pH (10) check			<del>20080056 04/23</del>		10.00	9.94	10.00	+/- 0.1 SU
ORP (mV)	2140143 04/23	25.21	228	232.9	228	+/- 20mV	<input checked="" type="radio"/> Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	10.01	100	+/- 6 % saturation	<input checked="" type="radio"/> Yes No	
Turbidity 0 NTU			0	0.3	0.	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 1 NTU			1.00	1.79	1.04	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	
Turbidity 10 NTU			10.00	7.78	10.02	+/- 0.5 NTU	<input checked="" type="radio"/> Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician Thomas Kessler

Date 8/4/22

Time (start): 0730

Time (finish): 0800

SmartTroll SN 844186

Turbidity Meter Type LaMotte 2020we

SN 22892672

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)	212170032 04/23	24.41	4490	41504.9	4490	+/- 5 %	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)			4.00	4.01	4.0	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check	/	/	4.00	3.99	/	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (7)	21380102 07/23	25.40	7.00	6.97	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check			/	/	7.00	7.02	/	+/- 0.1 SU
pH (10)	20080656 4/23	25.84	10.00	9.94	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check			/	/	10.00	10.05	/	+/- 0.1 SU
ORP (mV)	21140143 1/23	25.98	228	227.6	228	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	101.13	100	+/- 6 % saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.82	0.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	0.73	1.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	10.96	10.00	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	





# APPENDIX C

## Statistical Analysis Reports

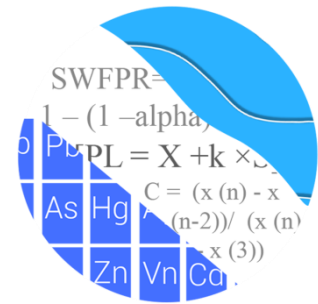
# January/February 2022



## 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 1 (AP-1)  
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-1. 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 background samples have been collected at each of the upgradient and downgradient groundwater monitoring wells. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** HGWA-1, HGWA-2, HGWA-3, HGWA-43D, and HGWA-44D
- **Downgradient wells:** HGWC-7, HGWC-8, HGWC-9, HGWC-10, HGWC-11, HGWC-12, and HGWC-13
- **Delineation wells:** MW-5, MW-6, MW-7, MW-19, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, and MW-29

Sampling at upgradient wells HGWA-43D and HGWA-44D began in September 2020 and a maximum of eight samples have been collected. Additionally, the February 2021

sampling event was a Scan event for all wells during which only Appendix IV constituents were sampled.

Data from delineation wells are included on time series and box plots for all parameters. When a minimum of 4 samples is available, data at these wells are evaluated using confidence intervals for the Appendix IV constituents. For the delineation wells, sampling began in March 2019. Wells MW-30D and MW-40D were included as delineation wells during previous reporting periods, but each was reclassified as a "piezometer" based on the findings presented in the alternate source demonstration included as an appendix of the 2020 Annual Groundwater Monitoring & Corrective Action Report, submitted to Georgia EPD in January 2021. Because of this reclassification, data for wells MW-30D and MW-40D are not presented in this report.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting. The statistical analysis was performed according to the groundwater 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 (2009).

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) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and delineation well/constituent pairs with 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 cases of lithium and thallium, historical reporting limits vary among the wells. Therefore, the reporting limits of 0.03 mg/L and 0.001 mg/L were substituted respectively 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. Values in background which have been flagged as outliers 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 with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

### **Statistical Methods – Appendix III Parameters**

The following Appendix III parameters are evaluated using interwell prediction limits combined with a 1-of-2 resample plan: 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.

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as the original reporting limit.

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. No records were adjusted at this time.

### **Statistical Analysis 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. No new values were flagged as shown in the outlier summary following this report (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 February 2022 (Figure D). Interwell prediction limits pool 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 initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant

increase (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 and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance.

When the February 2022 compliance data from downgradient wells were compared to interwell prediction limits, several exceedances were identified. A summary table of these findings is provided along with the prediction limits (Figure D).

### 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), HGWC-7, and HGWC-9
- Calcium: HGWA-3 (upgradient)
- Chloride: HGWA-44D (upgradient)
- Sulfate: HGWA-2 (upgradient)

#### Decreasing trends:

- Boron: HGWC-13
- Chloride: HGWC-8, HGWC-9 and HGWC-12
- TDS: HGWC-12

### **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 (Maximum Contaminant Limits (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. 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 containing 100% non-detects do not require analyses. Data from all 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

First, interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2022 for Appendix IV constituents (Figure F). As mentioned above, a reporting limit of 0.03 mg/L was substituted across all wells for lithium. Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

### Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

## Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through February 2022 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:

- Arsenic: HGWC-13
- Molybdenum: HGWC-8

## 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. No statistically significant trends were identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Hammond AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Abdul Diane  
Groundwater Analyst



Andrew Collins  
Project Manager



Kristina Rayner  
Senior Statistician



# 100% Non-Detects: Appendix IV Downgradient & Delineation

Analysis Run 4/25/2022 2:46 PM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

---

Antimony (mg/L)

HGWC-12, MW-19, MW-20, MW-25D, MW-5

Arsenic (mg/L)

HGWC-10, MW-24D, MW-7

Beryllium (mg/L)

HGWC-10, HGWC-12, HGWC-9, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-29, MW-5, MW-6

Cadmium (mg/L)

HGWC-13, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, MW-29, MW-5, MW-6, MW-7

Cobalt (mg/L)

MW-25D, MW-5, MW-7

Lead (mg/L)

MW-25D

Lithium (mg/L)

HGWC-10, HGWC-11, MW-5, MW-6, MW-7

Mercury (mg/L)

HGWC-12, HGWC-7, HGWC-8, MW-19, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, MW-29, MW-5, MW-6, MW-7

Molybdenum (mg/L)

MW-20, MW-5

Selenium (mg/L)

HGWC-7, MW-20, MW-24D, MW-25D, MW-26D, MW-28D, MW-29, MW-6

Thallium (mg/L)

HGWC-10, HGWC-7, HGWC-9, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-5, MW-7

# Appendix III Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:54 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-11	0.44	n/a	2/9/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.44	n/a	2/9/2022	2	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	2/10/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-7	0.44	n/a	2/10/2022	1.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.44	n/a	2/10/2022	1.7	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	2/9/2022	2.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	2/9/2022	144	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	2/9/2022	172	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	2/10/2022	206	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	2/10/2022	153	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	2/9/2022	183	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-12	44.8	n/a	2/9/2022	46.8	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	2/10/2022	48.2	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	2/9/2022	84.4	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	88.2	n/a	2/9/2022	276	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	88.2	n/a	2/9/2022	252	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	88.2	n/a	2/10/2022	371	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	88.2	n/a	2/10/2022	97.5	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	88.2	n/a	2/10/2022	224	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	88.2	n/a	2/9/2022	224	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-12	632	n/a	2/9/2022	678	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-13	632	n/a	2/10/2022	814	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-9	632	n/a	2/9/2022	756	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2

# Appendix III Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:54 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-10	0.44	n/a	2/9/2022	0.1	No	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Boron (mg/L)</b>	<b>HGWC-11</b>	<b>0.44</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>1</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>4.286</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Boron (mg/L)	HGWC-12	0.44	n/a	2/9/2022	2	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	2/10/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Boron (mg/L)</b>	<b>HGWC-7</b>	<b>0.44</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>1.3</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>4.286</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Boron (mg/L)	HGWC-8	0.44	n/a	2/10/2022	1.7	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	2/9/2022	2.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-10	138	n/a	2/9/2022	76.8	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	2/9/2022	144	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	2/9/2022	172	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	2/10/2022	206	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-7	138	n/a	2/10/2022	108	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Calcium (mg/L)</b>	<b>HGWC-8</b>	<b>138</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>153</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium (mg/L)	HGWC-9	138	n/a	2/9/2022	183	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-10	44.8	n/a	2/9/2022	1.2	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-11	44.8	n/a	2/9/2022	20.4	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Chloride (mg/L)</b>	<b>HGWC-12</b>	<b>44.8</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>46.8</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Chloride (mg/L)	HGWC-13	44.8	n/a	2/10/2022	17.4	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-7	44.8	n/a	2/10/2022	39.8	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Chloride (mg/L)</b>	<b>HGWC-8</b>	<b>44.8</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>48.2</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride (mg/L)</b>	<b>HGWC-9</b>	<b>44.8</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>84.4</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride (mg/L)	HGWC-10	0.96	n/a	2/9/2022	0.12	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-11	0.96	n/a	2/9/2022	0.2	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-12	0.96	n/a	2/9/2022	0.2	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-13	0.96	n/a	2/10/2022	0.53	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-7	0.96	n/a	2/10/2022	0.083J	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-8	0.96	n/a	2/10/2022	0.42	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-9	0.96	n/a	2/9/2022	0.1	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-10	8.25	4.9	2/9/2022	7	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-11	8.25	4.9	2/9/2022	6.55	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-12	8.25	4.9	2/9/2022	7.23	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-13	8.25	4.9	2/10/2022	7.54	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-7	8.25	4.9	2/10/2022	7.22	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-8	8.25	4.9	2/10/2022	6.99	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-9	8.25	4.9	2/9/2022	7.3	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-10	88.2	n/a	2/9/2022	49.2	No	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Sulfate (mg/L)</b>	<b>HGWC-11</b>	<b>88.2</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>276</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>1.429</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate (mg/L)	HGWC-12	88.2	n/a	2/9/2022	252	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Sulfate (mg/L)</b>	<b>HGWC-13</b>	<b>88.2</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>371</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>1.429</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>HGWC-7</b>	<b>88.2</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>97.5</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>1.429</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>HGWC-8</b>	<b>88.2</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>224</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>1.429</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>HGWC-9</b>	<b>88.2</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>224</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>1.429</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Total Dissolved Solids (mg/L)	HGWC-10	632	n/a	2/9/2022	250	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-11	632	n/a	2/9/2022	544	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Total Dissolved Solids (mg/L)</b>	<b>HGWC-12</b>	<b>632</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>678</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Total Dissolved Solids (mg/L)</b>	<b>HGWC-13</b>	<b>632</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>814</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Total Dissolved Solids (mg/L)	HGWC-7	632	n/a	2/10/2022	414	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-8	632	n/a	2/10/2022	578	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Total Dissolved Solids (mg/L)</b>	<b>HGWC-9</b>	<b>632</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>756</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>

# Appendix III Trend Test Summary - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:58 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>
Boron (mg/L)	HGWA-2 (bg)	0.002699	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-13	-0.2813	-90	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-7	0.05328	110	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.1051	81	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.781	86	74	Yes	19	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)	HGWC-12	-22.37	-111	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-8	-9.715	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-9	-13.5	-103	-68	Yes	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
Total Dissolved Solids (mg/L)	HGWC-12	-84.21	-91	-68	Yes	18	0	n/a	n/a	0.01	NP

# Appendix III Trend Test Summary - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 4/7/2022, 3:58 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	-0.00009951	-10	-74	No	19	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>HGWA-2 (bg)</b>	<b>0.002699</b>	<b>99</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	HGWA-3 (bg)	0.00007969	6	74	No	19	15.79	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)	HGWC-11	-0.1891	-49	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-12	-0.1561	-61	-68	No	18	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>HGWC-13</b>	<b>-0.2813</b>	<b>-90</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>HGWC-7</b>	<b>0.05328</b>	<b>110</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	HGWC-8	0.04833	19	74	No	19	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>HGWC-9</b>	<b>0.1051</b>	<b>81</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	HGWA-1 (bg)	2.687	54	74	No	19	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
<b>Calcium (mg/L)</b>	<b>HGWA-3 (bg)</b>	<b>2.781</b>	<b>86</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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)	HGWC-11	0.2076	3	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-12	-6.225	-52	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-13	14.04	32	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-8	-1.147	-19	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-9	0.7636	34	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.6486	50	74	No	19	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)	-0.1393	-73	-74	No	19	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
<b>Chloride (mg/L)</b>	<b>HGWA-44D (bg)</b>	<b>20.44</b>	<b>21</b>	<b>18</b>	<b>Yes</b>	<b>7</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>HGWC-12</b>	<b>-22.37</b>	<b>-111</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>HGWC-8</b>	<b>-9.715</b>	<b>-86</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>HGWC-9</b>	<b>-13.5</b>	<b>-103</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	HGWA-1 (bg)	1.77	34	74	No	19	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>HGWA-2 (bg)</b>	<b>1.393</b>	<b>83</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	HGWA-3 (bg)	1.106	61	74	No	19	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)	HGWC-11	-7.699	-17	-68	No	18	5.556	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-12	-14.75	-59	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-13	33.22	25	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-7	0	-12	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-8	-5.775	-22	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-9	-4.06	-54	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	1.455	7	74	No	19	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)	1.051	12	74	No	19	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
<b>Total Dissolved Solids (mg/L)</b>	<b>HGWC-12</b>	<b>-84.21</b>	<b>-91</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids (mg/L)	HGWC-13	22.89	23	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-9	-40.5	-45	-68	No	18	0	n/a	n/a	0.01	NP

# Upper Tolerance Limits Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/25/2022, 2:44 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	73	n/a	n/a	78.08	n/a	n/a	0.02365	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	79	n/a	n/a	63.29	n/a	n/a	0.01738	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	n/a	79	n/a	n/a	0	n/a	n/a	0.01738	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	73	n/a	n/a	78.08	n/a	n/a	0.02365	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	73	n/a	n/a	86.3	n/a	n/a	0.02365	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0079	n/a	n/a	n/a	n/a	73	n/a	n/a	80.82	n/a	n/a	0.02365	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	n/a	73	n/a	n/a	72.6	n/a	n/a	0.02365	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.36	n/a	n/a	n/a	n/a	79	n/a	n/a	0	n/a	n/a	0.01738	NP Inter(normality)
Fluoride (mg/L)	n/a	0.96	n/a	n/a	n/a	n/a	84	n/a	n/a	32.14	n/a	n/a	0.01345	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	70	n/a	n/a	64.29	n/a	n/a	0.02758	NP Inter(NDs)
Lithium (mg/L)	n/a	0.048	n/a	n/a	n/a	n/a	79	n/a	n/a	20.25	n/a	n/a	0.01738	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	51	n/a	n/a	96.08	n/a	n/a	0.0731	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	81	n/a	n/a	80.25	n/a	n/a	0.01569	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	79	n/a	n/a	98.73	n/a	n/a	0.01738	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	79	n/a	n/a	98.73	n/a	n/a	0.01738	NP Inter(NDs)

<b>PLANT HAMMOND AP-1 GWPS</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
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		0.0079	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		4.36	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-1 Printed 4/28/2022, 9:17 AM

<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>
<b>Arsenic (mg/L)</b>	<b>HGWC-13</b>	<b>0.4243</b>	<b>0.3567</b>	<b>0.01</b>	<b>Yes</b>	<b>21</b>	<b>0.3905</b>	<b>0.06131</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Molybdenum (mg/L)</b>	<b>HGWC-8</b>	<b>0.4903</b>	<b>0.4416</b>	<b>0.1</b>	<b>Yes</b>	<b>22</b>	<b>0.466</b>	<b>0.04541</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>



# Confidence Intervals - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-10	0.003	0.00065	0.006	No	19	0.002876	0.0005391	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-11	0.003	0.00038	0.006	No	19	0.002862	0.0006011	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-13	0.003	0.00036	0.006	No	19	0.002038	0.001296	63.16	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-7	0.003	0.0017	0.006	No	19	0.002792	0.0006642	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-8	0.003	0.00064	0.006	No	19	0.002876	0.0005414	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-9	0.003	0.00043	0.006	No	19	0.002588	0.000978	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-24D	0.003	0.003	0.006	No	10	0.00287	0.0004111	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-26D	0.003	0.002	0.006	No	10	0.00273	0.0005926	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-27D	0.003	0.0003	0.006	No	10	0.001382	0.001394	40	None	No	0.011	NP (normality)
Antimony (mg/L)	MW-28D	0.003	0.003	0.006	No	10	0.00289	0.0003479	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-29	0.003	0.003	0.006	No	10	0.002794	0.0006514	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-6	0.003	0.003	0.006	No	10	0.00284	0.000506	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-7	0.003	0.00086	0.006	No	10	0.002277	0.001014	60	None	No	0.011	NP (NDs)
Arsenic (mg/L)	HGWC-11	0.005	0.0017	0.01	No	21	0.003417	0.001744	42.86	None	No	0.01	NP (normality)
Arsenic (mg/L)	HGWC-12	0.004566	0.003196	0.01	No	21	0.003881	0.001242	9.524	None	No	0.01	Param.
<b>Arsenic (mg/L)</b>	<b>HGWC-13</b>	<b>0.4243</b>	<b>0.3567</b>	<b>0.01</b>	<b>Yes</b>	<b>21</b>	<b>0.3905</b>	<b>0.06131</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	HGWC-7	0.005	0.0019	0.01	No	21	0.004852	0.0006765	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-8	0.005	0.002	0.01	No	21	0.004857	0.0006547	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-9	0.005	0.0021	0.01	No	21	0.004239	0.001634	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-19	0.005	0.005	0.01	No	10	0.004545	0.001439	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-20	0.005	0.00094	0.01	No	10	0.003862	0.001891	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.001	0.01	No	10	0.003475	0.00199	60	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-26D	0.005	0.0008	0.01	No	10	0.00381	0.001936	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-27D	0.005	0.00069	0.01	No	10	0.003689	0.002119	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-28D	0.005	0.005	0.01	No	10	0.00461	0.001233	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-29	0.005	0.005	0.01	No	10	0.004537	0.001464	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-5	0.005	0.005	0.01	No	10	0.00463	0.00117	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-6	0.005	0.005	0.01	No	10	0.00484	0.000506	90	None	No	0.011	NP (NDs)
Barium (mg/L)	HGWC-10	0.08616	0.06339	2	No	21	0.07478	0.02063	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-11	0.05204	0.03249	2	No	21	0.04349	0.01968	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	HGWC-12	0.1104	0.08821	2	No	21	0.1007	0.02119	0	None	ln(x)	0.01	Param.
Barium (mg/L)	HGWC-13	0.08963	0.06681	2	No	21	0.07822	0.02069	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-7	0.0746	0.06816	2	No	21	0.07138	0.005842	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-8	0.07497	0.06265	2	No	21	0.06881	0.01117	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-9	0.1206	0.1049	2	No	21	0.1127	0.01424	0	None	No	0.01	Param.
Barium (mg/L)	MW-19	0.0645	0.0469	2	No	10	0.0557	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	MW-20	0.09572	0.08428	2	No	10	0.09	0.006412	0	None	No	0.01	Param.
Barium (mg/L)	MW-24D	0.081	0.048	2	No	10	0.0619	0.02291	0	None	No	0.011	NP (normality)
Barium (mg/L)	MW-25D	0.5334	0.4006	2	No	10	0.467	0.07439	0	None	No	0.01	Param.
Barium (mg/L)	MW-26D	0.1303	0.0783	2	No	10	0.1043	0.02914	0	None	No	0.01	Param.
Barium (mg/L)	MW-27D	1.2	0.95	2	No	10	1.079	0.1676	0	None	No	0.011	NP (normality)
Barium (mg/L)	MW-28D	0.7165	0.2695	2	No	10	0.493	0.2505	0	None	No	0.01	Param.
Barium (mg/L)	MW-29	0.08459	0.07481	2	No	10	0.0797	0.005478	0	None	No	0.01	Param.
Barium (mg/L)	MW-5	0.05079	0.04361	2	No	10	0.0472	0.004022	0	None	No	0.01	Param.
Barium (mg/L)	MW-6	0.09214	0.07966	2	No	10	0.0859	0.006999	0	None	No	0.01	Param.
Barium (mg/L)	MW-7	0.06238	0.04882	2	No	10	0.0556	0.007604	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-11	0.0005	0.0001	0.004	No	19	0.0003577	0.0001924	63.16	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-13	0.0005	0.000093	0.004	No	19	0.0003281	0.0002074	57.89	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-7	0.0005	0.00019	0.004	No	19	0.0004394	0.0001454	84.21	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-8	0.0005	0.000078	0.004	No	19	0.0003674	0.0002006	68.42	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-19	0.0005	0.0005	0.004	No	10	0.0004558	0.0001398	90	None	No	0.011	NP (NDs)
Beryllium (mg/L)	MW-28D	0.0005	0.000054	0.004	No	10	0.0003742	0.000204	70	None	No	0.011	NP (NDs)
Beryllium (mg/L)	MW-7	0.0005	0.0005	0.004	No	10	0.0004551	0.000142	90	None	No	0.011	NP (NDs)
Cadmium (mg/L)	HGWC-10	0.0005	0.0001	0.005	No	19	0.0003587	0.0001913	63.16	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-11	0.0005	0.0001	0.005	No	19	0.0004366	0.0001504	84.21	None	No	0.01	NP (NDs)

# Confidence Intervals - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	HGWC-12	0.0005	0.0003	0.005	No	19	0.0004337	0.0001368	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-7	0.0005	0.0002	0.005	No	19	0.0004316	0.0001376	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-8	0.00032	0.00017	0.005	No	19	0.0003068	0.0003506	5.263	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-9	0.0005	0.0002	0.005	No	19	0.0004405	0.0001429	84.21	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-19	0.0004257	0.0001233	0.005	No	10	0.000349	0.000295	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	HGWC-10	0.02	0.0011	0.1	No	19	0.005584	0.003603	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-11	0.005	0.00061	0.1	No	19	0.004522	0.001434	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-12	0.005	0.0025	0.1	No	19	0.004411	0.001444	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-13	0.005	0.00059	0.1	No	19	0.004292	0.00168	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-7	0.071	0.0016	0.1	No	19	0.007486	0.01548	68.42	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-8	0.005	0.0015	0.1	No	19	0.004133	0.001735	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-9	0.005	0.0011	0.1	No	19	0.004331	0.00159	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-19	0.005	0.00059	0.1	No	10	0.003032	0.002131	50	None	No	0.011	NP (normality)
Chromium (mg/L)	MW-20	0.005	0.00068	0.1	No	10	0.00369	0.00211	70	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-24D	0.005	0.0017	0.1	No	10	0.004212	0.001688	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-25D	0.005	0.005	0.1	No	10	0.004561	0.001388	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-26D	0.005	0.001	0.1	No	10	0.003206	0.001969	50	None	No	0.011	NP (normality)
Chromium (mg/L)	MW-27D	0.005	0.00082	0.1	No	10	0.004152	0.001788	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-28D	0.005	0.00081	0.1	No	10	0.002764	0.002001	40	None	No	0.011	NP (normality)
Chromium (mg/L)	MW-29	0.005	0.005	0.1	No	10	0.0046	0.001265	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-5	0.004196	0.002284	0.1	No	10	0.00324	0.001071	0	None	No	0.01	Param.
Chromium (mg/L)	MW-6	0.005	0.00059	0.1	No	10	0.004103	0.001891	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-7	0.005	0.0015	0.1	No	10	0.00238	0.001412	20	None	No	0.011	NP (normality)
Cobalt (mg/L)	HGWC-10	0.005	0.0007	0.038	No	19	0.003663	0.002026	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-11	0.005	0.00098	0.038	No	19	0.002903	0.001776	36.84	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-12	0.0018	0.0012	0.038	No	19	0.001805	0.001159	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-13	0.004075	0.002642	0.038	No	19	0.003358	0.001224	5.263	None	No	0.01	Param.
Cobalt (mg/L)	HGWC-7	0.0026	0.00065	0.038	No	19	0.001551	0.001611	15.79	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-8	0.0023	0.0019	0.038	No	19	0.002188	0.000719	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-9	0.0011	0.00053	0.038	No	19	0.001158	0.001396	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-19	0.04228	0.03012	0.038	No	10	0.0362	0.006812	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-20	0.005	0.005	0.038	No	10	0.00461	0.001233	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-24D	0.005	0.00056	0.038	No	10	0.003691	0.002117	70	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-26D	0.005	0.00044	0.038	No	10	0.002276	0.002346	40	None	No	0.011	NP (normality)
Cobalt (mg/L)	MW-27D	0.005	0.0004	0.038	No	10	0.003594	0.002266	70	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-28D	0.005	0.005	0.038	No	10	0.004593	0.001287	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-29	0.001281	0.0006929	0.038	No	10	0.000987	0.0003296	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-6	0.005	0.00041	0.038	No	10	0.001431	0.001888	20	None	No	0.011	NP (normality)
Combined Radium 226 + 228 (pCi/L)	HGWC-10	1.084	0.5887	5	No	21	0.8361	0.4486	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-11	1.178	0.6584	5	No	21	0.9183	0.4711	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-12	1.065	0.5671	5	No	21	0.8161	0.4513	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-13	1.012	0.5939	5	No	21	0.803	0.379	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-7	0.908	0.413	5	No	21	0.7117	0.5013	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-8	0.9892	0.7076	5	No	21	0.8484	0.2552	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-9	0.923	0.5264	5	No	21	0.7247	0.3595	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-19	1.057	0.419	5	No	10	0.7382	0.3578	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	1.041	0.3055	5	No	10	0.6733	0.4123	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	0.6843	0.1353	5	No	10	0.4167	0.3701	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	1.202	0.7598	5	No	10	0.9811	0.248	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26D	1.069	0.1051	5	No	10	0.5869	0.5399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-27D	1.731	0.7838	5	No	10	1.257	0.5305	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-28D	1.512	0.547	5	No	10	1.029	0.5406	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-29	1.003	0.3103	5	No	10	0.6564	0.3879	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5	1.02	0.4979	5	No	10	0.759	0.2927	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	0.872	0.557	5	No	10	0.8099	0.4811	0	None	No	0.011	NP (normality)

# Confidence Intervals - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	MW-7	1.242	0.4847	5	No	10	0.8635	0.4245	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-10	0.1935	0.07795	4	No	22	0.1766	0.1375	18.18	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-11	0.4339	0.26	4	No	22	0.347	0.1619	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-12	0.3832	0.1863	4	No	22	0.3151	0.2438	4.545	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-13	0.7044	0.5046	4	No	22	0.6045	0.1861	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-7	0.17	0.083	4	No	23	0.1457	0.112	8.696	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-8	0.6281	0.4776	4	No	23	0.5678	0.1729	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-9	0.2464	0.09575	4	No	22	0.1913	0.1573	9.091	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-19	0.3015	0.09303	4	No	10	0.1992	0.1388	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-20	0.1	0.1	4	No	10	0.0972	0.008854	90	None	No	0.011	NP (NDs)
Fluoride (mg/L)	MW-24D	0.09578	0.04138	4	No	10	0.0868	0.03963	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-25D	1.7	1.5	4	No	10	1.64	0.2171	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	MW-26D	0.1115	0.05026	4	No	10	0.0817	0.04186	10	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-27D	0.28	0.24	4	No	10	0.265	0.05662	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	MW-28D	0.2507	0.1533	4	No	10	0.202	0.05453	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-29	0.1	0.07	4	No	10	0.0995	0.03387	70	None	No	0.011	NP (NDs)
Fluoride (mg/L)	MW-5	0.08789	0.05536	4	No	10	0.0773	0.02094	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-6	0.19	0.059	4	No	10	0.1025	0.05484	20	None	No	0.011	NP (normality)
Fluoride (mg/L)	MW-7	0.1	0.1	4	No	10	0.1039	0.02519	80	None	No	0.011	NP (NDs)
Lead (mg/L)	HGWC-10	0.005	0.00005	0.015	No	17	0.004709	0.001201	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-11	0.005	0.00021	0.015	No	17	0.003298	0.002377	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-12	0.005	0.000096	0.015	No	17	0.003573	0.00228	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-13	0.005	0.00014	0.015	No	17	0.003282	0.002398	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-7	0.005	0.00009	0.015	No	17	0.002529	0.002419	47.06	None	No	0.01	NP (normality)
Lead (mg/L)	HGWC-8	0.005	0.0002	0.015	No	17	0.003854	0.002129	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-9	0.005	0.00014	0.015	No	17	0.002724	0.002488	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-19	0.005	0.000038	0.015	No	8	0.002538	0.002632	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-20	0.005	0.000039	0.015	No	8	0.002555	0.002614	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-24D	0.005	0.00004	0.015	No	8	0.001932	0.002541	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	MW-26D	0.005	0.00008	0.015	No	8	0.003772	0.002273	75	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-27D	0.005	0.00013	0.015	No	8	0.00382	0.002186	75	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-28D	0.0007463	0.0001038	0.015	No	8	0.002128	0.002394	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	MW-29	0.005	0.000052	0.015	No	8	0.003156	0.002544	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	MW-5	0.005	0.000047	0.015	No	8	0.004381	0.001751	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	MW-6	0.005	0.000036	0.015	No	8	0.002564	0.002605	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-7	0.005	0.000062	0.015	No	8	0.004383	0.001746	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	HGWC-12	0.01077	0.008283	0.048	No	21	0.009529	0.002258	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-13	0.03752	0.03069	0.048	No	21	0.0341	0.006196	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-7	0.003	0.0021	0.048	No	21	0.003114	0.002766	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-8	0.003	0.0025	0.048	No	21	0.003305	0.002694	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-9	0.0045	0.004	0.048	No	21	0.00471	0.002399	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-19	0.01337	0.008369	0.048	No	10	0.01087	0.002804	0	None	No	0.01	Param.
Lithium (mg/L)	MW-20	0.015	0.00091	0.048	No	10	0.003912	0.005849	20	None	No	0.011	NP (normality)
Lithium (mg/L)	MW-24D	0.002893	0.002587	0.048	No	10	0.00274	0.0001713	0	None	No	0.01	Param.
Lithium (mg/L)	MW-25D	0.05057	0.04583	0.048	No	10	0.0482	0.002658	0	None	No	0.01	Param.
Lithium (mg/L)	MW-26D	0.0041	0.0033	0.048	No	10	0.00629	0.008336	0	None	No	0.011	NP (normality)
Lithium (mg/L)	MW-27D	0.008926	0.006134	0.048	No	10	0.00753	0.001565	0	None	No	0.01	Param.
Lithium (mg/L)	MW-28D	0.01353	0.006626	0.048	No	10	0.01008	0.003872	0	None	No	0.01	Param.
Lithium (mg/L)	MW-29	0.002388	0.002132	0.048	No	10	0.00226	0.000143	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-10	0.0002	0.00005	0.002	No	13	0.0001885	0.0000416	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-11	0.0002	0.00005	0.002	No	13	0.0001885	0.0000416	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-13	0.0002	0.00005	0.002	No	13	0.0001762	0.00005824	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-9	0.0002	0.00004	0.002	No	13	0.0001877	0.00004438	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-10	0.005	0.0014	0.1	No	21	0.00361	0.00183	61.9	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-11	0.02653	0.01633	0.1	No	21	0.02143	0.009245	0	None	No	0.01	Param.

# Confidence Intervals - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	HGWC-12	0.04931	0.04537	0.1	No	21	0.04734	0.003573	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-13	0.03557	0.03036	0.1	No	21	0.03297	0.004724	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-7	0.04304	0.03524	0.1	No	22	0.03914	0.007261	0	None	No	0.01	Param.
<b>Molybdenum (mg/L)</b>	<b>HGWC-8</b>	<b>0.4903</b>	<b>0.4416</b>	<b>0.1</b>	<b>Yes</b>	<b>22</b>	<b>0.466</b>	<b>0.04541</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Molybdenum (mg/L)	HGWC-9	0.034	0.0236	0.1	No	21	0.04941	0.09809	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-19	0.05671	0.02749	0.1	No	10	0.0421	0.01637	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.005	0.0008	0.1	No	10	0.002489	0.002171	40	None	No	0.011	NP (normality)
Molybdenum (mg/L)	MW-25D	0.005	0.0022	0.1	No	10	0.004314	0.001476	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	MW-26D	0.0227	0.009659	0.1	No	11	0.01618	0.007828	9.091	None	No	0.01	Param.
Molybdenum (mg/L)	MW-27D	0.004255	0.001265	0.1	No	10	0.00276	0.001676	10	None	No	0.01	Param.
Molybdenum (mg/L)	MW-28D	0.0217	0.008281	0.1	No	10	0.01499	0.007519	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-29	0.003348	0.002352	0.1	No	10	0.00285	0.0005583	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.002621	0.002219	0.1	No	10	0.00242	0.0002251	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-7	0.005	0.0015	0.1	No	10	0.0032	0.001689	40	None	No	0.011	NP (normality)
Selenium (mg/L)	HGWC-10	0.005	0.0031	0.05	No	21	0.004324	0.001187	71.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-11	0.01453	0.006329	0.05	No	21	0.01043	0.007431	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-12	0.005	0.0011	0.05	No	21	0.004814	0.000851	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-13	0.005	0.0016	0.05	No	21	0.004609	0.001256	90.48	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-8	0.005	0.0024	0.05	No	21	0.004876	0.0005674	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-9	0.005	0.0037	0.05	No	21	0.004938	0.0002837	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-19	0.004996	0.002077	0.05	No	10	0.00396	0.001711	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	MW-27D	0.005	0.005	0.05	No	10	0.004512	0.001543	90	Kaplan-Meier	No	0.011	NP (NDs)
Selenium (mg/L)	MW-5	0.003618	0.002262	0.05	No	10	0.00294	0.0007604	0	None	No	0.01	Param.
Selenium (mg/L)	MW-7	0.005	0.0014	0.05	No	10	0.00306	0.001708	40	None	No	0.011	NP (normality)
Thallium (mg/L)	HGWC-11	0.001	0.00008	0.002	No	21	0.0009124	0.0002767	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-12	0.001	0.0001	0.002	No	21	0.000744	0.0004155	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-13	0.0004561	0.0003223	0.002	No	21	0.0004042	0.0001581	4.762	None	ln(x)	0.01	Param.
Thallium (mg/L)	HGWC-8	0.001	0.00009	0.002	No	21	0.0007375	0.0004253	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-19	0.001	0.00023	0.002	No	10	0.000477	0.000362	30	None	No	0.011	NP (normality)
Thallium (mg/L)	MW-28D	0.001	0.001	0.002	No	10	0.0009092	0.0002871	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	MW-29	0.001	0.001	0.002	No	10	0.0009064	0.000296	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	MW-6	0.001	0.001	0.002	No	10	0.0009082	0.0002903	90	None	No	0.011	NP (NDs)

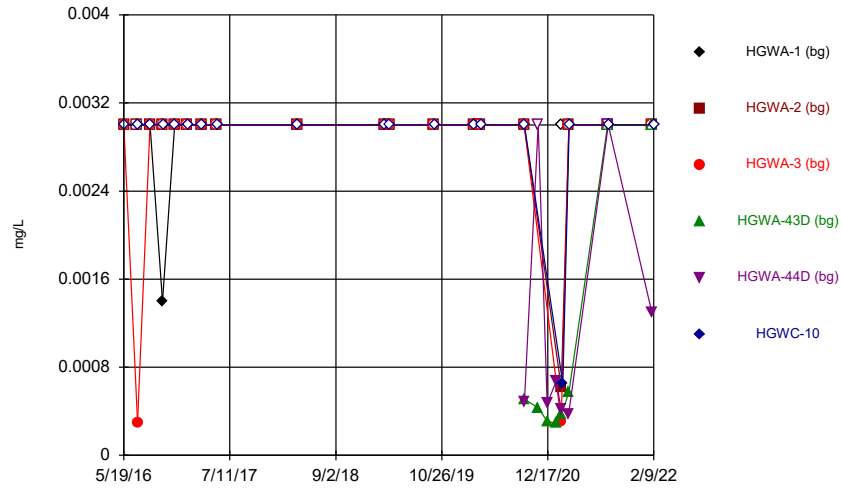
# Appendix IV Trend Tests - All Results (No Significant)

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:20 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	HGWA-1 (bg)	0	-17	-87	No	21	85.71	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-2 (bg)	0	16	87	No	21	57.14	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-3 (bg)	0	4	87	No	21	57.14	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-43D (bg)	-0.001127	-7	-21	No	8	25	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-44D (bg)	0	-7	-21	No	8	75	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWC-13	0.0144	58	87	No	21	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-1 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-2 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-3 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-43D (bg)	-0.0008179	-9	-21	No	8	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-44D (bg)	0.002925	19	21	No	8	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWC-8	-0.00841	-55	-92	No	22	0	n/a	n/a	0.01	NP

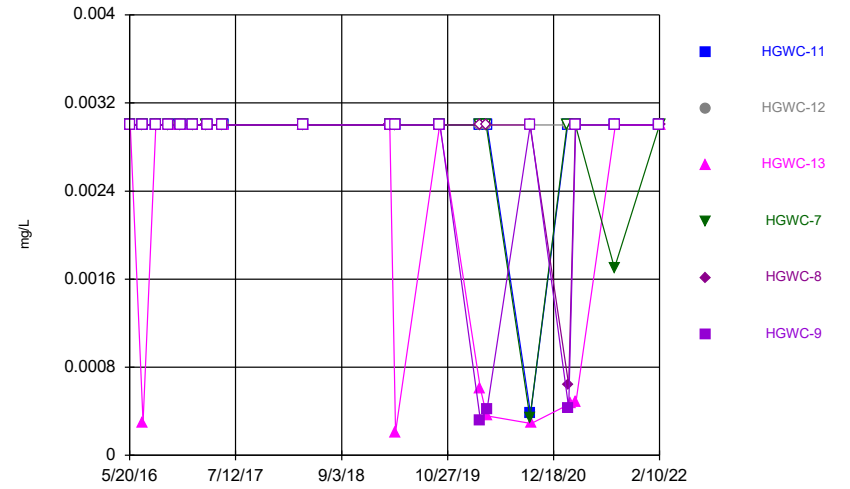
FIGURE A.

Time Series



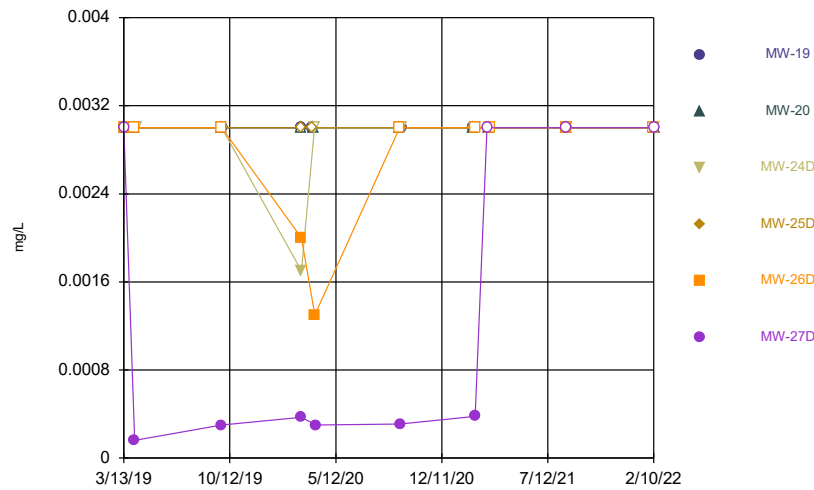
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



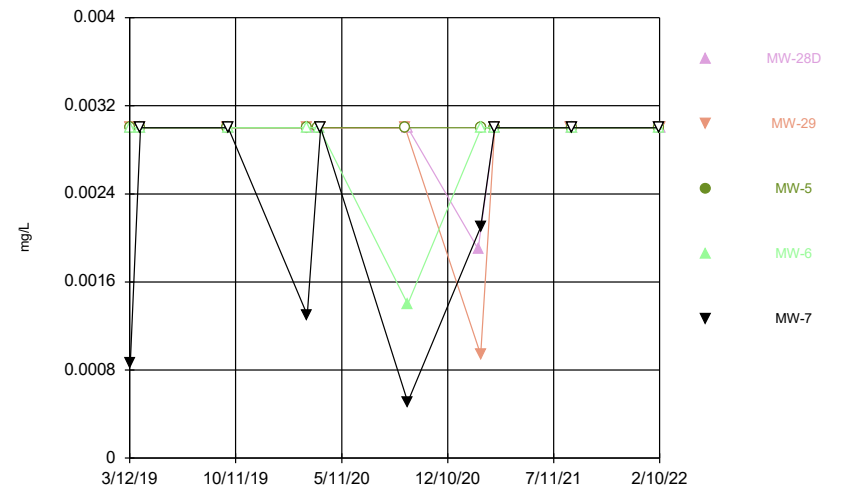
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Time Series



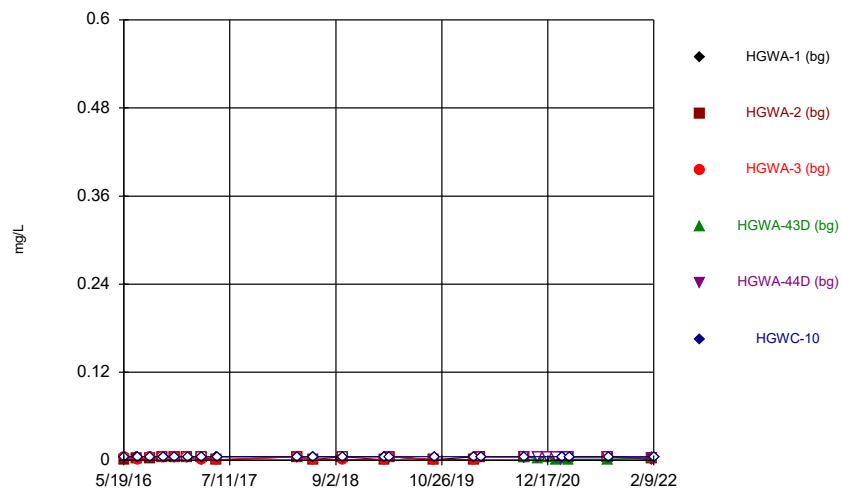
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Time Series



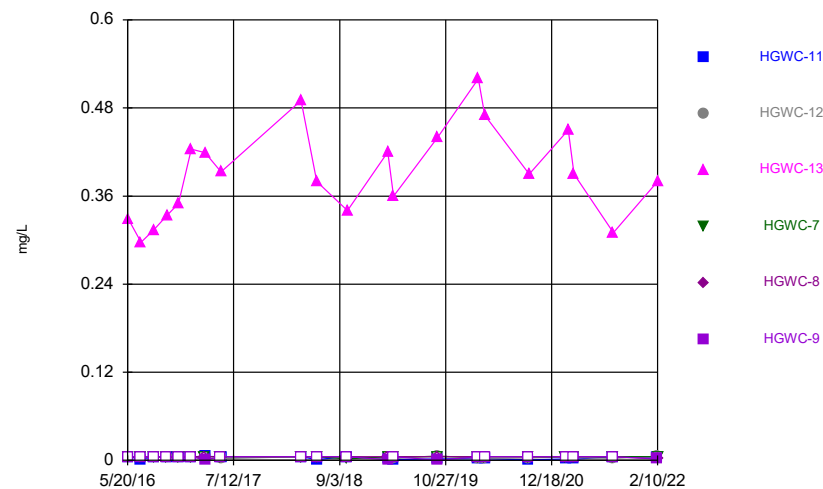
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



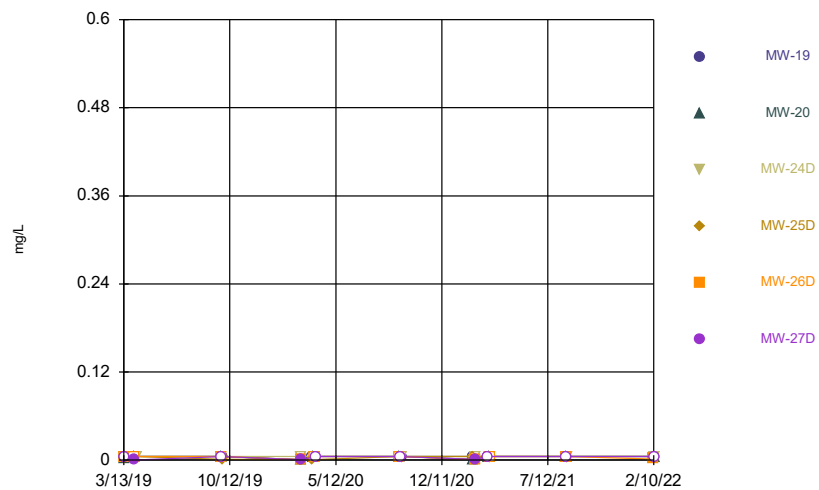
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



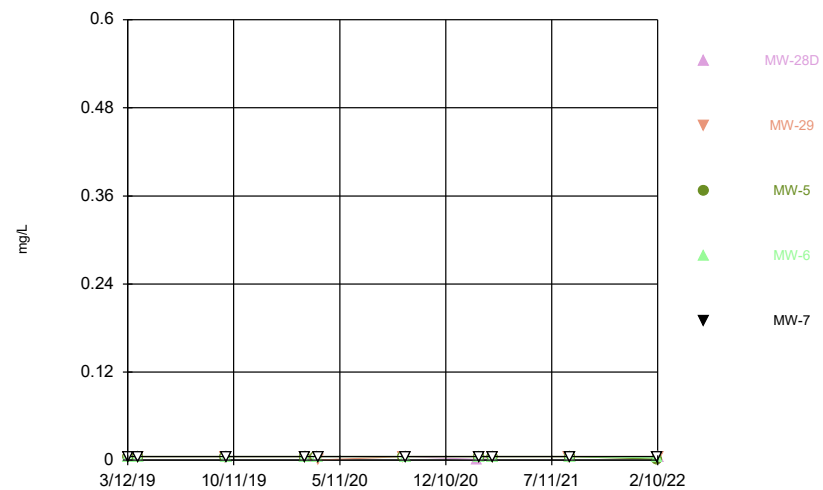
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



Constituent: Arsenic Analysis Run 4/25/2022 2:33 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

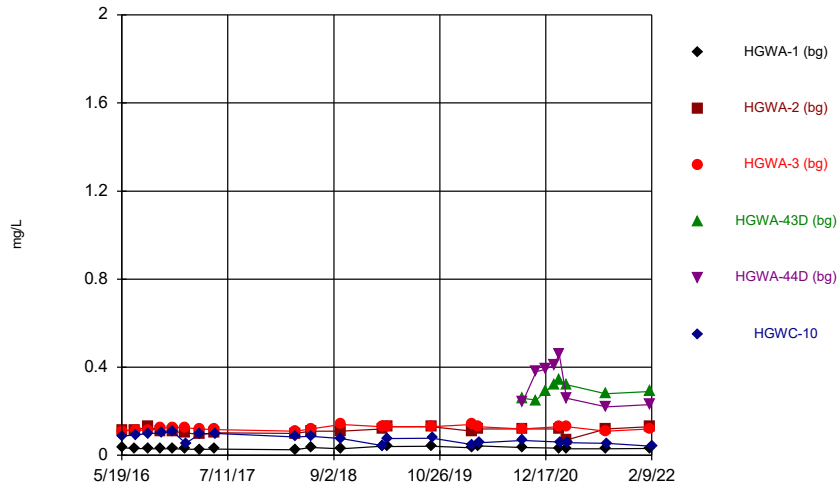
### Time Series



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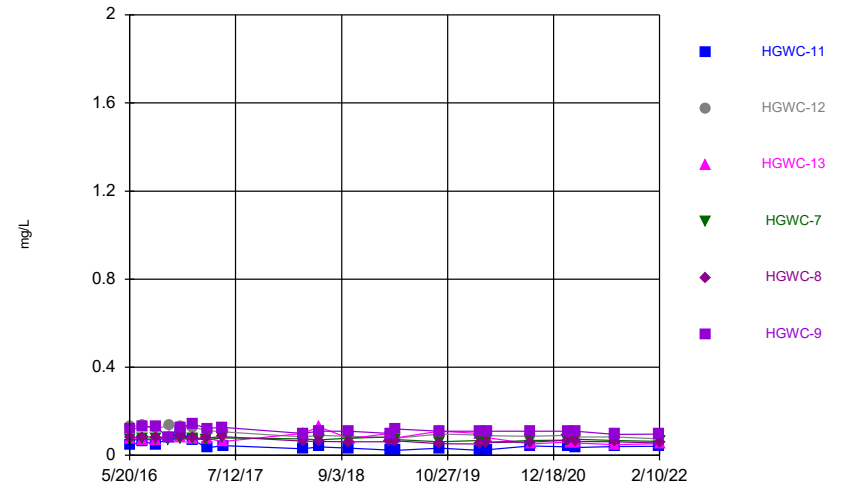


Time Series



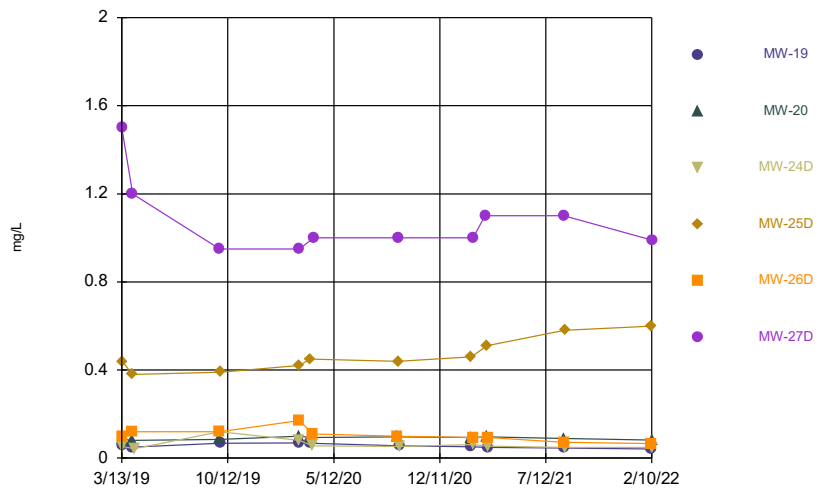
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



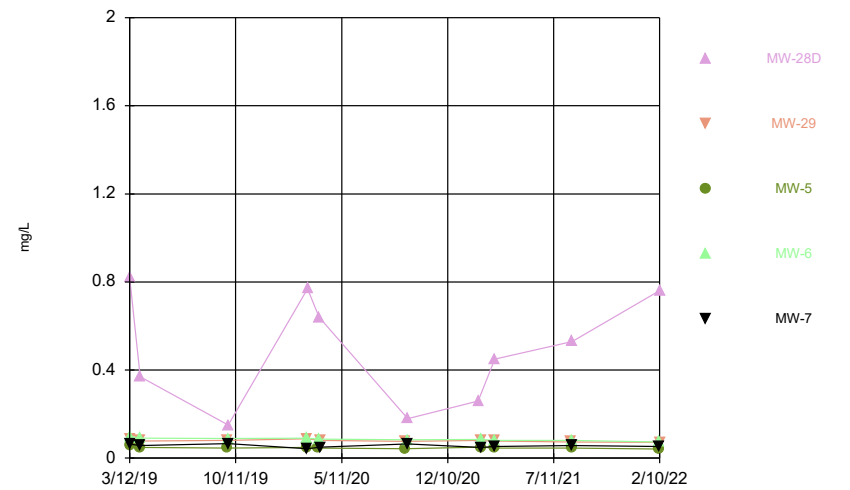
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Time Series



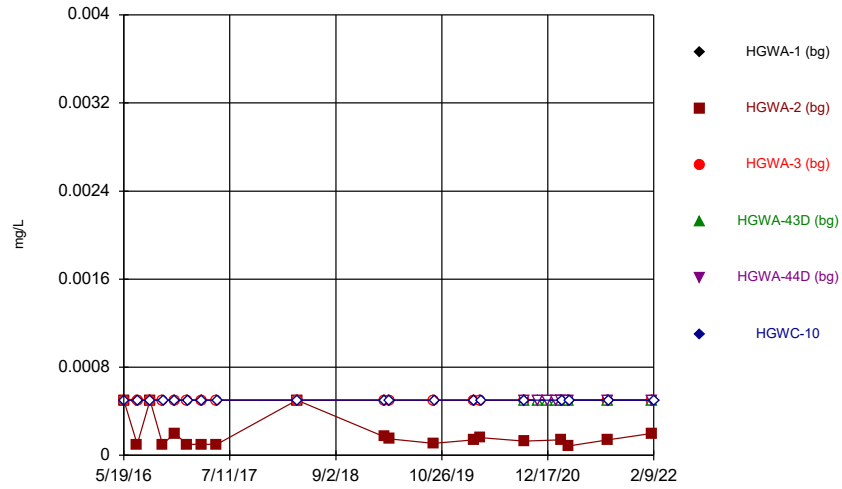
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



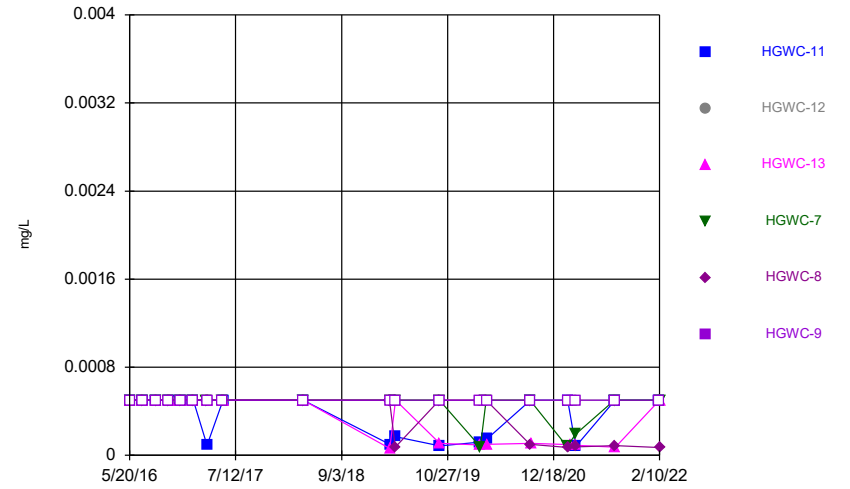
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



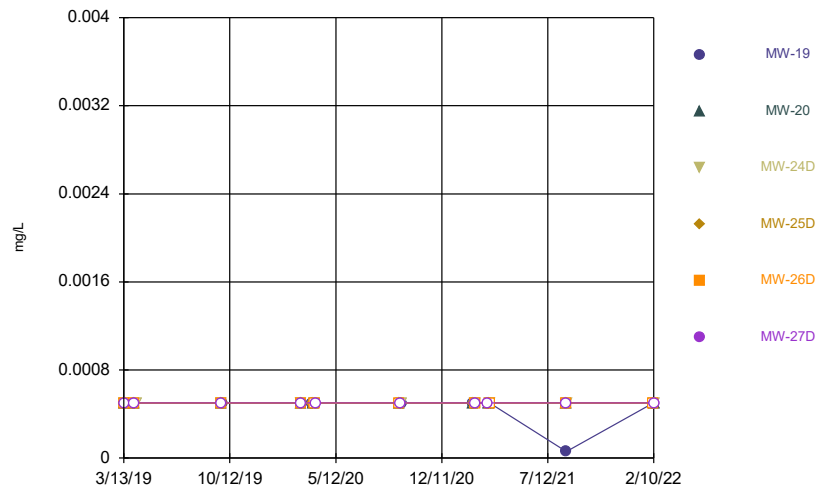
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Time Series



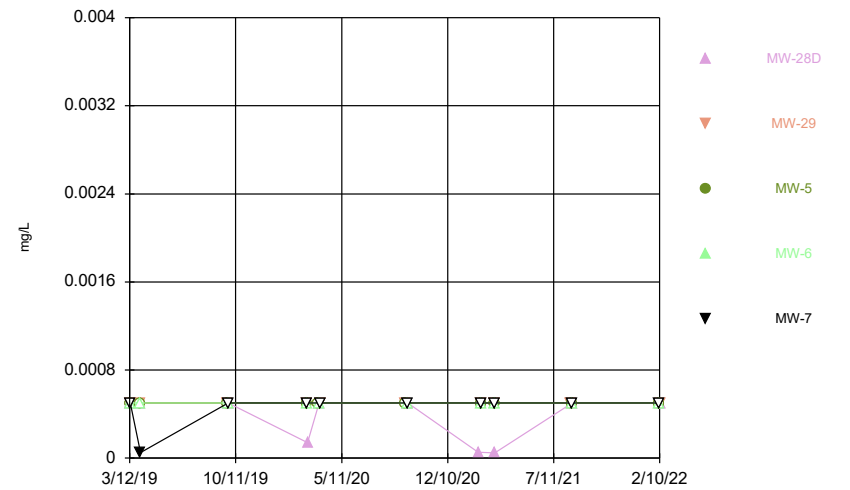
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Time Series



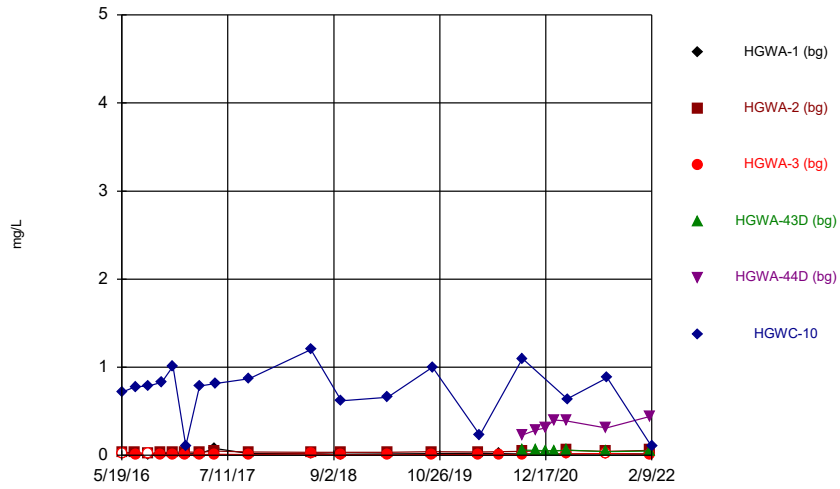
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Time Series



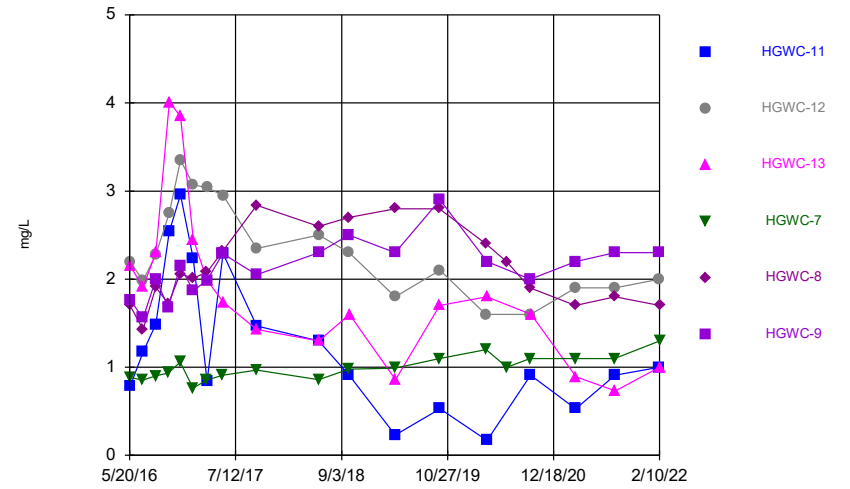
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



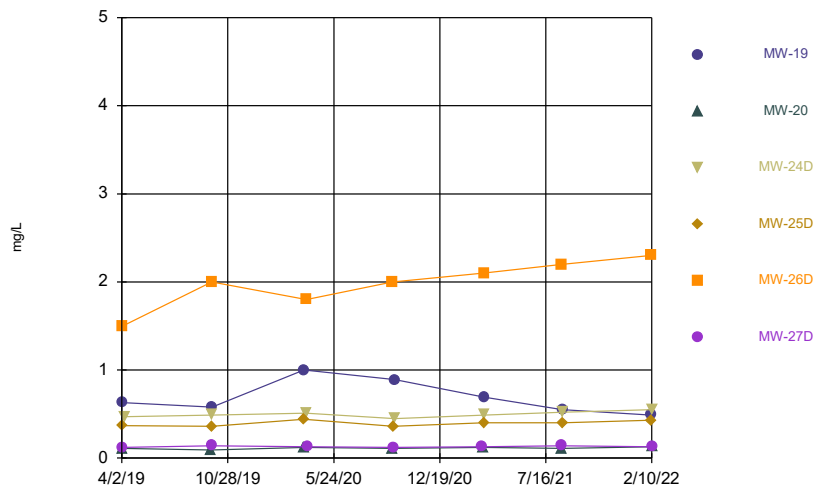
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Time Series



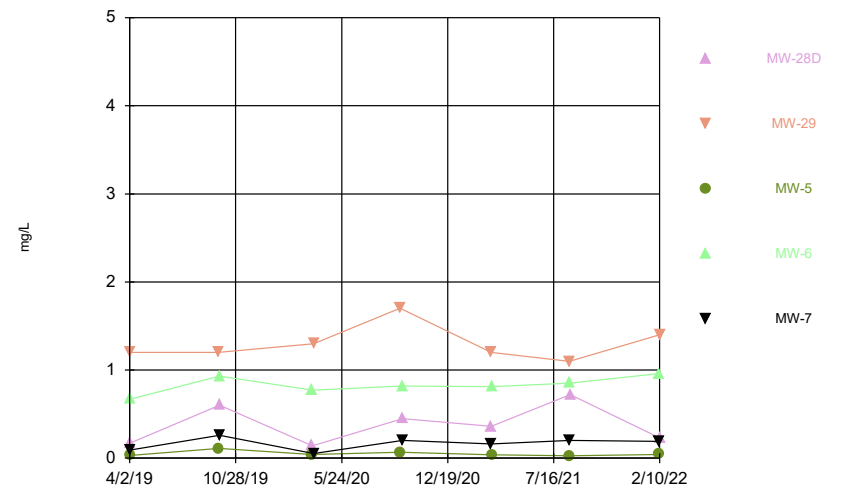
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Time Series



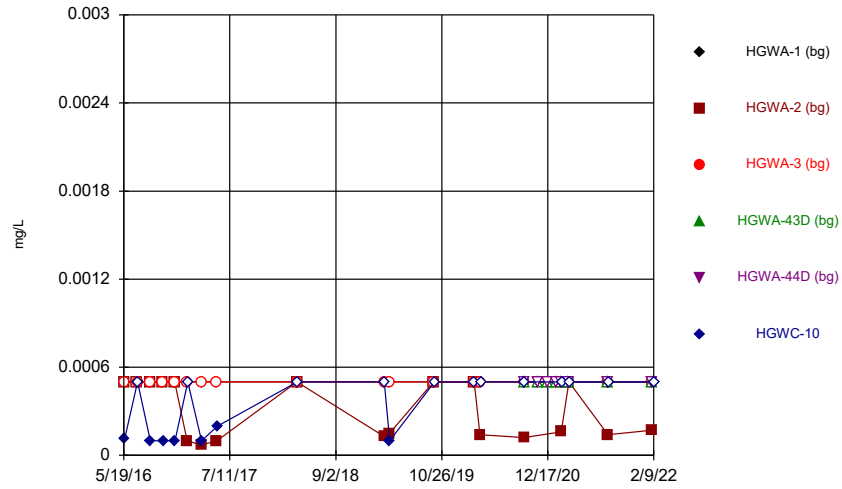
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Time Series



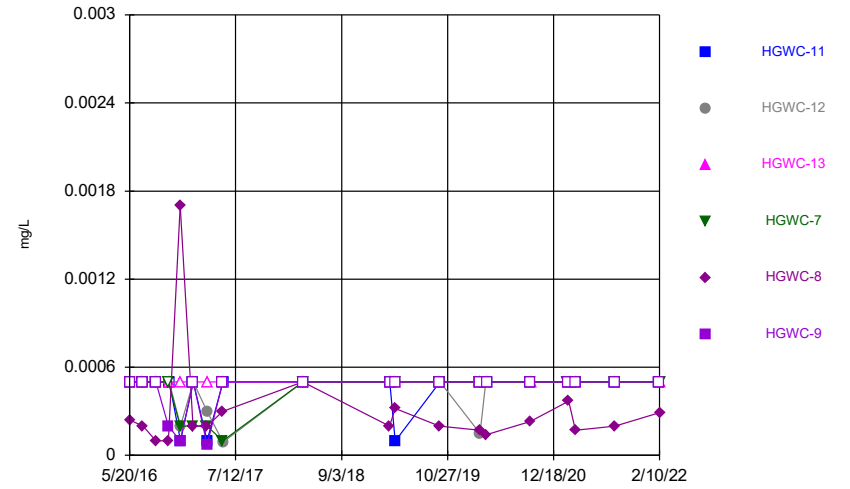
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Time Series



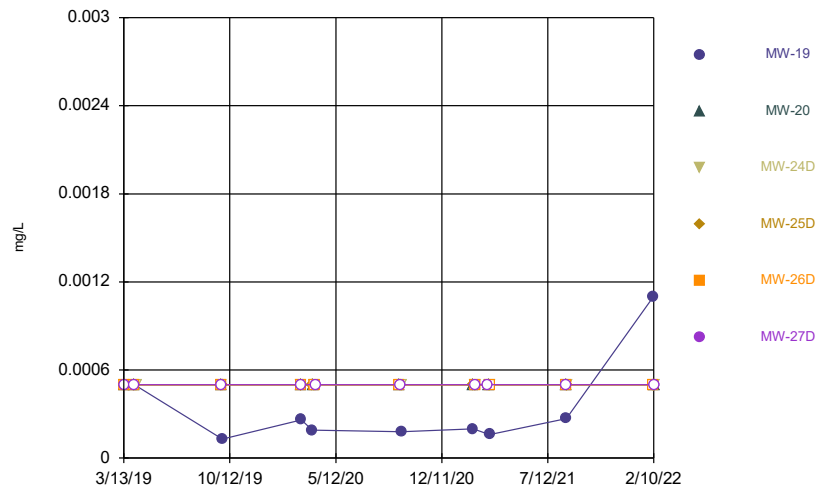
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



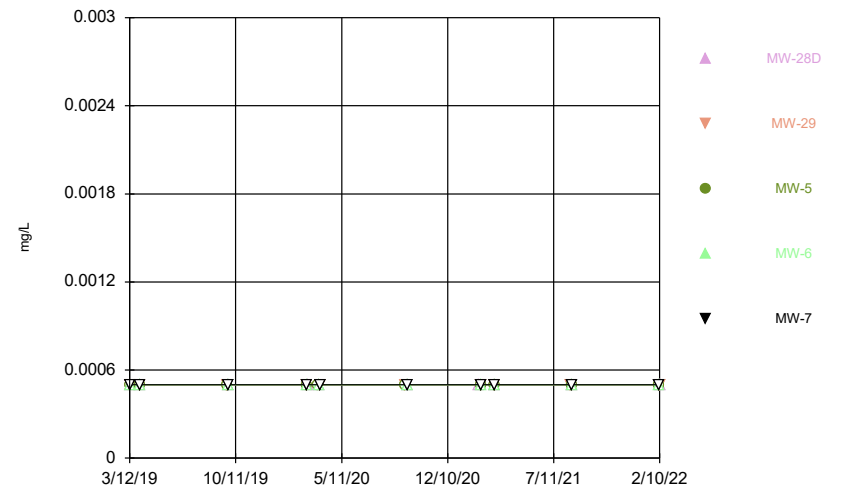
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



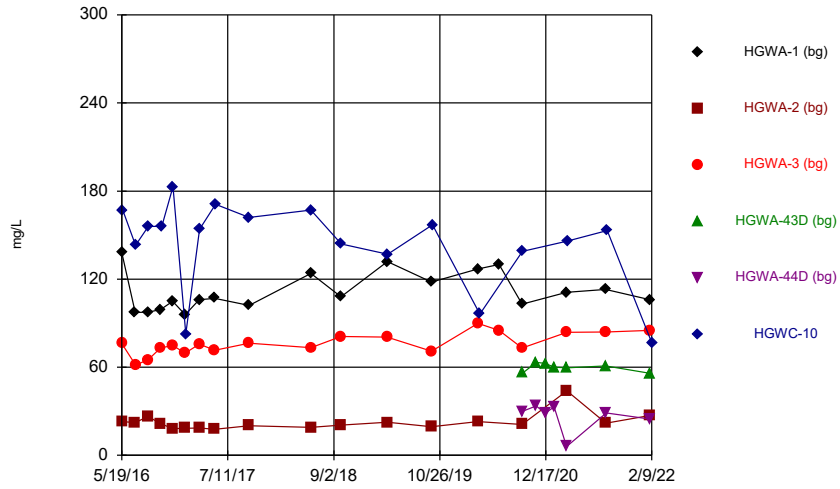
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



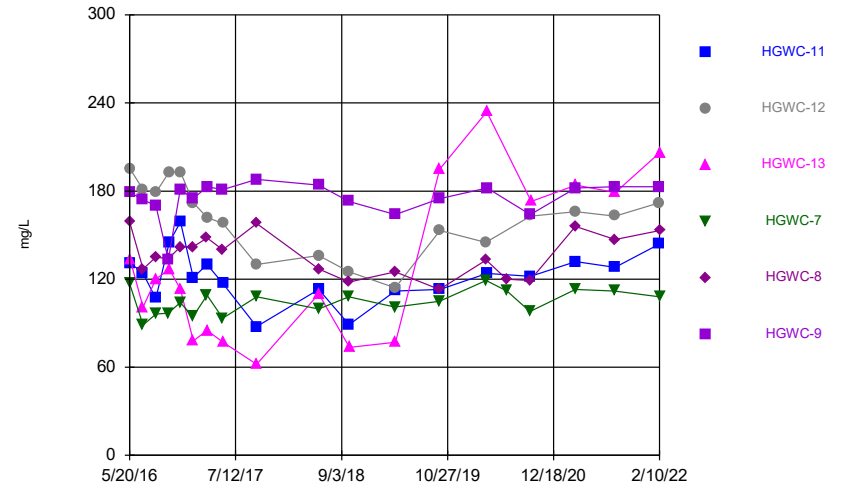
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



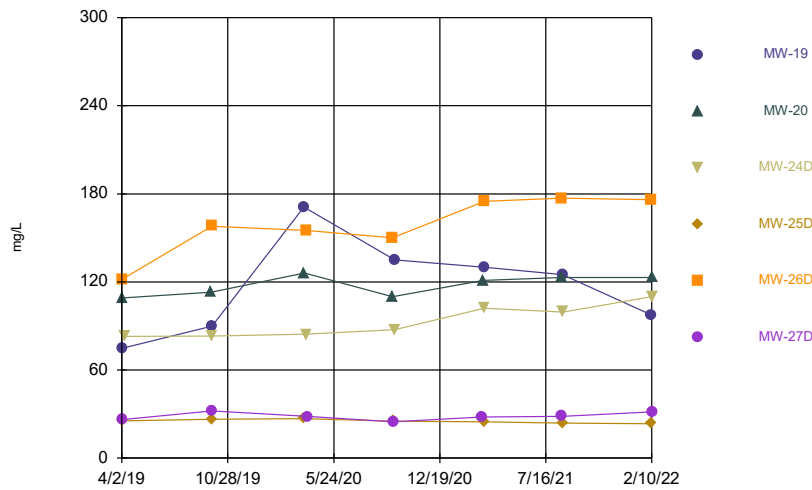
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



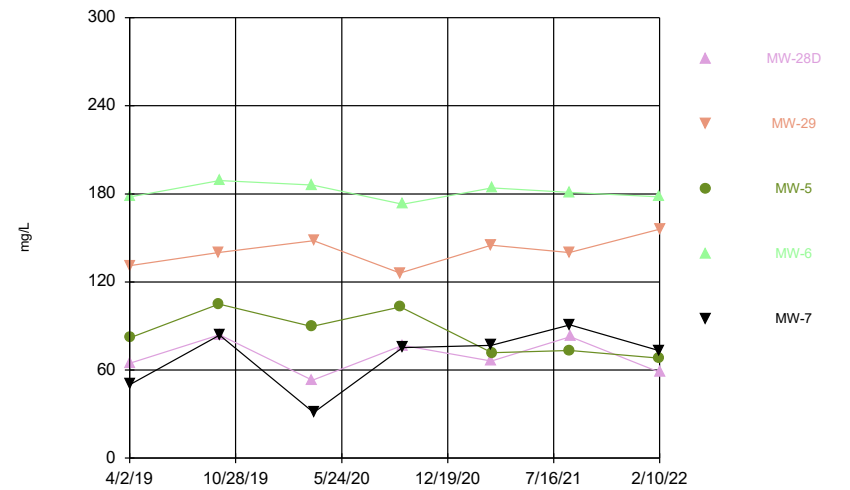
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



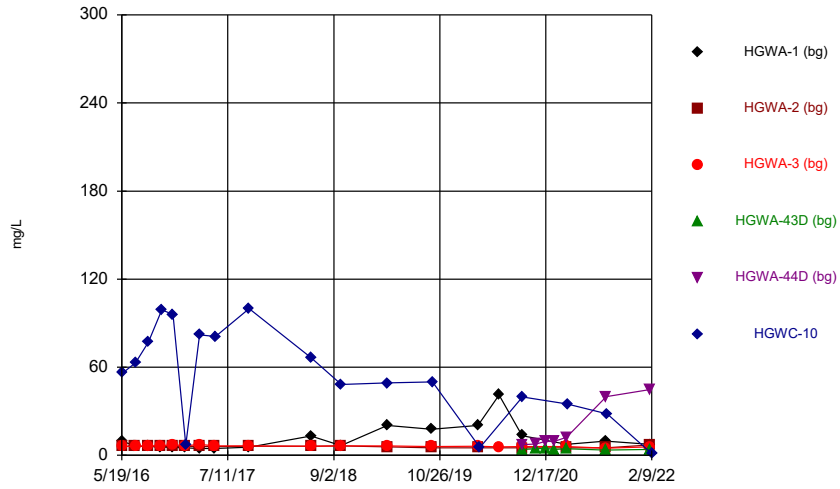
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Time Series



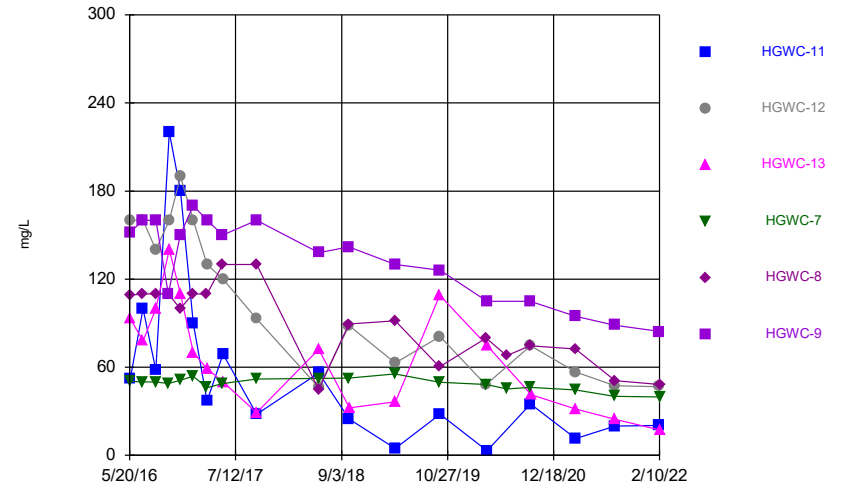
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Time Series



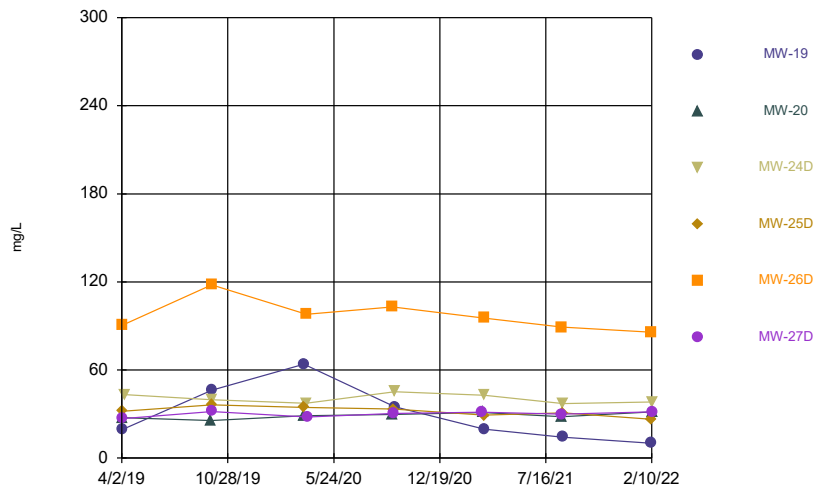
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



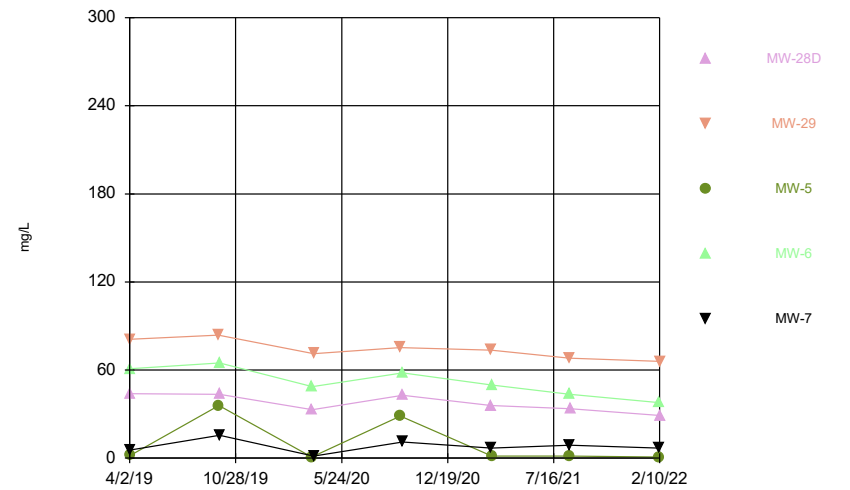
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



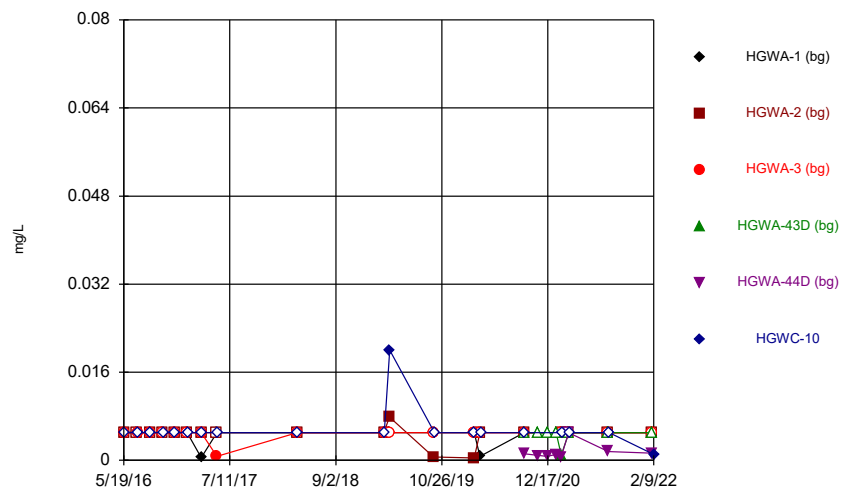
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



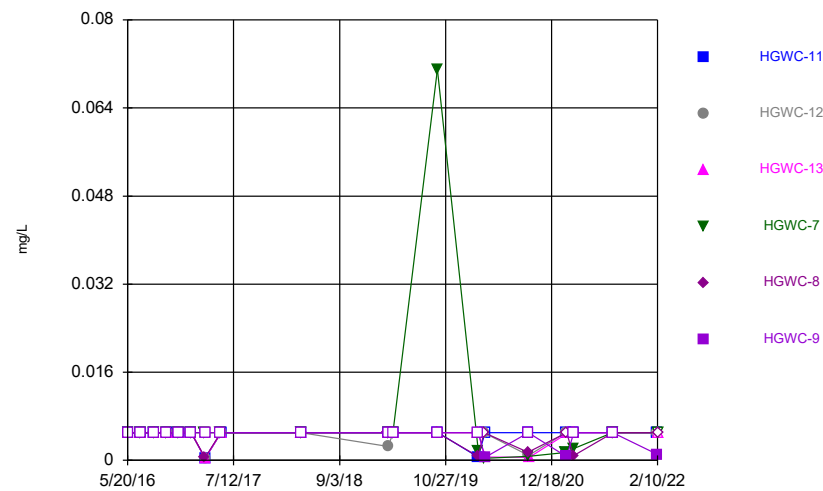
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Time Series



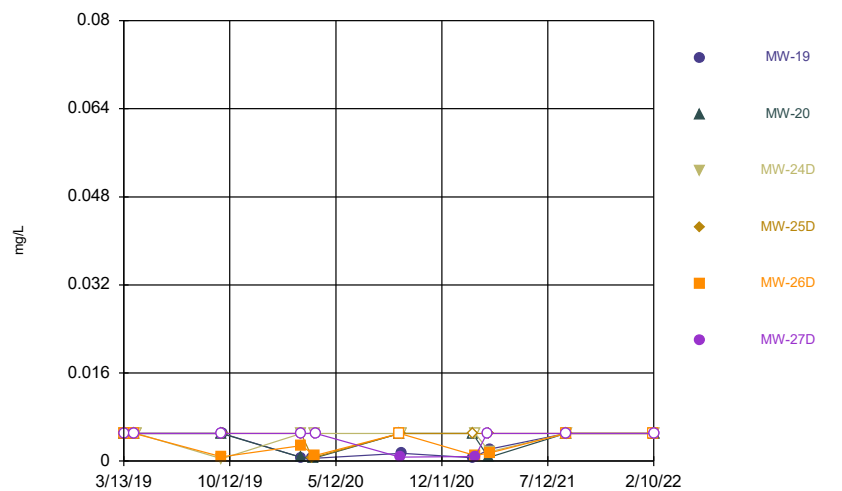
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Time Series



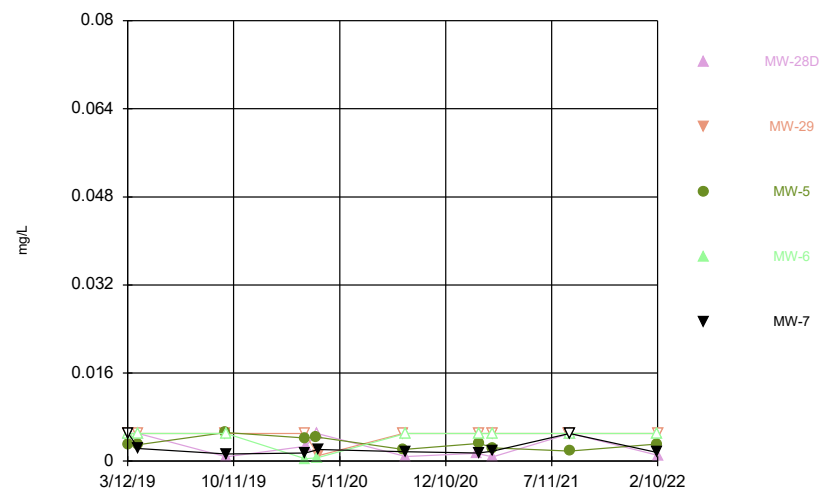
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Time Series



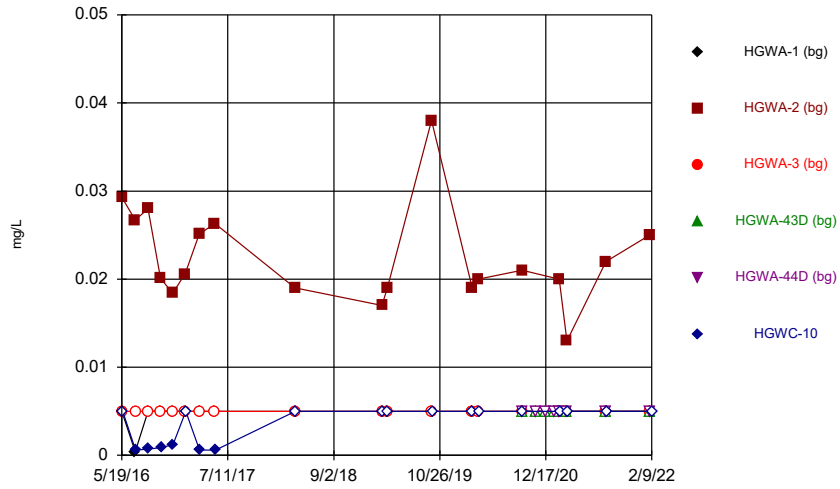
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Time Series



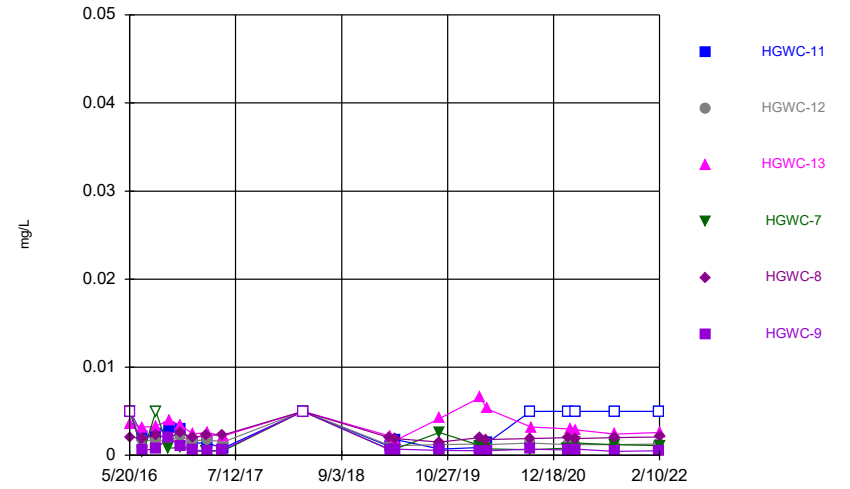
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Time Series



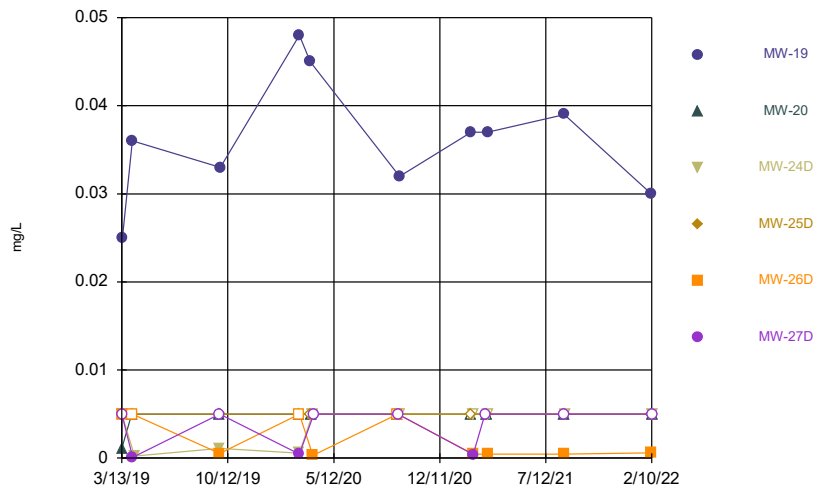
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Time Series



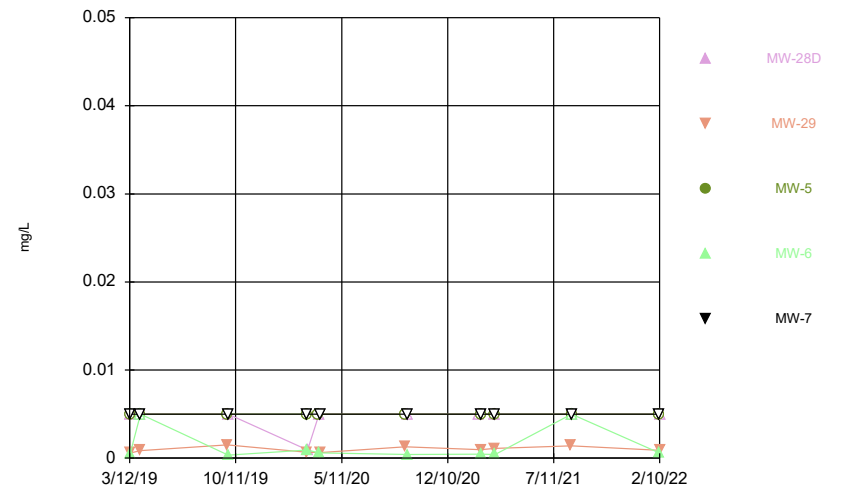
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



Constituent: Cobalt Analysis Run 4/25/2022 2:33 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

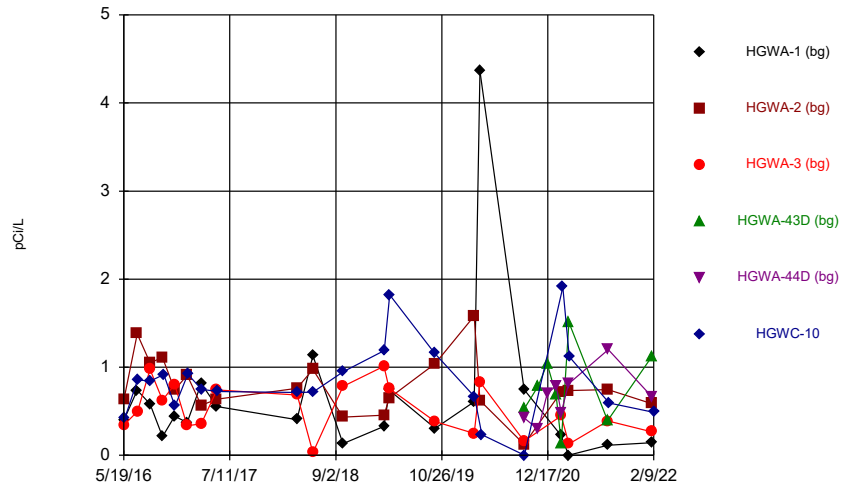
Time Series



Constituent: Cobalt Analysis Run 4/25/2022 2:33 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

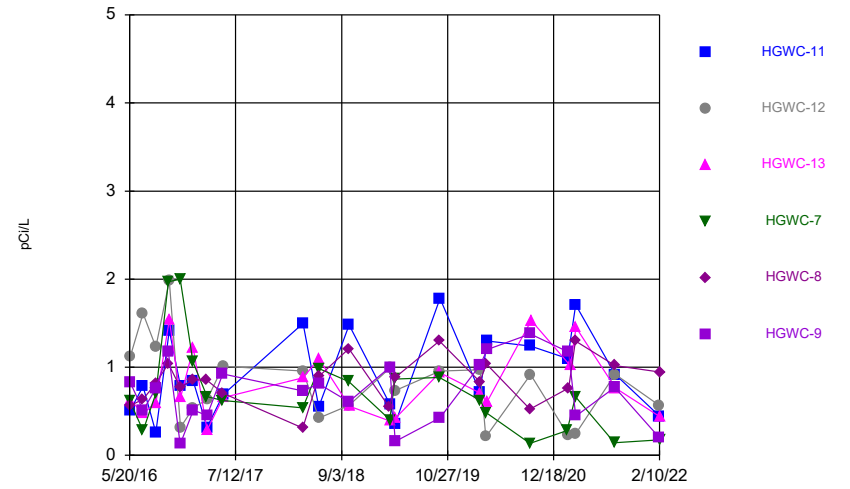


### Time Series



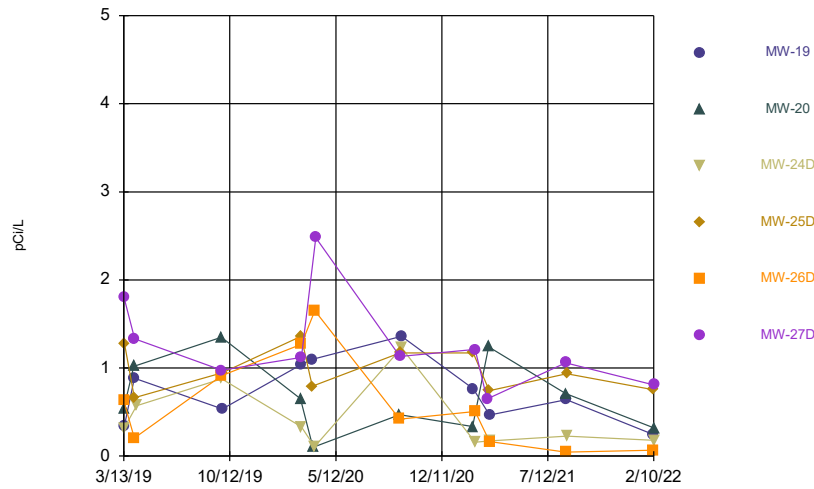
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



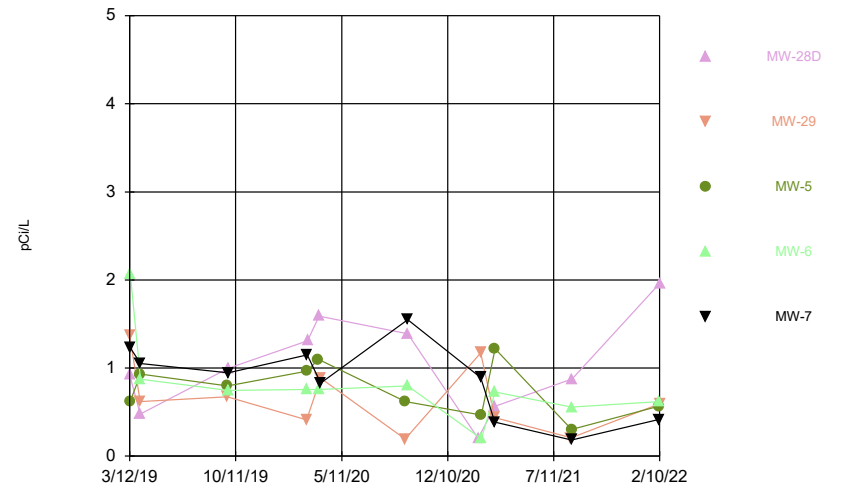
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



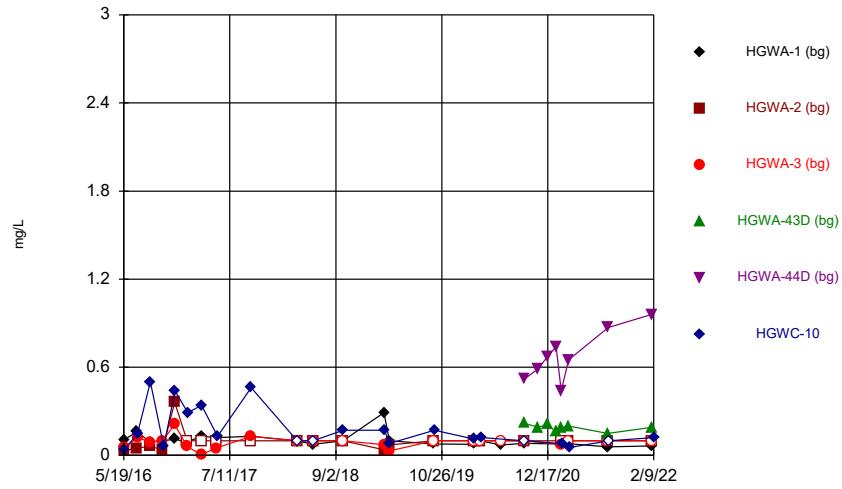
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



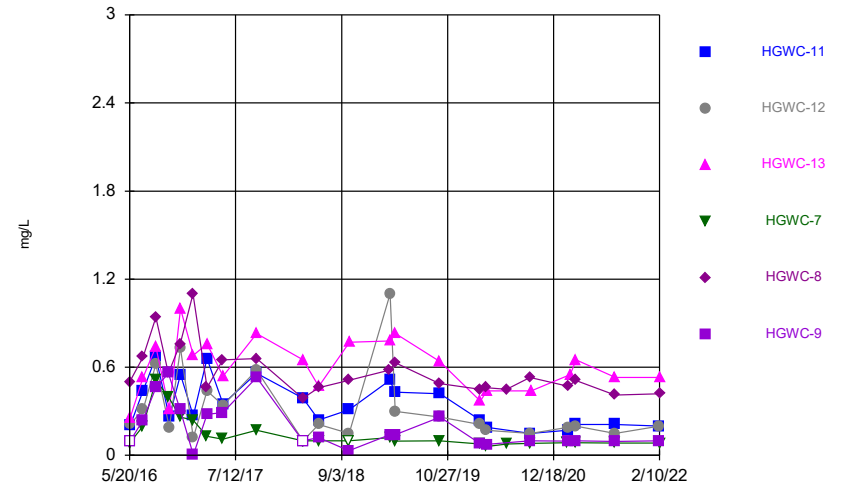
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



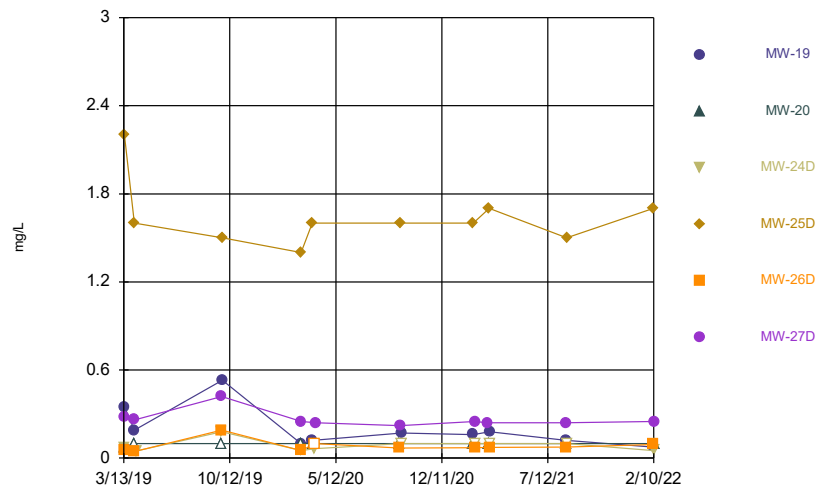
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### Time Series



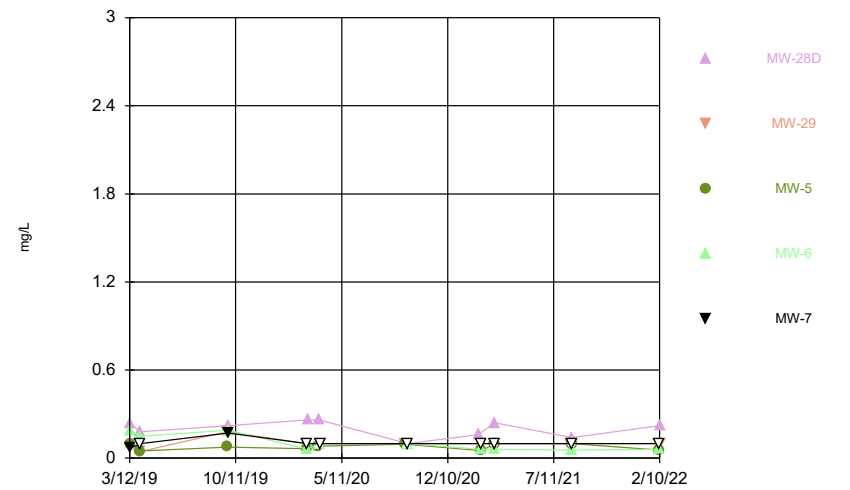
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



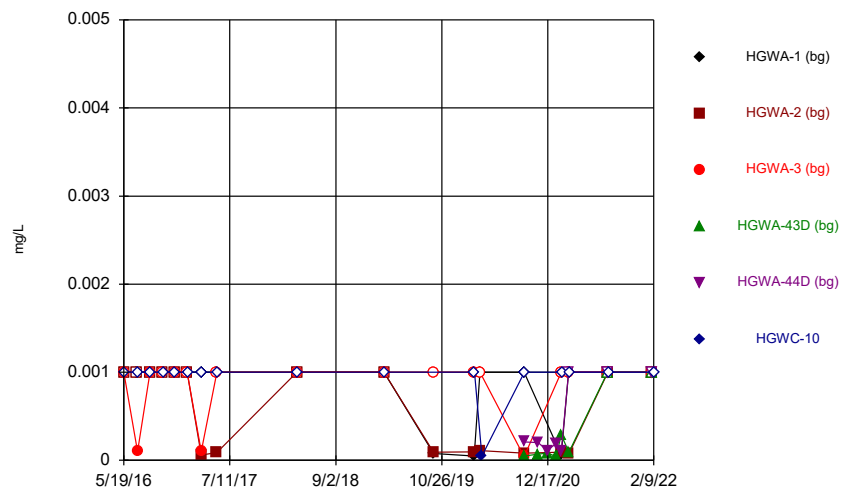
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



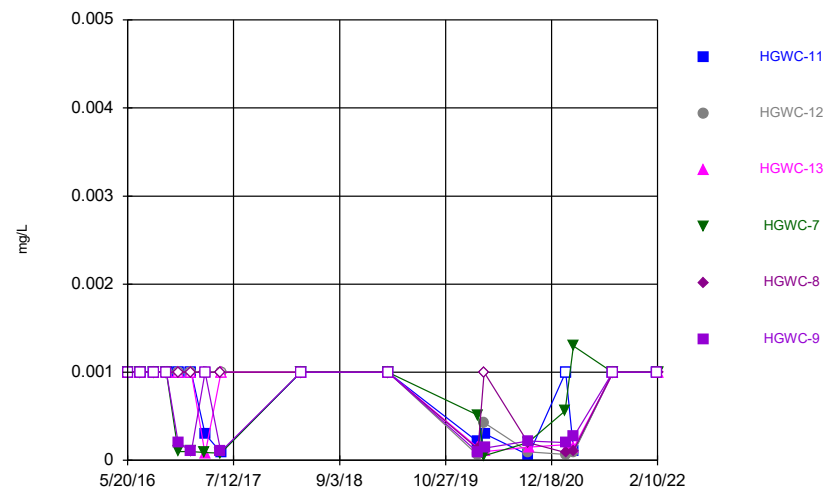
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### Time Series



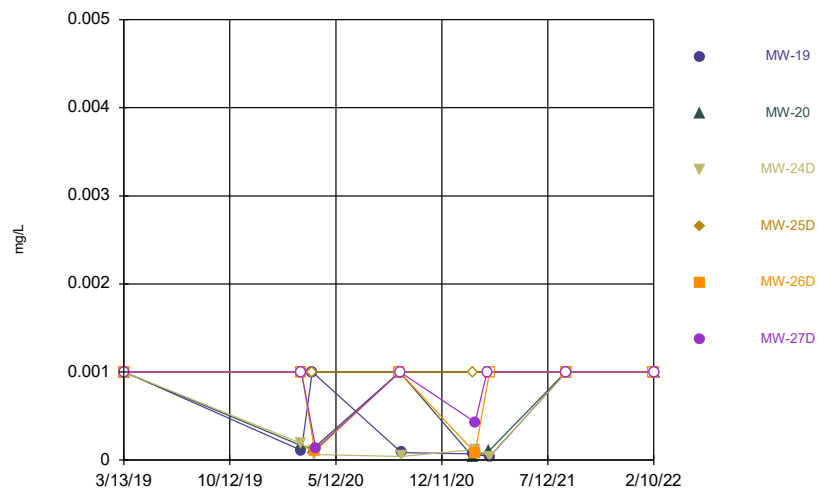
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



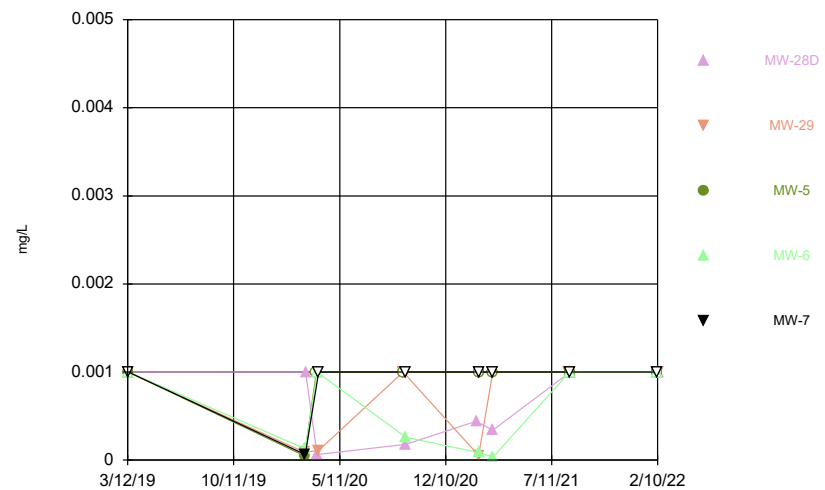
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



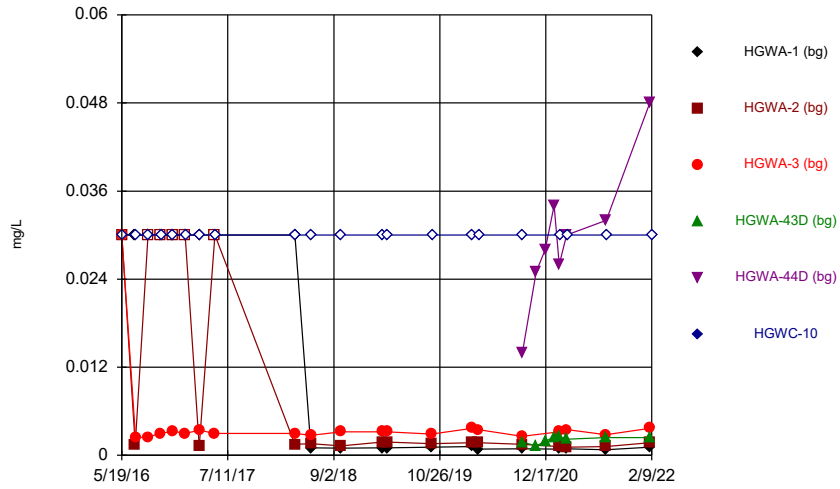
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



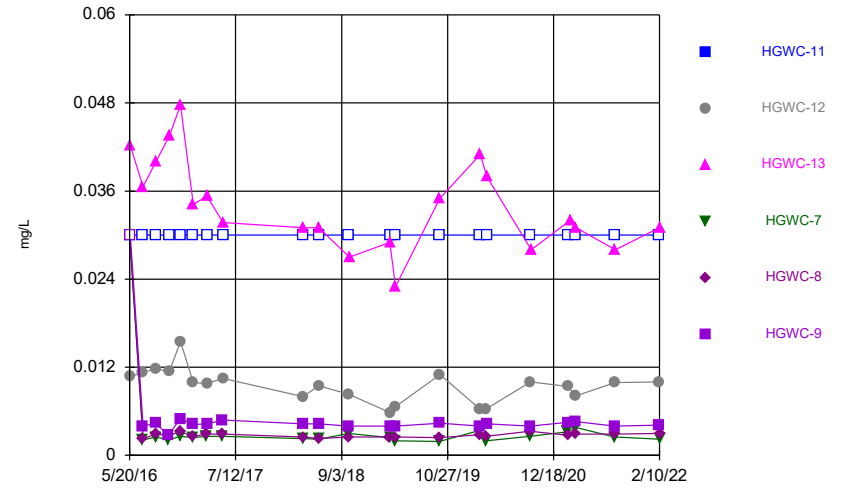
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



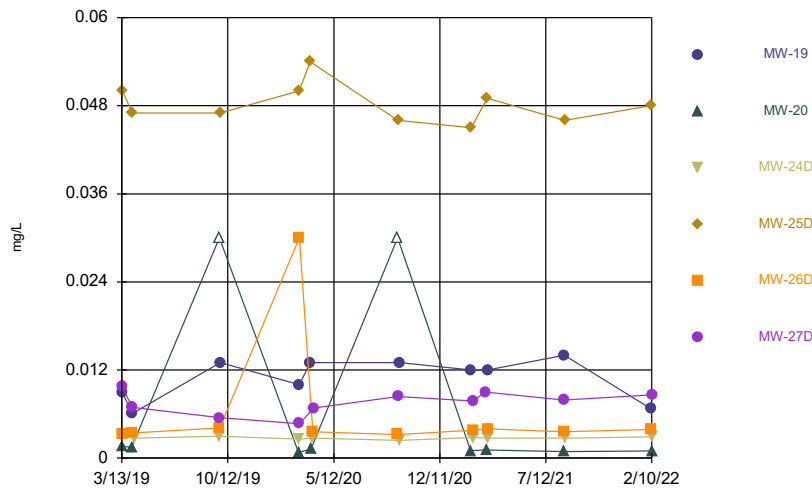
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



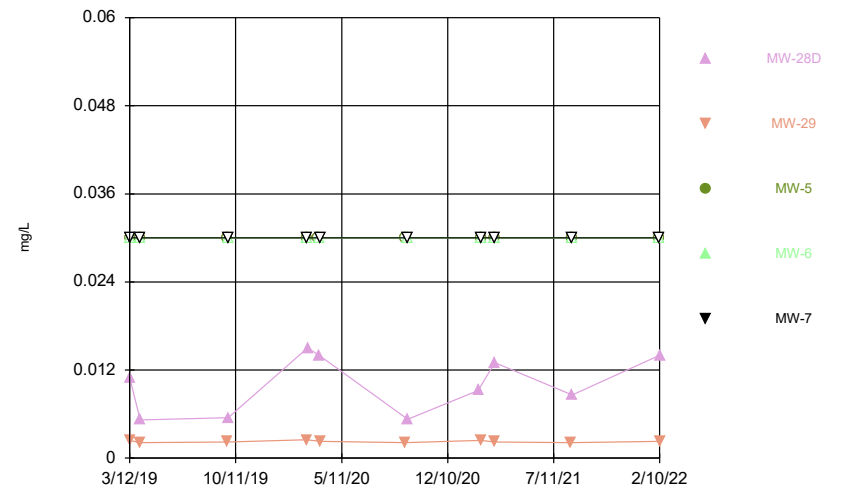
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



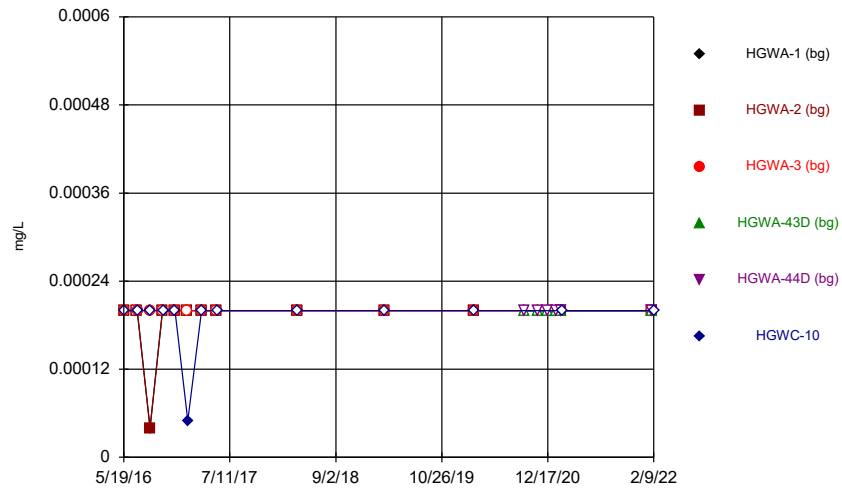
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



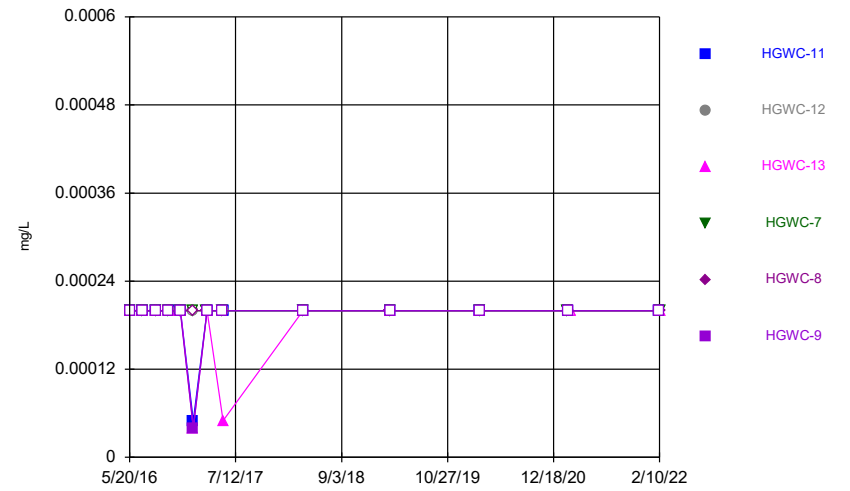
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



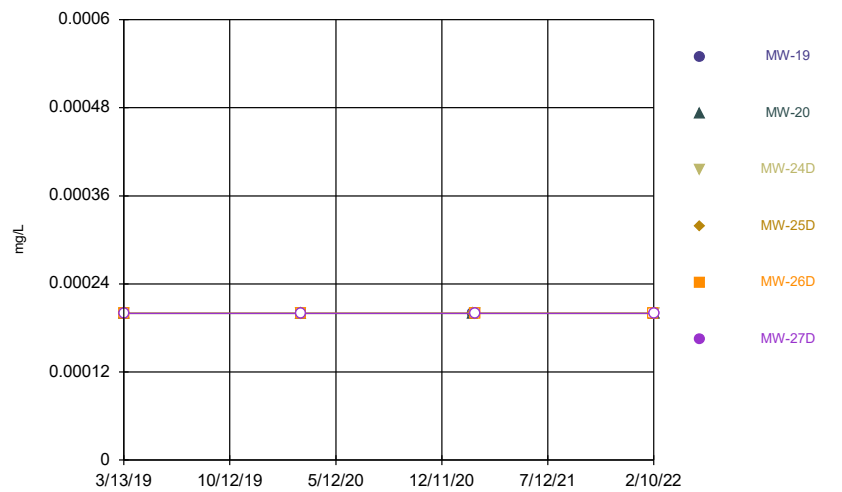
Constituent: Mercury Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



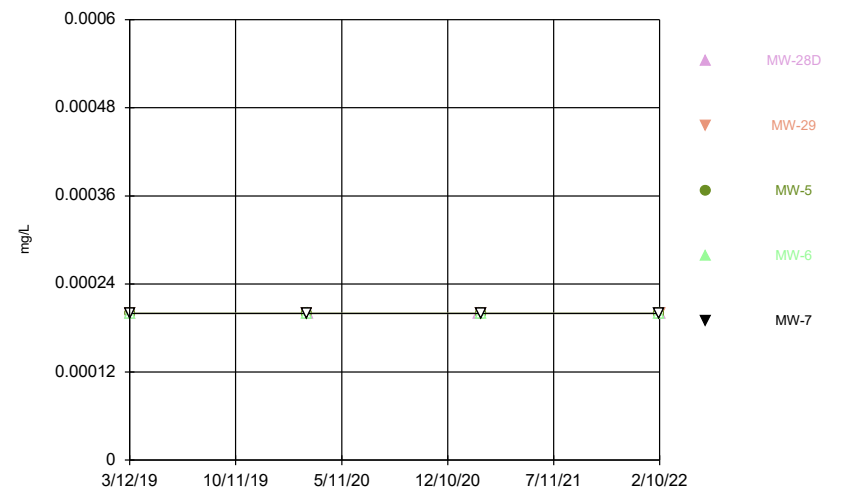
Constituent: Mercury Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



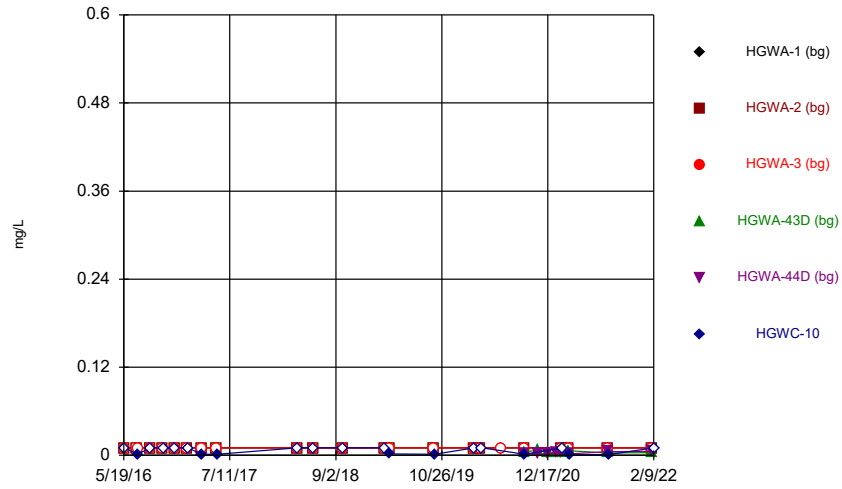
Constituent: Mercury Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



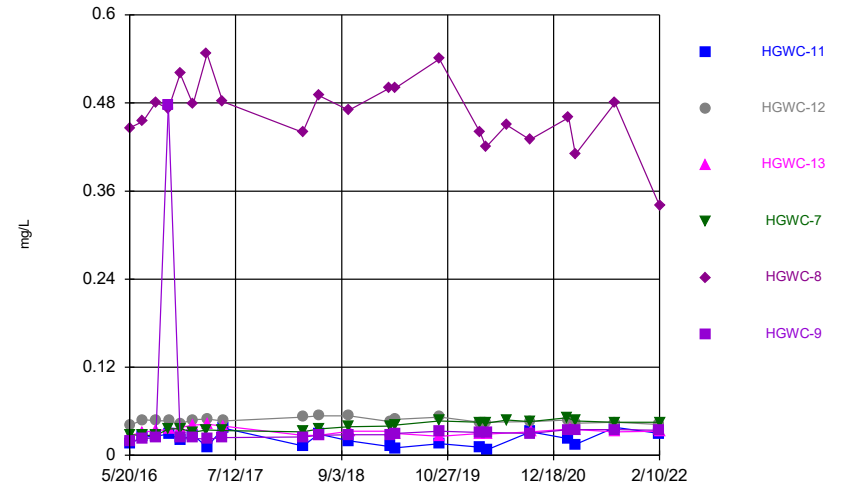
Constituent: Mercury Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



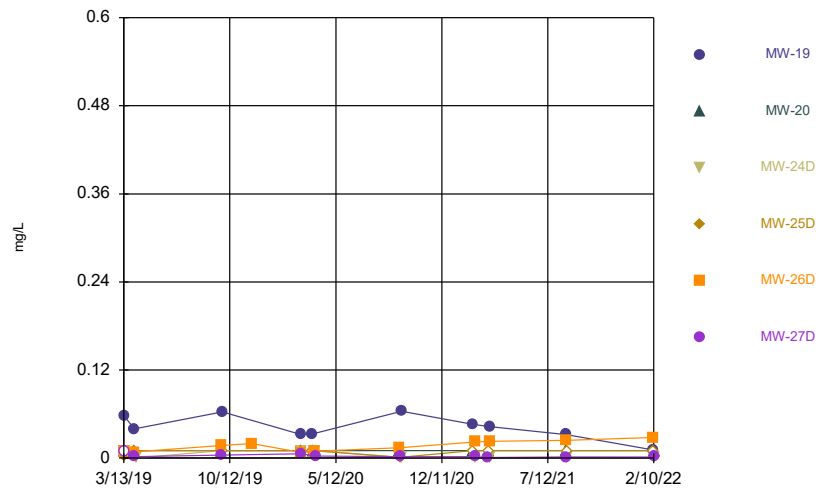
Constituent: Molybdenum Analysis Run 4/25/2022 2:34 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



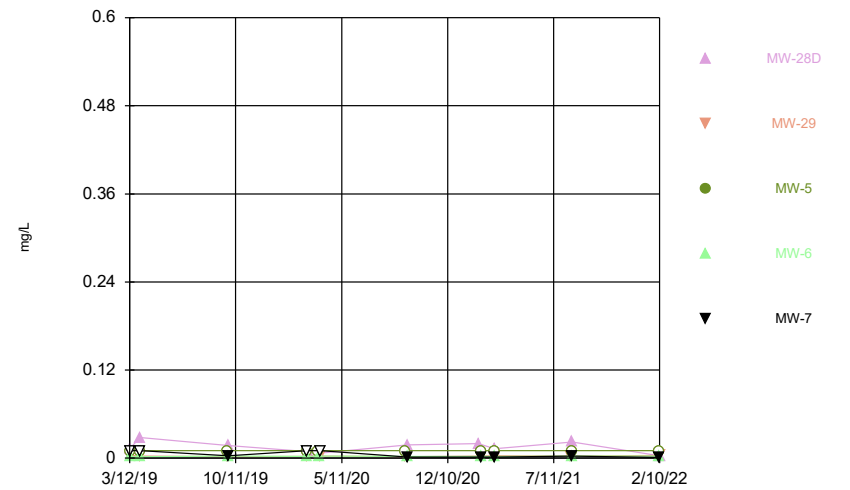
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



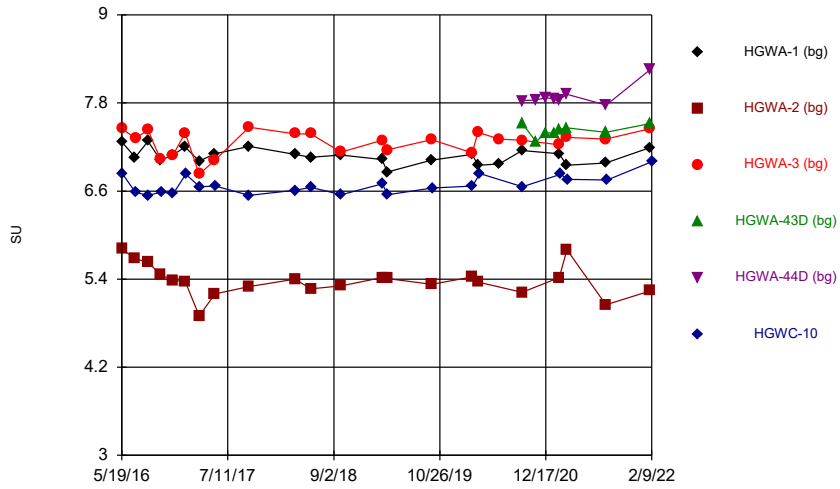
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



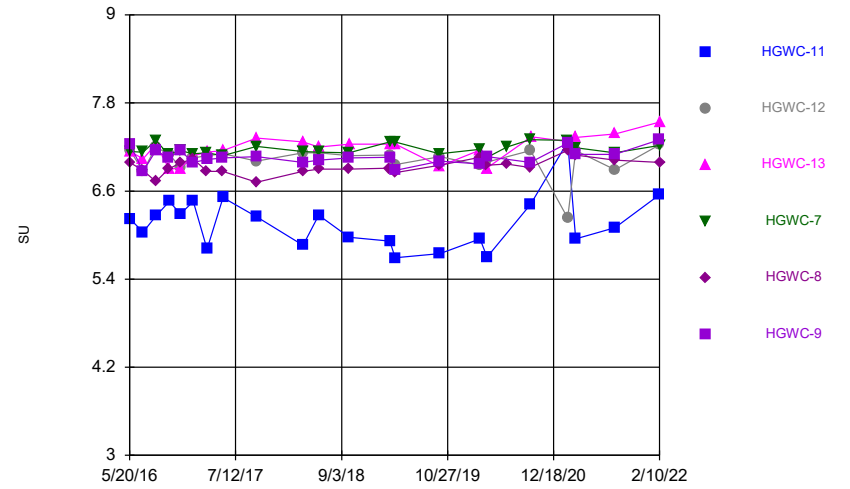
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### Time Series



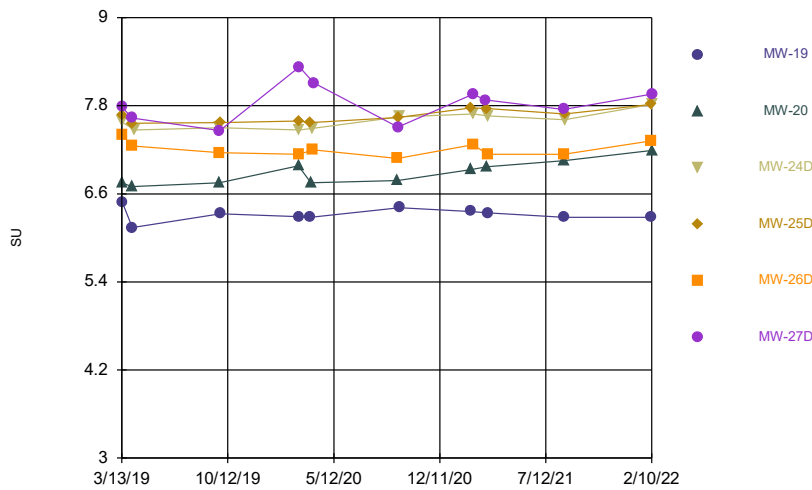
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



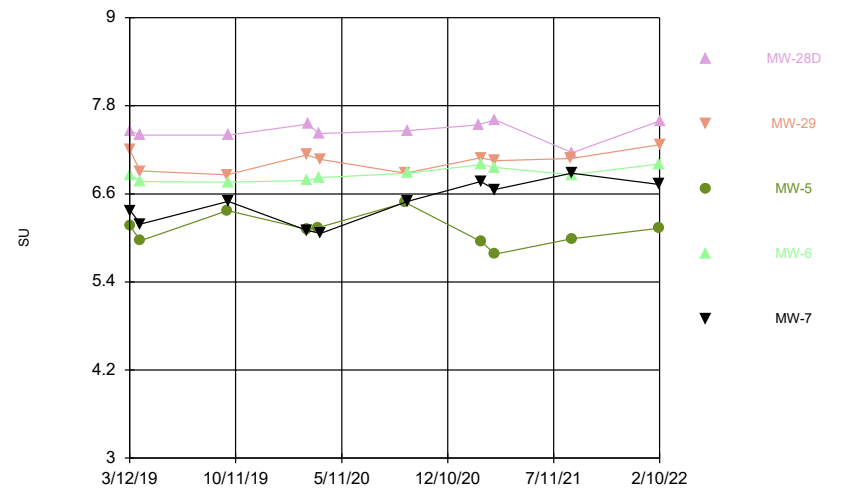
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### Time Series



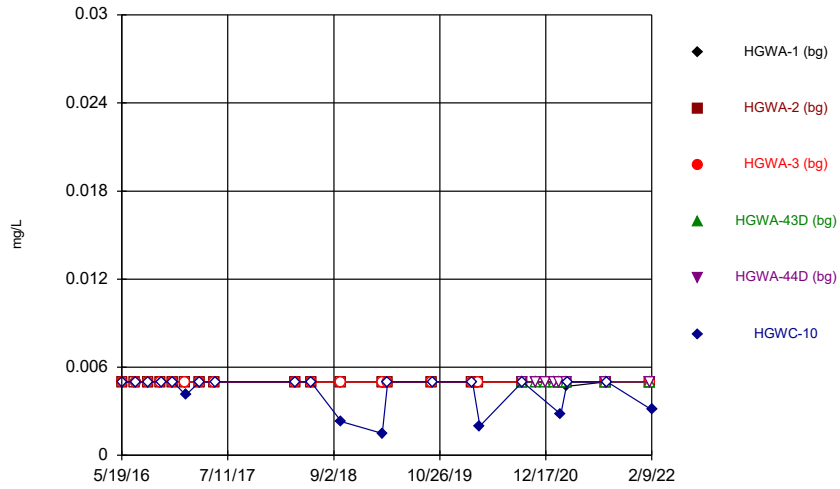
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### Time Series



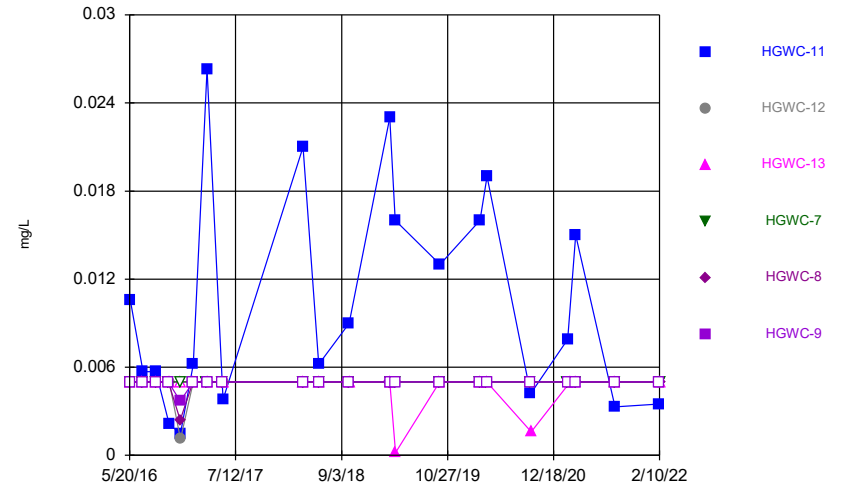
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



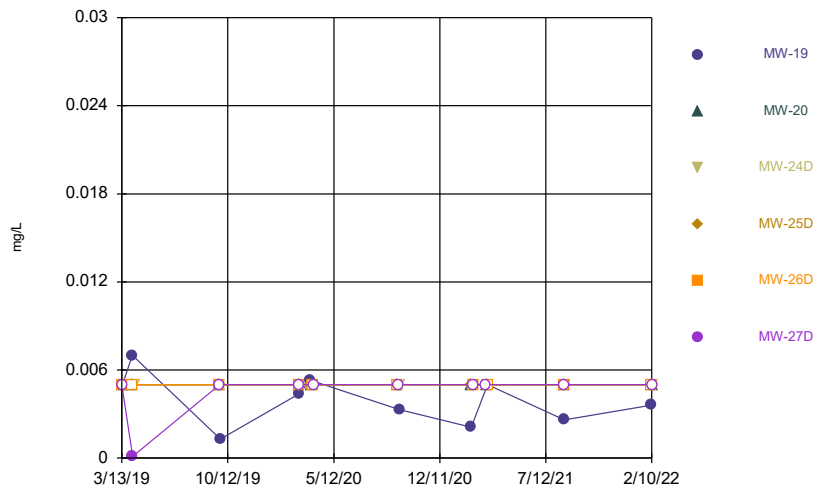
Constituent: Seleniun Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



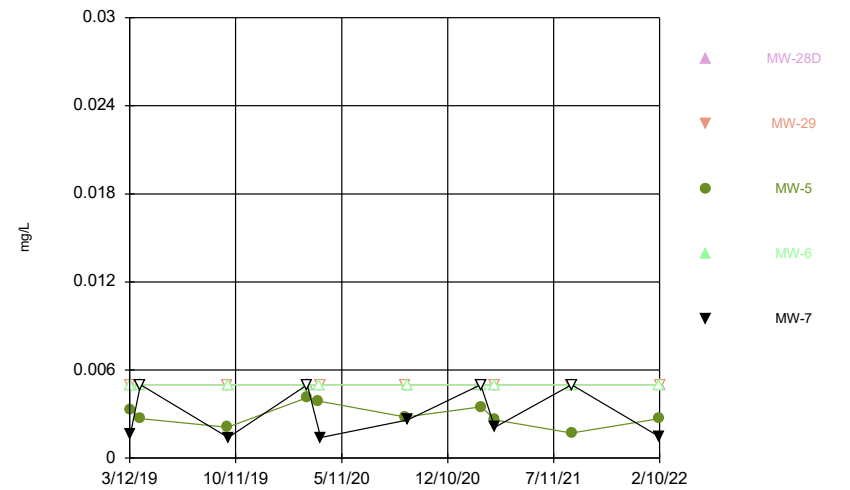
Constituent: Seleniun Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



Constituent: Seleniun Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

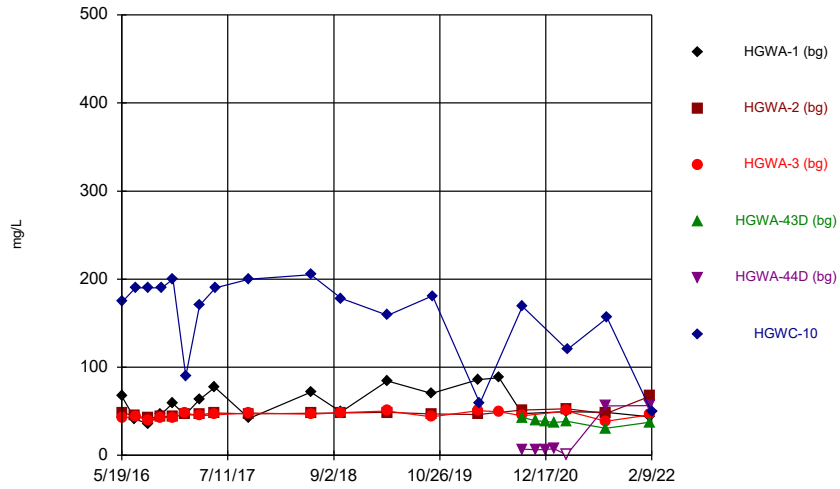
Time Series



Constituent: Seleniun Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

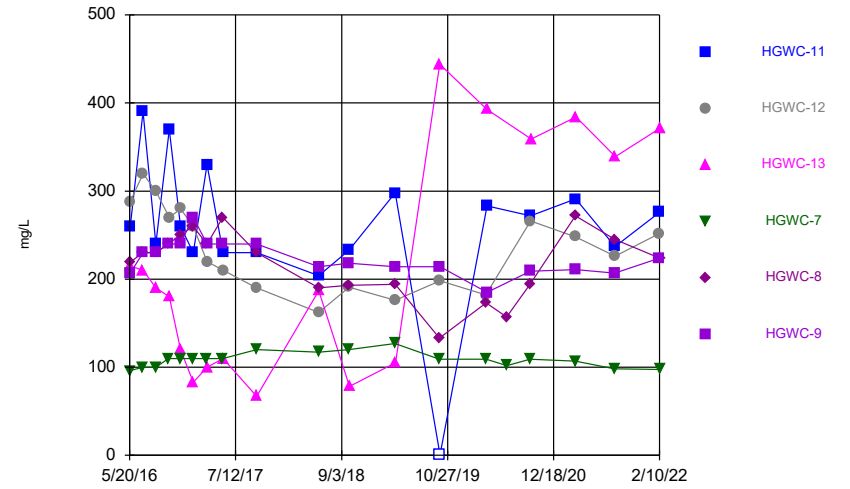


Time Series



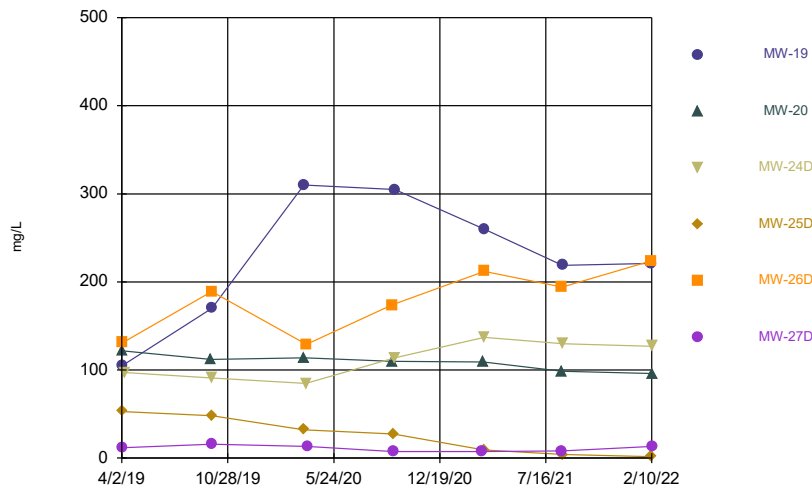
Constituent: Sulfate Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



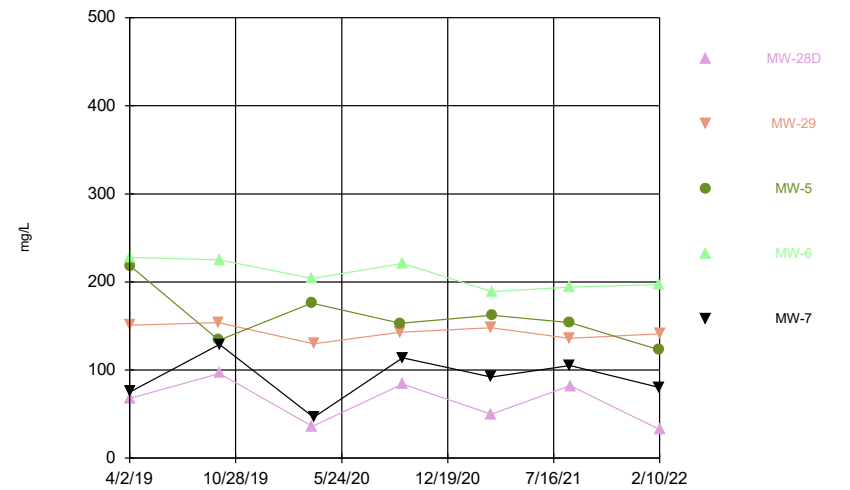
Constituent: Sulfate Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



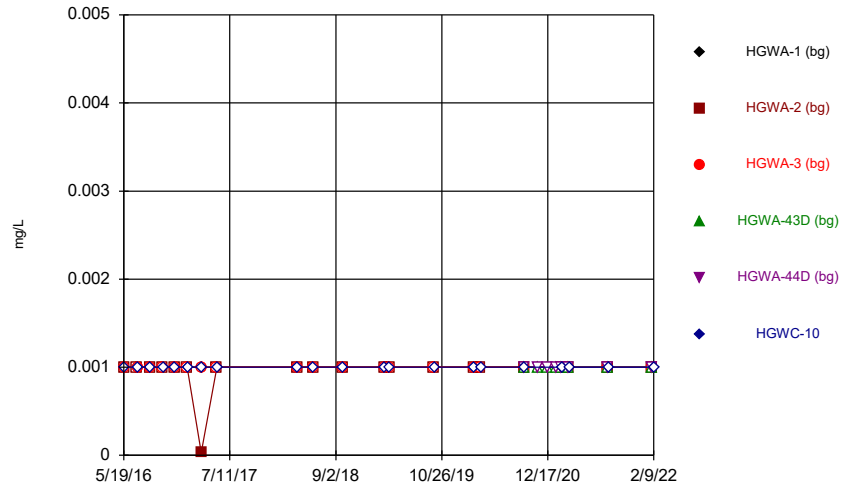
Constituent: Sulfate Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



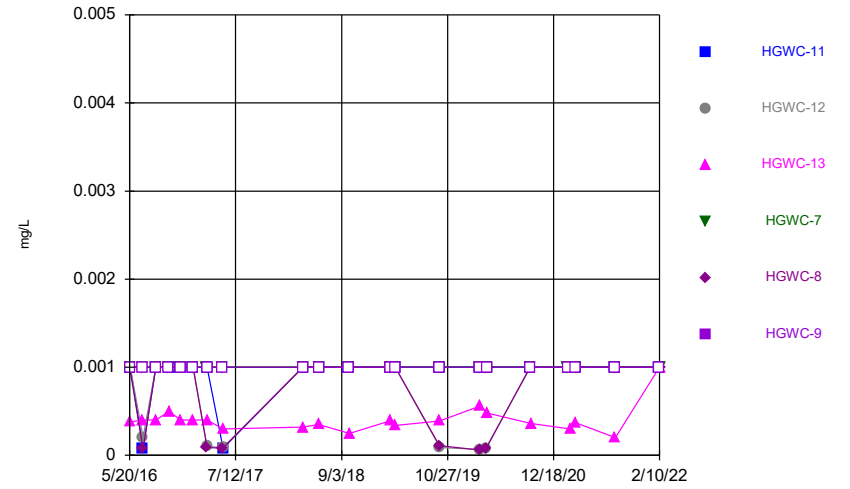
Constituent: Sulfate Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



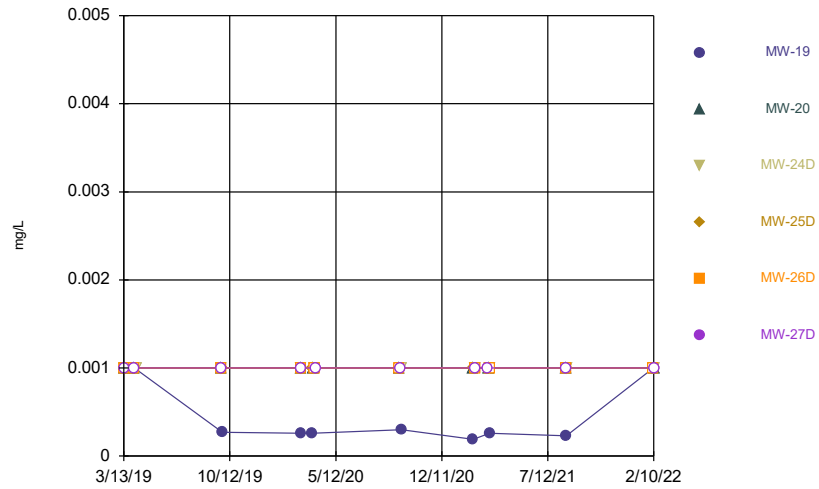
Constituent: Thallium Analysis Run 4/25/2022 2:34 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



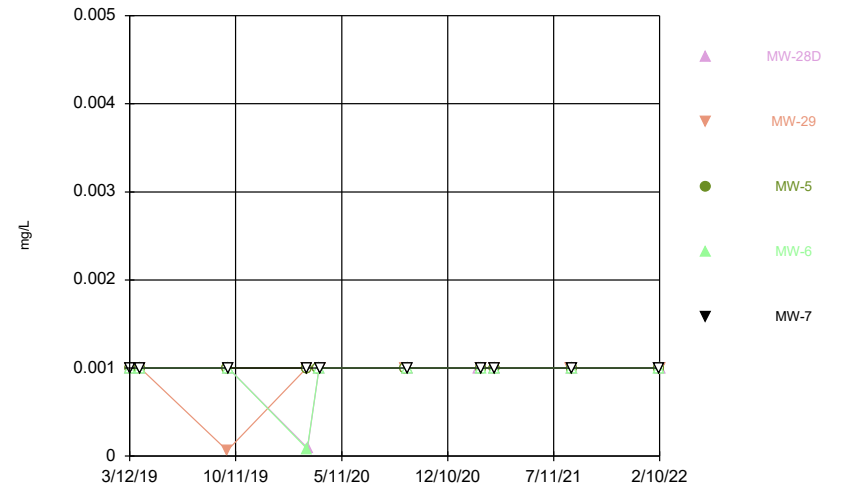
Constituent: Thallium Analysis Run 4/25/2022 2:34 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



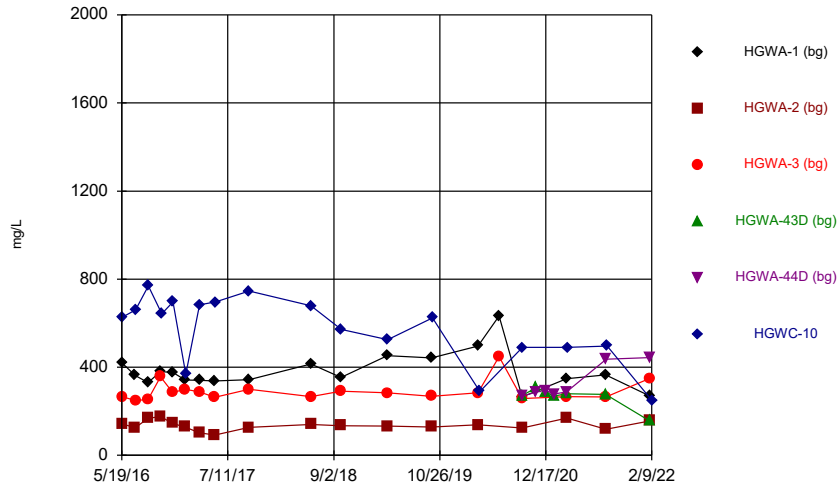
Constituent: Thallium Analysis Run 4/25/2022 2:34 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



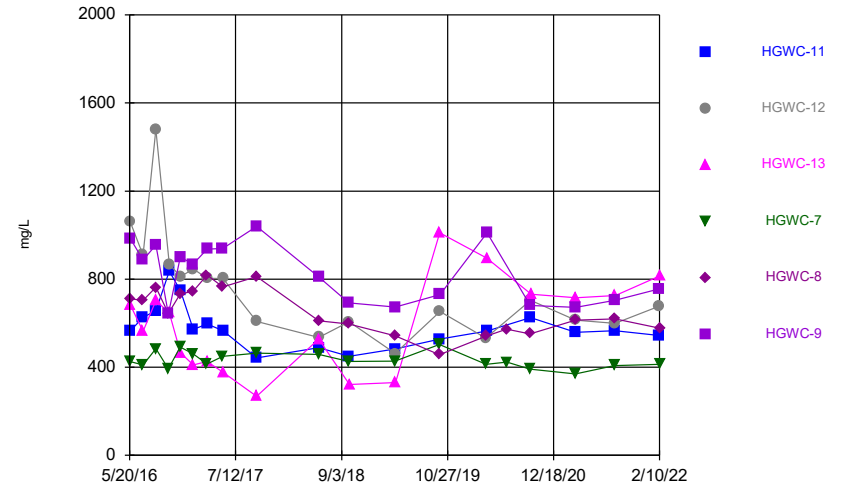
Constituent: Thallium Analysis Run 4/25/2022 2:34 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



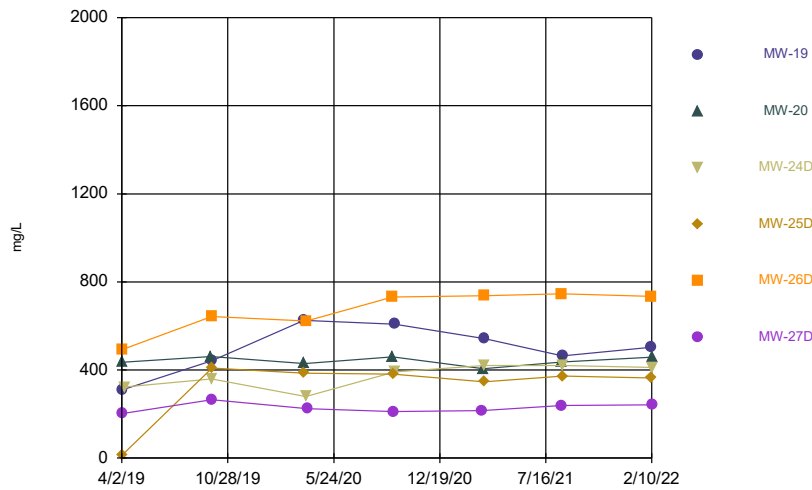
Constituent: Total Dissolved Solids Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



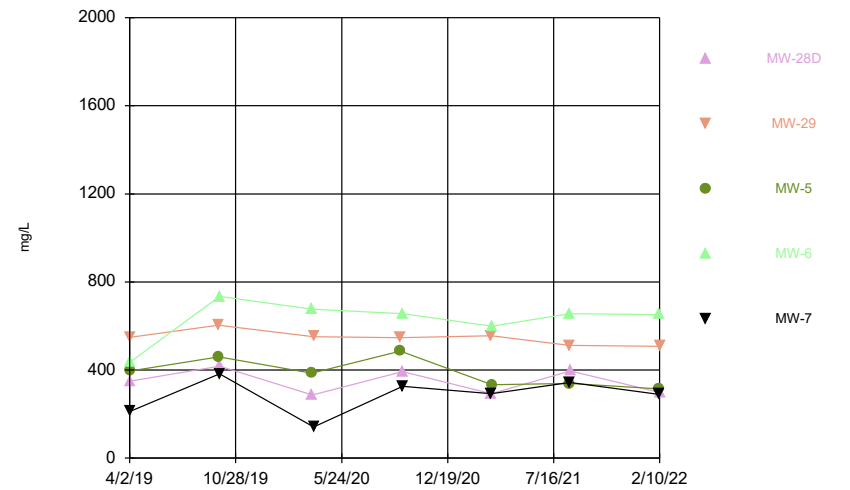
Constituent: Total Dissolved Solids Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



Constituent: Total Dissolved Solids Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



Constituent: Total Dissolved Solids Analysis Run 4/25/2022 2:34 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.003	<0.003	<0.003			
5/23/2016						<0.003
7/11/2016	<0.003	<0.003				
7/12/2016			0.0003 (J)			<0.003
8/30/2016	<0.003	<0.003	<0.003			
9/1/2016						<0.003
10/19/2016	0.0014 (J)	<0.003	<0.003			
10/24/2016						<0.003
12/6/2016	<0.003	<0.003	<0.003			
12/7/2016						<0.003
1/24/2017	<0.003	<0.003	<0.003			
1/26/2017						<0.003
3/21/2017	<0.003	<0.003	<0.003			
3/22/2017						<0.003
5/22/2017	<0.003	<0.003	<0.003			
5/24/2017						<0.003
4/2/2018	<0.003	<0.003				
4/3/2018			<0.003			
4/4/2018						<0.003
3/12/2019	<0.003	<0.003	<0.003			
3/13/2019						<0.003
4/1/2019			<0.003			
4/2/2019	<0.003	<0.003				
4/3/2019						<0.003
9/23/2019	<0.003	<0.003	<0.003			
9/27/2019						<0.003
3/2/2020	<0.003	<0.003	<0.003			
3/3/2020						<0.003
3/25/2020	<0.003	<0.003	<0.003			
4/1/2020						<0.003
9/15/2020	<0.003	<0.003	<0.003			
9/16/2020				0.00051 (J)	0.00049 (J)	<0.003
11/10/2020				0.00043 (J)	<0.003	
12/15/2020				0.00031 (J)	0.00047 (J)	
1/19/2021				0.00029 (J)	0.00067 (JB)	
2/8/2021	<0.003					
2/9/2021		0.00062 (JB)	0.00031 (JB)	0.00037 (JB)	0.00042 (J)	
2/15/2021						0.00065 (J)
3/10/2021	<0.003				0.00037 (J)	
3/11/2021		<0.003	<0.003	0.00057 (J)		
3/12/2021						<0.003
8/11/2021	<0.003			<0.003		
8/12/2021		<0.003	<0.003			
8/13/2021					<0.003	
8/17/2021						<0.003
2/1/2022	<0.003	<0.003	<0.003	<0.003	0.0013 (J)	
2/9/2022						<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.003	<0.003	
5/23/2016	<0.003	<0.003	<0.003			<0.003
7/12/2016	<0.003	<0.003	0.0003 (J)	<0.003	<0.003	<0.003
9/1/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/20/2016				<0.003	<0.003	<0.003
10/24/2016	<0.003	<0.003	<0.003			
12/6/2016				<0.003	<0.003	<0.003
12/7/2016	<0.003	<0.003	<0.003			
1/25/2017				<0.003	<0.003	
1/26/2017	<0.003	<0.003	<0.003			<0.003
3/21/2017				<0.003	<0.003	
3/22/2017	<0.003	<0.003	<0.003			<0.003
5/23/2017				<0.003	<0.003	<0.003
5/24/2017	<0.003	<0.003	<0.003			
4/3/2018				<0.003	<0.003	<0.003
4/4/2018	<0.003	<0.003	<0.003			
3/12/2019					<0.003	
3/13/2019	<0.003		<0.003	<0.003		<0.003
3/14/2019		<0.003				
4/2/2019				<0.003		
4/3/2019	<0.003	<0.003			<0.003	<0.003
4/5/2019			0.00021 (J)			
9/24/2019					<0.003	
9/25/2019				<0.003		
9/26/2019			<0.003			
9/27/2019	<0.003	<0.003				<0.003
3/3/2020	<0.003	<0.003			<0.003	
3/4/2020			0.00061 (J)	<0.003		0.00032 (J)
3/26/2020		<0.003				
3/27/2020				<0.003	<0.003	
3/30/2020			0.00036 (J)			
3/31/2020	<0.003					0.00042 (J)
9/16/2020				0.00034 (J)	<0.003	
9/17/2020						<0.003
9/18/2020	0.00038 (J)	<0.003				
9/21/2020			0.00029 (J)			
2/10/2021				<0.003		
2/12/2021	<0.003	<0.003				
2/16/2021					0.00064 (J)	0.00043 (J)
2/22/2021			0.00047 (J)			
3/15/2021				<0.003	<0.003	
3/16/2021	<0.003	<0.003				<0.003
3/17/2021			0.00049 (J)			
8/16/2021				0.0017 (J)		
8/17/2021						<0.003
8/18/2021	<0.003	<0.003			<0.003	
8/19/2021			<0.003			
2/9/2022	<0.003	<0.003				<0.003
2/10/2022			<0.003	<0.003	<0.003	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.003	<0.003		<0.003	<0.003
3/14/2019	<0.003			<0.003		
4/2/2019		<0.003				
4/3/2019	<0.003			<0.003	<0.003	
4/4/2019						0.00016 (J)
4/8/2019			<0.003			
9/25/2019		<0.003				
9/26/2019			<0.003		<0.003	0.0003 (J)
9/27/2019	<0.003			<0.003		
3/2/2020		<0.003				
3/3/2020				<0.003		
3/4/2020	<0.003		0.0017 (J)		0.002 (J)	0.00037 (J)
3/26/2020	<0.003			<0.003		
3/27/2020		<0.003				
3/30/2020			<0.003			
3/31/2020					0.0013 (J)	
4/2/2020						0.0003 (J)
9/17/2020		<0.003			<0.003	
9/18/2020				<0.003		0.00031 (J)
9/21/2020	<0.003		<0.003			
2/11/2021		<0.003				
2/12/2021	<0.003			<0.003		
2/16/2021			<0.003		<0.003	0.00038 (J)
3/12/2021						<0.003
3/15/2021		<0.003				
3/16/2021				<0.003		
3/17/2021	<0.003		<0.003		<0.003	
8/17/2021		<0.003			<0.003	<0.003
8/18/2021	<0.003					
8/19/2021			<0.003	<0.003		
2/9/2022	<0.003			<0.003	<0.003	
2/10/2022		<0.003	<0.003			<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.003	<0.003			
3/13/2019			<0.003	<0.003	0.00086 (J)
4/2/2019	<0.003	<0.003			
4/3/2019			<0.003	<0.003	<0.003
9/24/2019		<0.003			
9/25/2019			<0.003		
9/26/2019	<0.003			<0.003	<0.003
3/2/2020		<0.003	<0.003		
3/3/2020				<0.003	0.0013 (J)
3/4/2020	<0.003				
3/26/2020			<0.003		
3/27/2020	<0.003			<0.003	
3/30/2020		<0.003			<0.003
9/16/2020		<0.003			
9/17/2020			<0.003		
9/21/2020	<0.003			0.0014 (J)	0.00051 (J)
2/10/2021	0.0019 (J)				
2/15/2021		0.00094 (J)			0.0021 (J)
2/16/2021			<0.003	<0.003	
3/15/2021	<0.003	<0.003			<0.003
3/16/2021			<0.003	<0.003	
8/16/2021		<0.003			
8/17/2021			<0.003	<0.003	<0.003
8/18/2021	<0.003				
2/8/2022					<0.003
2/9/2022			<0.003	<0.003	
2/10/2022	<0.003	<0.003			

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.005	0.00127 (J)	<0.005			
5/23/2016						<0.005
7/11/2016	<0.005	0.002 (J)				
7/12/2016			0.0008 (J)			<0.005
8/30/2016	<0.005	0.0017 (J)	<0.005			
9/1/2016						<0.005
10/19/2016	<0.005	<0.005	<0.005			
10/24/2016						<0.005
12/6/2016	<0.005	<0.005	<0.005			
12/7/2016						<0.005
1/24/2017	<0.005	<0.005	<0.005			
1/26/2017						<0.005
3/21/2017	0.0005 (J)	<0.005	0.0007 (J)			
3/22/2017						<0.005
5/22/2017	<0.005	0.0006 (J)	0.0006 (J)			
5/24/2017						<0.005
4/2/2018	<0.005	<0.005				
4/3/2018			<0.005			
4/4/2018						<0.005
6/4/2018	<0.005	0.00088 (J)	0.0008 (J)			
6/5/2018						<0.005
10/1/2018	<0.005	<0.005	0.0011 (J)			
10/2/2018						<0.005
3/12/2019	<0.005	0.00069 (J)	0.00063 (J)			
3/13/2019						<0.005
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005				
4/3/2019						<0.005
9/23/2019	0.00046 (J)	0.00067 (J)	0.0011 (J)			
9/27/2019						<0.005
3/2/2020	<0.005	0.00043 (J)	0.0004 (J)			
3/3/2020						<0.005
3/25/2020	<0.005	<0.005	<0.005			
4/1/2020						<0.005
9/15/2020	<0.005	<0.005	<0.005			
9/16/2020				<0.005	<0.005	<0.005
11/10/2020				0.0021 (J)	<0.005	
12/15/2020				<0.005	<0.005	
1/19/2021				0.0011 (J)	<0.005	
2/8/2021	<0.005					
2/9/2021		<0.005	<0.005	0.0017 (JB)	0.00083 (J)	
2/15/2021						<0.005
3/10/2021	<0.005				<0.005	
3/11/2021		<0.005	<0.005	0.0013 (J)		
3/12/2021						<0.005
8/11/2021	<0.005			0.0015 (J)		
8/12/2021		<0.005	<0.005			
8/13/2021					<0.005	
8/17/2021						<0.005
2/1/2022	0.0016 (J)	0.0023 (J)	0.0024 (J)	0.0036 (J)	0.0025 (J)	
2/9/2022						<0.005



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	<0.005	
5/23/2016	<0.005	0.0046 (J)	0.329			<0.005
7/12/2016	0.0015 (J)	0.005	0.297	<0.005	<0.005	<0.005
9/1/2016	<0.005	0.0043 (J)	0.314	<0.005	<0.005	<0.005
10/20/2016				<0.005	<0.005	<0.005
10/24/2016	<0.005	0.0049 (J)	0.334			
12/6/2016				<0.005	<0.005	<0.005
12/7/2016	<0.005	0.0046 (J)	0.35			
1/25/2017				<0.005	<0.005	
1/26/2017	<0.005	<0.005	0.424			<0.005
3/21/2017				<0.005	<0.005	
3/22/2017	0.0053	0.0019 (J)	0.419			0.0008 (J)
5/23/2017				<0.005	<0.005	<0.005
5/24/2017	<0.005	0.0022 (J)	0.393			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	0.49			
6/5/2018	0.0012 (J)		0.38	<0.005		
6/6/2018		0.0048 (J)			<0.005	<0.005
10/2/2018				0.0019 (J)	<0.005	<0.005
10/3/2018	<0.005	0.0037 (J)				
10/5/2018			0.34			
3/12/2019					<0.005	
3/13/2019	0.0024 (J)		0.42	<0.005		0.00075 (J)
3/14/2019		0.0026 (J)				
4/2/2019				<0.005		
4/3/2019	0.00094 (J)	0.0022 (J)			<0.005	<0.005
4/5/2019			0.36			
9/24/2019					<0.005	
9/25/2019				<0.005		
9/26/2019			0.44			
9/27/2019	0.0018 (J)	0.0061				0.00037 (J)
3/3/2020	0.0022 (J)	0.0023 (J)			<0.005	
3/4/2020			0.52	<0.005		<0.005
3/26/2020		0.0028 (J)				
3/27/2020				<0.005	<0.005	
3/30/2020			0.47			
3/31/2020	0.0022 (J)					<0.005
9/16/2020				<0.005	<0.005	
9/17/2020						<0.005
9/18/2020	0.00081 (J)	0.0031 (J)				
9/21/2020			0.39			
2/10/2021				<0.005		
2/12/2021	0.002 (J)	0.0045 (J)				
2/16/2021					<0.005	<0.005
2/22/2021			0.45			
3/15/2021				<0.005	<0.005	
3/16/2021	0.0017 (J)	0.0038 (J)				<0.005
3/17/2021			0.39			
8/16/2021				<0.005		
8/17/2021						<0.005
8/18/2021	<0.005	0.0028 (J)			<0.005	
8/19/2021			0.31			

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.0047 (J)	0.0053				0.0021 (J)
2/10/2022			0.38	<0.005	0.002 (J)	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.0023 (J)	<0.005		<0.005	<0.005
3/14/2019	<0.005			0.0019 (J)		
4/2/2019		<0.005				
4/3/2019	<0.005			<0.005	<0.005	
4/4/2019						0.0002 (J)
4/8/2019			<0.005			
9/25/2019		<0.005				
9/26/2019			<0.005		<0.005	<0.005
9/27/2019	<0.005			0.0011 (J)		
3/2/2020		0.00038 (J)				
3/3/2020				0.001 (J)		
3/4/2020	0.00045 (J)		<0.005		0.0006 (J)	0.00069 (J)
3/26/2020	<0.005			0.00075 (J)		
3/27/2020		<0.005				
3/30/2020			<0.005			
3/31/2020					<0.005	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		<0.005
9/21/2020	<0.005		<0.005			
2/11/2021		0.00094 (J)				
2/12/2021	<0.005			<0.005		
2/16/2021			<0.005		0.0008 (J)	0.001 (J)
3/12/2021						<0.005
3/15/2021		<0.005				
3/16/2021				<0.005		
3/17/2021	<0.005		<0.005		<0.005	
8/17/2021		<0.005			<0.005	<0.005
8/18/2021	<0.005					
8/19/2021			<0.005	<0.005		
2/9/2022	<0.005			<0.005	0.0017 (J)	
2/10/2022		<0.005	<0.005			<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			<0.005	<0.005	<0.005
4/2/2019	<0.005	<0.005			
4/3/2019			<0.005	<0.005	<0.005
9/24/2019		<0.005			
9/25/2019			<0.005		
9/26/2019	<0.005			<0.005	<0.005
3/2/2020		<0.005	<0.005		
3/3/2020				<0.005	<0.005
3/4/2020	<0.005				
3/26/2020			<0.005		
3/27/2020	<0.005			<0.005	
3/30/2020		0.00037 (J)			<0.005
9/16/2020		<0.005			
9/17/2020			<0.005		
9/21/2020	<0.005			<0.005	<0.005
2/10/2021	0.0011 (J)				
2/15/2021		<0.005			<0.005
2/16/2021			<0.005	<0.005	
3/15/2021	<0.005	<0.005			<0.005
3/16/2021			<0.005	<0.005	
8/16/2021		<0.005			
8/17/2021			<0.005	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					<0.005
2/9/2022			0.0013 (J)	0.0034 (J)	
2/10/2022	<0.005	<0.005			

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	0.0346	0.114	0.111			
5/23/2016						0.0877
7/11/2016	0.0311	0.112				
7/12/2016			0.115			0.0926
8/30/2016	0.0293	0.131	0.113			
9/1/2016						0.0994
10/19/2016	0.0293	0.111	0.123			
10/24/2016						0.101
12/6/2016	0.0304	0.108	0.127			
12/7/2016						0.107
1/24/2017	0.028	0.102	0.126			
1/26/2017						0.0538
3/21/2017	0.0275	0.095	0.12			
3/22/2017						0.0962
5/22/2017	0.0281	0.103	0.117			
5/24/2017						0.0996
4/2/2018	0.026	0.099				
4/3/2018			0.11			
4/4/2018						0.084
6/4/2018	0.035	0.11	0.12			
6/5/2018						0.086
10/1/2018	0.029	0.11	0.14			
10/2/2018						0.076
3/12/2019	0.042	0.12	0.13			
3/13/2019						0.044
4/1/2019			0.13			
4/2/2019	0.04	0.13				
4/3/2019						0.076
9/23/2019	0.042	0.13	0.13			
9/27/2019						0.078
3/2/2020	0.034	0.11	0.14			
3/3/2020						0.048
3/25/2020	0.043	0.12	0.13			
4/1/2020						0.058
9/15/2020	0.035	0.12	0.12			
9/16/2020				0.26	0.24	0.068
11/10/2020				0.25	0.38	
12/15/2020				0.29	0.39	
1/19/2021				0.32	0.41	
2/8/2021	0.032					
2/9/2021		0.12	0.13	0.34	0.46	
2/15/2021						0.06
3/10/2021	0.03				0.26	
3/11/2021		0.07	0.13	0.32		
3/12/2021						0.058
8/11/2021	0.03			0.28		
8/12/2021		0.12	0.11			
8/13/2021					0.22	
8/17/2021						0.055
2/1/2022	0.031	0.13	0.12	0.29	0.23	
2/9/2022						0.042

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.0687	0.0808	
5/23/2016	0.0466	0.133	0.0779			0.117
7/12/2016	0.0616	0.135	0.0697	0.0731	0.083	0.13
9/1/2016	0.0497	0.123	0.07	0.0747	0.0829	0.13
10/20/2016				0.072	0.0811	0.0806
10/24/2016	0.0794	0.135	0.0882			
12/6/2016				0.0752	0.0845	0.128
12/7/2016	0.1	0.13	0.0798			
1/25/2017				0.0747	0.078	
1/26/2017	0.0696	0.127	0.0738			0.142
3/21/2017				0.0722	0.0791	
3/22/2017	0.0346	0.112	0.0755			0.122
5/23/2017				0.0794	0.0846	0.127
5/24/2017	0.0437	0.106	0.0627			
4/3/2018				0.075	0.065	0.1
4/4/2018	0.029	0.083	0.099			
6/5/2018	0.039		0.13	0.071		
6/6/2018		0.09			0.063	0.11
10/2/2018				0.078	0.061	0.11
10/3/2018	0.033	0.087				
10/5/2018			0.076			
3/12/2019					0.062	
3/13/2019	0.024		0.1	0.083		0.1
3/14/2019		0.081				
4/2/2019				0.072		
4/3/2019	0.023	0.077			0.066	0.12
4/5/2019			0.079			
9/24/2019					0.053	
9/25/2019				0.061		
9/26/2019			0.11			
9/27/2019	0.033	0.096				0.11
3/3/2020	0.022	0.092			0.052	
3/4/2020			0.1	0.068		0.11
3/26/2020		0.089				
3/27/2020				0.059	0.059	
3/30/2020			0.08			
3/31/2020	0.026					0.11
9/16/2020				0.068	0.06	
9/17/2020						0.11
9/18/2020	0.043	0.086				
9/21/2020			0.052			
2/10/2021				0.069		
2/12/2021	0.039	0.09				
2/16/2021					0.069	0.11
2/22/2021			0.061			
3/15/2021				0.074	0.063	
3/16/2021	0.035	0.084				0.11
3/17/2021			0.056			
8/16/2021				0.068		
8/17/2021						0.095
8/18/2021	0.04	0.083			0.062	
8/19/2021			0.049			

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.042	0.075				0.096
2/10/2022			0.053	0.063	0.056	

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.087	0.053		0.099	1.5
3/14/2019	0.06			0.44		
4/2/2019		0.08				
4/3/2019	0.05			0.38	0.12	
4/4/2019						1.2
4/8/2019			0.043			
9/25/2019		0.085				
9/26/2019			0.12		0.12	0.95
9/27/2019	0.068			0.39		
3/2/2020		0.099				
3/3/2020				0.42		
3/4/2020	0.069		0.081		0.17	0.95
3/26/2020	0.067			0.45		
3/27/2020		0.093				
3/30/2020			0.056			
3/31/2020					0.11	
4/2/2020						1
9/17/2020		0.096			0.099	
9/18/2020				0.44		1
9/21/2020	0.056		0.053			
2/11/2021		0.093				
2/12/2021	0.051			0.46		
2/16/2021			0.062		0.093	1
3/12/2021						1.1
3/15/2021		0.096				
3/16/2021				0.51		
3/17/2021	0.049		0.055		0.094	
8/17/2021		0.089			0.072	1.1
8/18/2021	0.045					
8/19/2021			0.048	0.58		
2/9/2022	0.042			0.6	0.066	
2/10/2022		0.082	0.048			0.99



# Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.82	0.089			
3/13/2019			0.056	0.1	0.063
4/2/2019	0.37	0.078			
4/3/2019			0.049	0.09	0.058
9/24/2019		0.081			
9/25/2019			0.046		
9/26/2019	0.15			0.089	0.066
3/2/2020		0.088	0.049		
3/3/2020				0.09	0.043
3/4/2020	0.77				
3/26/2020			0.046		
3/27/2020	0.64			0.086	
3/30/2020		0.08			0.05
9/16/2020		0.076			
9/17/2020			0.043		
9/21/2020	0.18			0.083	0.065
2/10/2021	0.26				
2/15/2021		0.081			0.048
2/16/2021			0.05	0.085	
3/15/2021	0.45	0.078			0.053
3/16/2021			0.046	0.081	
8/16/2021		0.074			
8/17/2021			0.045	0.081	0.057
8/18/2021	0.53				
2/8/2022					0.053
2/9/2022			0.042	0.074	
2/10/2022	0.76	0.072			

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.0005	<0.0005	<0.0005			
5/23/2016						<0.0005
7/11/2016	<0.0005	0.0001 (J)				
7/12/2016			<0.0005			<0.0005
8/30/2016	<0.0005	<0.0005	<0.0005			
9/1/2016						<0.0005
10/19/2016	<0.0005	0.0001 (J)	<0.0005			
10/24/2016						<0.0005
12/6/2016	<0.0005	0.0002 (J)	<0.0005			
12/7/2016						<0.0005
1/24/2017	<0.0005	0.0001 (J)	<0.0005			
1/26/2017						<0.0005
3/21/2017	<0.0005	0.0001 (J)	<0.0005			
3/22/2017						<0.0005
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/24/2017						<0.0005
4/2/2018	<0.0005	<0.0005				
4/3/2018			<0.0005			
4/4/2018						<0.0005
3/12/2019	<0.0005	0.00017 (J)	<0.0005			
3/13/2019						<0.0005
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)				
4/3/2019						<0.0005
9/23/2019	<0.0005	0.00011 (J)	<0.0005			
9/27/2019						<0.0005
3/2/2020	<0.0005	0.00014 (J)	<0.0005			
3/3/2020						<0.0005
3/25/2020	<0.0005	0.00016 (J)	<0.0005			
4/1/2020						<0.0005
9/15/2020	<0.0005	0.00013 (J)	<0.0005			
9/16/2020				<0.0005	<0.0005	<0.0005
11/10/2020				<0.0005	<0.0005	
12/15/2020				<0.0005	<0.0005	
1/19/2021				<0.0005	<0.0005	
2/8/2021	<0.0005					
2/9/2021		0.00014 (J)	<0.0005	<0.0005	<0.0005	
2/15/2021						<0.0005
3/10/2021	<0.0005				<0.0005	
3/11/2021		8.6E-05 (J)	<0.0005	<0.0005		
3/12/2021						<0.0005
8/11/2021	<0.0005			<0.0005		
8/12/2021		0.00014 (J)	<0.0005			
8/13/2021					<0.0005	
8/17/2021						<0.0005
2/1/2022	<0.0005	0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/9/2022						<0.0005

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0005	<0.0005	
5/23/2016	<0.0005	<0.0005	<0.0005			<0.0005
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/20/2016				<0.0005	<0.0005	<0.0005
10/24/2016	<0.0005	<0.0005	<0.0005			
12/6/2016				<0.0005	<0.0005	<0.0005
12/7/2016	<0.0005	<0.0005	<0.0005			
1/25/2017				<0.0005	<0.0005	
1/26/2017	<0.0005	<0.0005	<0.0005			<0.0005
3/21/2017				<0.0005	<0.0005	
3/22/2017	9E-05 (J)	<0.0005	<0.0005			<0.0005
5/23/2017				<0.0005	<0.0005	<0.0005
5/24/2017	<0.0005	<0.0005	<0.0005			
4/3/2018				<0.0005	<0.0005	<0.0005
4/4/2018	<0.0005	<0.0005	<0.0005			
3/12/2019					<0.0005	
3/13/2019	0.0001 (J)		6.2E-05 (J)	<0.0005		<0.0005
3/14/2019		<0.0005				
4/2/2019				<0.0005		
4/3/2019	0.00017 (J)	<0.0005			7.4E-05 (J)	<0.0005
4/5/2019			<0.0005			
9/24/2019					<0.0005	
9/25/2019				<0.0005		
9/26/2019			0.00011 (J)			
9/27/2019	8.6E-05 (J)	<0.0005				<0.0005
3/3/2020	0.00012 (J)	<0.0005			<0.0005	
3/4/2020			9.3E-05 (J)	7.7E-05 (J)		<0.0005
3/26/2020		<0.0005				
3/27/2020				<0.0005	<0.0005	
3/30/2020			9.9E-05 (J)			
3/31/2020	0.00015 (J)					<0.0005
9/16/2020				<0.0005	0.0001 (J)	
9/17/2020						<0.0005
9/18/2020	<0.0005	<0.0005				
9/21/2020			0.00011 (J)			
2/10/2021				8.1E-05 (J)		
2/12/2021	<0.0005	<0.0005				
2/16/2021					7.1E-05 (J)	<0.0005
2/22/2021			9.7E-05 (J)			
3/15/2021				0.00019 (J)	7.8E-05 (J)	
3/16/2021	8.1E-05 (J)	<0.0005				<0.0005
3/17/2021			9E-05 (J)			
8/16/2021				<0.0005		
8/17/2021						<0.0005
8/18/2021	<0.0005	<0.0005			8.7E-05 (J)	
8/19/2021			7.3E-05 (J)			
2/9/2022	<0.0005	<0.0005				<0.0005
2/10/2022			<0.0005	<0.0005	7.1E-05 (J)	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.0005	<0.0005		<0.0005	<0.0005
3/14/2019	<0.0005			<0.0005		
4/2/2019		<0.0005				
4/3/2019	<0.0005			<0.0005	<0.0005	
4/4/2019						<0.0005
4/8/2019			<0.0005			
9/25/2019		<0.0005				
9/26/2019			<0.0005		<0.0005	<0.0005
9/27/2019	<0.0005			<0.0005		
3/2/2020		<0.0005				
3/3/2020				<0.0005		
3/4/2020	<0.0005		<0.0005		<0.0005	<0.0005
3/26/2020	<0.0005			<0.0005		
3/27/2020		<0.0005				
3/30/2020			<0.0005			
3/31/2020					<0.0005	
4/2/2020						<0.0005
9/17/2020		<0.0005			<0.0005	
9/18/2020				<0.0005		<0.0005
9/21/2020	<0.0005		<0.0005			
2/11/2021		<0.0005				
2/12/2021	<0.0005			<0.0005		
2/16/2021			<0.0005		<0.0005	<0.0005
3/12/2021						<0.0005
3/15/2021		<0.0005				
3/16/2021				<0.0005		
3/17/2021	<0.0005		<0.0005		<0.0005	
8/17/2021		<0.0005			<0.0005	<0.0005
8/18/2021	5.8E-05 (J)					
8/19/2021			<0.0005	<0.0005		
2/9/2022	<0.0005			<0.0005	<0.0005	
2/10/2022		<0.0005	<0.0005			<0.0005

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.0005	<0.0005			
3/13/2019			<0.0005	<0.0005	<0.0005
4/2/2019	<0.0005	<0.0005			
4/3/2019			<0.0005	<0.0005	5.1E-05 (J)
9/24/2019		<0.0005			
9/25/2019			<0.0005		
9/26/2019	<0.0005			<0.0005	<0.0005
3/2/2020		<0.0005	<0.0005		
3/3/2020				<0.0005	<0.0005
3/4/2020	0.00014 (J)				
3/26/2020			<0.0005		
3/27/2020	<0.0005			<0.0005	
3/30/2020		<0.0005			<0.0005
9/16/2020		<0.0005			
9/17/2020			<0.0005		
9/21/2020	<0.0005			<0.0005	<0.0005
2/10/2021	5.4E-05 (J)				
2/15/2021		<0.0005			<0.0005
2/16/2021			<0.0005	<0.0005	
3/15/2021	4.8E-05 (J)	<0.0005			<0.0005
3/16/2021			<0.0005	<0.0005	
8/16/2021		<0.0005			
8/17/2021			<0.0005	<0.0005	<0.0005
8/18/2021	<0.0005				
2/8/2022					<0.0005
2/9/2022			<0.0005	<0.0005	
2/10/2022	<0.0005	<0.0005			

# Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	0.0214 (J)	0.0321 (J)	<0.04			
5/23/2016						0.72
7/11/2016	0.0142 (J)	0.0337 (J)				
7/12/2016			0.0074 (J)			0.778
8/30/2016	0.0074 (J)	0.0173 (J)	<0.04			
9/1/2016						0.786
10/19/2016	0.0224 (J)	0.0341 (J)	0.0085 (J)			
10/24/2016						0.831
12/6/2016	0.0211 (J)	0.0326 (J)	0.0085 (J)			
12/7/2016						1.01
1/24/2017	0.0165 (J)	0.0365 (J)	0.01 (J)			
1/26/2017						0.108
3/21/2017	0.0187 (J)	0.0349 (J)	0.0079 (J)			
3/22/2017						0.788
5/22/2017	0.0782	0.0475	0.0131 (J)			
5/24/2017						0.814
10/3/2017	0.0198 (J)	0.0386 (J)	0.0097 (J)			0.871
6/4/2018	0.02 (J)	0.036 (J)	0.017 (J)			
6/5/2018						1.2
10/1/2018	0.013 (J)	0.035 (J)	0.0061 (J)			
10/2/2018						0.62
4/1/2019			0.0066 (J)			
4/2/2019	0.016 (J)	0.034 (J)				
4/3/2019						0.66
9/23/2019	0.021 (J)	0.04 (J)	0.0081 (J)			
9/27/2019						1
3/25/2020	0.025 (J)	0.039 (J)	0.0096 (J)			
4/1/2020						0.23
6/16/2020	0.021 (J)		0.01 (J)			
9/15/2020	0.017 (J)	0.044 (J)	0.0071 (J)			
9/16/2020				0.061 (J)	0.23	1.1
11/10/2020				0.057 (J)	0.29	
12/15/2020				0.052 (J)	0.31	
1/19/2021				0.049 (J)	0.4	
3/10/2021	0.015 (J)				0.39	
3/11/2021		0.056	0.015 (J)	0.06		
3/12/2021						0.64
8/11/2021	0.02 (J)			0.042		
8/12/2021		0.044	<0.04			
8/13/2021					0.31	
8/17/2021						0.88
2/1/2022	0.016 (J)	0.056	0.011 (J)	0.05	0.44	
2/9/2022						0.1

# Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.885	1.71	
5/23/2016	0.787	2.2	2.15			1.76
7/12/2016	1.17	1.98	1.91	0.857	1.43	1.56
9/1/2016	1.49	2.28	2.3	0.904	1.91	2
10/20/2016				0.936	1.72	1.68
10/24/2016	2.54	2.75	4.01			
12/6/2016				1.06	2.06	2.15
12/7/2016	2.96	3.35	3.85			
1/25/2017				0.764	2.01	
1/26/2017	2.23	3.07	2.45			1.87
3/21/2017				0.857	2.08	
3/22/2017	0.84	3.04	1.99			1.99
5/23/2017				0.91	2.32	2.29
5/24/2017	2.29	2.95	1.74			
10/3/2017	1.47	2.35	1.43	0.967	2.84	2.05
6/5/2018	1.3		1.3	0.86		
6/6/2018		2.5			2.6	2.3
10/2/2018				0.98	2.7	2.5
10/3/2018	0.91	2.3				
10/5/2018			1.6			
4/2/2019				0.99		
4/3/2019	0.23	1.8			2.8	2.3
4/5/2019			0.86 (J)			
9/24/2019					2.8	
9/25/2019				1.1		
9/26/2019			1.7			
9/27/2019	0.53	2.1				2.9
3/26/2020		1.6				
3/27/2020				1.2	2.4	
3/30/2020			1.8			
3/31/2020	0.17					2.2
6/16/2020					2.2	
6/17/2020				1		
9/16/2020				1.1	1.9	
9/17/2020						2
9/18/2020	0.91	1.6				
9/21/2020			1.6			
3/15/2021				1.1	1.7	
3/16/2021	0.53	1.9				2.2
3/17/2021			0.89			
8/16/2021				1.1		
8/17/2021						2.3
8/18/2021	0.91	1.9			1.8	
8/19/2021			0.73			
2/9/2022	1	2				2.3
2/10/2022			1	1.3	1.7	

# Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		0.11				
4/3/2019	0.63			0.37	1.5	
4/4/2019						0.12 (J)
4/8/2019			0.47 (J)			
9/25/2019		0.091				
9/26/2019			0.49		2	0.14
9/27/2019	0.58			0.36		
3/26/2020	1			0.44		
3/27/2020		0.12				
3/30/2020			0.51			
3/31/2020					1.8	
4/2/2020						0.13
9/17/2020		0.11			2	
9/18/2020				0.36		0.12
9/21/2020	0.89		0.45			
3/12/2021						0.13
3/15/2021		0.12				
3/16/2021				0.4		
3/17/2021	0.69		0.49		2.1	
8/17/2021		0.11			2.2	0.14
8/18/2021	0.55					
8/19/2021			0.52	0.4		
2/9/2022	0.49			0.43	2.3	
2/10/2022		0.13	0.55			0.13



# Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	0.17	1.2			
4/3/2019			0.03 (J)	0.67	0.094
9/24/2019		1.2			
9/25/2019			0.11		
9/26/2019	0.6			0.93	0.26
3/26/2020			0.041 (J)		
3/27/2020	0.14			0.77	
3/30/2020		1.3			0.051 (J)
9/16/2020		1.7			
9/17/2020			0.067 (J)		
9/21/2020	0.45			0.82	0.2
3/15/2021	0.36	1.2			0.16
3/16/2021			0.037 (J)	0.81	
8/16/2021		1.1			
8/17/2021			0.026 (J)	0.85	0.2
8/18/2021	0.72				
2/8/2022					0.19
2/9/2022			0.042	0.96	
2/10/2022	0.23	1.4			

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.0005	<0.0005	<0.0005			
5/23/2016						0.000115 (J)
7/11/2016	<0.0005	<0.0005				
7/12/2016			<0.0005			<0.0005
8/30/2016	<0.0005	<0.0005	<0.0005			
9/1/2016						0.0001 (J)
10/19/2016	<0.0005	<0.0005	<0.0005			
10/24/2016						0.0001 (J)
12/6/2016	<0.0005	<0.0005	<0.0005			
12/7/2016						0.0001 (J)
1/24/2017	<0.0005	0.0001 (J)	<0.0005			
1/26/2017						<0.0005
3/21/2017	<0.0005	7E-05 (J)	<0.0005			
3/22/2017						0.0001 (J)
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/24/2017						0.0002 (J)
4/2/2018	<0.0005	<0.0005				
4/3/2018			<0.0005			
4/4/2018						<0.0005
3/12/2019	<0.0005	0.00013 (J)	<0.0005			
3/13/2019						<0.0005
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)				
4/3/2019						0.0001 (J)
9/23/2019	<0.0005	<0.0005	<0.0005			
9/27/2019						<0.0005
3/2/2020	<0.0005	<0.0005	<0.0005			
3/3/2020						<0.0005
3/25/2020	<0.0005	0.00014 (J)	<0.0005			
4/1/2020						<0.0005
9/15/2020	<0.0005	0.00012 (J)	<0.0005			
9/16/2020				<0.0005	<0.0005	<0.0005
11/10/2020				<0.0005	<0.0005	
12/15/2020				<0.0005	<0.0005	
1/19/2021				<0.0005	<0.0005	
2/8/2021	<0.0005					
2/9/2021		0.00016 (J)	<0.0005	<0.0005	<0.0005	
2/15/2021						<0.0005
3/10/2021	<0.0005				<0.0005	
3/11/2021		<0.0005	<0.0005	<0.0005		
3/12/2021						<0.0005
8/11/2021	<0.0005			<0.0005		
8/12/2021		0.00014 (J)	<0.0005			
8/13/2021					<0.0005	
8/17/2021						<0.0005
2/1/2022	<0.0005	0.00017 (J)	<0.0005	<0.0005	<0.0005	
2/9/2022						<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0005	0.00024 (J)	
5/23/2016	<0.0005	<0.0005	<0.0005			<0.0005
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005	0.0002 (J)	<0.0005
9/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	0.0001 (J)	<0.0005
10/20/2016				<0.0005	0.0001 (J)	0.0002 (J)
10/24/2016	<0.0005	<0.0005	<0.0005			
12/6/2016				0.0002 (J)	0.0017	0.0001 (J)
12/7/2016	0.0001 (J)	0.0002 (J)	<0.0005			
1/25/2017				0.0002 (J)	0.0002 (J)	
1/26/2017	<0.0005	<0.0005	<0.0005			<0.0005
3/21/2017				0.0002 (J)	0.0002 (J)	
3/22/2017	0.0001 (J)	0.0003 (J)	<0.0005			7E-05 (J)
5/23/2017				0.0001 (J)	0.0003 (J)	<0.0005
5/24/2017	<0.0005	9E-05 (J)	<0.0005			
4/3/2018				<0.0005	<0.0005	<0.0005
4/4/2018	<0.0005	<0.0005	<0.0005			
3/12/2019					0.0002 (J)	
3/13/2019	<0.0005		<0.0005	<0.0005		<0.0005
3/14/2019		<0.0005				
4/2/2019				<0.0005		
4/3/2019	9.6E-05 (J)	<0.0005			0.00032 (J)	<0.0005
4/5/2019			<0.0005			
9/24/2019					0.0002 (J)	
9/25/2019				<0.0005		
9/26/2019			<0.0005			
9/27/2019	<0.0005	<0.0005				<0.0005
3/3/2020	<0.0005	0.00015 (J)			0.00017 (J)	
3/4/2020			<0.0005	<0.0005		<0.0005
3/26/2020		<0.0005				
3/27/2020				<0.0005	0.00014 (J)	
3/30/2020			<0.0005			
3/31/2020	<0.0005					<0.0005
9/16/2020				<0.0005	0.00023 (J)	
9/17/2020						<0.0005
9/18/2020	<0.0005	<0.0005				
9/21/2020			<0.0005			
2/10/2021				<0.0005		
2/12/2021	<0.0005	<0.0005				
2/16/2021					0.00037 (J)	<0.0005
2/22/2021			<0.0005			
3/15/2021				<0.0005	0.00017 (J)	
3/16/2021	<0.0005	<0.0005				<0.0005
3/17/2021			<0.0005			
8/16/2021				<0.0005		
8/17/2021						<0.0005
8/18/2021	<0.0005	<0.0005			0.0002 (J)	
8/19/2021			<0.0005			
2/9/2022	<0.0005	<0.0005				<0.0005
2/10/2022			<0.0005	<0.0005	0.00029 (J)	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.0005	<0.0005		<0.0005	<0.0005
3/14/2019	<0.0005			<0.0005		
4/2/2019		<0.0005				
4/3/2019	<0.0005			<0.0005	<0.0005	
4/4/2019						<0.0005
4/8/2019			<0.0005			
9/25/2019		<0.0005				
9/26/2019			<0.0005		<0.0005	<0.0005
9/27/2019	0.00013 (J)			<0.0005		
3/2/2020		<0.0005				
3/3/2020				<0.0005		
3/4/2020	0.00026 (J)		<0.0005		<0.0005	<0.0005
3/26/2020	0.00019 (J)			<0.0005		
3/27/2020		<0.0005				
3/30/2020			<0.0005			
3/31/2020					<0.0005	
4/2/2020						<0.0005
9/17/2020		<0.0005			<0.0005	
9/18/2020				<0.0005		<0.0005
9/21/2020	0.00018 (J)		<0.0005			
2/11/2021		<0.0005				
2/12/2021	0.0002 (J)			<0.0005		
2/16/2021			<0.0005		<0.0005	<0.0005
3/12/2021						<0.0005
3/15/2021		<0.0005				
3/16/2021				<0.0005		
3/17/2021	0.00016 (J)		<0.0005		<0.0005	
8/17/2021		<0.0005			<0.0005	<0.0005
8/18/2021	0.00027 (J)					
8/19/2021			<0.0005	<0.0005		
2/9/2022	0.0011			<0.0005	<0.0005	
2/10/2022		<0.0005	<0.0005			<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.0005	<0.0005			
3/13/2019			<0.0005	<0.0005	<0.0005
4/2/2019	<0.0005	<0.0005			
4/3/2019			<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005			
9/25/2019			<0.0005		
9/26/2019	<0.0005			<0.0005	<0.0005
3/2/2020		<0.0005	<0.0005		
3/3/2020				<0.0005	<0.0005
3/4/2020	<0.0005				
3/26/2020			<0.0005		
3/27/2020	<0.0005			<0.0005	
3/30/2020		<0.0005			<0.0005
9/16/2020		<0.0005			
9/17/2020			<0.0005		
9/21/2020	<0.0005			<0.0005	<0.0005
2/10/2021	<0.0005				
2/15/2021		<0.0005			<0.0005
2/16/2021			<0.0005	<0.0005	
3/15/2021	<0.0005	<0.0005			<0.0005
3/16/2021			<0.0005	<0.0005	
8/16/2021		<0.0005			
8/17/2021			<0.0005	<0.0005	<0.0005
8/18/2021	<0.0005				
2/8/2022					<0.0005
2/9/2022			<0.0005	<0.0005	
2/10/2022	<0.0005	<0.0005			

# Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	138	22.9	76.2			
5/23/2016						167
7/11/2016	97.2	22.3				
7/12/2016			61.5			143
8/30/2016	97.5	26.4	65.1			
9/1/2016						156
10/19/2016	99.2	21.7	73.2			
10/24/2016						156
12/6/2016	105	18.2	74.9			
12/7/2016						183
1/24/2017	95.7	18.5	69.6			
1/26/2017						82.6
3/21/2017	106	18.6	75.7			
3/22/2017						154
5/22/2017	107	17.8	71.5			
5/24/2017						171
10/3/2017	102	20.2	76.3			162
6/4/2018	124	19.1	73.4			
6/5/2018						167
10/1/2018	108	20.5 (J)	80.9			
10/2/2018						144
4/1/2019			80.5			
4/2/2019	132	22.5 (J)				
4/3/2019						137
9/23/2019	118	19.5	71			
9/27/2019						157
3/25/2020	127	23	89.8			
4/1/2020						96.2
6/16/2020	130		85.1			
9/15/2020	103	21.1	73.1			
9/16/2020				56	30	139
11/10/2020				63.3	33.6	
12/15/2020				62.6	28.7	
1/19/2021				60.1	33	
3/10/2021	111				5.9	
3/11/2021		43.8	83.8	59.6		
3/12/2021						146 (M1)
8/11/2021	113			61		
8/12/2021		21.9	84			
8/13/2021					28.9	
8/17/2021						153
2/1/2022	106	27.2	85.1	55.9	24.8	
2/9/2022						76.8

# Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				117	159	
5/23/2016	131	195	133			179
7/12/2016	124	181	101	88.8	127	174
9/1/2016	107	179	120	96.3	135	170
10/20/2016				96.9	134	133
10/24/2016	145	193	127			
12/6/2016				104	142	181
12/7/2016	159	193	113			
1/25/2017				94.5	142	
1/26/2017	121	172	77.9			175
3/21/2017				109	148	
3/22/2017	130	162	85.1			183
5/23/2017				93.3	140	181
5/24/2017	117	158	77.1			
10/3/2017	87.7	130	62	108	158	188
6/5/2018	113		110	99.8		
6/6/2018		136			127	184
10/2/2018				108	118	173
10/3/2018	89	125				
10/5/2018			73.6			
4/2/2019				101		
4/3/2019	112	114			125	164
4/5/2019			77.1			
9/24/2019					113	
9/25/2019				105		
9/26/2019			195			
9/27/2019	113	153				175
3/26/2020		145				
3/27/2020				119	133	
3/30/2020			234			
3/31/2020	124					182
6/16/2020					120	
6/17/2020				112		
9/16/2020				98	119	
9/17/2020						164
9/18/2020	122	163				
9/21/2020			173			
3/15/2021				113	156	
3/16/2021	132	166				182
3/17/2021			184			
8/16/2021				112		
8/17/2021						183
8/18/2021	128	163			147	
8/19/2021			179			
2/9/2022	144	172				183
2/10/2022			206	108	153	

# Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		109				
4/3/2019	74.9			25.4	122	
4/4/2019						26.3
4/8/2019			83			
9/25/2019		113				
9/26/2019			83.1		158	32.1
9/27/2019	90			26.4		
3/26/2020	171			27		
3/27/2020		126				
3/30/2020			84.4			
3/31/2020					155	
4/2/2020						28.4
9/17/2020		110			150	
9/18/2020				25.1		24.8
9/21/2020	135		87.6			
3/12/2021						28
3/15/2021		121				
3/16/2021				24.8		
3/17/2021	130		102		175	
8/17/2021		123			177	28.5
8/18/2021	125					
8/19/2021			99.5	23.8		
2/9/2022	97.6			23.5	176	
2/10/2022		123	110			31.4



# Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	64.6	131			
4/3/2019			82	178	50.2
9/24/2019		140			
9/25/2019			105		
9/26/2019	84			189	83.9
3/26/2020			89.6		
3/27/2020	53			186	
3/30/2020		148			31.1
9/16/2020		126			
9/17/2020			103		
9/21/2020	76.8			173	75.3
3/15/2021	66.1	145			76.9
3/16/2021			71.8	184	
8/16/2021		140			
8/17/2021			73.3	181	90.7
8/18/2021	82.8				
2/8/2022					73.3
2/9/2022			68.1	178	
2/10/2022	58.5	156			

# Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	9.94	6.14	5.93			
5/23/2016						56.1
7/11/2016	6.3	5.9				
7/12/2016			6.2			63
8/30/2016	6	6.2	6.4			
9/1/2016						77
10/19/2016	5.8	6.1	6.5			
10/24/2016						99
12/6/2016	5.4	6	7.2			
12/7/2016						96
1/24/2017	5.2	6.1	6.4			
1/26/2017						7
3/21/2017	4.6	5.9	7.5			
3/22/2017						82
5/22/2017	4.6	5.9	6.5			
5/24/2017						81
10/3/2017	5.6	6.3	6.5			100
6/4/2018	13.1	6.1	6.3			
6/5/2018						66.6
10/1/2018	6.6	6.4	6.4			
10/2/2018						48.3
4/1/2019			6.5			
4/2/2019	20.3	5.8				
4/3/2019						49.3
9/23/2019	17.7	5.1	5.9			
9/27/2019						49.9
3/25/2020	20.4	5.2	6.1			
4/1/2020						5.4
6/16/2020	41.1		5.8			
9/15/2020	13.4	5	6			
9/16/2020				4.1	7.2	39.7
11/10/2020				4.4	7.8	
12/15/2020				4.7	9.4	
1/19/2021				4.1	9.5	
3/10/2021	7.4				12.3	
3/11/2021		5.1	5.9	4.5		
3/12/2021						35
8/11/2021	9.6			3.5		
8/12/2021		5.2	4.8			
8/13/2021					39.9	
8/17/2021						28.3
2/1/2022	7.5	7	5.7	4.1	44.8	
2/9/2022						1.2

# Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				50.4	109	
5/23/2016	51.9	160	93.2			152
7/12/2016	100	160	78	50	110	160
9/1/2016	58	140	100	50	110	160
10/20/2016				49	110	110
10/24/2016	220	160	140			
12/6/2016				51	100	150
12/7/2016	180	190	110			
1/25/2017				54	110	
1/26/2017	90	160	70			170
3/21/2017				46	110	
3/22/2017	37	130	59			160
5/23/2017				49	130	150
5/24/2017	69	120	50			
10/3/2017	28	93	29	52	130	160
6/5/2018	56.1		72.3	52.3		
6/6/2018		46.4			44.8	138
10/2/2018				52.6	89.4	142
10/3/2018	24.8	88.4				
10/5/2018			32.3			
4/2/2019				55.5		
4/3/2019	4.6	62.8			91.6	130
4/5/2019			36.4			
9/24/2019					60.2	
9/25/2019				49.8		
9/26/2019			109			
9/27/2019	27.9	81				126
3/26/2020		48				
3/27/2020				48.3	79.8	
3/30/2020			75.1			
3/31/2020	3.2					105
6/16/2020					67.9	
6/17/2020				45.2		
9/16/2020				46.4	74.6	
9/17/2020						105
9/18/2020	34.9	74.6				
9/21/2020			41.2			
3/15/2021				44.5	72.4	
3/16/2021	11.5	56.8				94.7
3/17/2021			31.4			
8/16/2021				40.3		
8/17/2021						88.6
8/18/2021	19.9	47.3			50.9	
8/19/2021			24.4			
2/9/2022	20.4	46.8				84.4
2/10/2022			17.4	39.8	48.2	

# Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		27.5				
4/3/2019	19.5			32	90.6	
4/4/2019						26.9
4/8/2019			43.3			
9/25/2019		25.7				
9/26/2019			39.7		118	31.8
9/27/2019	46.2			36.2		
3/26/2020	64			34.6		
3/27/2020		28.8				
3/30/2020			37.4			
3/31/2020					98	
4/2/2020						27.9
9/17/2020		29.7			103	
9/18/2020				33.4		30.4
9/21/2020	35		45.2			
3/12/2021						31.3
3/15/2021		31.1				
3/16/2021				29.2		
3/17/2021	19.8		42.9		95.3	
8/17/2021		28.3			89.2	30
8/18/2021	14.3					
8/19/2021			37.2	30.8		
2/9/2022	10.2			26.5	85.7	
2/10/2022		31.4	38.2			31.4

# Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	44	80.9			
4/3/2019			1.8	60.9	5.6
9/24/2019		83.8			
9/25/2019			35.9		
9/26/2019	43.5			64.9	15.6
3/26/2020			0.73 (J)		
3/27/2020	33			48.6	
3/30/2020		71.2			1.5
9/16/2020		75.3			
9/17/2020			28.7		
9/21/2020	42.9			58.1	11.1
3/15/2021	35.8	73.6			6.8
3/16/2021			1.4	49.8	
8/16/2021		68			
8/17/2021			1.4	43.5	8.9
8/18/2021	33.7				
2/8/2022					6.9
2/9/2022			0.74 (J)	37.9	
2/10/2022	29	66			

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.005	<0.005	<0.005			
5/23/2016						<0.005
7/11/2016	<0.005	<0.005				
7/12/2016			<0.005			<0.005
8/30/2016	<0.005	<0.005	<0.005			
9/1/2016						<0.005
10/19/2016	<0.005	<0.005	<0.005			
10/24/2016						<0.005
12/6/2016	<0.005	<0.005	<0.005			
12/7/2016						<0.005
1/24/2017	<0.005	<0.005	<0.005			
1/26/2017						<0.005
3/21/2017	0.0005 (J)	<0.005	<0.005			
3/22/2017						<0.005
5/22/2017	<0.005	<0.005	0.0007 (J)			
5/24/2017						<0.005
4/2/2018	<0.005	<0.005				
4/3/2018			<0.005			
4/4/2018						<0.005
3/12/2019	<0.005	<0.005	<0.005			
3/13/2019						<0.005
4/1/2019			<0.005			
4/2/2019	<0.005	0.0079 (J)				
4/3/2019						0.02
9/23/2019	<0.005	0.00058 (J)	<0.005			
9/27/2019						<0.005
3/2/2020	<0.005	0.00041 (J)	<0.005			
3/3/2020						<0.005
3/25/2020	0.00072 (J)	<0.005	<0.005			
4/1/2020						<0.005
9/15/2020	<0.005	<0.005	<0.005			
9/16/2020				<0.005	0.0012 (J)	<0.005
11/10/2020				<0.005	0.00089 (J)	
12/15/2020				<0.005	0.00072 (J)	
1/19/2021				<0.005	0.0011 (J)	
2/8/2021	<0.005					
2/9/2021		<0.005	<0.005	0.00095 (J)	0.00066 (J)	
2/15/2021						<0.005
3/10/2021	<0.005				<0.005	
3/11/2021		<0.005	<0.005	<0.005		
3/12/2021						<0.005
8/11/2021	<0.005			<0.005		
8/12/2021		<0.005	<0.005			
8/13/2021					0.0016 (J)	
8/17/2021						<0.005
2/1/2022	<0.005	<0.005	<0.005	<0.005	0.0013 (J)	
2/9/2022						0.0011 (J)

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	<0.005	
5/23/2016	<0.005	<0.005	<0.005			<0.005
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016				<0.005	<0.005	<0.005
10/24/2016	<0.005	<0.005	<0.005			
12/6/2016				<0.005	<0.005	<0.005
12/7/2016	<0.005	<0.005	<0.005			
1/25/2017				<0.005	<0.005	
1/26/2017	<0.005	<0.005	<0.005			<0.005
3/21/2017				<0.005	0.0005 (J)	
3/22/2017	0.0003 (J)	0.0004 (J)	0.0004 (J)			<0.005
5/23/2017				<0.005	<0.005	<0.005
5/24/2017	<0.005	<0.005	<0.005			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005			
3/12/2019					<0.005	
3/13/2019	<0.005		<0.005	<0.005		<0.005
3/14/2019		0.0025 (J)				
4/2/2019				<0.005		
4/3/2019	<0.005	<0.005			<0.005	<0.005
4/5/2019			<0.005			
9/24/2019					<0.005	
9/25/2019				0.071		
9/26/2019			<0.005			
9/27/2019	<0.005	<0.005				<0.005
3/3/2020	0.00061 (J)	<0.005			0.0007 (J)	
3/4/2020			<0.005	0.0016 (J)		<0.005
3/26/2020		<0.005				
3/27/2020				0.0004 (J)	<0.005	
3/30/2020			0.00059 (J)			
3/31/2020	<0.005					0.00052 (J)
9/16/2020				0.00074 (J)	0.0015 (J)	
9/17/2020						<0.005
9/18/2020	<0.005	0.00091 (J)				
9/21/2020			0.00056 (J)			
2/10/2021				0.0014 (J)		
2/12/2021	<0.005	<0.005				
2/16/2021					<0.005	0.00067 (J)
2/22/2021			<0.005			
3/15/2021				0.0021 (J)	0.00082 (J)	
3/16/2021	<0.005	<0.005				<0.005
3/17/2021			<0.005			
8/16/2021				<0.005		
8/17/2021						<0.005
8/18/2021	<0.005	<0.005			<0.005	
8/19/2021			<0.005			
2/9/2022	<0.005	<0.005				0.0011 (J)
2/10/2022			<0.005	<0.005	<0.005	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.005	<0.005		<0.005	<0.005
3/14/2019	<0.005			<0.005		
4/2/2019		<0.005				
4/3/2019	<0.005			<0.005	<0.005	
4/4/2019						<0.005
4/8/2019			<0.005			
9/25/2019		<0.005				
9/26/2019			0.00042 (J)		0.00076 (J)	<0.005
9/27/2019	<0.005			<0.005		
3/2/2020		0.00071 (J)				
3/3/2020				<0.005		
3/4/2020	0.00066 (J)		<0.005		0.0028 (J)	<0.005
3/26/2020	0.00047 (J)			0.00061 (J)		
3/27/2020		0.00051 (J)				
3/30/2020			<0.005			
3/31/2020					0.001 (J)	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		0.0007 (J)
9/21/2020	0.0014 (J)		<0.005			
2/11/2021		<0.005				
2/12/2021	0.00059 (J)			<0.005		
2/16/2021			<0.005		0.001 (J)	0.00082 (J)
3/12/2021						<0.005
3/15/2021		0.00068 (J)				
3/16/2021				<0.005		
3/17/2021	0.0022 (J)		0.0017 (J)		0.0015 (J)	
8/17/2021		<0.005			<0.005	<0.005
8/18/2021	<0.005					
8/19/2021			<0.005	<0.005		
2/9/2022	<0.005			<0.005	<0.005	
2/10/2022		<0.005	<0.005			<0.005



# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			0.003 (J)	<0.005	<0.005
4/2/2019	<0.005	<0.005			
4/3/2019			0.003 (J)	<0.005	0.0023 (J)
9/24/2019		<0.005			
9/25/2019			0.0052 (J)		
9/26/2019	0.00081 (J)			<0.005	0.0013 (J)
3/2/2020		<0.005	0.0042 (J)		
3/3/2020				0.00044 (J)	0.0015 (J)
3/4/2020	0.0027 (J)				
3/26/2020			0.0044 (J)		
3/27/2020	<0.005			0.00059 (J)	
3/30/2020		0.001 (J)			0.0021 (J)
9/16/2020		<0.005			
9/17/2020			0.0021 (J)		
9/21/2020	0.00085 (J)			<0.005	0.0017 (J)
2/10/2021	0.0014 (J)				
2/15/2021		<0.005			0.0015 (J)
2/16/2021			0.0032 (J)	<0.005	
3/15/2021	0.00078 (J)	<0.005			0.0018 (J)
3/16/2021			0.0024 (J)	<0.005	
8/16/2021		<0.005			
8/17/2021			0.0018 (J)	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					0.0016 (J)
2/9/2022			0.0031 (J)	<0.005	
2/10/2022	0.0011 (J)	<0.005			

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.005	0.0293	<0.005			
5/23/2016						<0.005
7/11/2016	0.0004 (J)	0.0267				
7/12/2016			<0.005			0.0006 (J)
8/30/2016	<0.005	0.028	<0.005			
9/1/2016						0.0007 (J)
10/19/2016	<0.005	0.0201	<0.005			
10/24/2016						0.0009 (J)
12/6/2016	<0.005	0.0184	<0.005			
12/7/2016						0.0012 (J)
1/24/2017	<0.005	0.0206	<0.005			
1/26/2017						<0.005
3/21/2017	<0.005	0.0251	<0.005			
3/22/2017						0.0006 (J)
5/22/2017	<0.005	0.0263	<0.005			
5/24/2017						0.0006 (J)
4/2/2018	<0.005	0.019				
4/3/2018			<0.005			
4/4/2018						<0.005
3/12/2019	<0.005	0.017	<0.005			
3/13/2019						<0.005
4/1/2019			<0.005			
4/2/2019	<0.005	0.019				
4/3/2019						<0.005
9/23/2019	<0.005	0.038	<0.005			
9/27/2019						<0.005
3/2/2020	<0.005	0.019	<0.005			
3/3/2020						<0.005
3/25/2020	<0.005	0.02	<0.005			
4/1/2020						<0.005
9/15/2020	<0.005	0.021	<0.005			
9/16/2020				<0.005	<0.005	<0.005
11/10/2020				<0.005	<0.005	
12/15/2020				<0.005	<0.005	
1/19/2021				<0.005	<0.005	
2/8/2021	<0.005					
2/9/2021		0.02	<0.005	<0.005	<0.005	
2/15/2021						<0.005
3/10/2021	<0.005				<0.005	
3/11/2021		0.013	<0.005	<0.005		
3/12/2021						<0.005
8/11/2021	<0.005			<0.005		
8/12/2021		0.022	<0.005			
8/13/2021					<0.005	
8/17/2021						<0.005
2/1/2022	<0.005	0.025	<0.005	<0.005	<0.005	
2/9/2022						<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	0.00207 (J)	
5/23/2016	<0.005	<0.005	0.00361 (J)			<0.005
7/12/2016	0.0021 (J)	0.0018 (J)	0.0032 (J)	0.0003 (J)	0.0019 (J)	0.0006 (J)
9/1/2016	0.0025 (J)	0.0016 (J)	0.0033 (J)	<0.005	0.0023 (J)	0.0007 (J)
10/20/2016				0.0008 (J)	0.002 (J)	0.002 (J)
10/24/2016	0.0032 (J)	0.0017 (J)	0.004 (J)			
12/6/2016				0.0009 (J)	0.0026 (J)	0.0011 (J)
12/7/2016	0.003 (J)	0.0021 (J)	0.0034 (J)			
1/25/2017				0.0005 (J)	0.002 (J)	
1/26/2017	0.0014 (J)	0.0016 (J)	0.0024 (J)			0.0006 (J)
3/21/2017				0.0005 (J)	0.0023 (J)	
3/22/2017	0.0014 (J)	0.0018 (J)	0.0026 (J)			0.0005 (J)
5/23/2017				0.0005 (J)	0.0023 (J)	0.0006 (J)
5/24/2017	0.0008 (J)	0.0015 (J)	0.0022 (J)			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005			
3/12/2019					0.002 (J)	
3/13/2019	0.00098 (J)		0.0022 (J)	0.00067 (J)		0.00065 (J)
3/14/2019		0.0011 (J)				
4/2/2019				0.00069 (J)		
4/3/2019	0.0018 (J)	0.0011 (J)			0.0019 (J)	0.00069 (J)
4/5/2019			0.0017 (J)			
9/24/2019					0.0015 (J)	
9/25/2019				0.0026 (J)		
9/26/2019			0.0042 (J)			
9/27/2019	0.00071 (J)	0.0012 (J)				0.00057 (J)
3/3/2020	0.00087 (J)	0.0013 (J)			0.002 (J)	
3/4/2020			0.0066	0.0011 (J)		0.00053 (J)
3/26/2020		0.0012 (J)				
3/27/2020				0.00074 (J)	0.0018 (J)	
3/30/2020			0.0053			
3/31/2020	0.0014 (J)					0.00051 (J)
9/16/2020				0.00065 (J)	0.0019 (J)	
9/17/2020						0.0007 (J)
9/18/2020	<0.005	0.0014 (J)				
9/21/2020			0.0032 (J)			
2/10/2021				0.00081 (J)		
2/12/2021	<0.005	0.0012 (J)				
2/16/2021					0.002 (J)	0.00061 (J)
2/22/2021			0.003 (J)			
3/15/2021				0.0014 (J)	0.0019 (J)	
3/16/2021	<0.005	0.0012 (J)				0.00069 (J)
3/17/2021			0.0029 (J)			
8/16/2021				0.0012 (J)		
8/17/2021						0.00045 (J)
8/18/2021	<0.005	0.0012 (J)			0.002 (J)	
8/19/2021			0.0024 (J)			
2/9/2022	<0.005	0.0013 (J)				0.00051 (J)
2/10/2022			0.0026 (J)	0.0011 (J)	0.0021 (J)	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.0011 (J)	<0.005		<0.005	<0.005
3/14/2019	0.025			<0.005		
4/2/2019		<0.005				
4/3/2019	0.036			<0.005	<0.005	
4/4/2019						9.1E-05 (J)
4/8/2019			0.00025 (J)			
9/25/2019		<0.005				
9/26/2019			0.0011 (J)		0.00053 (J)	<0.005
9/27/2019	0.033			<0.005		
3/2/2020		<0.005				
3/3/2020				<0.005		
3/4/2020	0.048		0.00056 (J)		<0.005	0.00045 (J)
3/26/2020	0.045			<0.005		
3/27/2020		<0.005				
3/30/2020			<0.005			
3/31/2020					0.0003 (J)	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		<0.005
9/21/2020	0.032		<0.005			
2/11/2021		<0.005				
2/12/2021	0.037			<0.005		
2/16/2021			<0.005		0.00045 (J)	0.0004 (J)
3/12/2021						<0.005
3/15/2021		<0.005				
3/16/2021				<0.005		
3/17/2021	0.037		<0.005		0.00044 (J)	
8/17/2021		<0.005			0.00045 (J)	<0.005
8/18/2021	0.039					
8/19/2021			<0.005	<0.005		
2/9/2022	0.03			<0.005	0.00059 (J)	
2/10/2022		<0.005	<0.005			<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	0.00057 (J)			
3/13/2019			<0.005	0.00055 (J)	<0.005
4/2/2019	<0.005	0.00084 (J)			
4/3/2019			<0.005	<0.005	<0.005
9/24/2019		0.0015 (J)			
9/25/2019			<0.005		
9/26/2019	<0.005			0.00036 (J)	<0.005
3/2/2020		0.00067 (J)	<0.005		
3/3/2020				0.00094 (J)	<0.005
3/4/2020	0.00093 (J)				
3/26/2020			<0.005		
3/27/2020	<0.005			0.00059 (J)	
3/30/2020		0.00063 (J)			<0.005
9/16/2020		0.0013 (J)			
9/17/2020			<0.005		
9/21/2020	<0.005			0.00041 (J)	<0.005
2/10/2021	<0.005				
2/15/2021		0.00097 (J)			<0.005
2/16/2021			<0.005	0.00045 (J)	
3/15/2021	<0.005	0.0011 (J)			<0.005
3/16/2021			<0.005	0.00042 (J)	
8/16/2021		0.0014 (J)			
8/17/2021			<0.005	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					<0.005
2/9/2022			<0.005	0.00059 (J)	
2/10/2022	<0.005	0.00089 (J)			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	0.397 (U)	0.627 (U)	0.342 (U)			
5/23/2016						0.419 (U)
7/11/2016	0.738 (U)	1.38				
7/12/2016			0.499 (U)			0.855
8/30/2016	0.581 (U)	1.05 (U)	0.976 (U)			
9/1/2016						0.844 (U)
10/19/2016	0.213 (U)	1.11 (U)	0.626 (U)			
10/24/2016						0.917 (U)
12/6/2016	0.444 (U)	0.741 (U)	0.805 (U)			
12/7/2016						0.558 (U)
1/24/2017	0.373 (U)	0.908 (U)	0.336 (U)			
1/26/2017						0.922 (U)
3/21/2017	0.816 (U)	0.567 (U)	0.358 (U)			
3/22/2017						0.751 (U)
5/22/2017	0.554 (U)	0.638 (U)	0.744 (U)			
5/24/2017						0.725 (U)
4/2/2018	0.405 (U)	0.761 (U)				
4/3/2018			0.684 (U)			
4/4/2018						0.715 (U)
6/4/2018	1.13 (U)	0.975 (U)	0.0291 (U)			
6/5/2018						0.718 (U)
10/1/2018	0.132 (U)	0.434 (U)	0.781 (U)			
10/2/2018						0.948
3/12/2019	0.327 (U)	0.454 (U)	1.01 (U)			
3/13/2019						1.19 (U)
4/1/2019			0.76 (U)			
4/2/2019	0.739 (U)	0.651 (U)				
4/3/2019						1.82 (U)
9/27/2019						1.16 (U)
9/30/2019	0.306 (U)	1.04 (U)	0.384 (U)			
3/2/2020	0.61 (U)	1.58	0.249 (U)			
3/3/2020						0.667 (U)
3/25/2020	4.36	0.621 (U)	0.833 (U)			
4/1/2020						0.235 (U)
9/15/2020	0.748 (U)	0.124 (U)	0.161 (U)			
9/16/2020				0.531 (U)	0.422 (U)	0 (U)
11/10/2020				0.788 (U)	0.293 (U)	
12/15/2020				1.04 (U)	0.7 (U)	
1/19/2021				0.685 (U)	0.79 (U)	
2/8/2021	0.223 (U)					
2/9/2021		0.721 (U)	0.447 (U)	0.138 (U)	0.486 (U)	
2/15/2021						1.91
3/10/2021	0 (U)				0.811 (U)	
3/11/2021		0.737 (U)	0.128 (U)	1.51 (U)		
3/12/2021						1.12 (U)
8/11/2021	0.115 (U)			0.394 (U)		
8/12/2021		0.746 (U)	0.389 (U)			
8/13/2021					1.2	
8/17/2021						0.595 (U)
2/1/2022	0.143 (U)	0.588 (U)	0.266 (U)	1.12	0.665 (U)	
2/9/2022						0.49 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.62 (U)	0.56 (U)	
5/23/2016	0.509 (U)	1.12	0.625 (U)			0.826 (U)
7/12/2016	0.784 (U)	1.61	0.478 (U)	0.283 (U)	0.636 (U)	0.511 (U)
9/1/2016	0.261 (U)	1.23	0.595 (U)	0.703 (U)	0.818 (U)	0.762 (U)
10/20/2016				1.97	1.04 (U)	1.17
10/24/2016	1.42	1.98	1.54			
12/6/2016				2	0.771 (U)	0.126 (U)
12/7/2016	0.781 (U)	0.319 (U)	0.657 (U)			
1/25/2017				1.06 (U)	0.859 (U)	
1/26/2017	0.842 (U)	0.54 (U)	1.22			0.515 (U)
3/21/2017				0.668 (U)	0.851 (U)	
3/22/2017	0.318 (U)	0.635 (U)	0.285 (U)			0.451 (U)
5/23/2017				0.621 (U)	0.705 (U)	0.924 (U)
5/24/2017	0.687 (U)	1.01	0.655 (U)			
4/3/2018				0.538 (U)	0.311 (U)	0.732 (U)
4/4/2018	1.5	0.956	0.882 (U)			
6/5/2018	0.549 (U)		1.1 (U)	0.985 (U)		
6/6/2018		0.424 (U)			0.896 (U)	0.813 (U)
10/2/2018				0.837 (U)	1.21	0.61 (U)
10/3/2018	1.48	0.57 (U)				
10/5/2018			0.558 (U)			
3/12/2019					0.544 (U)	
3/13/2019	0.584 (U)		0.39 (U)	0.403 (U)		1 (U)
3/14/2019		0.992 (U)				
4/2/2019				0.865 (U)		
4/3/2019	0.36 (U)	0.734 (U)			0.885 (U)	0.156 (U)
4/5/2019			0.422 (U)			
9/24/2019					1.3	
9/25/2019				0.884 (U)		
9/26/2019			0.939 (U)			
9/27/2019	1.78	0.958 (U)				0.428 (U)
3/3/2020	0.716 (U)	0.971 (U)			0.835 (U)	
3/4/2020			0.708 (U)	0.624 (U)		1.03
3/26/2020		0.209 (U)				
3/27/2020				0.485 (U)	1.04 (U)	
3/30/2020			0.602 (U)			
3/31/2020	1.3 (U)					1.2 (U)
9/16/2020				0.135 (U)	0.526 (U)	
9/17/2020						1.38 (U)
9/18/2020	1.24 (U)	0.916 (U)				
9/21/2020			1.53			
2/10/2021				0.281 (U)		
2/12/2021	1.1	0.236 (U)				
2/16/2021					0.764 (U)	1.17 (U)
2/22/2021			1.02			
3/15/2021				0.666 (U)	1.3 (U)	
3/16/2021	1.71	0.245 (U)				0.446 (U)
3/17/2021			1.45 (U)			
8/16/2021				0.143 (U)		
8/17/2021						0.771 (U)
8/18/2021	0.919 (U)	0.919 (U)			1.02 (U)	
8/19/2021			0.764 (U)			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.444 (U)	0.564 (U)				0.198 (U)
2/10/2022			0.442 (U)	0.175 (U)	0.945 (U)	



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.538 (U)	0.311 (U)		0.627 (U)	1.81
3/14/2019	0.347 (U)			1.28 (U)		
4/2/2019		1.02 (U)				
4/3/2019	0.884 (U)			0.662 (U)	0.205 (U)	
4/4/2019						1.33
4/8/2019			0.573 (U)			
9/25/2019		1.35 (U)				
9/26/2019			0.878 (U)		0.912 (U)	0.974 (U)
9/27/2019	0.534 (U)			0.945 (U)		
3/2/2020		0.653 (U)				
3/3/2020				1.36		
3/4/2020	1.04		0.333 (U)		1.27 (U)	1.12
3/26/2020	1.1 (U)			0.793 (U)		
3/27/2020		0.1 (U)				
3/30/2020			0.107 (U)			
3/31/2020					1.65	
4/2/2020						2.48
9/17/2020		0.469 (U)			0.42 (U)	
9/18/2020				1.17 (U)		1.13 (U)
9/21/2020	1.36 (U)		1.23 (U)			
2/11/2021		0.334 (U)				
2/12/2021	0.764 (U)			1.17		
2/16/2021			0.156 (U)		0.505 (U)	1.21
3/12/2021						0.649 (U)
3/15/2021		1.24 (U)				
3/16/2021				0.742 (U)		
3/17/2021	0.466 (U)		0.174 (U)		0.165 (U)	
8/17/2021		0.709 (U)			0.0468 (U)	1.06 (U)
8/18/2021	0.642 (U)					
8/19/2021			0.227 (U)	0.935 (U)		
2/9/2022	0.245 (U)			0.754 (U)	0.0677 (U)	
2/10/2022		0.32 (U)	0.178 (U)			0.809 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.926 (U)	1.37			
3/13/2019			0.621 (U)	2.07	1.23
4/2/2019	0.479 (U)	0.62 (U)			
4/3/2019			0.932 (U)	0.872 (U)	1.05 (U)
9/24/2019		0.675 (U)			
9/25/2019			0.798 (U)		
9/26/2019	0.997 (U)			0.745 (U)	0.947 (U)
3/2/2020		0.413 (U)	0.964 (U)		
3/3/2020				0.757 (U)	1.15
3/4/2020	1.31				
3/26/2020			1.1		
3/27/2020	1.59			0.758 (U)	
3/30/2020		0.885 (U)			0.83 (U)
9/16/2020		0.193 (U)			
9/17/2020			0.618 (U)		
9/21/2020	1.39 (U)			0.796 (U)	1.55 (U)
2/10/2021	0.201 (U)				
2/15/2021		1.17 (U)			0.892 (U)
2/16/2021			0.466 (U)	0.198 (U)	
3/15/2021	0.564 (U)	0.436 (U)			0.386 (U)
3/16/2021			1.22	0.727 (U)	
8/16/2021		0.208 (U)			
8/17/2021			0.304 (U)	0.557 (U)	0.183 (U)
8/18/2021	0.876 (U)				
2/8/2022					0.417 (U)
2/9/2022			0.567 (U)	0.619 (U)	
2/10/2022	1.96 (U)	0.594 (U)			

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	0.105 (J)	0.0303 (J)	0.0513 (J)			
5/23/2016						0.0394 (J)
7/11/2016	0.16 (J)	0.05 (J)				
7/12/2016			0.12 (J)			0.15 (J)
8/30/2016	0.09 (J)	0.06 (J)	0.09 (J)			
9/1/2016						0.5
10/19/2016	0.1 (J)	0.04 (J)	0.1 (J)			
10/24/2016						0.06 (J)
12/6/2016	0.11 (J)	0.36	0.21 (J)			
12/7/2016						0.44
1/24/2017	0.09 (J)	<0.1	0.06 (J)			
1/26/2017						0.29 (J)
3/21/2017	0.13 (J)	<0.1	0.005 (J)			
3/22/2017						0.34
5/22/2017	0.12 (J)	<0.1	0.05 (J)			
5/24/2017						0.13 (J)
10/3/2017	0.13 (J)	<0.1	0.13 (J)			0.46
4/2/2018	<0.1	<0.1				
4/3/2018			<0.1			
4/4/2018						<0.1
6/4/2018	0.074 (J)	<0.1	<0.1			
6/5/2018						<0.1
10/1/2018	<0.1	<0.1	<0.1			
10/2/2018						0.17 (J)
3/12/2019	0.29 (J)	0.038 (J)	0.072 (J)			
3/13/2019						0.17 (J)
4/1/2019			0.029 (J)			
4/2/2019	0.1 (J)	0.071 (J)				
4/3/2019						0.082 (J)
9/23/2019	0.078 (J)	<0.1	<0.1			
9/27/2019						0.17 (J)
3/2/2020	0.076 (J)	<0.1	<0.1			
3/3/2020						0.11 (J)
3/25/2020	0.098 (J)	<0.1	<0.1			
4/1/2020						0.12 (J)
6/16/2020	0.071 (J)		<0.1			
9/15/2020	0.082 (J)	<0.1	<0.1			
9/16/2020				0.22	0.52	<0.1
11/10/2020				0.19	0.59	
12/15/2020				0.21	0.67	
1/19/2021				0.16	0.74	
2/8/2021	0.078 (J)					
2/9/2021		<0.1	0.074 (J)	0.19	0.44	
2/15/2021						0.08 (J)
3/10/2021	0.079 (J)				0.65	
3/11/2021		0.1	<0.1	0.2		
3/12/2021						0.054 (J)
8/11/2021	0.058 (J)			0.15		
8/12/2021		<0.1	<0.1			
8/13/2021					0.87	
8/17/2021						<0.1
2/1/2022	0.064 (J)	<0.1	<0.1	0.19	0.96	

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
2/9/2022						0.12

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.0828 (J)	0.499	
5/23/2016	0.203 (J)	0.212 (J)	0.2587 (J)			<0.1
7/12/2016	0.44	0.31	0.53	0.2 (J)	0.67	0.24 (J)
9/1/2016	0.67	0.62	0.74	0.51	0.94	0.46
10/20/2016				0.4	0.56	0.56
10/24/2016	0.26 (J)	0.19 (J)	0.31			
12/6/2016				0.26 (J)	0.76	0.31
12/7/2016	0.55	0.73	1			
1/25/2017				0.24 (J)	1.1	
1/26/2017	0.27 (J)	0.12 (J)	0.68			0.004 (J)
3/21/2017				0.13 (J)	0.46	
3/22/2017	0.66	0.44	0.76			0.28 (J)
5/23/2017				0.11 (J)	0.65	0.29 (J)
5/24/2017	0.35	0.34	0.54			
10/3/2017	0.56	0.58	0.83	0.17 (J)	0.66	0.53
4/3/2018				<0.1	0.39	<0.1
4/4/2018	0.39	<0.1	0.65			
6/5/2018	0.24 (J)		0.47	0.099 (J)		
6/6/2018		0.21 (J)			0.46	0.12 (J)
10/2/2018				<0.1	0.51	0.031 (J)
10/3/2018	0.31	0.15 (J)				
10/5/2018			0.77			
3/12/2019					0.58	
3/13/2019	0.51		0.78	0.12 (J)		0.14 (J)
3/14/2019		1.1				
4/2/2019				0.097 (J)		
4/3/2019	0.43	0.3 (J)			0.63	0.14 (J)
4/5/2019			0.83			
9/24/2019					0.49	
9/25/2019				0.1 (J)		
9/26/2019			0.64			
9/27/2019	0.42	0.26 (J)				0.26 (J)
3/3/2020	0.24 (J)	0.21 (J)			0.45	
3/4/2020			0.37	0.077 (J)		0.08 (J)
3/26/2020		0.17 (J)				
3/27/2020				0.059 (J)	0.46	
3/30/2020			0.44			
3/31/2020	0.19 (J)					0.074 (J)
6/16/2020					0.45	
6/17/2020				0.077 (J)		
9/16/2020				0.081 (J)	0.53	
9/17/2020						0.1
9/18/2020	0.15	0.15				
9/21/2020			0.44			
2/10/2021				0.085 (J)		
2/12/2021	0.17	0.19				
2/16/2021					0.47	0.096 (J)
2/22/2021			0.55			
3/15/2021				0.086 (J)	0.51	
3/16/2021	0.21	0.2				0.098 (J)
3/17/2021			0.65			
8/16/2021				0.084 (J)		

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/17/2021						0.095 (J)
8/18/2021	0.21	0.15			0.41	
8/19/2021			0.53			
2/9/2022	0.2	0.2				0.1
2/10/2022			0.53	0.083 (J)	0.42	

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.072 (J)	0.074 (J)		0.052 (J)	0.28 (J)
3/14/2019	0.35			2.2		
4/2/2019		<0.1				
4/3/2019	0.19 (J)			1.6	0.044 (J)	
4/4/2019						0.26 (J)
4/8/2019			0.048 (J)			
9/25/2019		<0.1				
9/26/2019			0.18 (J)		0.19 (J)	0.42
9/27/2019	0.53			1.5		
3/2/2020		<0.1				
3/3/2020				1.4		
3/4/2020	0.096 (J)		0.051 (J)		0.052 (J)	0.25 (J)
3/26/2020	0.12 (J)			1.6		
3/27/2020		<0.1				
3/30/2020			0.064 (J)			
3/31/2020					<0.1	
4/2/2020						0.24 (J)
9/17/2020		<0.1			0.069 (J)	
9/18/2020				1.6		0.22
9/21/2020	0.17		<0.1			
2/11/2021		<0.1				
2/12/2021	0.16			1.6		
2/16/2021			<0.1		0.071 (J)	0.25
3/12/2021						0.24
3/15/2021		<0.1				
3/16/2021				1.7		
3/17/2021	0.18		<0.1		0.072 (J)	
8/17/2021		<0.1			0.075 (J)	0.24
8/18/2021	0.12					
8/19/2021			<0.1	1.5		
2/9/2022	0.076 (J)			1.7	0.092 (J)	
2/10/2022		<0.1	0.051 (J)			0.25

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.24 (J)	0.07 (J)			
3/13/2019			0.1 (J)	0.19 (J)	0.069 (J)
4/2/2019	0.18 (J)	0.045 (J)			
4/3/2019			0.049 (J)	0.15 (J)	<0.1
9/24/2019		0.18 (J)			
9/25/2019			0.076 (J)		
9/26/2019	0.22 (J)			0.19 (J)	0.17 (J)
3/2/2020		<0.1	0.065 (J)		
3/3/2020				0.062 (J)	<0.1
3/4/2020	0.26 (J)				
3/26/2020			0.082 (J)		
3/27/2020	0.26 (J)			<0.1	
3/30/2020		<0.1			<0.1
9/16/2020		<0.1			
9/17/2020			0.094 (J)		
9/21/2020	0.1			<0.1	<0.1
2/10/2021	0.16				
2/15/2021		<0.1			<0.1
2/16/2021			0.051 (J)	0.059 (J)	
3/15/2021	0.24	<0.1			<0.1
3/16/2021			<0.1	0.06 (J)	
8/16/2021		<0.1			
8/17/2021			<0.1	0.055 (J)	<0.1
8/18/2021	0.14				
2/8/2022					<0.1
2/9/2022			0.056 (J)	0.059 (J)	
2/10/2022	0.22	<0.1			



# Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.001	<0.001	<0.001			
5/23/2016						<0.001
7/11/2016	<0.001	<0.001				
7/12/2016			0.0001 (J)			<0.001
8/30/2016	<0.001	<0.001	<0.001			
9/1/2016						<0.001
10/19/2016	<0.001	<0.001	<0.001			
10/24/2016						<0.001
12/6/2016	<0.001	<0.001	<0.001			
12/7/2016						<0.001
1/24/2017	<0.001	<0.001	<0.001			
1/26/2017						<0.001
3/21/2017	<0.001	6E-05 (J)	0.0001 (J)			
3/22/2017						<0.001
5/22/2017	<0.001	9E-05 (J)	<0.001			
5/24/2017						<0.001
4/2/2018	<0.001	<0.001				
4/3/2018			<0.001			
4/4/2018						<0.001
3/12/2019	<0.001	<0.001	<0.001			
3/13/2019						<0.001
9/23/2019	7.8E-05 (J)	9.2E-05 (J)	<0.001			
3/2/2020	4.8E-05 (J)	9.5E-05 (J)	<0.001			
3/3/2020						<0.001
3/25/2020	<0.001	0.00011 (J)	<0.001			
4/1/2020						5E-05 (J)
9/15/2020	<0.001	8E-05 (J)	4.2E-05 (J)			
9/16/2020				5E-05 (J)	0.00021 (J)	<0.001
11/10/2020				6.9E-05 (J)	0.0002 (J)	
12/15/2020				8.2E-05 (J)	0.00011 (J)	
1/19/2021				4.4E-05 (J)	0.00019 (J)	
2/8/2021	5.8E-05 (J)					
2/9/2021		9.4E-05 (J)	<0.001	0.00029 (J)	0.0001 (J)	
2/15/2021						<0.001
3/10/2021	<0.001				<0.001	
3/11/2021		7.6E-05 (J)	<0.001	9.4E-05 (J)		
3/12/2021						<0.001
8/11/2021	<0.001			<0.001		
8/12/2021		<0.001	<0.001			
8/13/2021					<0.001	
8/17/2021						<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
2/9/2022						<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.001	<0.001	
5/23/2016	<0.001	<0.001	<0.001			<0.001
7/12/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/1/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/20/2016				<0.001	<0.001	<0.001
10/24/2016	<0.001	<0.001	<0.001			
12/6/2016				0.0001 (J)	<0.001	0.0002 (J)
12/7/2016	<0.001	<0.001	<0.001			
1/25/2017				0.0001 (J)	<0.001	
1/26/2017	<0.001	<0.001	<0.001			0.0001 (J)
3/21/2017				9E-05 (J)	<0.001	
3/22/2017	0.0003 (J)	<0.001	7E-05 (J)			<0.001
5/23/2017				8E-05 (J)	<0.001	0.0001 (J)
5/24/2017	9E-05 (J)	<0.001	<0.001			
4/3/2018				<0.001	<0.001	<0.001
4/4/2018	<0.001	<0.001	<0.001			
3/12/2019					<0.001	
3/13/2019	<0.001		<0.001	<0.001		<0.001
3/14/2019		<0.001				
3/3/2020	0.00021 (J)	5.6E-05 (J)			0.00013 (J)	
3/4/2020			0.00014 (J)	0.00051 (J)		8.4E-05 (J)
3/26/2020		0.00043 (J)				
3/27/2020				5.4E-05 (J)	<0.001	
3/30/2020			0.0001 (J)			
3/31/2020	0.0003 (J)					0.00014 (J)
9/16/2020				0.0002 (J)	0.0002 (J)	
9/17/2020						0.00022 (J)
9/18/2020	6E-05 (J)	9.6E-05 (J)				
9/21/2020			0.00015 (J)			
2/10/2021				0.00056 (J)		
2/12/2021	<0.001	6.7E-05 (J)				
2/16/2021					8.6E-05 (J)	0.0002 (J)
2/22/2021			0.00018 (J)			
3/15/2021				0.0013	0.00011 (J)	
3/16/2021	9.9E-05 (J)	8.9E-05 (J)				0.00027 (J)
3/17/2021			0.00015 (J)			
8/16/2021				<0.001		
8/17/2021						<0.001
8/18/2021	<0.001	<0.001			<0.001	
8/19/2021			<0.001			
2/9/2022	<0.001	<0.001				<0.001
2/10/2022			<0.001	<0.001	<0.001	

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.001	<0.001		<0.001	<0.001
3/14/2019	<0.001			<0.001		
3/2/2020		0.00017 (J)				
3/3/2020				<0.001		
3/4/2020	0.00011 (J)		0.00019 (J)		<0.001	<0.001
3/26/2020	<0.001			<0.001		
3/27/2020		0.00013 (J)				
3/30/2020			6.4E-05 (J)			
3/31/2020					0.0001 (J)	
4/2/2020						0.00013 (J)
9/17/2020		<0.001			<0.001	
9/18/2020				<0.001		<0.001
9/21/2020	8.5E-05 (J)		4.2E-05 (J)			
2/11/2021		3.9E-05 (J)				
2/12/2021	7.1E-05 (J)			<0.001		
2/16/2021			0.00012 (J)		8E-05 (J)	0.00043 (J)
3/12/2021						<0.001
3/15/2021		0.0001 (J)				
3/16/2021				<0.001		
3/17/2021	3.8E-05 (J)		4E-05 (J)		<0.001	
8/17/2021		<0.001			<0.001	<0.001
8/18/2021	<0.001					
8/19/2021			<0.001	<0.001		
2/9/2022	<0.001			<0.001	<0.001	
2/10/2022		<0.001	<0.001			<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.001	<0.001			
3/13/2019			<0.001	<0.001	<0.001
3/2/2020		9E-05 (J)	4.7E-05 (J)		
3/3/2020				0.00013 (J)	6.2E-05 (J)
3/4/2020	0.001 (J)				
3/26/2020			<0.001		
3/27/2020	6.2E-05 (J)			<0.001	
3/30/2020		0.00011 (J)			<0.001
9/16/2020		<0.001			
9/17/2020			<0.001		
9/21/2020	0.00018 (J)			0.00026 (J)	<0.001
2/10/2021	0.00044 (J)				
2/15/2021		5.2E-05 (J)			<0.001
2/16/2021			<0.001	8.4E-05 (J)	
3/15/2021	0.00034 (J)	<0.001			<0.001
3/16/2021			<0.001	3.6E-05 (J)	
8/16/2021		<0.001			
8/17/2021			<0.001	<0.001	<0.001
8/18/2021	<0.001				
2/8/2022					<0.001
2/9/2022			<0.001	<0.001	
2/10/2022	<0.001	<0.001			

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.03	<0.03	<0.03			
5/23/2016						<0.03
7/11/2016	<0.03	0.0014 (J)				
7/12/2016			0.0024 (J)			<0.03
8/30/2016	<0.03	<0.03	0.0025 (J)			
9/1/2016						<0.03
10/19/2016	<0.03	<0.03	0.003 (J)			
10/24/2016						<0.03
12/6/2016	<0.03	<0.03	0.0033 (J)			
12/7/2016						<0.03
1/24/2017	<0.03	<0.03	0.003 (J)			
1/26/2017						<0.03
3/21/2017	<0.03	0.0012 (J)	0.0034 (J)			
3/22/2017						<0.03
5/22/2017	<0.03	<0.03	0.003 (J)			
5/24/2017						<0.03
4/2/2018	<0.03	0.0015 (J)				
4/3/2018			0.003 (J)			
4/4/2018						<0.03
6/4/2018	0.001 (J)	0.0016 (J)	0.0027 (J)			
6/5/2018						<0.03
10/1/2018	0.00099 (J)	0.0013 (J)	0.0032 (J)			
10/2/2018						<0.03
3/12/2019	0.001 (J)	0.0018 (J)	0.0032 (J)			
3/13/2019						<0.03
4/1/2019			0.0032 (J)			
4/2/2019	0.001 (J)	0.0018 (J)				
4/3/2019						<0.03
9/23/2019	0.0011 (J)	0.0016 (J)	0.0029 (J)			
9/27/2019						<0.03
3/2/2020	0.0012 (J)	0.0017 (J)	0.0037 (J)			
3/3/2020						<0.03
3/25/2020	0.00083 (J)	0.0017 (J)	0.0035 (J)			
4/1/2020						<0.03
9/15/2020	0.00087 (J)	0.0015 (J)	0.0026 (J)			
9/16/2020				0.0018 (J)	0.014 (J)	<0.03
11/10/2020				0.0013 (J)	0.025 (J)	
12/15/2020				0.0019 (J)	0.028 (J)	
1/19/2021				0.0025 (J)	0.034	
2/8/2021	0.00086 (J)					
2/9/2021		0.0012 (J)	0.0032 (J)	0.0026 (J)	0.026 (J)	
2/15/2021						<0.03
3/10/2021	0.0009 (J)				0.03	
3/11/2021		0.0011 (J)	0.0035 (J)	0.0022 (J)		
3/12/2021						<0.03
8/11/2021	0.00078 (J)			0.0024 (J)		
8/12/2021		0.0012 (J)	0.0028 (J)			
8/13/2021					0.032	
8/17/2021						<0.03
2/1/2022	0.0011 (J)	0.0017 (J)	0.0037 (J)	0.0024 (J)	0.048	
2/9/2022						<0.03

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.03	<0.03	
5/23/2016	<0.03	0.0107 (J)	0.0422 (J)			<0.03
7/12/2016	<0.03	0.0113 (J)	0.0366 (J)	0.0021 (J)	0.0023 (J)	0.004 (J)
9/1/2016	<0.03	0.0118 (J)	0.04 (J)	0.0025 (J)	0.0029 (J)	0.0044 (J)
10/20/2016				0.0021 (J)	0.0027 (J)	0.0027 (J)
10/24/2016	<0.03	0.0114 (J)	0.0435 (J)			
12/6/2016				0.0026 (J)	0.0032 (J)	0.005 (J)
12/7/2016	<0.03	0.0155 (J)	0.0477 (J)			
1/25/2017				0.0024 (J)	0.0026 (J)	
1/26/2017	<0.03	0.0099 (J)	0.0342 (J)			0.0042 (J)
3/21/2017				0.0026 (J)	0.0029 (J)	
3/22/2017	<0.03	0.0098 (J)	0.0353 (J)			0.0043 (J)
5/23/2017				0.0026 (J)	0.0029 (J)	0.0048 (J)
5/24/2017	<0.03	0.0105 (J)	0.0317 (J)			
4/3/2018				0.0023 (J)	0.0025 (J)	0.0043 (J)
4/4/2018	<0.03	0.008 (J)	0.031 (J)			
6/5/2018	<0.03		0.031 (J)	0.0022 (J)		
6/6/2018		0.0095 (J)			0.0023 (J)	0.0043 (J)
10/2/2018				0.003 (J)	0.0025 (J)	0.004 (J)
10/3/2018	<0.03	0.0083 (J)				
10/5/2018			0.027 (J)			
3/12/2019					0.0025 (J)	
3/13/2019	<0.03		0.029 (J)	0.0024 (J)		0.004 (J)
3/14/2019		0.0058 (J)				
4/2/2019				0.002 (J)		
4/3/2019	<0.03	0.0066 (J)			0.0025 (J)	0.004 (J)
4/5/2019			0.023 (J)			
9/24/2019					0.0024 (J)	
9/25/2019				0.0019 (J)		
9/26/2019			0.035			
9/27/2019	<0.03	0.011 (J)				0.0044 (J)
3/3/2020	<0.03	0.0063 (J)			0.0028 (J)	
3/4/2020			0.041	0.0034 (J)		0.004 (J)
3/26/2020		0.0063 (J)				
3/27/2020				0.002 (J)	0.0026 (J)	
3/30/2020			0.038			
3/31/2020	<0.03					0.0043 (J)
9/16/2020				0.0026 (J)	0.0033 (J)	
9/17/2020						0.004 (J)
9/18/2020	<0.03	0.01 (J)				
9/21/2020			0.028 (J)			
2/10/2021				0.0032 (J)		
2/12/2021	<0.03	0.0094 (J)				
2/16/2021					0.0027 (J)	0.0045 (J)
2/22/2021			0.032			
3/15/2021				0.0038 (J)	0.0029 (J)	
3/16/2021	<0.03	0.0081 (J)				0.0046 (J)
3/17/2021			0.031			
8/16/2021				0.0025 (J)		
8/17/2021						0.004 (J)
8/18/2021	<0.03	0.0099 (J)			0.0029 (J)	
8/19/2021			0.028 (J)			

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	<0.03	0.01 (J)				0.0041 (J)
2/10/2022			0.031	0.0022 (J)	0.003 (J)	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.0016 (J)	0.0029 (J)		0.0033 (J)	0.0097 (J)
3/14/2019	0.0089 (J)			0.05		
4/2/2019		0.0015 (J)				
4/3/2019	0.0061 (J)			0.047 (J)	0.0034 (J)	
4/4/2019						0.0069 (J)
4/8/2019			0.0027 (J)			
9/25/2019		<0.03				
9/26/2019			0.003 (J)		0.0041 (J)	0.0055 (J)
9/27/2019	0.013 (J)			0.047		
3/2/2020		0.00082 (J)				
3/3/2020				0.05		
3/4/2020	0.01 (J)		0.0026 (J)		0.03 (J)	0.0047 (J)
3/26/2020	0.013 (J)			0.054		
3/27/2020		0.0012 (J)				
3/30/2020			0.0027 (J)			
3/31/2020					0.0036 (J)	
4/2/2020						0.0068 (J)
9/17/2020		<0.03			0.0032 (J)	
9/18/2020				0.046		0.0084 (J)
9/21/2020	0.013 (J)		0.0024 (J)			
2/11/2021		0.001 (J)				
2/12/2021	0.012 (J)			0.045		
2/16/2021			0.0028 (J)		0.0038 (J)	0.0078 (J)
3/12/2021						0.009 (J)
3/15/2021		0.0011 (J)				
3/16/2021				0.049		
3/17/2021	0.012 (J)		0.0027 (J)		0.004 (J)	
8/17/2021		0.00091 (J)			0.0036 (J)	0.0079 (J)
8/18/2021	0.014 (J)					
8/19/2021			0.0027 (J)	0.046		
2/9/2022	0.0067 (J)			0.048	0.0039 (J)	
2/10/2022		0.00099 (J)	0.0029 (J)			0.0086 (J)



# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.011 (J)	0.0024 (J)			
3/13/2019			<0.03	<0.03	<0.03
4/2/2019	0.0052 (J)	0.0021 (J)			
4/3/2019			<0.03	<0.03	<0.03
9/24/2019		0.0022 (J)			
9/25/2019			<0.03		
9/26/2019	0.0055 (J)			<0.03	<0.03
3/2/2020		0.0025 (J)	<0.03		
3/3/2020				<0.03	<0.03
3/4/2020	0.015 (J)				
3/26/2020			<0.03		
3/27/2020	0.014 (J)			<0.03	
3/30/2020		0.0023 (J)			<0.03
9/16/2020		0.0021 (J)			
9/17/2020			<0.03		
9/21/2020	0.0053 (J)			<0.03	<0.03
2/10/2021	0.0092 (J)				
2/15/2021		0.0024 (J)			<0.03
2/16/2021			<0.03	<0.03	
3/15/2021	0.013 (J)	0.0022 (J)			<0.03
3/16/2021			<0.03	<0.03	
8/16/2021		0.0021 (J)			
8/17/2021			<0.03	<0.03	<0.03
8/18/2021	0.0086 (J)				
2/8/2022					<0.03
2/9/2022			<0.03	<0.03	
2/10/2022	0.014 (J)	0.0023 (J)			

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.0002	<0.0002	<0.0002			
5/23/2016						<0.0002
7/11/2016	<0.0002	<0.0002				
7/12/2016			<0.0002			<0.0002
8/30/2016	4E-05 (J)	4E-05 (J)	<0.0002			
9/1/2016						<0.0002
10/19/2016	<0.0002	<0.0002	<0.0002			
10/24/2016						<0.0002
12/6/2016	<0.0002	<0.0002	<0.0002			
12/7/2016						<0.0002
1/24/2017	<0.0002	<0.0002	<0.0002			
1/26/2017						5E-05 (J)
3/21/2017	<0.0002	<0.0002	<0.0002			
3/22/2017						<0.0002
5/22/2017	<0.0002	<0.0002	<0.0002			
5/24/2017						<0.0002
4/2/2018	<0.0002	<0.0002				
4/3/2018			<0.0002			
4/4/2018						<0.0002
3/12/2019	<0.0002	<0.0002	<0.0002			
3/13/2019						<0.0002
3/2/2020	<0.0002	<0.0002	<0.0002			
3/3/2020						<0.0002
9/16/2020				<0.0002	<0.0002	
11/10/2020				<0.0002	<0.0002	
12/15/2020				<0.0002	<0.0002	
1/19/2021				<0.0002	<0.0002	
2/8/2021	<0.0002					
2/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	
2/15/2021						<0.0002
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/9/2022						<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0002	<0.0002	
5/23/2016	<0.0002	<0.0002	<0.0002			<0.0002
7/12/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/1/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/20/2016				<0.0002	<0.0002	<0.0002
10/24/2016	<0.0002	<0.0002	<0.0002			
12/6/2016				<0.0002	<0.0002	<0.0002
12/7/2016	<0.0002	<0.0002	<0.0002			
1/25/2017				<0.0002	<0.0002	
1/26/2017	5E-05 (J)	<0.0002	4E-05 (J)			4E-05 (J)
3/21/2017				<0.0002	<0.0002	
3/22/2017	<0.0002	<0.0002	<0.0002			<0.0002
5/23/2017				<0.0002	<0.0002	<0.0002
5/24/2017	<0.0002	<0.0002	5E-05 (J)			
4/3/2018				<0.0002	<0.0002	<0.0002
4/4/2018	<0.0002	<0.0002	<0.0002			
3/12/2019					<0.0002	
3/13/2019	<0.0002		<0.0002	<0.0002		<0.0002
3/14/2019		<0.0002				
3/3/2020	<0.0002	<0.0002			<0.0002	
3/4/2020			<0.0002	<0.0002		<0.0002
2/10/2021				<0.0002		
2/12/2021	<0.0002	<0.0002				
2/16/2021					<0.0002	<0.0002
2/22/2021			<0.0002			
2/9/2022	<0.0002	<0.0002				<0.0002
2/10/2022			<0.0002	<0.0002	<0.0002	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.0002	<0.0002		<0.0002	<0.0002
3/14/2019	<0.0002			<0.0002		
3/2/2020		<0.0002				
3/3/2020				<0.0002		
3/4/2020	<0.0002		<0.0002		<0.0002	<0.0002
2/11/2021		<0.0002				
2/12/2021	<0.0002			<0.0002		
2/16/2021			<0.0002		<0.0002	<0.0002
2/9/2022	<0.0002			<0.0002	<0.0002	
2/10/2022		<0.0002	<0.0002			<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.0002	<0.0002			
3/13/2019			<0.0002	<0.0002	<0.0002
3/2/2020		<0.0002	<0.0002		
3/3/2020				<0.0002	<0.0002
3/4/2020	<0.0002				
2/10/2021	<0.0002				
2/15/2021		<0.0002			<0.0002
2/16/2021			<0.0002	<0.0002	
2/8/2022					<0.0002
2/9/2022			<0.0002	<0.0002	
2/10/2022	<0.0002	<0.0002			

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.01	<0.01	<0.01			
5/23/2016						<0.01
7/11/2016	<0.01	<0.01				
7/12/2016			<0.01			0.0013 (J)
8/30/2016	<0.01	<0.01	<0.01			
9/1/2016						<0.01
10/19/2016	<0.01	<0.01	<0.01			
10/24/2016						<0.01
12/6/2016	<0.01	<0.01	<0.01			
12/7/2016						<0.01
1/24/2017	<0.01	<0.01	<0.01			
1/26/2017						<0.01
3/21/2017	<0.01	<0.01	<0.01			
3/22/2017						0.0013 (J)
5/22/2017	<0.01	<0.01	<0.01			
5/24/2017						0.0014 (J)
4/2/2018	<0.01	<0.01				
4/3/2018			<0.01			
4/4/2018						<0.01
6/4/2018	<0.01	<0.01	<0.01			
6/5/2018						<0.01
10/1/2018	<0.01	<0.01	<0.01			
10/2/2018						<0.01
3/12/2019	<0.01	<0.01	<0.01			
3/13/2019						<0.01
4/1/2019			<0.01			
4/2/2019	<0.01	<0.01				
4/3/2019						0.0021 (J)
9/23/2019	<0.01	<0.01	<0.01			
9/27/2019						0.0014 (J)
3/2/2020	<0.01	<0.01	<0.01			
3/3/2020						<0.01
3/25/2020	<0.01	<0.01	<0.01			
4/1/2020						<0.01
6/16/2020	<0.01		<0.01			
9/15/2020	<0.01	<0.01	<0.01			
9/16/2020				0.0044 (J)	0.0019 (J)	0.0014 (J)
11/10/2020				0.0072 (J)	0.0018 (J)	
12/15/2020				0.0044 (J)	0.0019 (J)	
1/19/2021				0.0038 (J)	0.0035 (J)	
2/8/2021	<0.01					
2/9/2021		<0.01	<0.01	0.0045 (J)	0.0038 (J)	
2/15/2021						<0.01
3/10/2021	<0.01				0.0019 (J)	
3/11/2021		<0.01	<0.01	0.0064 (J)		
3/12/2021						0.0007 (J)
8/11/2021	<0.01			0.0034 (J)		
8/12/2021		<0.01	<0.01			
8/13/2021					0.0051 (J)	
8/17/2021						0.0012 (J)
2/1/2022	<0.01	<0.01	<0.01	0.0036 (J)	0.0055 (J)	
2/9/2022						<0.01

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.028	0.446	
5/23/2016	0.0164	0.0413 (J)	0.027			0.0187
7/12/2016	0.0251	0.0484	0.0316	0.0273	0.455	0.0229
9/1/2016	0.0259	0.0474	0.0336	0.0274	0.481	0.0239
10/20/2016				0.036	0.472	0.477
10/24/2016	0.0293	0.047	0.0352			
12/6/2016				0.0365	0.52	0.0236
12/7/2016	0.0209	0.0432	0.0383			
1/25/2017				0.0317	0.478	
1/26/2017	0.0277	0.0484	0.041			0.0234
3/21/2017				0.0346	0.547	
3/22/2017	0.011	0.0494	0.0426			0.0219
5/23/2017				0.0336	0.482	0.0242
5/24/2017	0.0373	0.047	0.04			
4/3/2018				0.032	0.44	0.025
4/4/2018	0.013	0.052	0.027			
6/5/2018	0.029		0.027	0.036		
6/6/2018		0.054			0.49	0.027
10/2/2018				0.039	0.47	0.028
10/3/2018	0.02	0.054				
10/5/2018			0.033			
3/12/2019					0.5	
3/13/2019	0.012		0.033	0.04		0.028
3/14/2019		0.046				
4/2/2019				0.041		
4/3/2019	0.01	0.049			0.5	0.03
4/5/2019			0.03			
9/24/2019					0.54	
9/25/2019				0.047		
9/26/2019			0.026			
9/27/2019	0.016	0.052				0.033
3/3/2020	0.011	0.045			0.44	
3/4/2020			0.03	0.045		0.031
3/26/2020		0.045				
3/27/2020				0.044	0.42	
3/30/2020			0.029			
3/31/2020	0.0074 (J)					0.031
6/16/2020					0.45	
6/17/2020				0.048		
9/16/2020				0.046	0.43	
9/17/2020						0.03
9/18/2020	0.032	0.046				
9/21/2020			0.032			
2/10/2021				0.051		
2/12/2021	0.023	0.048				
2/16/2021					0.46	0.035
2/22/2021			0.036			
3/15/2021				0.047	0.41	
3/16/2021	0.015	0.044				0.035
3/17/2021			0.035			
8/16/2021				0.045		
8/17/2021						0.035

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/18/2021	0.038	0.045			0.48	
8/19/2021			0.032			
2/9/2022	0.03	0.042				0.034
2/10/2022			0.033	0.045	0.34	



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.01	<0.01		<0.01	<0.01
3/14/2019	0.057			0.0022 (J)		
4/2/2019		<0.01				
4/3/2019	0.04			<0.01	0.0083 (J)	
4/4/2019						0.0018 (J)
4/8/2019			0.00027 (J)			
9/25/2019		<0.01				
9/26/2019			<0.01		0.017	0.0042 (J)
9/27/2019	0.063			<0.01		
11/25/2019					0.02	
3/2/2020		<0.01				
3/3/2020				<0.01		
3/4/2020	0.032		<0.01		0.0074 (J)	0.0058 (J)
3/26/2020	0.033			<0.01		
3/27/2020		<0.01				
3/30/2020			<0.01			
3/31/2020					0.0093 (J)	
4/2/2020						0.003 (J)
9/17/2020		<0.01			0.014	
9/18/2020				0.00094 (J)		0.0018 (J)
9/21/2020	0.064		0.00099 (J)			
2/11/2021		<0.01				
2/12/2021	0.046			<0.01		
2/16/2021			0.00096 (J)		0.022	0.0019 (J)
3/12/2021						0.0008 (J)
3/15/2021		<0.01				
3/16/2021				<0.01		
3/17/2021	0.043		0.001 (J)		0.023	
8/17/2021		<0.01			0.024	0.0016 (J)
8/18/2021	0.032					
8/19/2021			0.00087 (J)	<0.01		
2/9/2022	0.011			<0.01	0.028	
2/10/2022		<0.01	0.0008 (J)			0.0017 (J)

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.013	0.0038 (J)			
3/13/2019			<0.01	0.0021 (J)	<0.01
4/2/2019	0.028	0.0028 (J)			
4/3/2019			<0.01	0.0021 (J)	<0.01
9/24/2019		0.0021 (J)			
9/25/2019			<0.01		
9/26/2019	0.017			0.0026 (J)	0.0033 (J)
3/2/2020		0.0025 (J)	<0.01		
3/3/2020				0.0022 (J)	<0.01
3/4/2020	0.009 (J)				
3/26/2020			<0.01		
3/27/2020	0.0068 (J)			0.0026 (J)	
3/30/2020		0.0029 (J)			<0.01
9/16/2020		0.0021 (J)			
9/17/2020			<0.01		
9/21/2020	0.018			0.0025 (J)	0.0015 (J)
2/10/2021	0.02				
2/15/2021		0.0029 (J)			0.0015 (J)
2/16/2021			<0.01	0.0025 (J)	
3/15/2021	0.013	0.0031 (J)			0.0015 (J)
3/16/2021			<0.01	0.0023 (J)	
8/16/2021		0.0027 (J)			
8/17/2021			<0.01	0.0027 (J)	0.003 (J)
8/18/2021	0.022				
2/8/2022					0.0012 (J)
2/9/2022			<0.01	0.0026 (J)	
2/10/2022	0.0031 (J)	0.0036 (J)			

# Time Series

Constituent: pH, Field (SU) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	7.27	5.81	7.45			
5/23/2016						6.83
7/11/2016	7.06	5.68				
7/12/2016			7.32			6.58
8/30/2016	7.28	5.63	7.43			
9/1/2016						6.54
10/19/2016	7.02	5.46	7.03			
10/24/2016						6.59
12/6/2016	7.09	5.38	7.08			
12/7/2016						6.56
1/24/2017	7.2	5.37	7.39			
1/26/2017						6.83
3/21/2017	7.01	4.9	6.83			
3/22/2017						6.66
5/22/2017	7.11	5.2	7.02			
5/24/2017						6.67
10/3/2017	7.21	5.3	7.47			6.54
4/2/2018	7.1	5.4				
4/3/2018			7.38			
4/4/2018						6.61
6/4/2018	7.06	5.27	7.38			
6/5/2018						6.65
10/1/2018	7.09	5.31	7.13			
10/2/2018						6.55
3/12/2019	7.03	5.42	7.29			
3/13/2019						6.7
4/1/2019			7.16			
4/2/2019	6.86	5.41				
4/3/2019						6.55
9/23/2019	7.02	5.33	7.3			
9/27/2019						6.64
3/2/2020	7.1	5.43	7.12			
3/3/2020						6.67
3/25/2020	6.95	5.36	7.4			
4/1/2020						6.84
6/16/2020	6.97 (D)		7.31 (D)			
9/15/2020	7.15	5.22	7.29			
9/16/2020				7.52	7.83	6.66
11/10/2020				7.27	7.84	
12/15/2020				7.39	7.87	
1/19/2021				7.39	7.86	
2/8/2021	7.11					
2/9/2021		5.42	7.23	7.44	7.84	
2/15/2021						6.83
3/10/2021	6.95				7.92	
3/11/2021		5.8	7.33	7.46		
3/12/2021						6.76
8/11/2021	6.98			7.4		
8/12/2021		5.05	7.31			
8/13/2021					7.77	
8/17/2021						6.75
2/1/2022	7.19	5.24	7.45	7.52	8.25	

# Time Series

Constituent: pH, Field (SU) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
2/9/2022						7

# Time Series

Constituent: pH, Field (SU) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				7.14	6.99	
5/23/2016	6.22	7.15	7.14			7.23
7/12/2016	6.04	6.87	7.04	7.13	6.88	6.87
9/1/2016	6.26	7.2	7.24	7.29	6.73	7.15
10/20/2016				7.1	6.9	7.05
10/24/2016	6.46	7.1	6.9			
12/6/2016				7.15	6.98	7.15
12/7/2016	6.29	6.92	6.91			
1/25/2017				7.11	7.04	
1/26/2017	6.46	7.05	7.08			6.99
3/21/2017				7.12	6.87	
3/22/2017	5.81	7.08	7.13			7.03
5/23/2017				7.08	6.87	7.05
5/24/2017	6.51	7.11	7.15			
10/3/2017	6.25	7.01	7.32	7.21	6.72	7.07
4/3/2018				7.14	6.87	6.99
4/4/2018	5.86	7.12	7.27			
6/5/2018	6.27		7.2	7.13		
6/6/2018		7.12			6.9	7.02
10/2/2018				7.12	6.9	7.05
10/3/2018	5.97	7.08				
10/5/2018			7.24			
3/12/2019					6.91	
3/13/2019	5.92		7.24	7.27		7.06
3/14/2019		7.09				
4/2/2019				7.27		
4/3/2019	5.69	6.96			6.85	6.88
4/5/2019			7.24			
9/24/2019					6.95	
9/25/2019				7.11		
9/26/2019			6.94			
9/27/2019	5.75	7.07				7.01
3/3/2020	5.95	6.95			7.06	
3/4/2020			7.16	7.17		6.97
3/26/2020		6.99				
3/27/2020				7.05	6.95	
3/30/2020			6.91			
3/31/2020	5.7					7.07
6/16/2020					6.97 (D)	
6/17/2020				7.2 (D)		
9/16/2020				7.3	6.92	
9/17/2020						6.99
9/18/2020	6.42	7.15				
9/21/2020			7.34			
2/10/2021				7.29		
2/12/2021	7.27	6.23				
2/16/2021					7.16	7.26
2/22/2021			7.27			
3/15/2021				7.19	7.09	
3/16/2021	5.95	7.15				7.1
3/17/2021			7.33			
8/16/2021				7.12		

# Time Series

Constituent: pH, Field (SU) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/17/2021						7.1
8/18/2021	6.1	6.89			7.02	
8/19/2021			7.38			
2/9/2022	6.55	7.23				7.3
2/10/2022			7.54	7.22	6.99	

# Time Series

Constituent: pH, Field (SU) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		6.75	7.58		7.4	7.78
3/14/2019	6.48			7.67		
4/2/2019		6.7				
4/3/2019	6.14			7.56	7.25	
4/4/2019						7.63
4/8/2019			7.47			
9/25/2019		6.75				
9/26/2019			7.5		7.16	7.46
9/27/2019	6.33			7.57		
3/2/2020		6.98				
3/3/2020				7.59		
3/4/2020	6.29		7.47		7.14	8.33
3/26/2020	6.28			7.57		
3/27/2020		6.75				
3/30/2020			7.49			
3/31/2020					7.2	
4/2/2020						8.11
9/17/2020		6.78			7.08	
9/18/2020				7.64		7.51
9/21/2020	6.41		7.65			
2/11/2021		6.93				
2/12/2021	6.36			7.77		
2/16/2021			7.69		7.27	7.96
3/12/2021						7.88
3/15/2021		6.97				
3/16/2021				7.76		
3/17/2021	6.34		7.66		7.14	
8/17/2021		7.05			7.14	7.75
8/18/2021	6.28					
8/19/2021			7.61	7.69		
2/9/2022	6.28			7.82	7.32	
2/10/2022		7.19	7.82			7.96

# Time Series

Constituent: pH, Field (SU) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	7.46	7.2			
3/13/2019			6.16	6.86	6.37
4/2/2019	7.4	6.91			
4/3/2019			5.96	6.77	6.19
9/24/2019		6.86			
9/25/2019			6.37		
9/26/2019	7.4			6.76	6.5
3/2/2020		7.13	6.12		
3/3/2020				6.78	6.1
3/4/2020	7.55				
3/26/2020			6.14		
3/27/2020	7.42			6.82	
3/30/2020		7.07			6.06
9/16/2020		6.88			
9/17/2020			6.48		
9/21/2020	7.46			6.88	6.5
2/10/2021	7.54				
2/15/2021		7.09			6.77
2/16/2021			5.95	7	
3/15/2021	7.61	7.05			6.66
3/16/2021			5.78	6.96	
8/16/2021		7.08			
8/17/2021			5.99	6.86	6.88
8/18/2021	7.16				
2/8/2022					6.73
2/9/2022			6.13	7.01	
2/10/2022	7.59	7.27			



# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.005	<0.005	<0.005			
5/23/2016						<0.005
7/11/2016	<0.005	<0.005				
7/12/2016			<0.005			<0.005
8/30/2016	<0.005	<0.005	<0.005			
9/1/2016						<0.005
10/19/2016	<0.005	<0.005	<0.005			
10/24/2016						<0.005
12/6/2016	<0.005	<0.005	<0.005			
12/7/2016						<0.005
1/24/2017	<0.005	<0.005	<0.005			
1/26/2017						0.0041 (J)
3/21/2017	<0.005	<0.005	<0.005			
3/22/2017						<0.005
5/22/2017	<0.005	<0.005	<0.005			
5/24/2017						<0.005
4/2/2018	<0.005	<0.005				
4/3/2018			<0.005			
4/4/2018						<0.005
6/4/2018	<0.005	<0.005	<0.005			
6/5/2018						<0.005
10/1/2018	<0.005	<0.005	<0.005			
10/2/2018						0.0023 (J)
3/12/2019	<0.005	<0.005	<0.005			
3/13/2019						0.0015 (J)
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005				
4/3/2019						<0.005
9/23/2019	<0.005	<0.005	<0.005			
9/27/2019						<0.005
3/2/2020	<0.005	<0.005	<0.005			
3/3/2020						<0.005
3/25/2020	<0.005	<0.005	<0.005			
4/1/2020						0.002 (J)
9/15/2020	<0.005	<0.005	<0.005			
9/16/2020				<0.005	<0.005	<0.005
11/10/2020				<0.005	<0.005	
12/15/2020				<0.005	<0.005	
1/19/2021				<0.005	<0.005	
2/8/2021	<0.005					
2/9/2021		<0.005	<0.005	<0.005	<0.005	
2/15/2021						0.0028 (J)
3/10/2021	0.0047 (J)				<0.005	
3/11/2021		<0.005	<0.005	<0.005		
3/12/2021						<0.005
8/11/2021	<0.005			<0.005		
8/12/2021		<0.005	<0.005			
8/13/2021					<0.005	
8/17/2021						<0.005
2/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005	
2/9/2022						0.0031 (J)

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	<0.005	
5/23/2016	0.0106	<0.005	<0.005			<0.005
7/12/2016	0.0057 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	0.0057 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016				<0.005	<0.005	<0.005
10/24/2016	0.0021 (J)	<0.005	<0.005			
12/6/2016				<0.005	0.0024 (J)	0.0037 (J)
12/7/2016	0.0015 (J)	0.0011 (J)	<0.005			
1/25/2017				<0.005	<0.005	
1/26/2017	0.0062 (J)	<0.005	<0.005			<0.005
3/21/2017				<0.005	<0.005	
3/22/2017	0.0263	<0.005	<0.005			<0.005
5/23/2017				<0.005	<0.005	<0.005
5/24/2017	0.0038 (J)	<0.005	<0.005			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	0.021	<0.005	<0.005			
6/5/2018	0.0062 (J)		<0.005	<0.005		
6/6/2018		<0.005			<0.005	<0.005
10/2/2018				<0.005	<0.005	<0.005
10/3/2018	0.009 (J)	<0.005				
10/5/2018			<0.005			
3/12/2019					<0.005	
3/13/2019	0.023		<0.005	<0.005		<0.005
3/14/2019		<0.005				
4/2/2019				<0.005		
4/3/2019	0.016	<0.005			<0.005	<0.005
4/5/2019			0.00018 (J)			
9/24/2019					<0.005	
9/25/2019				<0.005		
9/26/2019			<0.005			
9/27/2019	0.013	<0.005				<0.005
3/3/2020	0.016	<0.005			<0.005	
3/4/2020			<0.005	<0.005		<0.005
3/26/2020		<0.005				
3/27/2020				<0.005	<0.005	
3/30/2020			<0.005			
3/31/2020	0.019					<0.005
9/16/2020				<0.005	<0.005	
9/17/2020						<0.005
9/18/2020	0.0042 (J)	<0.005				
9/21/2020			0.0016 (J)			
2/10/2021				<0.005		
2/12/2021	0.0079 (J)	<0.005				
2/16/2021					<0.005	<0.005
2/22/2021			<0.005			
3/15/2021				<0.005	<0.005	
3/16/2021	0.015	<0.005				<0.005
3/17/2021			<0.005			
8/16/2021				<0.005		
8/17/2021						<0.005
8/18/2021	0.0033 (J)	<0.005			<0.005	
8/19/2021			<0.005			

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.0035 (J)	<0.005				<0.005
2/10/2022			<0.005	<0.005	<0.005	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.005	<0.005		<0.005	<0.005
3/14/2019	<0.005			<0.005		
4/2/2019		<0.005				
4/3/2019	0.007 (J)			<0.005	<0.005	
4/4/2019						0.00012 (J)
4/8/2019			<0.005			
9/25/2019		<0.005				
9/26/2019			<0.005		<0.005	<0.005
9/27/2019	0.0013 (J)			<0.005		
3/2/2020		<0.005				
3/3/2020				<0.005		
3/4/2020	0.0044 (J)		<0.005		<0.005	<0.005
3/26/2020	0.0053 (J)			<0.005		
3/27/2020		<0.005				
3/30/2020			<0.005			
3/31/2020					<0.005	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		<0.005
9/21/2020	0.0033 (J)		<0.005			
2/11/2021		<0.005				
2/12/2021	0.0021 (J)			<0.005		
2/16/2021			<0.005		<0.005	<0.005
3/12/2021						<0.005
3/15/2021		<0.005				
3/16/2021				<0.005		
3/17/2021	<0.005		<0.005		<0.005	
8/17/2021		<0.005			<0.005	<0.005
8/18/2021	0.0026 (J)					
8/19/2021			<0.005	<0.005		
2/9/2022	0.0036 (J)			<0.005	<0.005	
2/10/2022		<0.005	<0.005			<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			0.0033 (J)	<0.005	0.0016 (J)
4/2/2019	<0.005	<0.005			
4/3/2019			0.0027 (J)	<0.005	<0.005
9/24/2019		<0.005			
9/25/2019			0.0021 (J)		
9/26/2019	<0.005			<0.005	0.0014 (J)
3/2/2020		<0.005	0.0041 (J)		
3/3/2020				<0.005	<0.005
3/4/2020	<0.005				
3/26/2020			0.0039 (J)		
3/27/2020	<0.005			<0.005	
3/30/2020		<0.005			0.0014 (J)
9/16/2020		<0.005			
9/17/2020			0.0028 (J)		
9/21/2020	<0.005			<0.005	0.0026 (J)
2/10/2021	<0.005				
2/15/2021		<0.005			<0.005
2/16/2021			0.0035 (J)	<0.005	
3/15/2021	<0.005	<0.005			0.0021 (J)
3/16/2021			0.0026 (J)	<0.005	
8/16/2021		<0.005			
8/17/2021			0.0017 (J)	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					0.0015 (J)
2/9/2022			0.0027 (J)	<0.005	
2/10/2022	<0.005	<0.005			

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	66.9	48.6	42.3			
5/23/2016						175
7/11/2016	41	45				
7/12/2016			44			190
8/30/2016	36	42	40			
9/1/2016						190
10/19/2016	46	44	43			
10/24/2016						190
12/6/2016	59	44	43			
12/7/2016						200
1/24/2017	46	46	48			
1/26/2017						90
3/21/2017	63	46	45			
3/22/2017						170
5/22/2017	77	48	46			
5/24/2017						190
10/3/2017	42	47	48			200
6/4/2018	71.8	47.8	46.6			
6/5/2018						205
10/1/2018	49.1	48.1	48.6			
10/2/2018						178
4/1/2019			50.4			
4/2/2019	84.3	48.7				
4/3/2019						159
9/23/2019	70.2	47.2	43.9			
9/27/2019						181
3/25/2020	85.9	46.3	50.5			
4/1/2020						59
6/16/2020	88.2		49.5			
9/15/2020	47.3	51.5	44.7			
9/16/2020				43	6.9	169
11/10/2020				39	6.3	
12/15/2020				38.8	6.7	
1/19/2021				37.3	7.4	
3/10/2021	49.6				<1	
3/11/2021		52.9	50.4	38.6		
3/12/2021						120
8/11/2021	48.9			30.5		
8/12/2021		47.4	38.6			
8/13/2021					56.1	
8/17/2021						156
2/1/2022	43.7	67.1	46	37.5	56.3	
2/9/2022						49.2

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				96	219	
5/23/2016	260	288	215			207
7/12/2016	390	320	210	100	230	230
9/1/2016	240	300	190	100	230	230
10/20/2016				110	240	240
10/24/2016	370	270	180			
12/6/2016				110	250	240
12/7/2016	260	280	120			
1/25/2017				110	260	
1/26/2017	230	260	83			270
3/21/2017				110	240	
3/22/2017	330	220	100			240
5/23/2017				110	270	240
5/24/2017	230	210	110			
10/3/2017	230	190	67	120	230	240
6/5/2018	204		187	117		
6/6/2018		162			190	214
10/2/2018				120	193	218
10/3/2018	233	191				
10/5/2018			78.3			
4/2/2019				127		
4/3/2019	298	176			194	214
4/5/2019			105			
9/24/2019					133	
9/25/2019				109		
9/26/2019			444			
9/27/2019	<1	198				214
3/26/2020		182				
3/27/2020				109	173	
3/30/2020			393			
3/31/2020	283					185
6/16/2020					157	
6/17/2020				102		
9/16/2020				109	194	
9/17/2020						209
9/18/2020	272	266				
9/21/2020			359			
3/15/2021				107	272	
3/16/2021	291	248				211
3/17/2021			384			
8/16/2021				98.1		
8/17/2021						207
8/18/2021	237	226			245	
8/19/2021			339			
2/9/2022	276	252				224
2/10/2022			371	97.5	224	

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		122				
4/3/2019	105			53	131	
4/4/2019						11.8
4/8/2019			97.3			
9/25/2019		112				
9/26/2019			91		189	15.6
9/27/2019	170			48		
3/26/2020	310			32.3		
3/27/2020		114				
3/30/2020			84.9			
3/31/2020					129	
4/2/2020						13.3
9/17/2020		110			174	
9/18/2020				27.4		7.5
9/21/2020	305		114			
3/12/2021						7.4
3/15/2021		109				
3/16/2021				9.4		
3/17/2021	260		137		212	
8/17/2021		98.6			194	8.2
8/18/2021	219					
8/19/2021			130	4.1		
2/9/2022	221			1.7	224	
2/10/2022		95.9	127			13.2



# Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	67.7	151			
4/3/2019			218	228	75.3
9/24/2019		154			
9/25/2019			134		
9/26/2019	96.2			225	129
3/26/2020			176		
3/27/2020	36			204	
3/30/2020		130			46.2
9/16/2020		143			
9/17/2020			153		
9/21/2020	84.2			221	114
3/15/2021	50.1	148			92.1
3/16/2021			162	189	
8/16/2021		136			
8/17/2021			154	194	105
8/18/2021	82.1				
2/8/2022					80.4
2/9/2022			123	197	
2/10/2022	32.5	141			

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.001	<0.001	<0.001			
5/23/2016						<0.001
7/11/2016	<0.001	<0.001				
7/12/2016			<0.001			<0.001
8/30/2016	<0.001	<0.001	<0.001			
9/1/2016						<0.001
10/19/2016	<0.001	<0.001	<0.001			
10/24/2016						<0.001
12/6/2016	<0.001	<0.001	<0.001			
12/7/2016						<0.001
1/24/2017	<0.001	<0.001	<0.001			
1/26/2017						<0.001
3/21/2017	<0.001	3E-05 (J)	<0.001			
3/22/2017						<0.001
5/22/2017	<0.001	<0.001	<0.001			
5/24/2017						<0.001
4/2/2018	<0.001	<0.001				
4/3/2018			<0.001			
4/4/2018						<0.001
6/4/2018	<0.001	<0.001	<0.001			
6/5/2018						<0.001
10/1/2018	<0.001	<0.001	<0.001			
10/2/2018						<0.001
3/12/2019	<0.001	<0.001	<0.001			
3/13/2019						<0.001
4/1/2019			<0.001			
4/2/2019	<0.001	<0.001				
4/3/2019						<0.001
9/23/2019	<0.001	<0.001	<0.001			
9/27/2019						<0.001
3/2/2020	<0.001	<0.001	<0.001			
3/3/2020						<0.001
3/25/2020	<0.001	<0.001	<0.001			
4/1/2020						<0.001
9/15/2020	<0.001	<0.001	<0.001			
9/16/2020				<0.001	<0.001	<0.001
11/10/2020				<0.001	<0.001	
12/15/2020				<0.001	<0.001	
1/19/2021				<0.001	<0.001	
2/8/2021	<0.001					
2/9/2021		<0.001	<0.001	<0.001	<0.001	
2/15/2021						<0.001
3/10/2021	<0.001				<0.001	
3/11/2021		<0.001	<0.001	<0.001		
3/12/2021						<0.001
8/11/2021	<0.001			<0.001		
8/12/2021		<0.001	<0.001			
8/13/2021					<0.001	
8/17/2021						<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
2/9/2022						<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2022 2:35 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.001	<0.001	
5/23/2016	<0.001	<0.001	0.000378 (J)			<0.001
7/12/2016	8E-05 (J)	0.0002 (J)	0.0004 (J)	<0.001	7E-05 (J)	<0.001
9/1/2016	<0.001	<0.001	0.0004 (J)	<0.001	<0.001	<0.001
10/20/2016				<0.001	<0.001	<0.001
10/24/2016	<0.001	<0.001	0.0005 (J)			
12/6/2016				<0.001	<0.001	<0.001
12/7/2016	<0.001	<0.001	0.0004 (J)			
1/25/2017				<0.001	<0.001	
1/26/2017	<0.001	<0.001	0.0004 (J)			<0.001
3/21/2017				<0.001	9E-05 (J)	
3/22/2017	<0.001	0.0001 (J)	0.0004 (J)			<0.001
5/23/2017				<0.001	8E-05 (J)	<0.001
5/24/2017	8E-05 (J)	9E-05 (J)	0.0003 (J)			
4/3/2018				<0.001	<0.001	<0.001
4/4/2018	<0.001	<0.001	0.00032 (J)			
6/5/2018	<0.001		0.00035 (J)	<0.001		
6/6/2018		<0.001			<0.001	<0.001
10/2/2018				<0.001	<0.001	<0.001
10/3/2018	<0.001	<0.001				
10/5/2018			0.00025 (J)			
3/12/2019					<0.001	
3/13/2019	<0.001		0.00039 (J)	<0.001		<0.001
3/14/2019		<0.001				
4/2/2019				<0.001		
4/3/2019	<0.001	<0.001			<0.001	<0.001
4/5/2019			0.00034 (J)			
9/24/2019					0.00011 (J)	
9/25/2019				<0.001		
9/26/2019			0.00039 (J)			
9/27/2019	<0.001	8.8E-05 (J)				<0.001
3/3/2020	<0.001	6.6E-05 (J)			6.1E-05 (J)	
3/4/2020			0.00056 (J)	<0.001		<0.001
3/26/2020		8E-05 (J)				
3/27/2020				<0.001	7.7E-05 (J)	
3/30/2020			0.00048 (J)			
3/31/2020	<0.001					<0.001
9/16/2020				<0.001	<0.001	
9/17/2020						<0.001
9/18/2020	<0.001	<0.001				
9/21/2020			0.00036 (J)			
2/10/2021				<0.001		
2/12/2021	<0.001	<0.001				
2/16/2021					<0.001	<0.001
2/22/2021			0.0003 (J)			
3/15/2021				<0.001	<0.001	
3/16/2021	<0.001	<0.001				<0.001
3/17/2021			0.00037 (J)			
8/16/2021				<0.001		
8/17/2021						<0.001
8/18/2021	<0.001	<0.001			<0.001	
8/19/2021			0.0002 (J)			

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	<0.001	<0.001				<0.001
2/10/2022			<0.001	<0.001	<0.001	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.001	<0.001		<0.001	<0.001
3/14/2019	<0.001			<0.001		
4/2/2019		<0.001				
4/3/2019	<0.001			<0.001	<0.001	
4/4/2019						<0.001
4/8/2019			<0.001			
9/25/2019		<0.001				
9/26/2019			<0.001		<0.001	<0.001
9/27/2019	0.00027 (J)			<0.001		
3/2/2020		<0.001				
3/3/2020				<0.001		
3/4/2020	0.00026 (J)		<0.001		<0.001	<0.001
3/26/2020	0.00026 (J)			<0.001		
3/27/2020		<0.001				
3/30/2020			<0.001			
3/31/2020					<0.001	
4/2/2020						<0.001
9/17/2020		<0.001			<0.001	
9/18/2020				<0.001		<0.001
9/21/2020	0.0003 (J)		<0.001			
2/11/2021		<0.001				
2/12/2021	0.00019 (J)			<0.001		
2/16/2021			<0.001		<0.001	<0.001
3/12/2021						<0.001
3/15/2021		<0.001				
3/16/2021				<0.001		
3/17/2021	0.00026 (J)		<0.001		<0.001	
8/17/2021		<0.001			<0.001	<0.001
8/18/2021	0.00023 (J)					
8/19/2021			<0.001	<0.001		
2/9/2022	<0.001			<0.001	<0.001	
2/10/2022		<0.001	<0.001			<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2022 2:35 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.001	<0.001			
3/13/2019			<0.001	<0.001	<0.001
4/2/2019	<0.001	<0.001			
4/3/2019			<0.001	<0.001	<0.001
9/24/2019		6.4E-05 (J)			
9/25/2019			<0.001		
9/26/2019	<0.001			<0.001	<0.001
3/2/2020		<0.001	<0.001		
3/3/2020				8.2E-05 (J)	<0.001
3/4/2020	9.2E-05 (J)				
3/26/2020			<0.001		
3/27/2020	<0.001			<0.001	
3/30/2020		<0.001			<0.001
9/16/2020		<0.001			
9/17/2020			<0.001		
9/21/2020	<0.001			<0.001	<0.001
2/10/2021	<0.001				
2/15/2021		<0.001			<0.001
2/16/2021			<0.001	<0.001	
3/15/2021	<0.001	<0.001			<0.001
3/16/2021			<0.001	<0.001	
8/16/2021		<0.001			
8/17/2021			<0.001	<0.001	<0.001
8/18/2021	<0.001				
2/8/2022					<0.001
2/9/2022			<0.001	<0.001	
2/10/2022	<0.001	<0.001			

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	421	143	267			
5/23/2016						629
7/11/2016	363	125				
7/12/2016			249			661
8/30/2016	330	168	254			
9/1/2016						769
10/19/2016	380	176	357			
10/24/2016						643
12/6/2016	377	145	285			
12/7/2016						697
1/24/2017	342	129	300			
1/26/2017						368
3/21/2017	340	103	288			
3/22/2017						683
5/22/2017	338	92	263			
5/24/2017						696
10/3/2017	343	127	300			746
6/4/2018	415	140	266			
6/5/2018						679
10/1/2018	354	135	291			
10/2/2018						572
4/1/2019			284			
4/2/2019	452	133				
4/3/2019						525
9/23/2019	442	129	268			
9/27/2019						624
3/25/2020	496	138	284			
4/1/2020						290
6/16/2020	632		448			
9/15/2020	265	124	258			
9/16/2020				272	270	490
11/10/2020				307	287	
12/15/2020				289	295	
1/19/2021				270	278	
3/10/2021	348				289	
3/11/2021		169	267	279		
3/12/2021						490 (H1)
8/11/2021	366			277		
8/12/2021		118	265			
8/13/2021					436	
8/17/2021						496
2/1/2022	270	156	350	156	444	
2/9/2022						250

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				427	711	
5/23/2016	564	1060	683			984
7/12/2016	627	909	563	410	704	887
9/1/2016	656	1480	702	484	763	956
10/20/2016				393	644	642
10/24/2016	836	868	647			
12/6/2016				492	733	899
12/7/2016	748	811	465			
1/25/2017				461	744	
1/26/2017	571	846	411			869
3/21/2017				415	818	
3/22/2017	597	804	427			936
5/23/2017				450	765	939
5/24/2017	566	803	377			
10/3/2017	443	608	268	464	812	1040
6/5/2018	489		528	459		
6/6/2018		535			611	810
10/2/2018				426	597	693
10/3/2018	449	607				
10/5/2018			322			
4/2/2019				428		
4/3/2019	483	462			543	673
4/5/2019			331			
9/24/2019					457	
9/25/2019				503		
9/26/2019			1010			
9/27/2019	528	653				730
3/26/2020		533				
3/27/2020				413	541	
3/30/2020			895			
3/31/2020	565					1010
6/16/2020					573	
6/17/2020				423		
9/16/2020				392	552	
9/17/2020						680
9/18/2020	626	704				
9/21/2020			732			
3/15/2021				370	614	
3/16/2021	558	614				672
3/17/2021			716			
8/16/2021				407		
8/17/2021						704
8/18/2021	566	600			620	
8/19/2021			726			
2/9/2022	544	678				756
2/10/2022			814	414	578	



# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		435				
4/3/2019	310			15 (J)	493	
4/4/2019						203
4/8/2019			323			
9/25/2019		461				
9/26/2019			360		643	265
9/27/2019	442			409		
3/26/2020	626			385		
3/27/2020		429				
3/30/2020			280			
3/31/2020					623	
4/2/2020						224
9/17/2020		460			732	
9/18/2020				382		211
9/21/2020	608		391			
3/12/2021						215
3/15/2021		406				
3/16/2021				347		
3/17/2021	543		420		738	
8/17/2021		437			746	239
8/18/2021	464					
8/19/2021			420	373		
2/9/2022	503			364	734	
2/10/2022		459	412			242

# Time Series

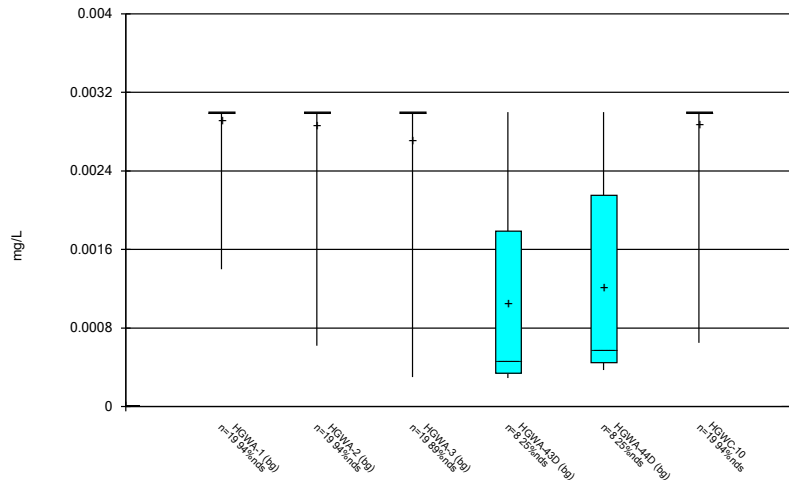
Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	350	548			
4/3/2019			396	437	213
9/24/2019		603			
9/25/2019			460		
9/26/2019	418			735	383
3/26/2020			385		
3/27/2020	287			676	
3/30/2020		552			142
9/16/2020		547			
9/17/2020			486		
9/21/2020	393			656	326
3/15/2021	293	555			293
3/16/2021			333	600	
8/16/2021		512			
8/17/2021			339	656	344
8/18/2021	396				
2/8/2022					290
2/9/2022			314	652	
2/10/2022	299	508			

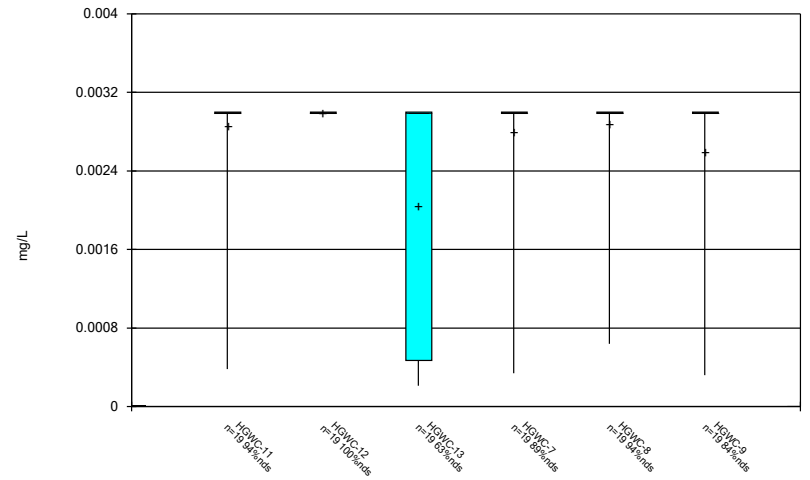
FIGURE B.

Box & Whiskers Plot



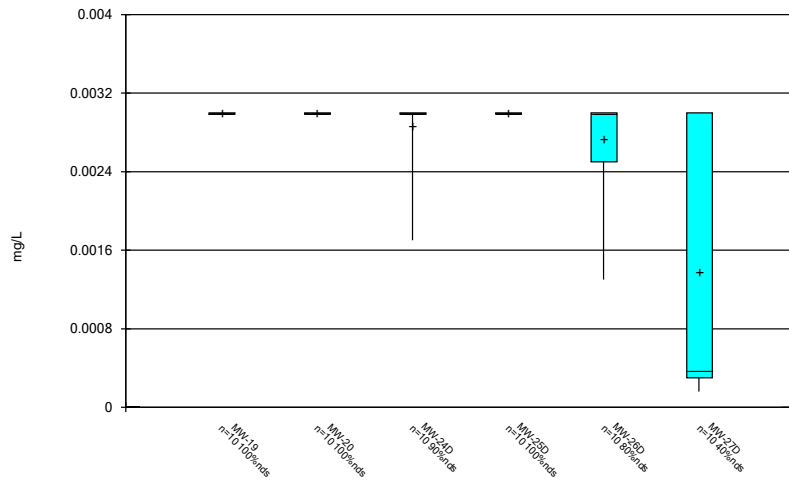
Constituent: Antimony Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



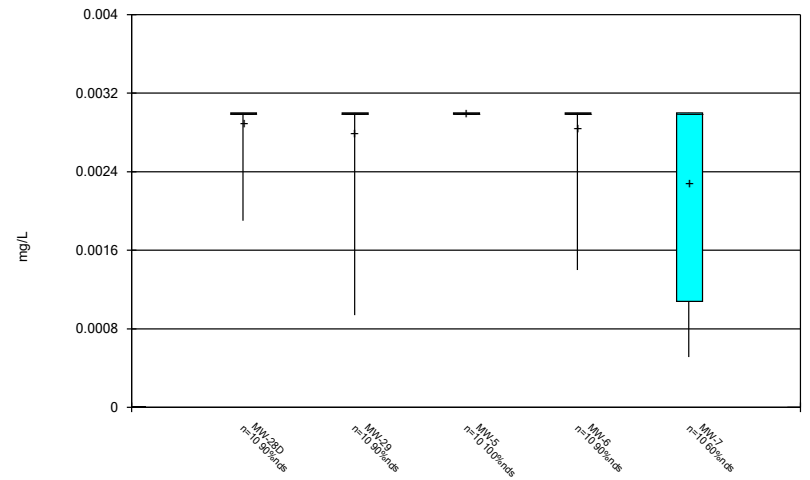
Constituent: Antimony Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



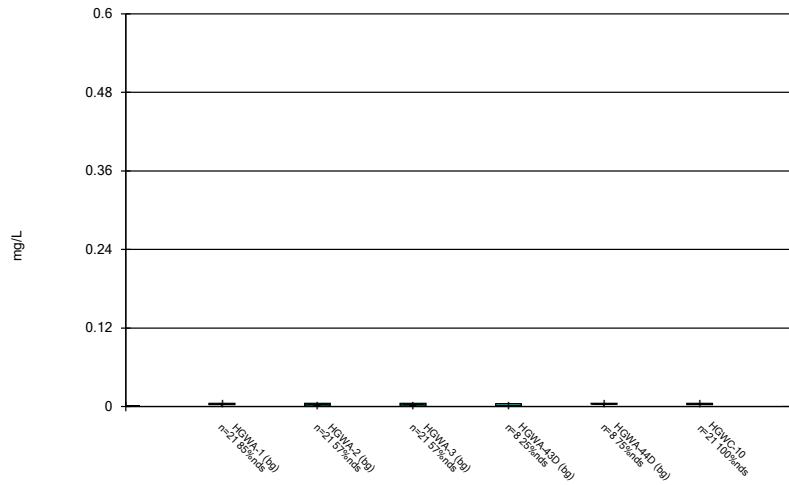
Constituent: Antimony Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



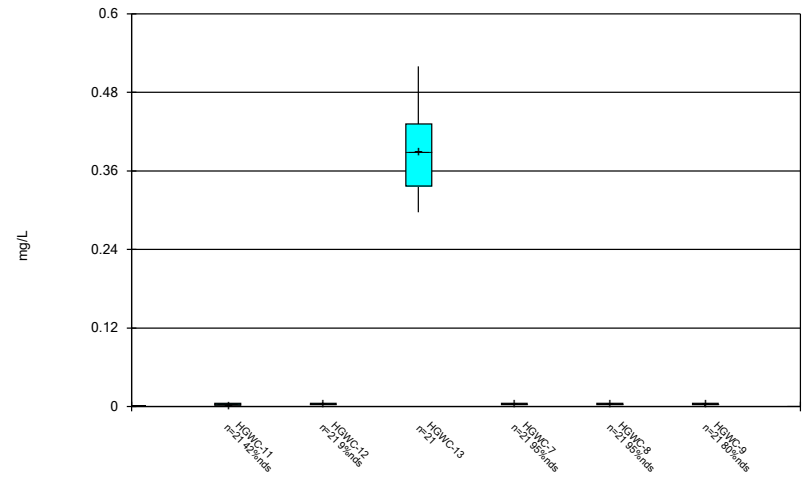
Constituent: Antimony Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



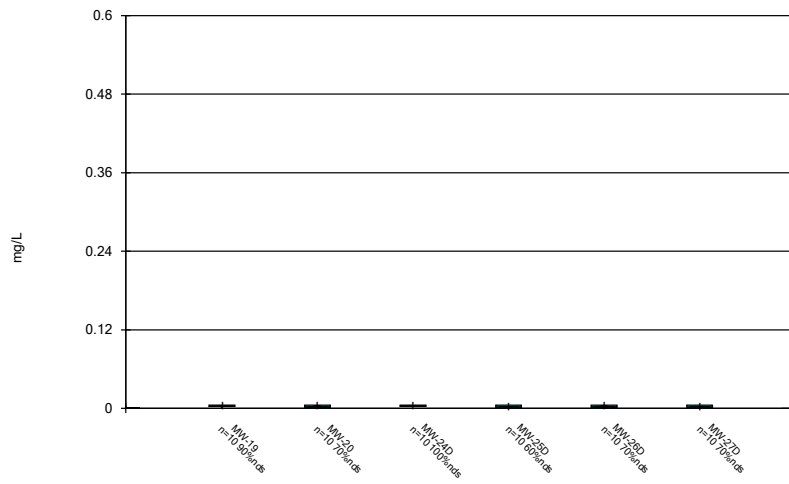
Constituent: Arsenic Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



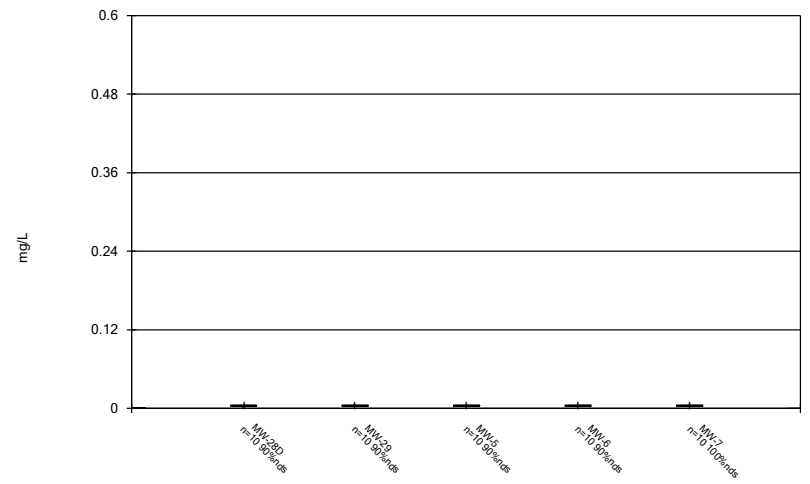
Constituent: Arsenic Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



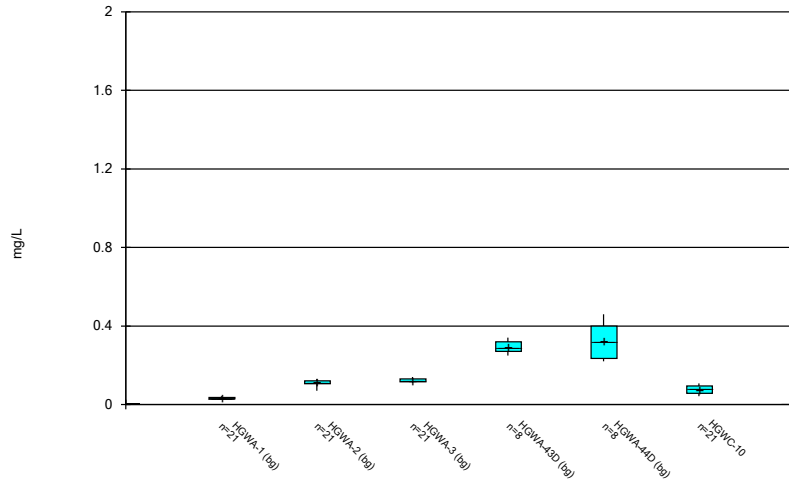
Constituent: Arsenic Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



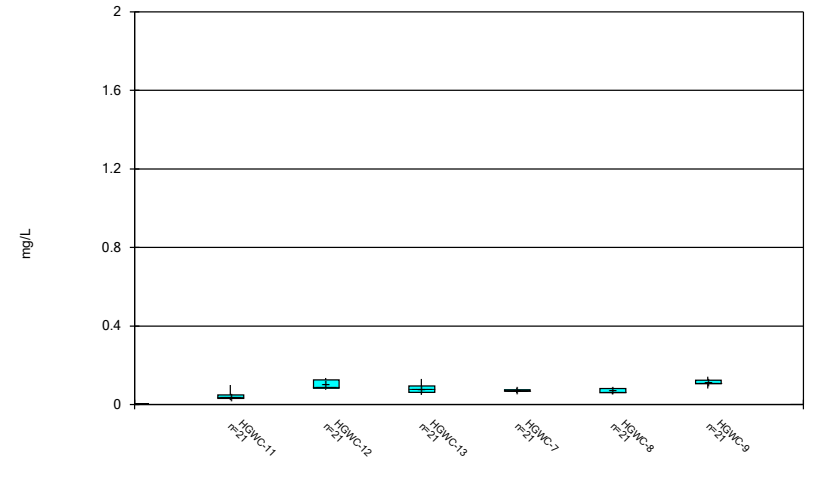
Constituent: Arsenic Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



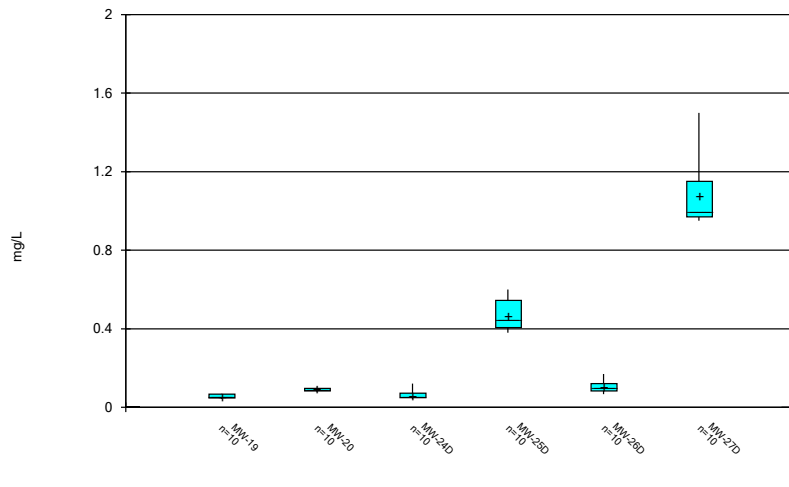
Constituent: Barium Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



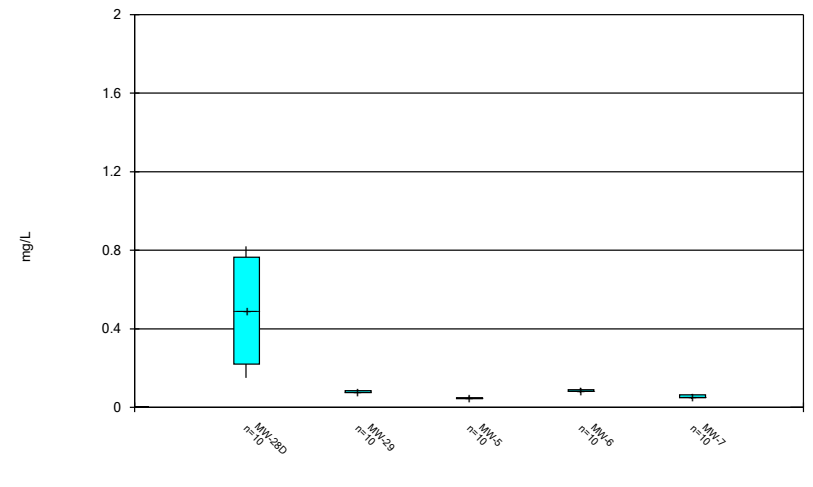
Constituent: Barium Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



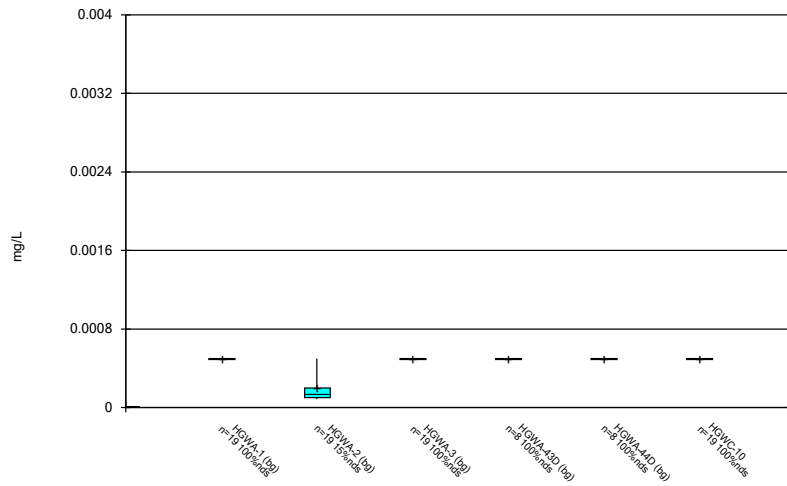
Constituent: Barium Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



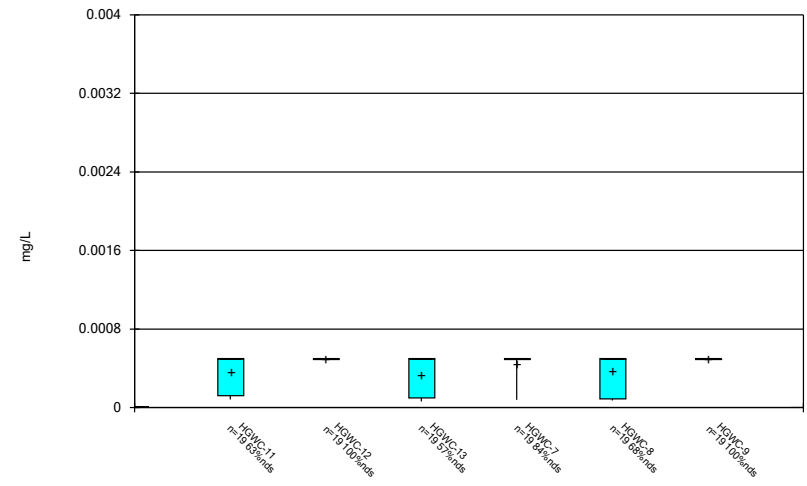
Constituent: Barium Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



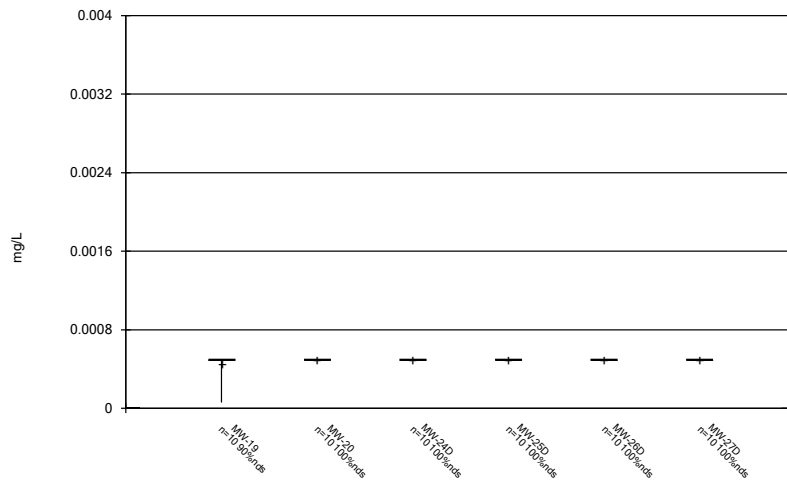
Constituent: Beryllium Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



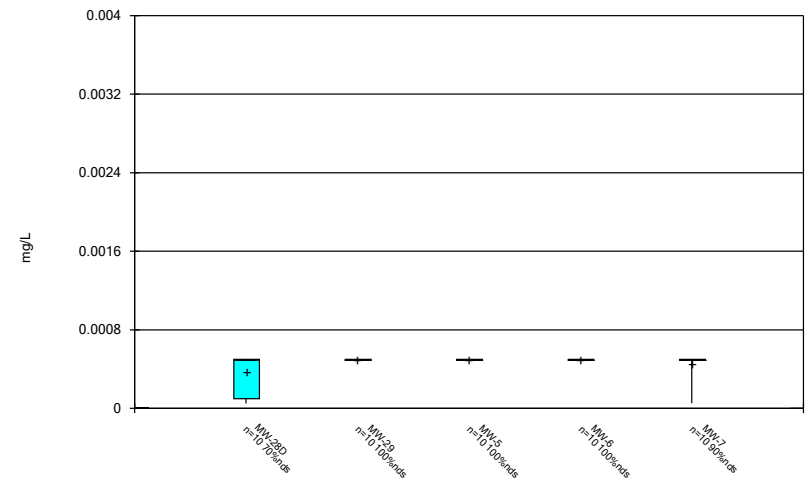
Constituent: Beryllium Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



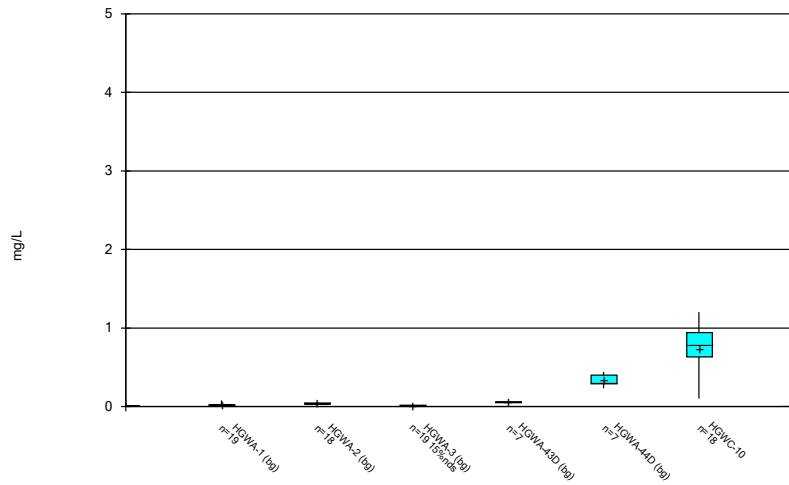
Constituent: Beryllium Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



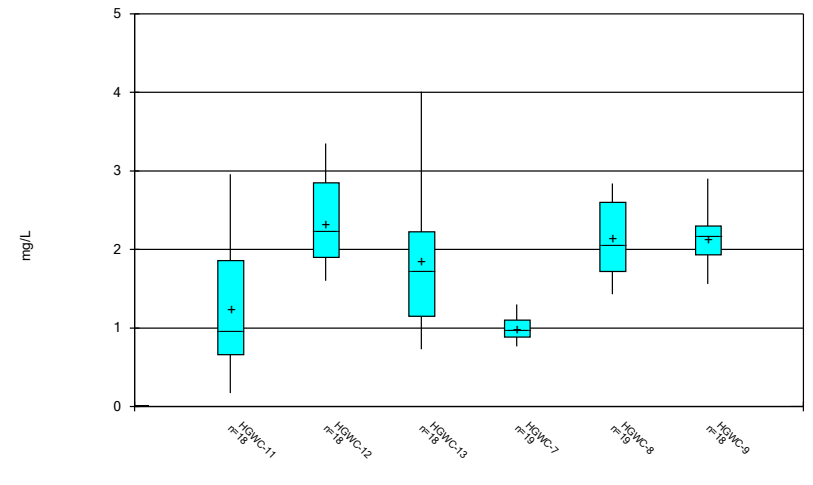
Constituent: Beryllium Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



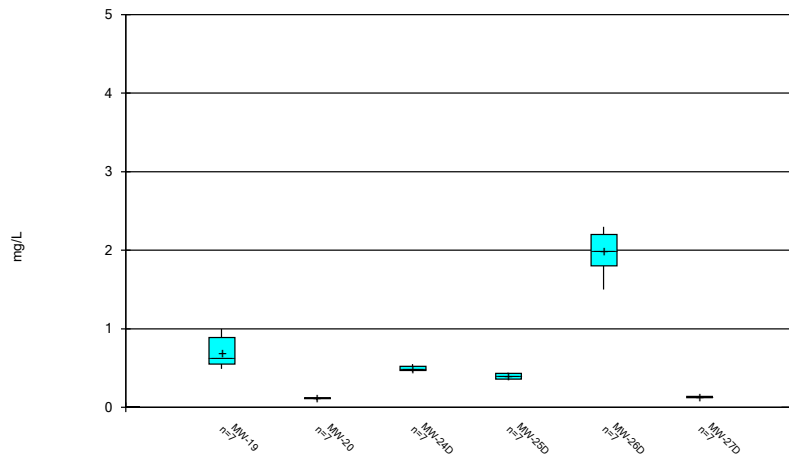
Constituent: Boron Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



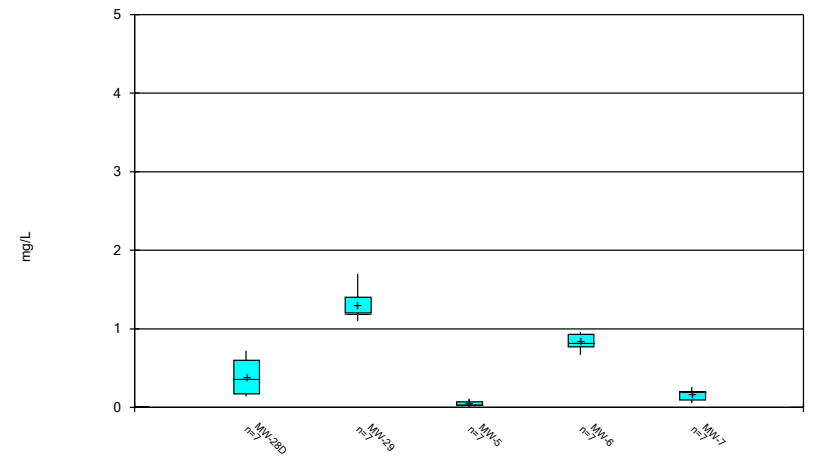
Constituent: Boron Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



Constituent: Boron Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

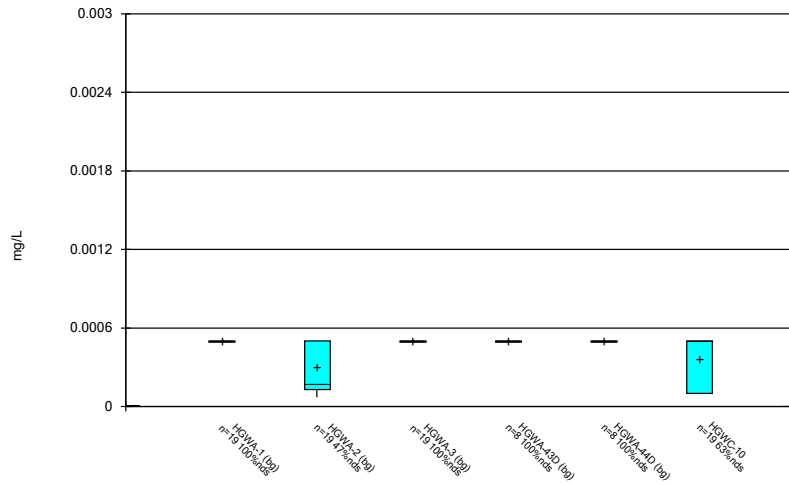
### Box & Whiskers Plot



Constituent: Boron Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

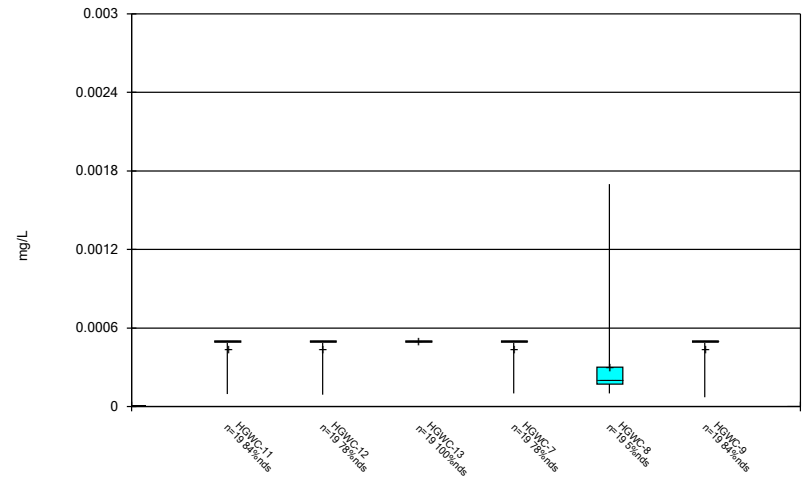


### Box & Whiskers Plot



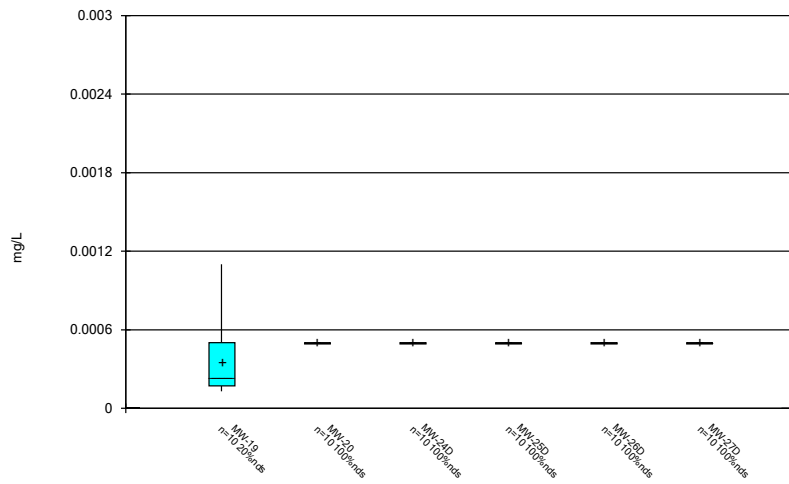
Constituent: Cadmium Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



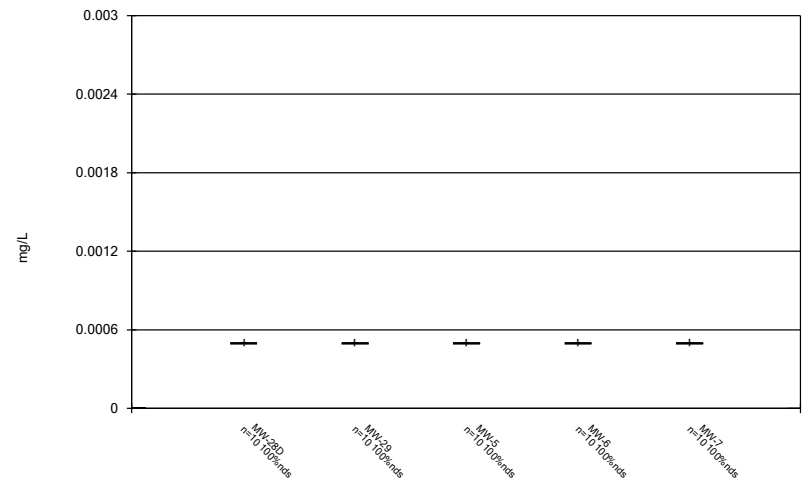
Constituent: Cadmium Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



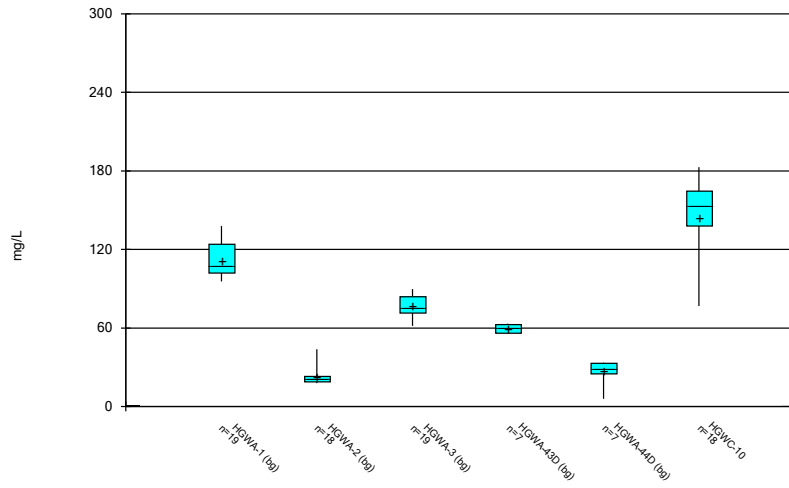
Constituent: Cadmium Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



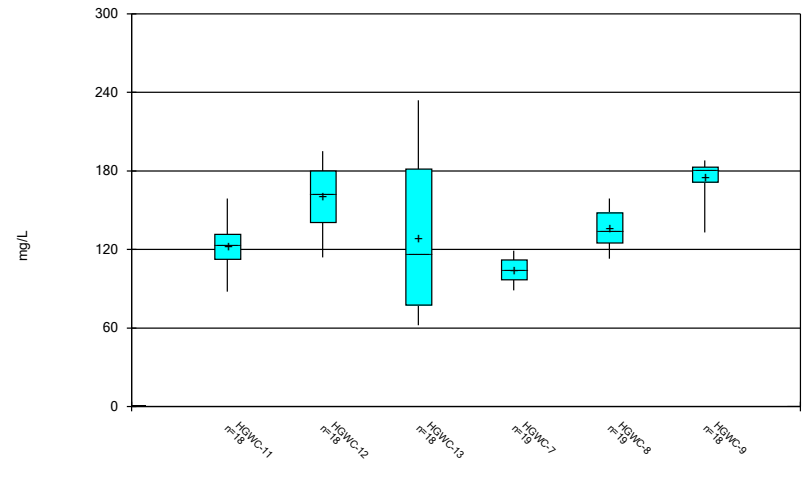
Constituent: Cadmium Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



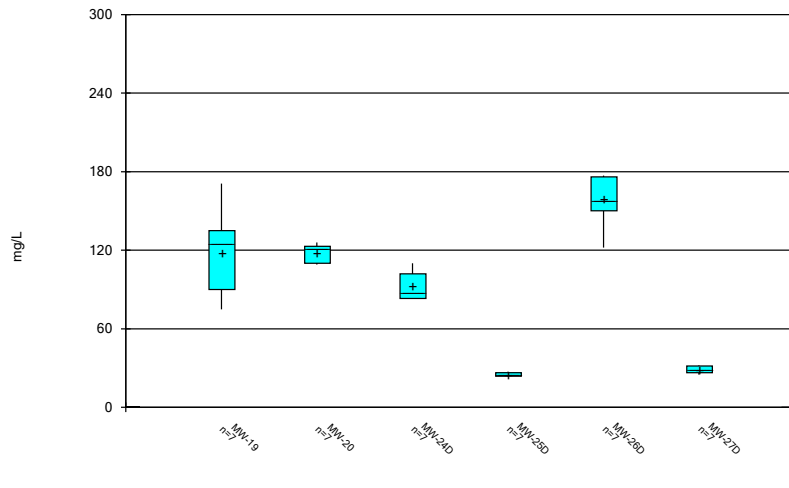
Constituent: Calcium Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



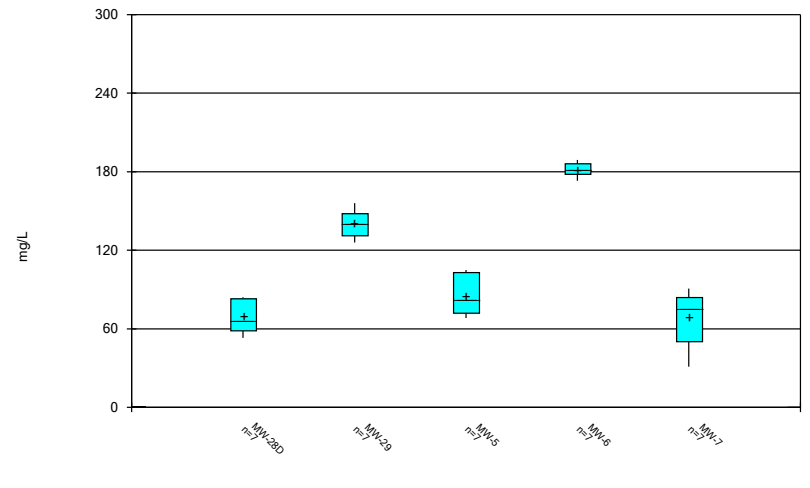
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



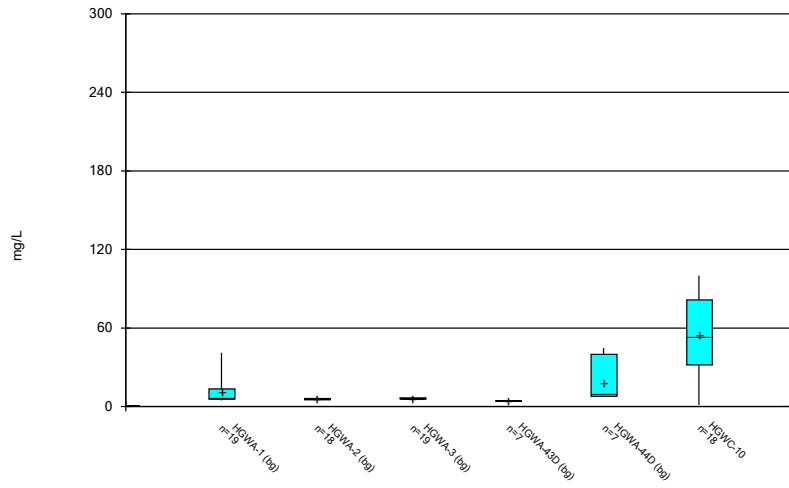
Constituent: Calcium Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



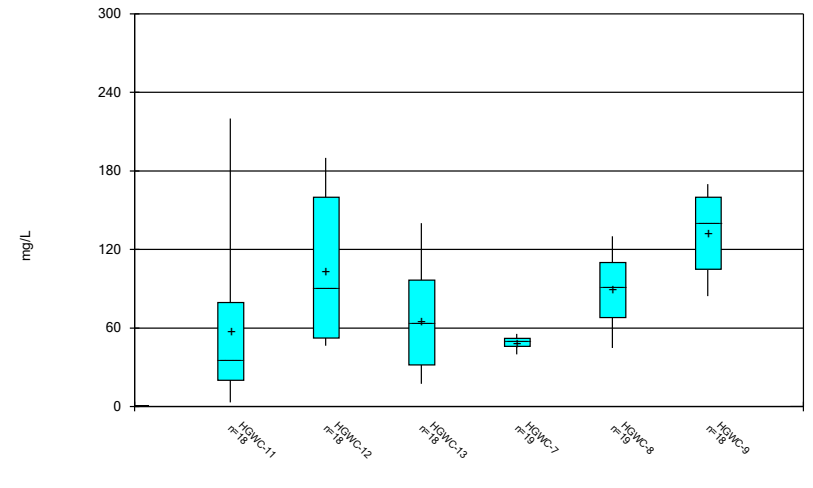
Constituent: Calcium Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



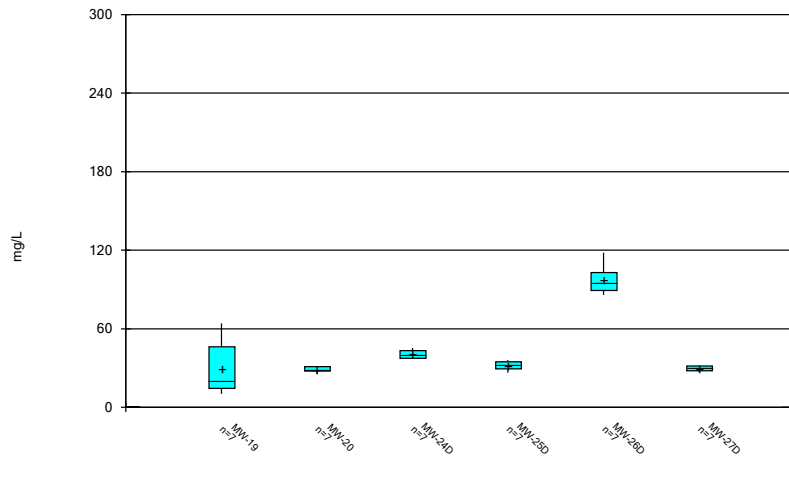
Constituent: Chloride Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



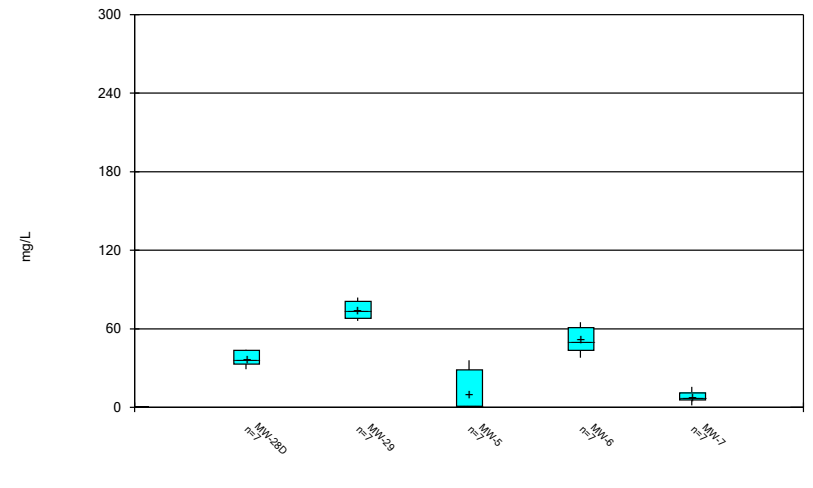
Constituent: Chloride Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



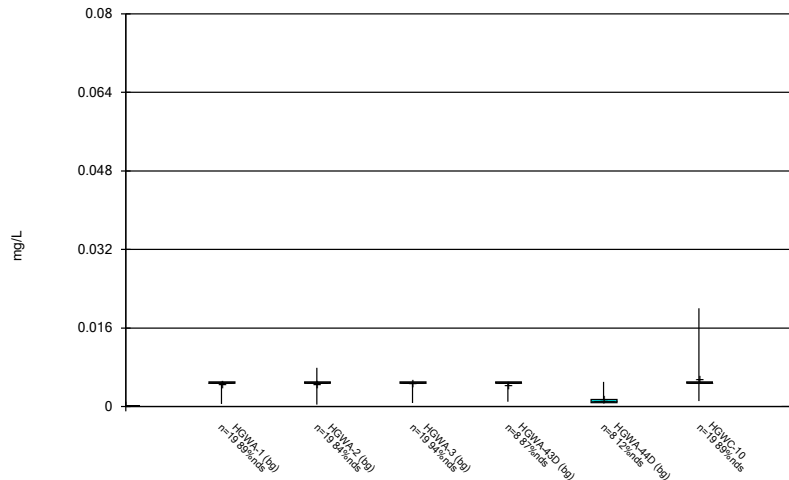
Constituent: Chloride Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



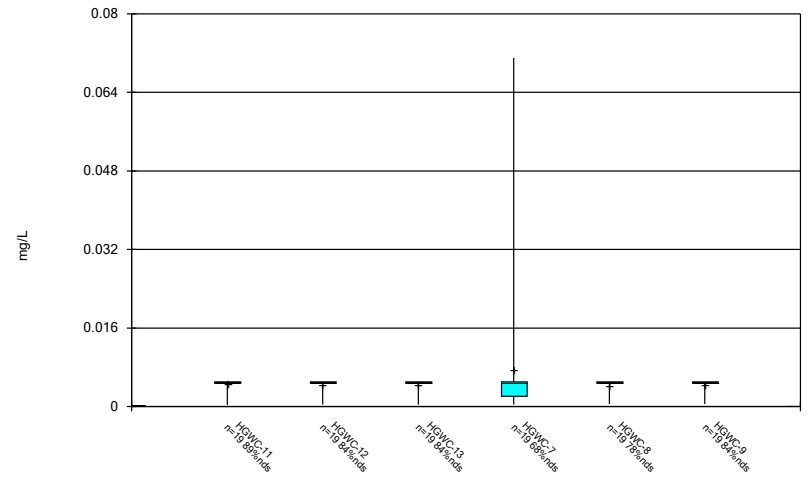
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



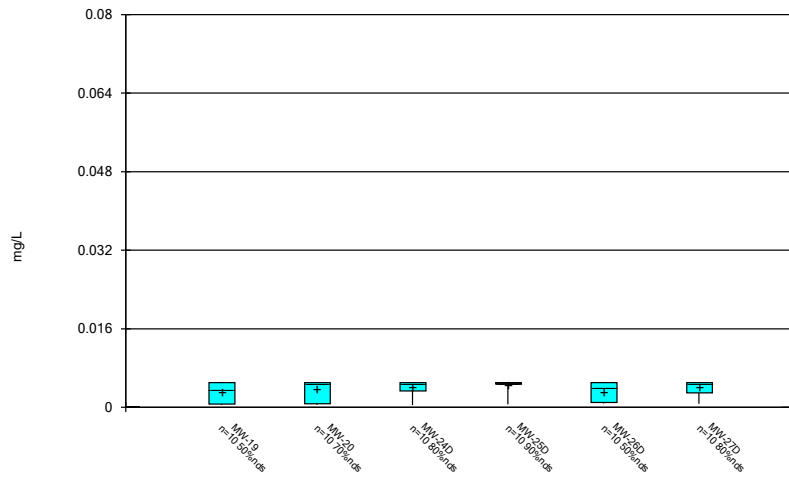
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



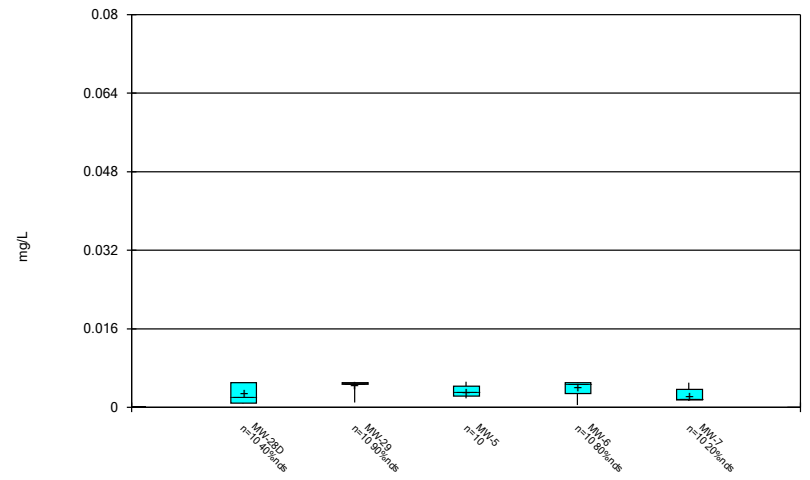
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



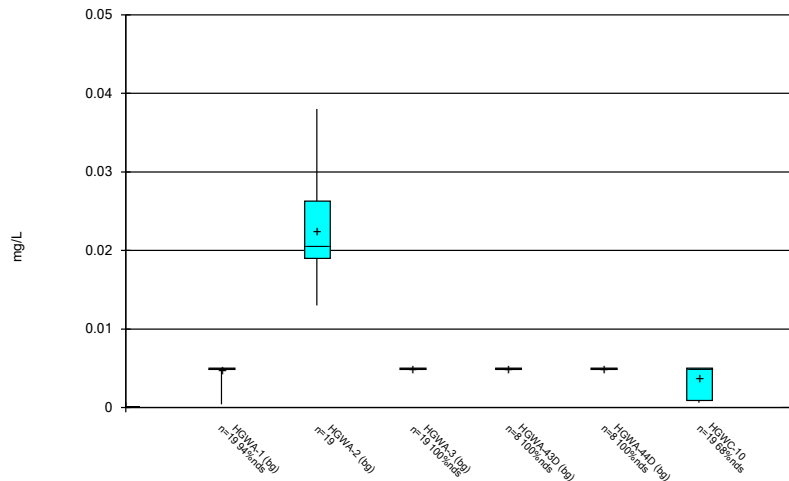
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



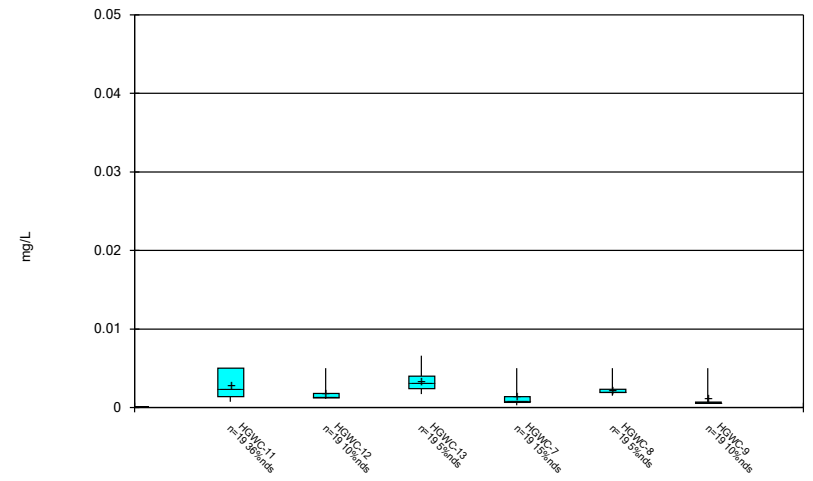
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



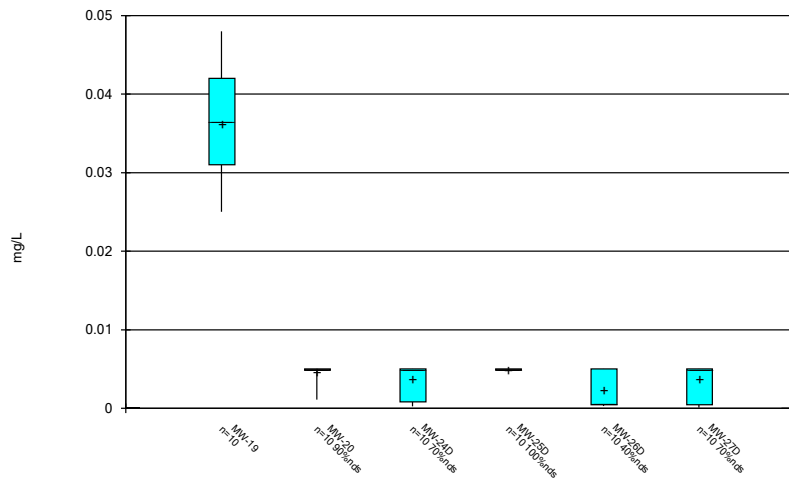
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



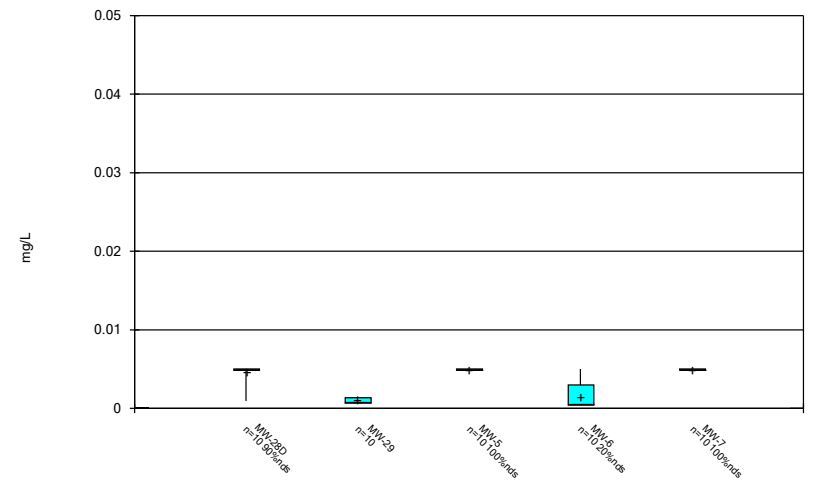
Constituent: Cobalt Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



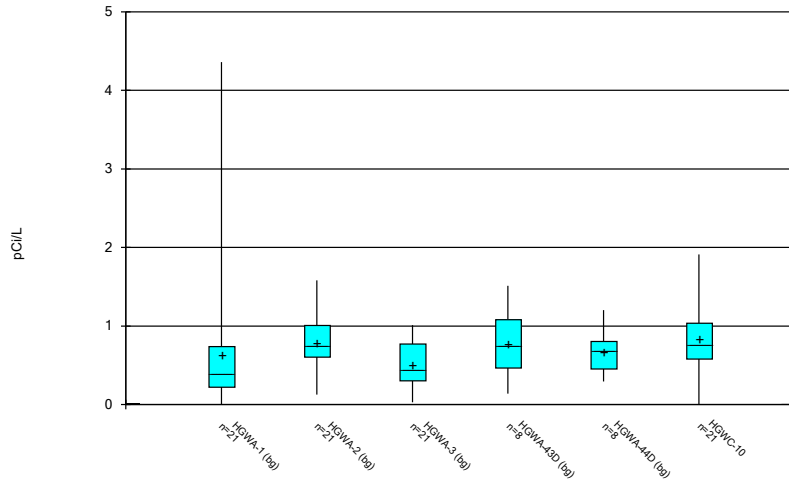
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



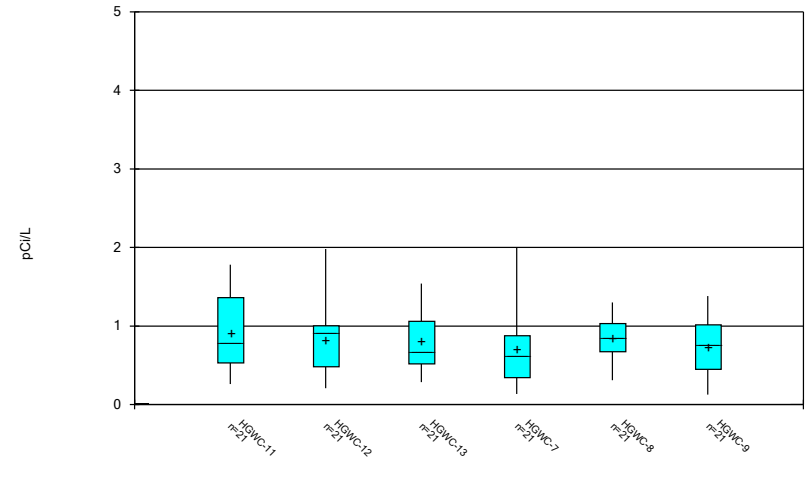
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



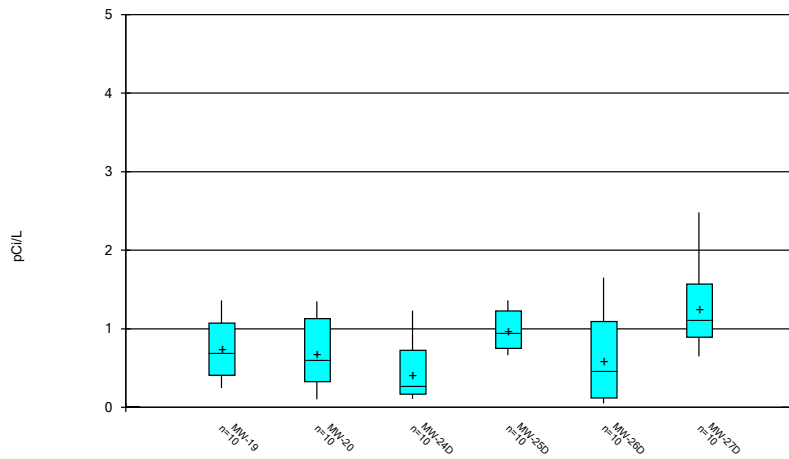
Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



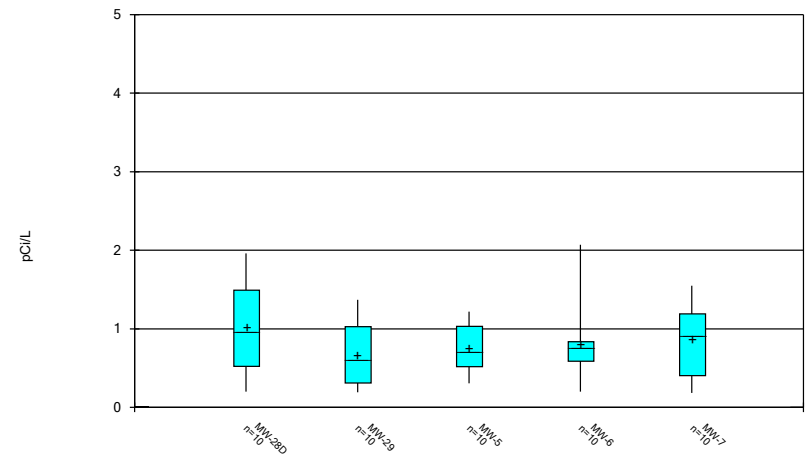
Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



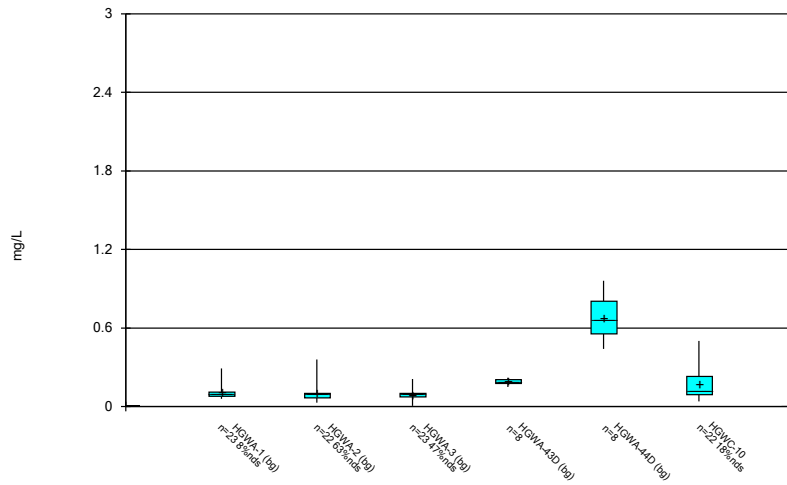
Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



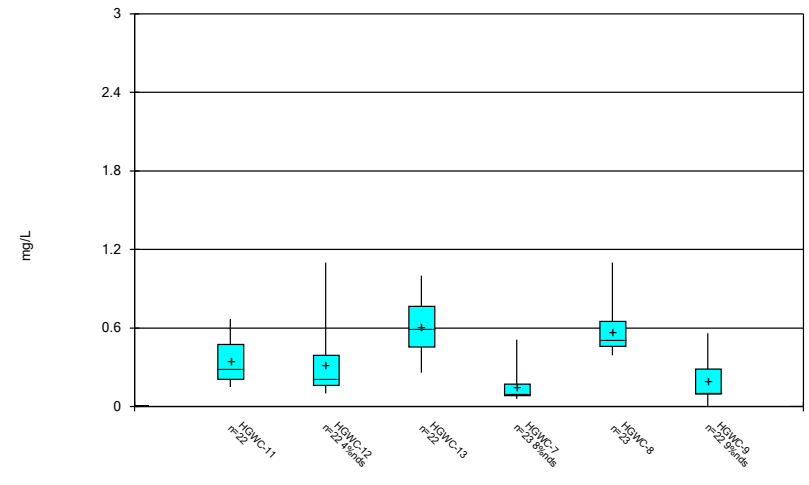
Constituent: Combined Radium 226 + 228 Analysis Run 4/25/2022 2:36 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



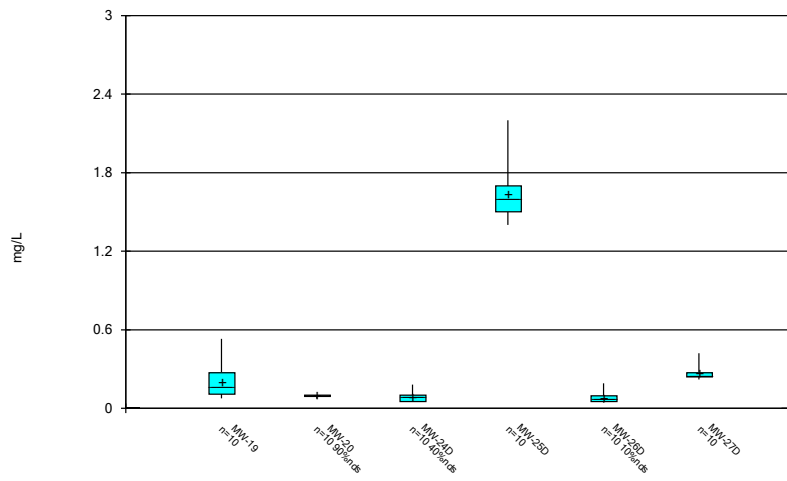
Constituent: Fluoride Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



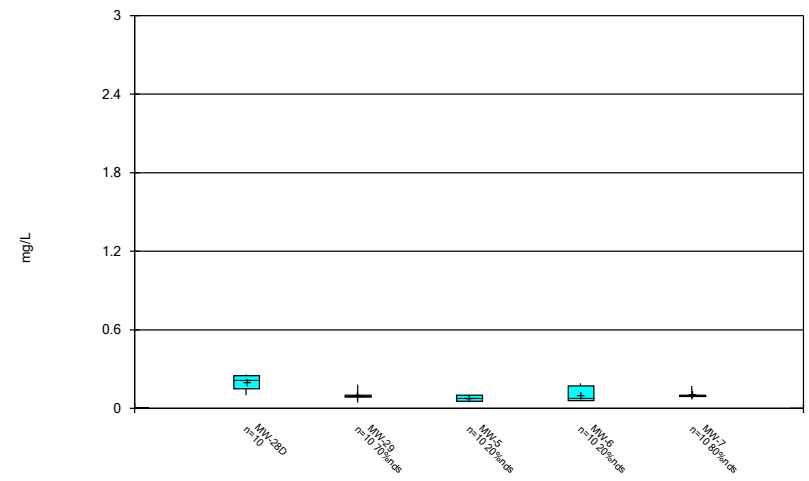
Constituent: Fluoride Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



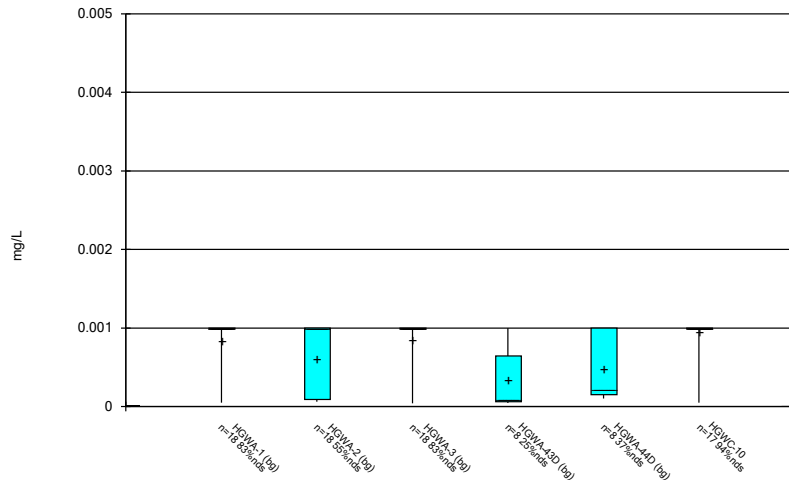
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



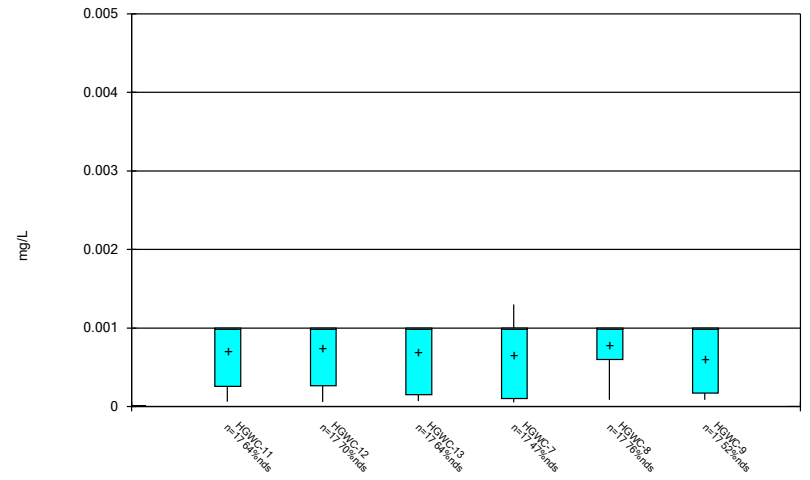
Constituent: Fluoride Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



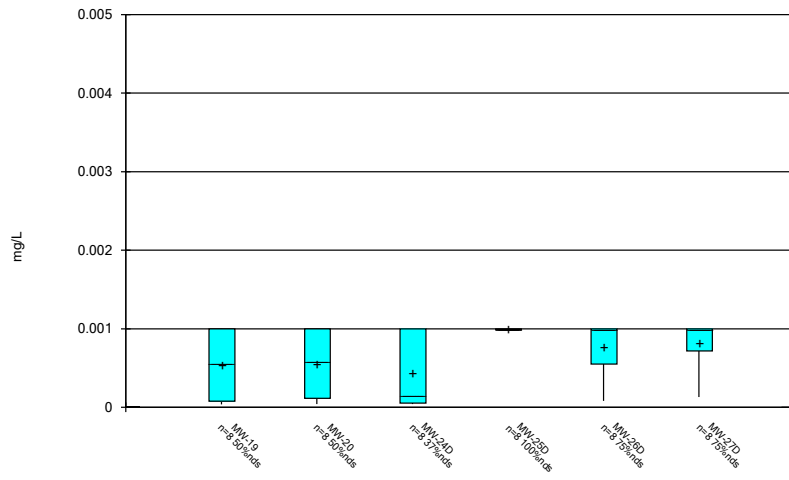
Constituent: Lead Analysis Run 4/25/2022 2:36 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



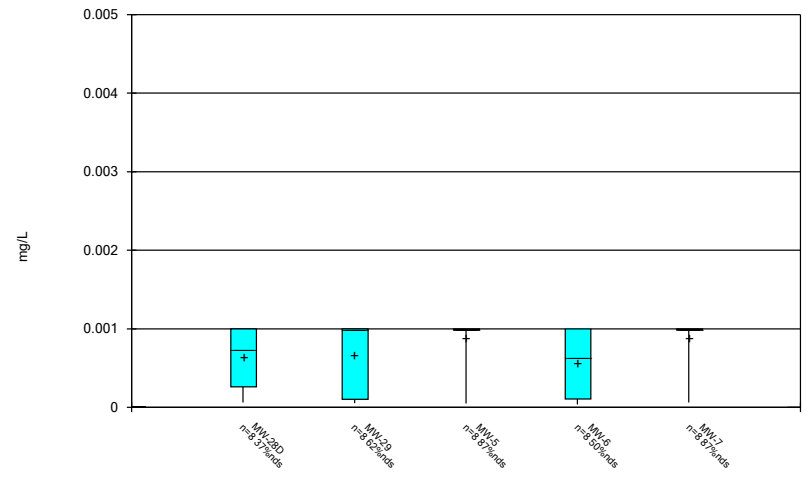
Constituent: Lead Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



Constituent: Lead Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

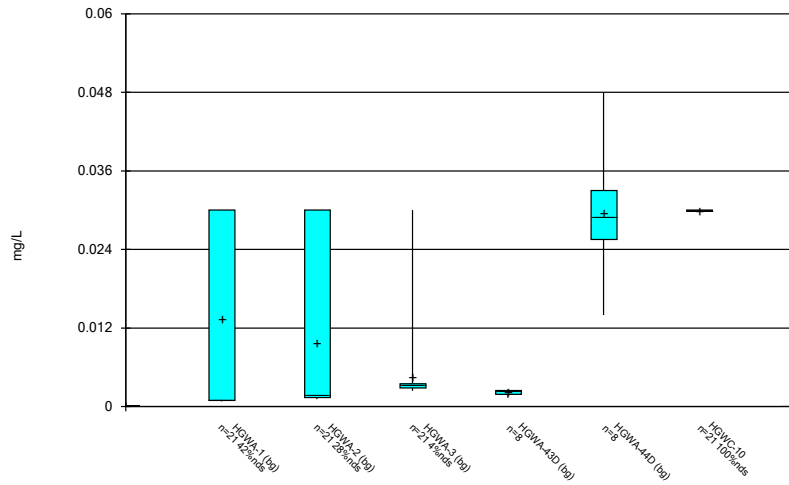
Box & Whiskers Plot



Constituent: Lead Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

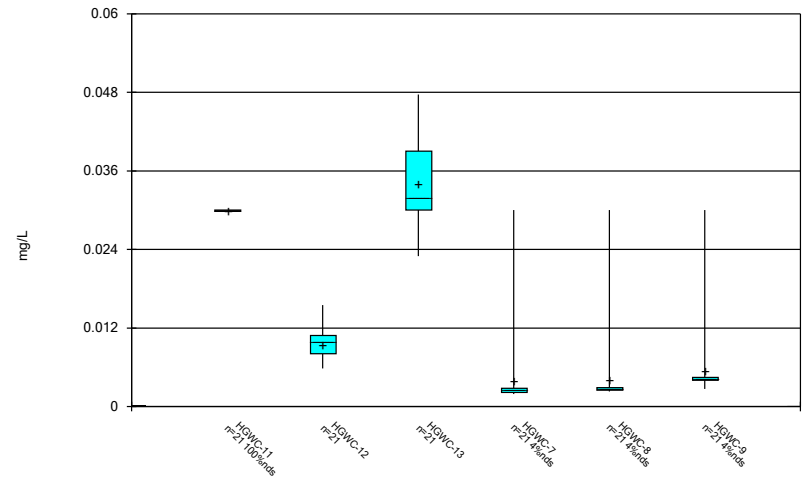


### Box & Whiskers Plot



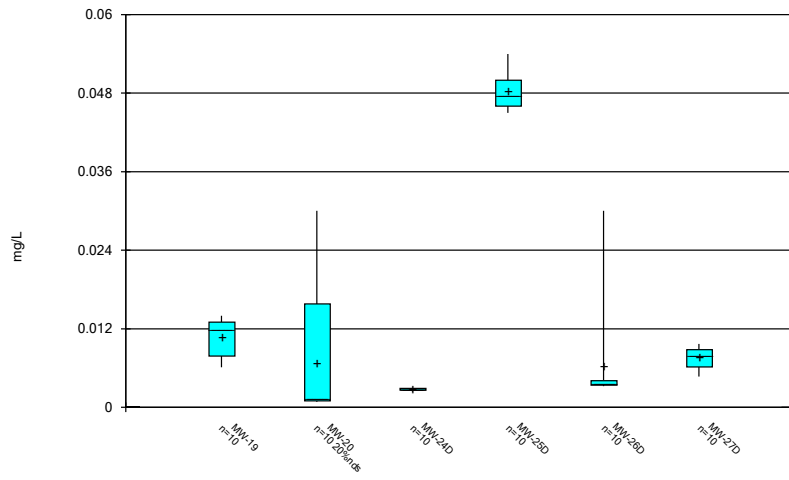
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



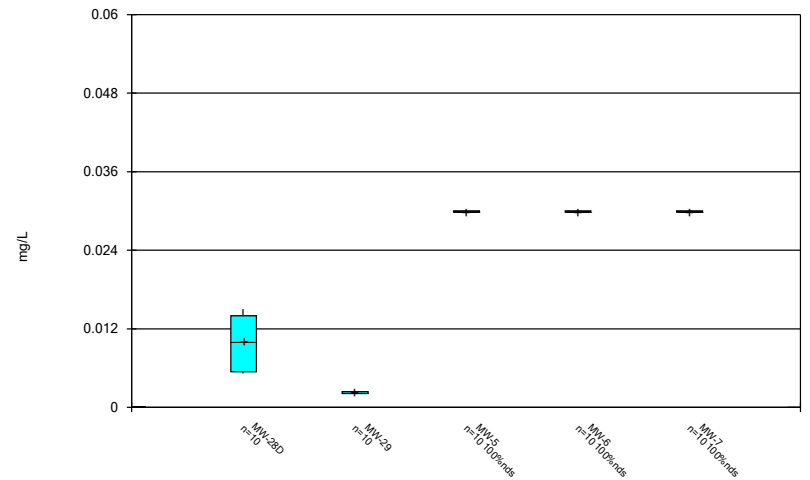
Constituent: Lithium Analysis Run 4/25/2022 2:37 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



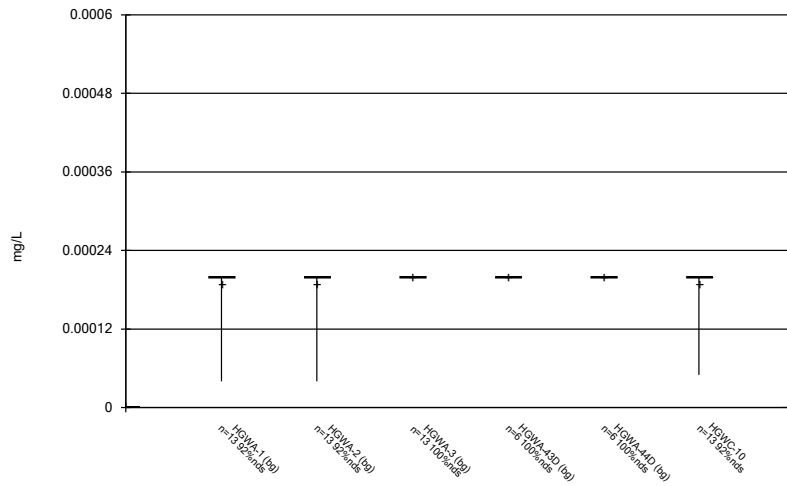
Constituent: Lithium Analysis Run 4/25/2022 2:37 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



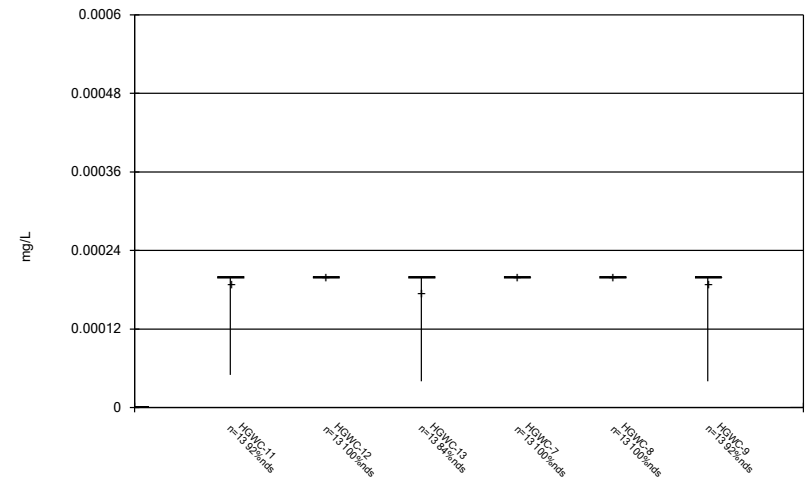
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



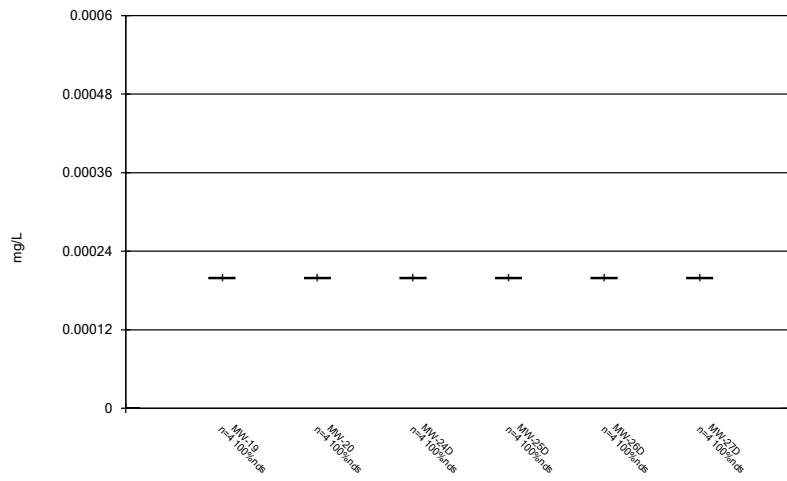
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



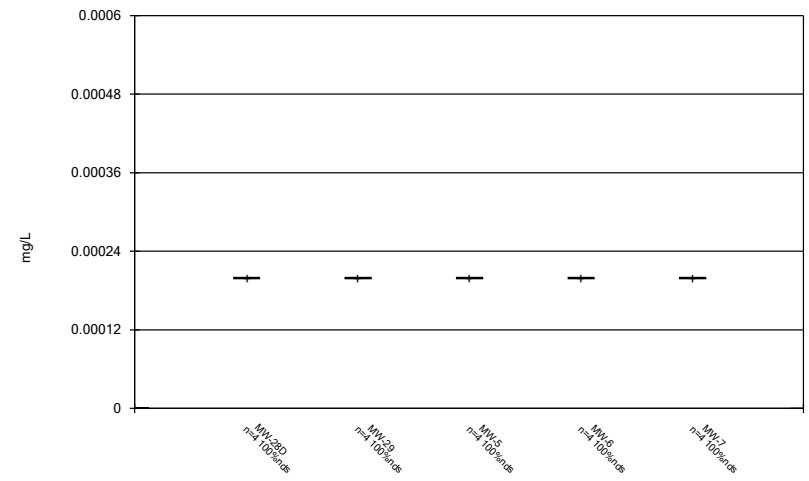
Constituent: Mercury Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



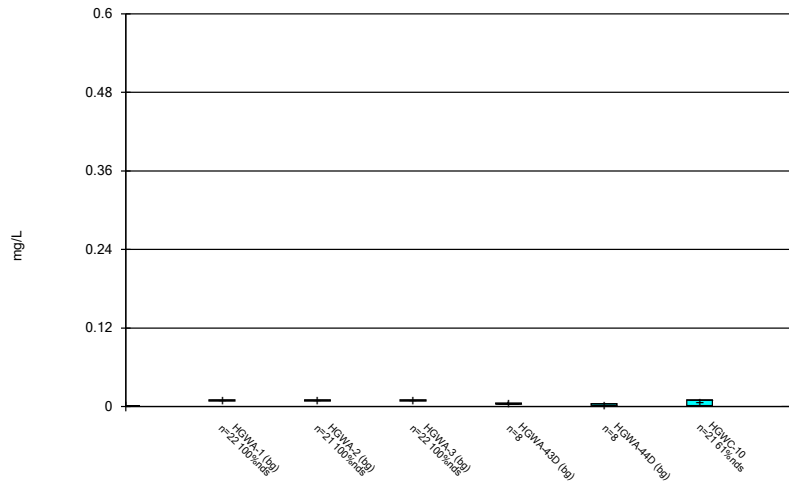
Constituent: Mercury Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



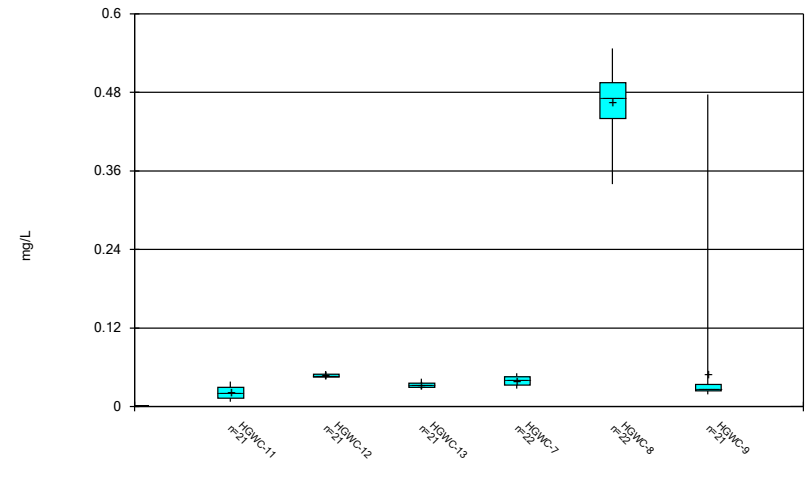
Constituent: Mercury Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



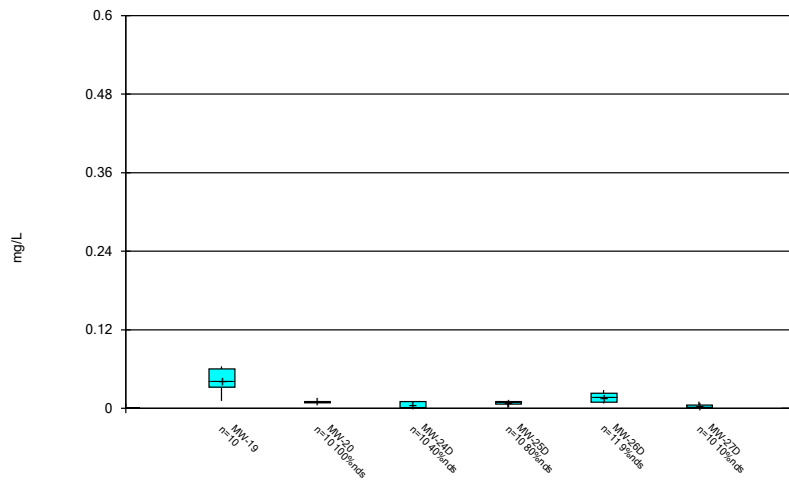
Constituent: Molybdenum Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



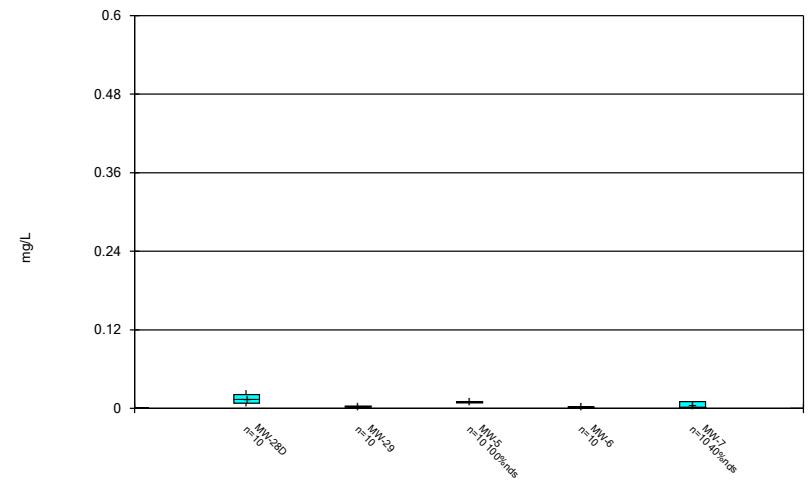
Constituent: Molybdenum Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



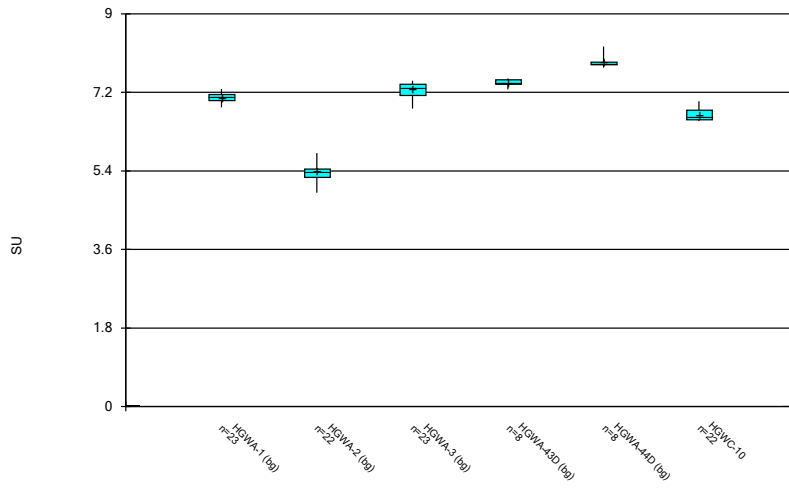
Constituent: Molybdenum Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



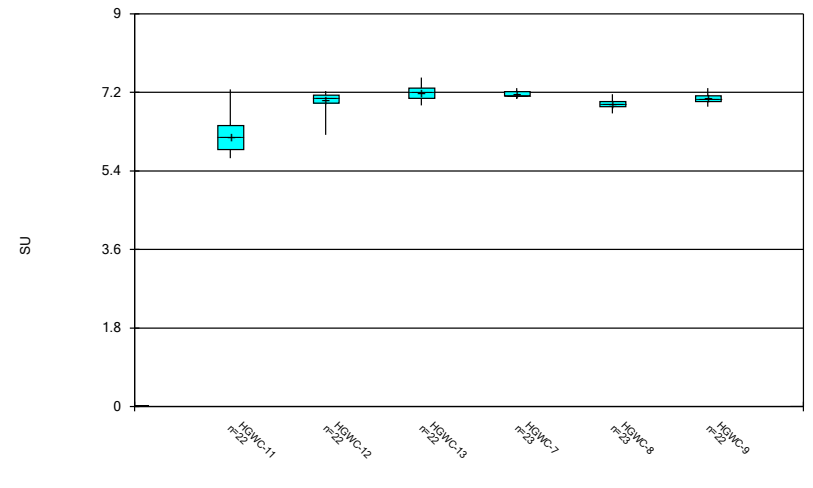
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



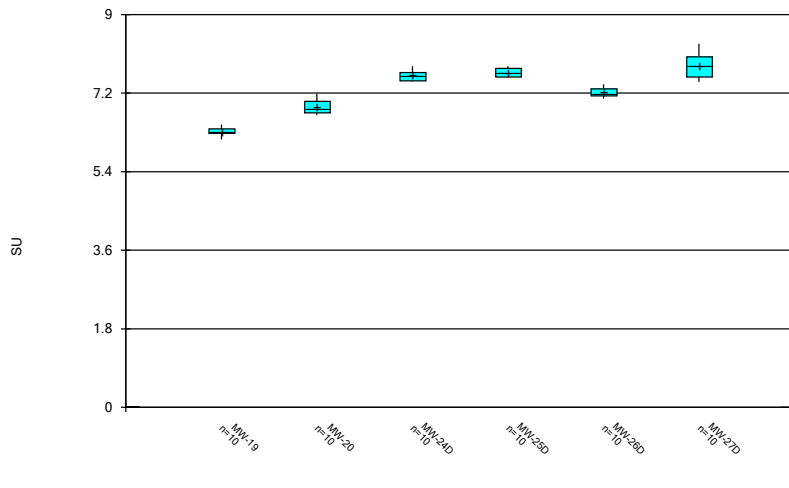
Constituent: pH, Field Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



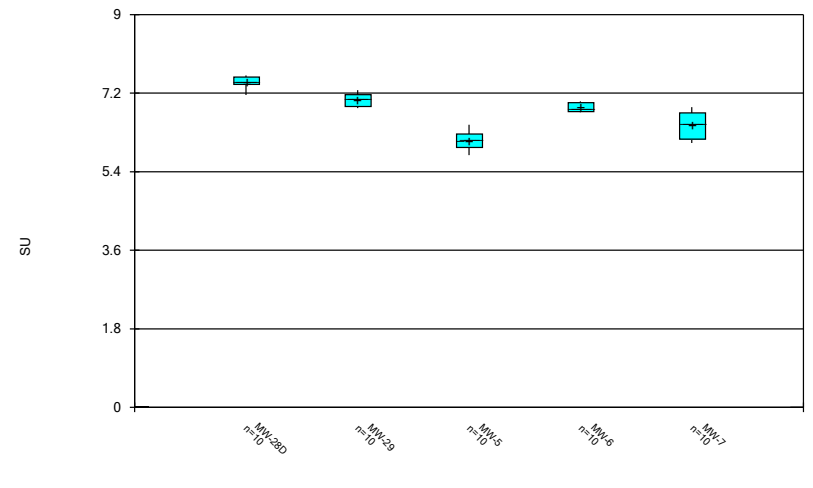
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



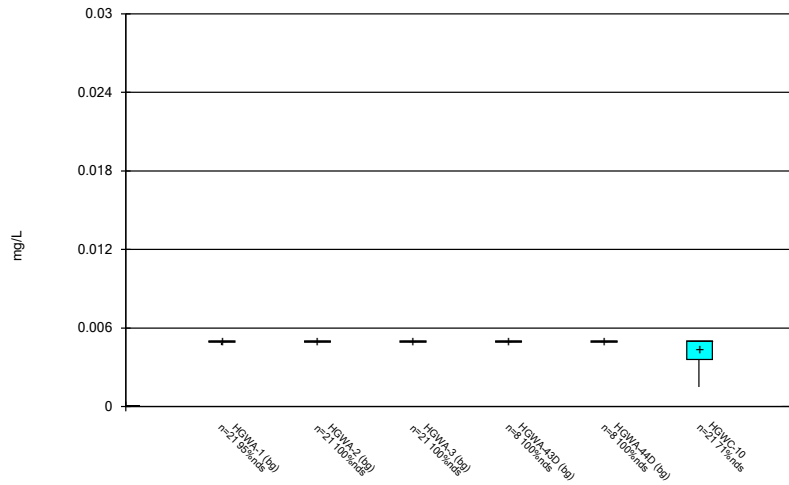
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



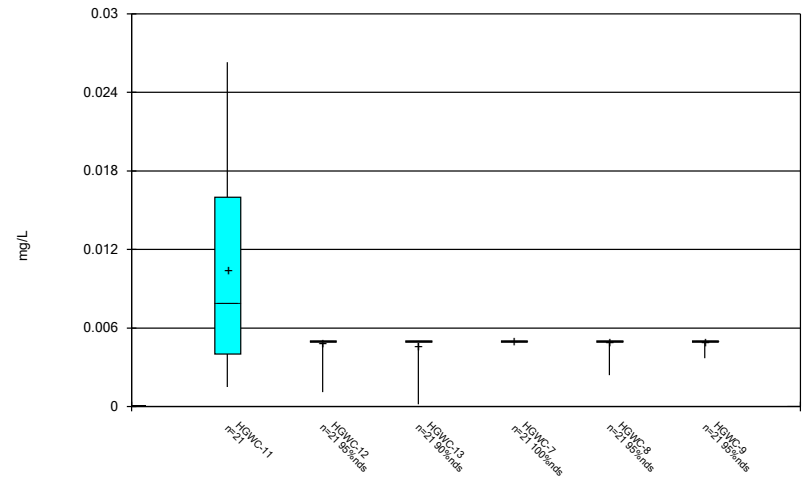
Constituent: pH, Field Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



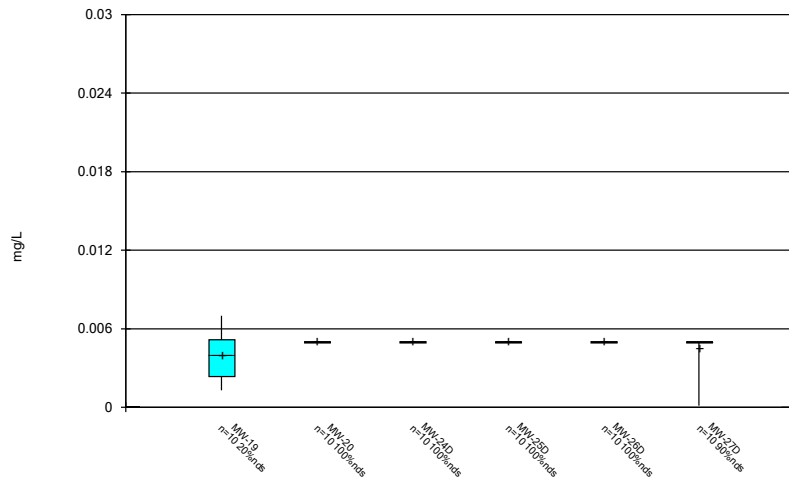
Constituent: Selenium Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



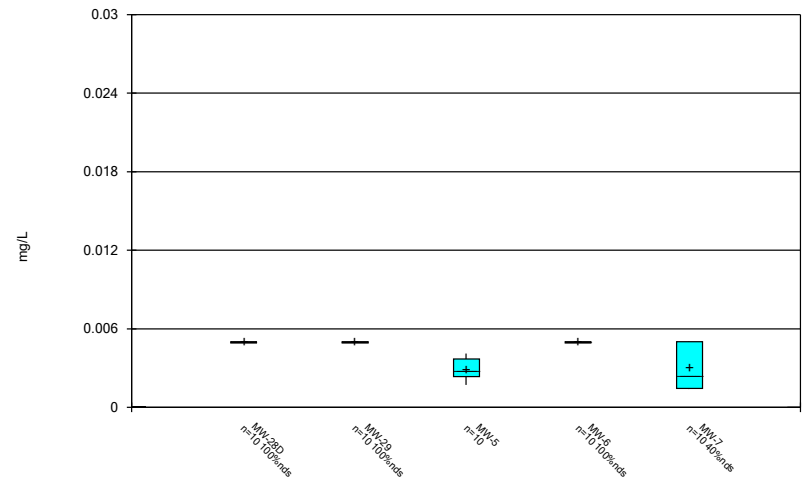
Constituent: Selenium Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



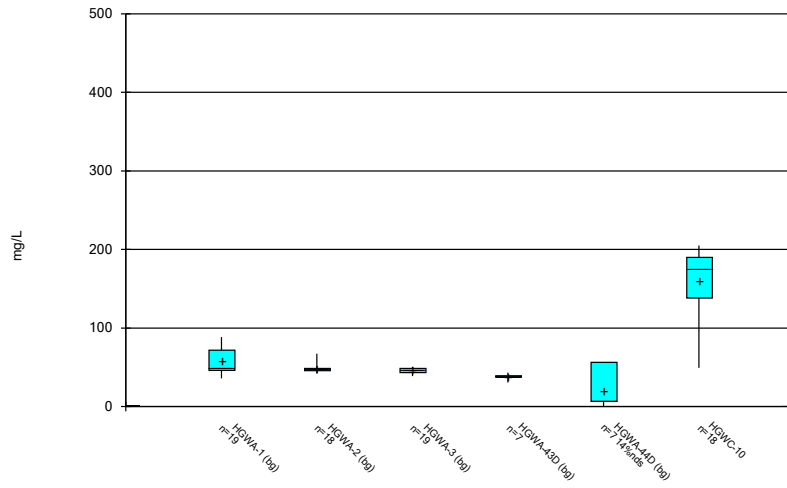
Constituent: Selenium Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



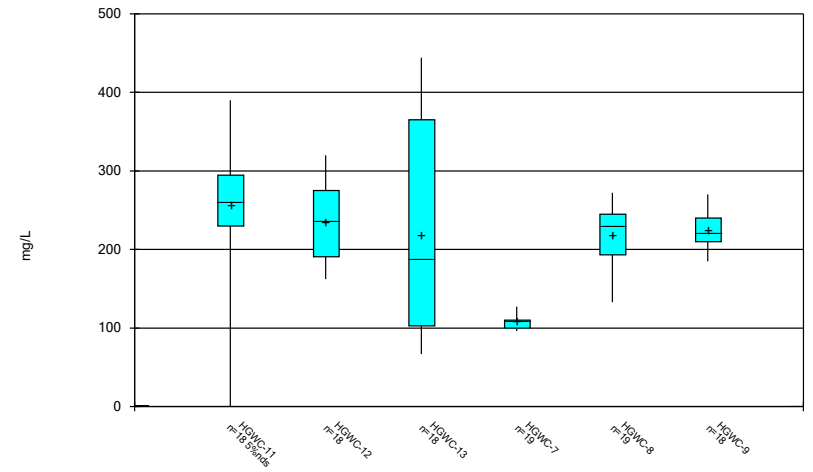
Constituent: Selenium Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



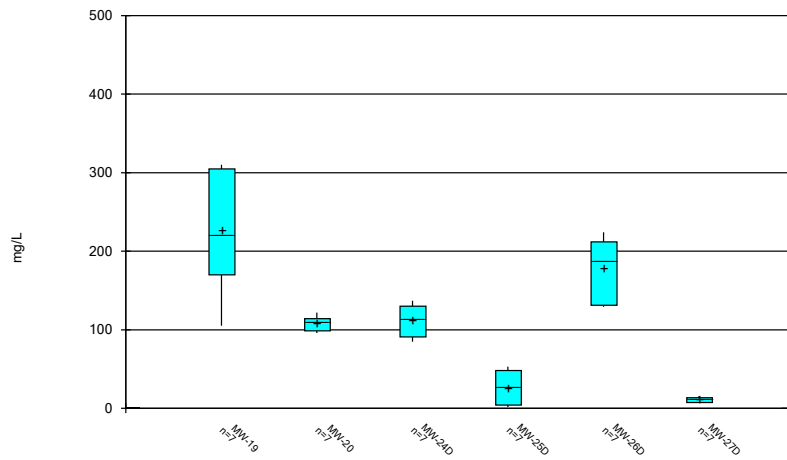
Constituent: Sulfate Analysis Run 4/25/2022 2:37 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



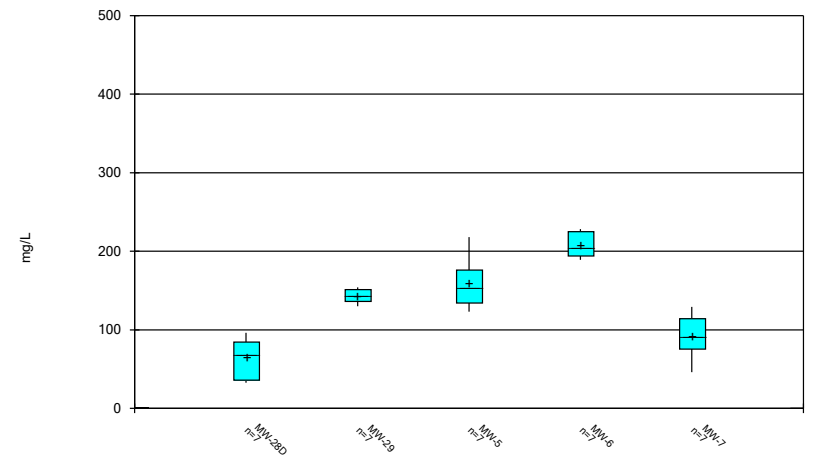
Constituent: Sulfate Analysis Run 4/25/2022 2:37 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



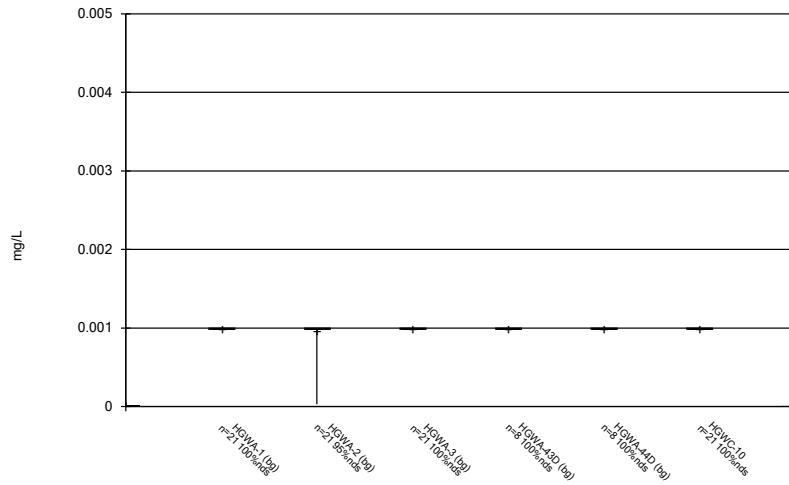
Constituent: Sulfate Analysis Run 4/25/2022 2:37 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



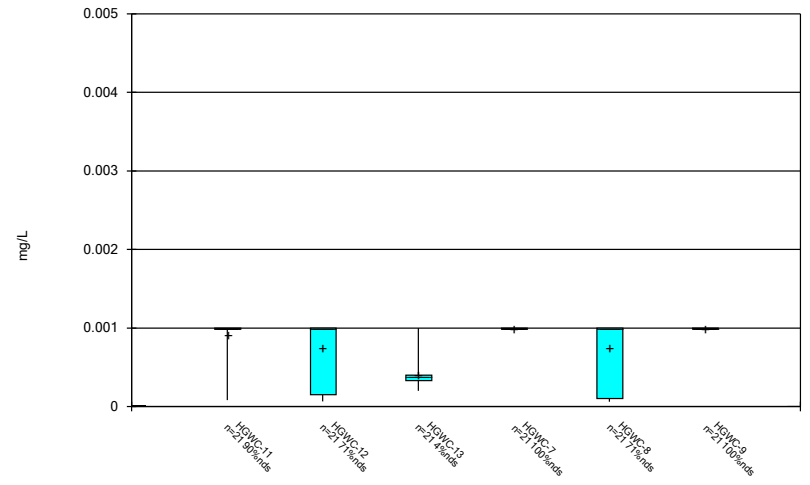
Constituent: Sulfate Analysis Run 4/25/2022 2:37 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



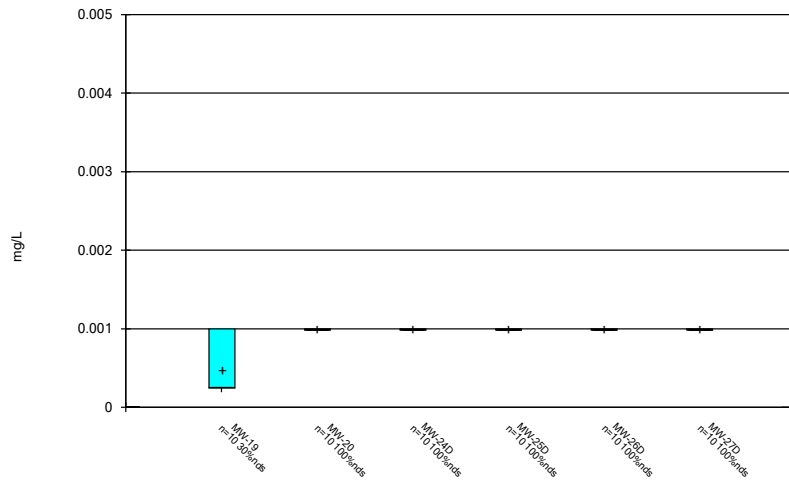
Constituent: Thallium Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



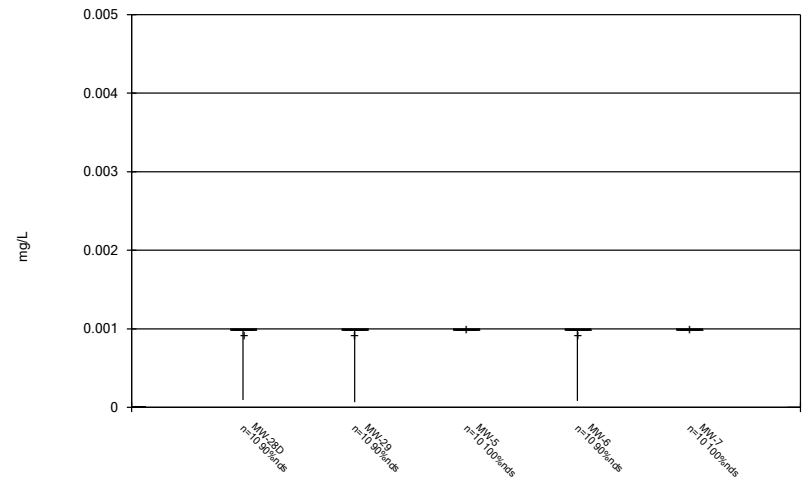
Constituent: Thallium Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



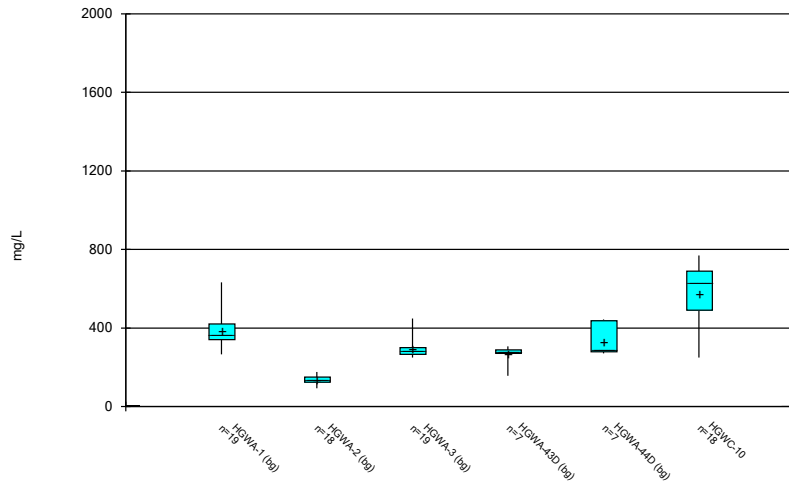
Constituent: Thallium Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



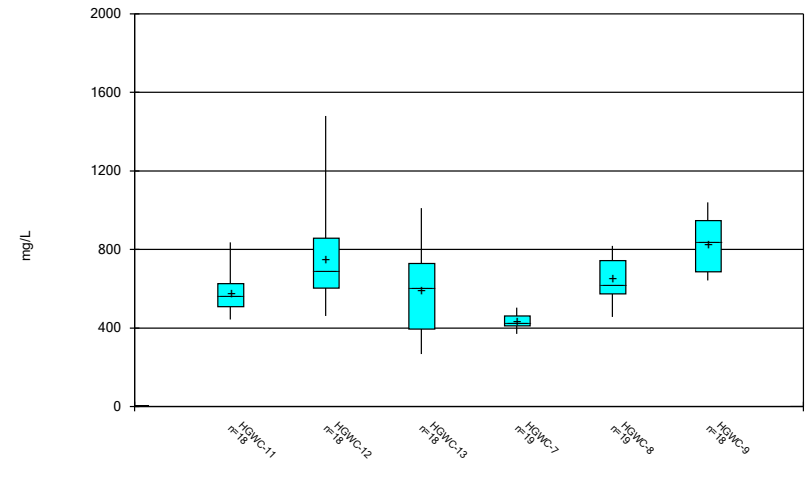
Constituent: Thallium Analysis Run 4/25/2022 2:37 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



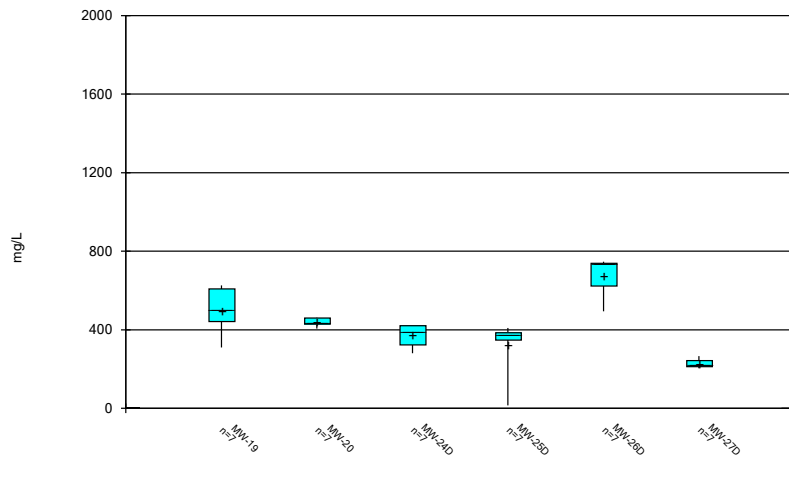
Constituent: Total Dissolved Solids Analysis Run 4/25/2022 2:37 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



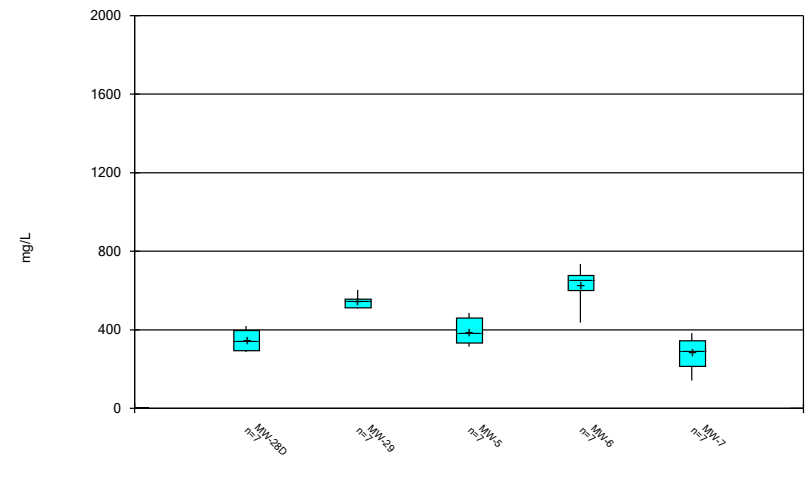
Constituent: Total Dissolved Solids Analysis Run 4/25/2022 2:37 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/25/2022 2:37 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/25/2022 2:37 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1



FIGURE C.

# Outlier Summary

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/25/2022, 2:41 PM

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No outliers were flagged.

FIGURE D.

# Appendix III Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:54 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-11	0.44	n/a	2/9/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.44	n/a	2/9/2022	2	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	2/10/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-7	0.44	n/a	2/10/2022	1.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.44	n/a	2/10/2022	1.7	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	2/9/2022	2.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	2/9/2022	144	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	2/9/2022	172	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	2/10/2022	206	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	2/10/2022	153	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	2/9/2022	183	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-12	44.8	n/a	2/9/2022	46.8	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	2/10/2022	48.2	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	2/9/2022	84.4	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	88.2	n/a	2/9/2022	276	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	88.2	n/a	2/9/2022	252	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	88.2	n/a	2/10/2022	371	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	88.2	n/a	2/10/2022	97.5	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	88.2	n/a	2/10/2022	224	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	88.2	n/a	2/9/2022	224	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-12	632	n/a	2/9/2022	678	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-13	632	n/a	2/10/2022	814	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-9	632	n/a	2/9/2022	756	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2

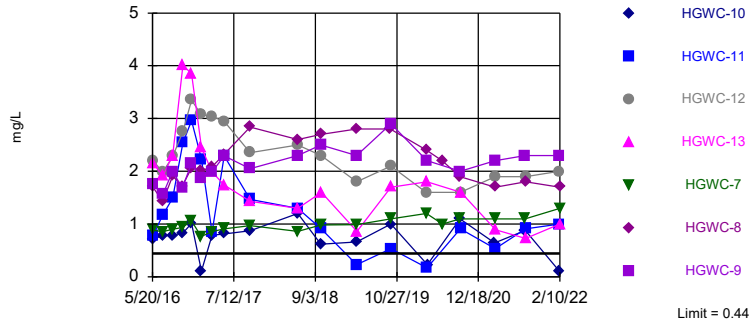
# Appendix III Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:54 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-10	0.44	n/a	2/9/2022	0.1	No	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Boron (mg/L)</b>	<b>HGWC-11</b>	<b>0.44</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>1</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>4.286</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Boron (mg/L)	HGWC-12	0.44	n/a	2/9/2022	2	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	2/10/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Boron (mg/L)</b>	<b>HGWC-7</b>	<b>0.44</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>1.3</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>4.286</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Boron (mg/L)	HGWC-8	0.44	n/a	2/10/2022	1.7	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	2/9/2022	2.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-10	138	n/a	2/9/2022	76.8	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	2/9/2022	144	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	2/9/2022	172	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	2/10/2022	206	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-7	138	n/a	2/10/2022	108	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Calcium (mg/L)</b>	<b>HGWC-8</b>	<b>138</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>153</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Calcium (mg/L)	HGWC-9	138	n/a	2/9/2022	183	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-10	44.8	n/a	2/9/2022	1.2	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-11	44.8	n/a	2/9/2022	20.4	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Chloride (mg/L)</b>	<b>HGWC-12</b>	<b>44.8</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>46.8</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Chloride (mg/L)	HGWC-13	44.8	n/a	2/10/2022	17.4	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-7	44.8	n/a	2/10/2022	39.8	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Chloride (mg/L)</b>	<b>HGWC-8</b>	<b>44.8</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>48.2</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride (mg/L)</b>	<b>HGWC-9</b>	<b>44.8</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>84.4</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Fluoride (mg/L)	HGWC-10	0.96	n/a	2/9/2022	0.12	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-11	0.96	n/a	2/9/2022	0.2	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-12	0.96	n/a	2/9/2022	0.2	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-13	0.96	n/a	2/10/2022	0.53	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-7	0.96	n/a	2/10/2022	0.083J	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-8	0.96	n/a	2/10/2022	0.42	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-9	0.96	n/a	2/9/2022	0.1	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-10	8.25	4.9	2/9/2022	7	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-11	8.25	4.9	2/9/2022	6.55	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-12	8.25	4.9	2/9/2022	7.23	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-13	8.25	4.9	2/10/2022	7.54	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-7	8.25	4.9	2/10/2022	7.22	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-8	8.25	4.9	2/10/2022	6.99	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-9	8.25	4.9	2/9/2022	7.3	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-10	88.2	n/a	2/9/2022	49.2	No	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Sulfate (mg/L)</b>	<b>HGWC-11</b>	<b>88.2</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>276</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>1.429</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate (mg/L)	HGWC-12	88.2	n/a	2/9/2022	252	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Sulfate (mg/L)</b>	<b>HGWC-13</b>	<b>88.2</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>371</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>1.429</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>HGWC-7</b>	<b>88.2</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>97.5</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>1.429</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>HGWC-8</b>	<b>88.2</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>224</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>1.429</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate (mg/L)</b>	<b>HGWC-9</b>	<b>88.2</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>224</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>1.429</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Total Dissolved Solids (mg/L)	HGWC-10	632	n/a	2/9/2022	250	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-11	632	n/a	2/9/2022	544	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Total Dissolved Solids (mg/L)</b>	<b>HGWC-12</b>	<b>632</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>678</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Total Dissolved Solids (mg/L)</b>	<b>HGWC-13</b>	<b>632</b>	<b>n/a</b>	<b>2/10/2022</b>	<b>814</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>
Total Dissolved Solids (mg/L)	HGWC-7	632	n/a	2/10/2022	414	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-8	632	n/a	2/10/2022	578	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
<b>Total Dissolved Solids (mg/L)</b>	<b>HGWC-9</b>	<b>632</b>	<b>n/a</b>	<b>2/9/2022</b>	<b>756</b>	<b>Yes</b>	<b>70</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.0003866</b>	<b>NP Inter (normality) 1 of 2</b>

Exceeds Limit: HGWC-11, HGWC-12, HGWC-13, HGWC-7, HGWC-8, HGWC-9

Prediction Limit  
Interwell Non-parametric

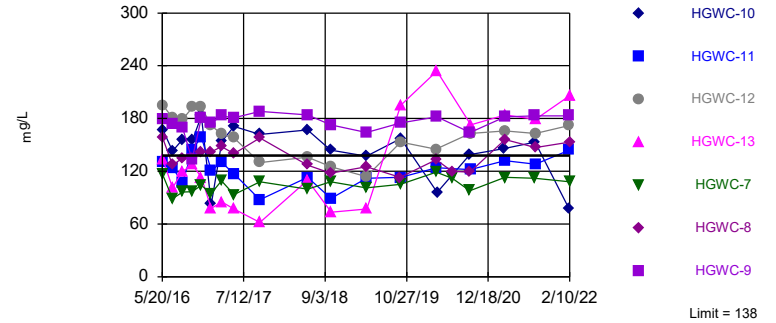


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. 4.286% NDs. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 4/7/2022 3:51 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-11, HGWC-12, HGWC-13, HGWC-8, HGWC-9

Prediction Limit  
Interwell Non-parametric

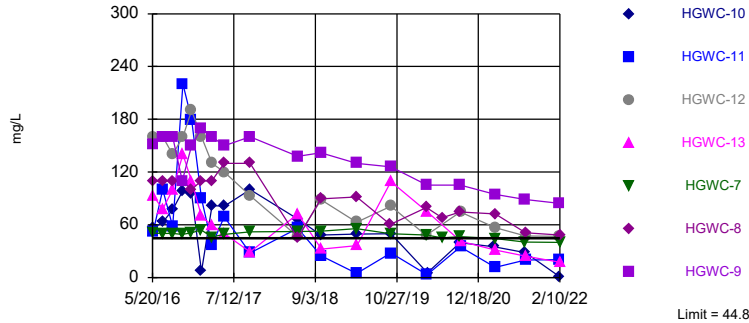


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 4/7/2022 3:51 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-12, HGWC-8, HGWC-9

Prediction Limit  
Interwell Non-parametric

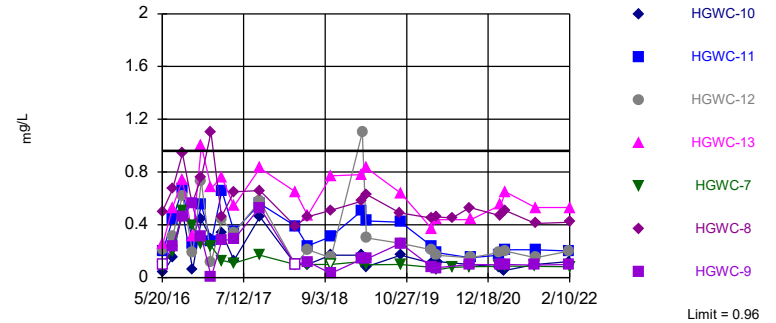


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 4/7/2022 3:51 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.  
Within Limit

Prediction Limit  
Interwell Non-parametric

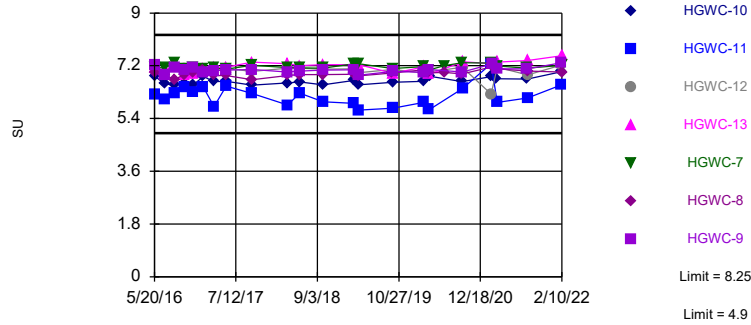


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. 32.14% NDs. Annual per-constituent alpha = 0.003827. Individual comparison alpha = 0.0002738 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 4/7/2022 3:51 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Within Limits

Prediction Limit  
Interwell Non-parametric



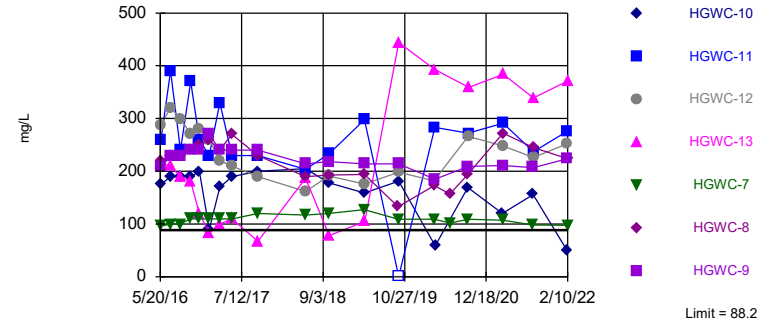
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 84 background values. Annual per-constituent alpha = 0.007654. Individual comparison alpha = 0.0005477 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 4/7/2022 3:51 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.

Exceeds Limit: HGWC-11, HGWC-12, HGWC-13, HGWC-7, HGWC-8, HGWC-9

Prediction Limit  
Interwell Non-parametric

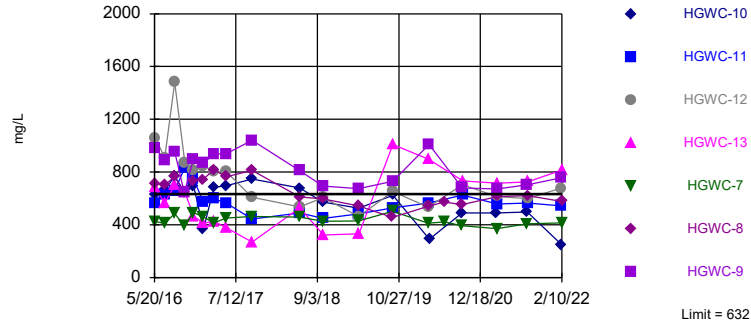


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. 1.429% NDs. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 4/7/2022 3:51 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-12, HGWC-13, HGWC-9

Prediction Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:51 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1





# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-10	HGWC-12
1/19/2021									
3/10/2021	0.015 (J)								
3/11/2021		0.015 (J)	0.056						
3/12/2021								0.64	
3/15/2021				1.7	1.1				
3/16/2021						0.53			1.9
3/17/2021							0.89		
8/11/2021	0.02 (J)								
8/12/2021		<0.04	0.044						
8/13/2021									
8/16/2021					1.1				
8/17/2021								0.88	
8/18/2021				1.8		0.91			1.9
8/19/2021							0.73		
2/1/2022	0.016 (J)	0.011 (J)	0.056						
2/9/2022						1		0.1	2
2/10/2022				1.7	1.3		1		

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	1.76		
7/11/2016			
7/12/2016	1.56		
8/30/2016			
9/1/2016	2		
10/19/2016			
10/20/2016	1.68		
10/24/2016			
12/6/2016	2.15		
12/7/2016			
1/24/2017			
1/25/2017			
1/26/2017	1.87		
3/21/2017			
3/22/2017	1.99		
5/22/2017			
5/23/2017	2.29		
5/24/2017			
10/3/2017	2.05		
6/4/2018			
6/5/2018			
6/6/2018	2.3		
10/1/2018			
10/2/2018	2.5		
10/3/2018			
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	2.3		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	2.9		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	2.2		
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		0.061 (J)	0.23
9/17/2020	2		
9/18/2020			
9/21/2020			
11/10/2020		0.057 (J)	0.29
12/15/2020		0.052 (J)	0.31

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		0.049 (J)	0.4
3/10/2021			0.39
3/11/2021		0.06	
3/12/2021			
3/15/2021			
3/16/2021	2.2		
3/17/2021			
8/11/2021		0.042	
8/12/2021			
8/13/2021			0.31
8/16/2021			
8/17/2021	2.3		
8/18/2021			
8/19/2021			
2/1/2022		0.05	0.44
2/9/2022	2.3		
2/10/2022			



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-10	HGWC-12
1/19/2021									
3/10/2021	111								
3/11/2021		83.8	43.8						
3/12/2021								146 (M1)	
3/15/2021				156	113				
3/16/2021						132			166
3/17/2021							184		
8/11/2021	113								
8/12/2021		84	21.9						
8/13/2021									
8/16/2021					112				
8/17/2021								153	
8/18/2021				147		128			163
8/19/2021							179		
2/1/2022	106	85.1	27.2						
2/9/2022						144		76.8	172
2/10/2022				153	108		206		

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	179		
7/11/2016			
7/12/2016	174		
8/30/2016			
9/1/2016	170		
10/19/2016			
10/20/2016	133		
10/24/2016			
12/6/2016	181		
12/7/2016			
1/24/2017			
1/25/2017			
1/26/2017	175		
3/21/2017			
3/22/2017	183		
5/22/2017			
5/23/2017	181		
5/24/2017			
10/3/2017	188		
6/4/2018			
6/5/2018			
6/6/2018	184		
10/1/2018			
10/2/2018	173		
10/3/2018			
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	164		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	175		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	182		
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		56	30
9/17/2020	164		
9/18/2020			
9/21/2020			
11/10/2020		63.3	33.6
12/15/2020		62.6	28.7

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		60.1	33
3/10/2021			5.9
3/11/2021		59.6	
3/12/2021			
3/15/2021			
3/16/2021	182		
3/17/2021			
8/11/2021		61	
8/12/2021			
8/13/2021			28.9
8/16/2021			
8/17/2021	183		
8/18/2021			
8/19/2021			
2/1/2022		55.9	24.8
2/9/2022	183		
2/10/2022			





# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-10	HGWC-12
1/19/2021									
3/10/2021	7.4								
3/11/2021		5.9	5.1						
3/12/2021								35	
3/15/2021				72.4	44.5				
3/16/2021						11.5			56.8
3/17/2021							31.4		
8/11/2021	9.6								
8/12/2021		4.8	5.2						
8/13/2021									
8/16/2021					40.3				
8/17/2021								28.3	
8/18/2021				50.9		19.9			47.3
8/19/2021							24.4		
2/1/2022	7.5	5.7	7						
2/9/2022						20.4		1.2	46.8
2/10/2022				48.2	39.8		17.4		

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	152		
7/11/2016			
7/12/2016	160		
8/30/2016			
9/1/2016	160		
10/19/2016			
10/20/2016	110		
10/24/2016			
12/6/2016	150		
12/7/2016			
1/24/2017			
1/25/2017			
1/26/2017	170		
3/21/2017			
3/22/2017	160		
5/22/2017			
5/23/2017	150		
5/24/2017			
10/3/2017	160		
6/4/2018			
6/5/2018			
6/6/2018	138		
10/1/2018			
10/2/2018	142		
10/3/2018			
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	130		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	126		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	105		
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		4.1	7.2
9/17/2020	105		
9/18/2020			
9/21/2020			
11/10/2020		4.4	7.8
12/15/2020		4.7	9.4

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		4.1	9.5
3/10/2021			12.3
3/11/2021		4.5	
3/12/2021			
3/15/2021			
3/16/2021	94.7		
3/17/2021			
8/11/2021		3.5	
8/12/2021			
8/13/2021			39.9
8/16/2021			
8/17/2021	88.6		
8/18/2021			
8/19/2021			
2/1/2022		4.1	44.8
2/9/2022	84.4		
2/10/2022			



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/7/2022 3:54 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-12	HGWC-13	HGWC-11	HGWC-9
6/16/2020	0.071 (J)	<0.1			0.45				
6/17/2020				0.077 (J)					
9/15/2020	0.082 (J)	<0.1	<0.1						
9/16/2020				0.081 (J)	0.53				
9/17/2020									0.1
9/18/2020						0.15		0.15	
9/21/2020							0.44		
11/10/2020									
12/15/2020									
1/19/2021									
2/8/2021	0.078 (J)								
2/9/2021		0.074 (J)	<0.1						
2/10/2021				0.085 (J)					
2/12/2021						0.19		0.17	
2/15/2021									
2/16/2021					0.47				0.096 (J)
2/22/2021							0.55		
3/10/2021	0.079 (J)								
3/11/2021		<0.1	0.1						
3/12/2021									
3/15/2021				0.086 (J)	0.51				
3/16/2021						0.2		0.21	0.098 (J)
3/17/2021							0.65		
8/11/2021	0.058 (J)								
8/12/2021		<0.1	<0.1						
8/13/2021									
8/16/2021				0.084 (J)					
8/17/2021									0.095 (J)
8/18/2021					0.41	0.15		0.21	
8/19/2021							0.53		
2/1/2022	0.064 (J)	<0.1	<0.1						
2/9/2022						0.2		0.2	0.1
2/10/2022				0.083 (J)	0.42		0.53		

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	0.0394 (J)		
7/11/2016			
7/12/2016	0.15 (J)		
8/30/2016			
9/1/2016	0.5		
10/19/2016			
10/20/2016			
10/24/2016	0.06 (J)		
12/6/2016			
12/7/2016	0.44		
1/24/2017			
1/25/2017			
1/26/2017	0.29 (J)		
3/21/2017			
3/22/2017	0.34		
5/22/2017			
5/23/2017			
5/24/2017	0.13 (J)		
10/3/2017	0.46		
4/2/2018			
4/3/2018			
4/4/2018	<0.1		
6/4/2018			
6/5/2018	<0.1		
6/6/2018			
10/1/2018			
10/2/2018	0.17 (J)		
10/3/2018			
10/5/2018			
3/12/2019			
3/13/2019	0.17 (J)		
3/14/2019			
4/1/2019			
4/2/2019			
4/3/2019	0.082 (J)		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	0.17 (J)		
3/2/2020			
3/3/2020	0.11 (J)		
3/4/2020			
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020	0.12 (J)		

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020	<0.1	0.22	0.52
9/17/2020			
9/18/2020			
9/21/2020			
11/10/2020		0.19	0.59
12/15/2020		0.21	0.67
1/19/2021		0.16	0.74
2/8/2021			
2/9/2021		0.19	0.44
2/10/2021			
2/12/2021			
2/15/2021	0.08 (J)		
2/16/2021			
2/22/2021			
3/10/2021			0.65
3/11/2021		0.2	
3/12/2021	0.054 (J)		
3/15/2021			
3/16/2021			
3/17/2021			
8/11/2021		0.15	
8/12/2021			
8/13/2021			0.87
8/16/2021			
8/17/2021	<0.1		
8/18/2021			
8/19/2021			
2/1/2022		0.19	0.96
2/9/2022	0.12		
2/10/2022			





# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/7/2022 3:54 PM  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-12	HGWC-13	HGWC-11	HGWC-9
6/16/2020	6.97 (D)	7.31 (D)			6.97 (D)				
6/17/2020				7.2 (D)					
9/15/2020	7.15	7.29	5.22						
9/16/2020				7.3	6.92				
9/17/2020									6.99
9/18/2020						7.15		6.42	
9/21/2020							7.34		
11/10/2020									
12/15/2020									
1/19/2021									
2/8/2021	7.11								
2/9/2021		7.23	5.42						
2/10/2021				7.29					
2/12/2021						6.23		7.27	
2/15/2021									
2/16/2021					7.16				7.26
2/22/2021							7.27		
3/10/2021	6.95								
3/11/2021		7.33	5.8						
3/12/2021									
3/15/2021				7.19	7.09				
3/16/2021						7.15		5.95	7.1
3/17/2021							7.33		
8/11/2021	6.98								
8/12/2021		7.31	5.05						
8/13/2021									
8/16/2021				7.12					
8/17/2021									7.1
8/18/2021					7.02	6.89		6.1	
8/19/2021							7.38		
2/1/2022	7.19	7.45	5.24						
2/9/2022						7.23		6.55	7.3
2/10/2022				7.22	6.99		7.54		

# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	6.83		
7/11/2016			
7/12/2016	6.58		
8/30/2016			
9/1/2016	6.54		
10/19/2016			
10/20/2016			
10/24/2016	6.59		
12/6/2016			
12/7/2016	6.56		
1/24/2017			
1/25/2017			
1/26/2017	6.83		
3/21/2017			
3/22/2017	6.66		
5/22/2017			
5/23/2017			
5/24/2017	6.67		
10/3/2017	6.54		
4/2/2018			
4/3/2018			
4/4/2018	6.61		
6/4/2018			
6/5/2018	6.65		
6/6/2018			
10/1/2018			
10/2/2018	6.55		
10/3/2018			
10/5/2018			
3/12/2019			
3/13/2019	6.7		
3/14/2019			
4/1/2019			
4/2/2019			
4/3/2019	6.55		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	6.64		
3/2/2020			
3/3/2020	6.67		
3/4/2020			
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020	6.84		

# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020	6.66	7.52	7.83
9/17/2020			
9/18/2020			
9/21/2020			
11/10/2020		7.27	7.84
12/15/2020		7.39	7.87
1/19/2021		7.39	7.86
2/8/2021			
2/9/2021		7.44	7.84
2/10/2021			
2/12/2021			
2/15/2021	6.83		
2/16/2021			
2/22/2021			
3/10/2021			7.92
3/11/2021		7.46	
3/12/2021	6.76		
3/15/2021			
3/16/2021			
3/17/2021			
8/11/2021		7.4	
8/12/2021			
8/13/2021			7.77
8/16/2021			
8/17/2021	6.75		
8/18/2021			
8/19/2021			
2/1/2022		7.52	8.25
2/9/2022	7		
2/10/2022			



# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-10	HGWC-12
1/19/2021									
3/10/2021	49.6								
3/11/2021		50.4	52.9						
3/12/2021								120	
3/15/2021				272	107				
3/16/2021						291			248
3/17/2021							384		
8/11/2021	48.9								
8/12/2021		38.6	47.4						
8/13/2021									
8/16/2021					98.1				
8/17/2021								156	
8/18/2021				245		237			226
8/19/2021							339		
2/1/2022	43.7	46	67.1						
2/9/2022						276		49.2	252
2/10/2022				224	97.5		371		

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	207		
7/11/2016			
7/12/2016	230		
8/30/2016			
9/1/2016	230		
10/19/2016			
10/20/2016	240		
10/24/2016			
12/6/2016	240		
12/7/2016			
1/24/2017			
1/25/2017			
1/26/2017	270		
3/21/2017			
3/22/2017	240		
5/22/2017			
5/23/2017	240		
5/24/2017			
10/3/2017	240		
6/4/2018			
6/5/2018			
6/6/2018	214		
10/1/2018			
10/2/2018	218		
10/3/2018			
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	214		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	214		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	185		
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		43	6.9
9/17/2020	209		
9/18/2020			
9/21/2020			
11/10/2020		39	6.3
12/15/2020		38.8	6.7

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		37.3	7.4
3/10/2021			<1
3/11/2021		38.6	
3/12/2021			
3/15/2021			
3/16/2021	211		
3/17/2021			
8/11/2021		30.5	
8/12/2021			
8/13/2021			56.1
8/16/2021			
8/17/2021	207		
8/18/2021			
8/19/2021			
2/1/2022		37.5	56.3
2/9/2022	224		
2/10/2022			





# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-10	HGWC-12
1/19/2021									
3/10/2021	348								
3/11/2021		267	169						
3/12/2021								490 (H1)	
3/15/2021				614	370				
3/16/2021						558			614
3/17/2021							716		
8/11/2021	366								
8/12/2021		265	118						
8/13/2021									
8/16/2021					407				
8/17/2021								496	
8/18/2021				620		566			600
8/19/2021							726		
2/1/2022	270	350	156						
2/9/2022						544		250	678
2/10/2022				578	414		814		

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/7/2022 3:54 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	984		
7/11/2016			
7/12/2016	887		
8/30/2016			
9/1/2016	956		
10/19/2016			
10/20/2016	642		
10/24/2016			
12/6/2016	899		
12/7/2016			
1/24/2017			
1/25/2017			
1/26/2017	869		
3/21/2017			
3/22/2017	936		
5/22/2017			
5/23/2017	939		
5/24/2017			
10/3/2017	1040		
6/4/2018			
6/5/2018			
6/6/2018	810		
10/1/2018			
10/2/2018	693		
10/3/2018			
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	673		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	730		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	1010		
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		272	270
9/17/2020	680		
9/18/2020			
9/21/2020			
11/10/2020		307	287
12/15/2020		289	295

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/7/2022 3:54 PM  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		270	278
3/10/2021			289
3/11/2021		279	
3/12/2021			
3/15/2021			
3/16/2021	672		
3/17/2021			
8/11/2021		277	
8/12/2021			
8/13/2021			436
8/16/2021			
8/17/2021	704		
8/18/2021			
8/19/2021			
2/1/2022		156	444
2/9/2022	756		
2/10/2022			

FIGURE E.

# Appendix III Trend Test Summary - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:58 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>
Boron (mg/L)	HGWA-2 (bg)	0.002699	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-13	-0.2813	-90	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-7	0.05328	110	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.1051	81	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.781	86	74	Yes	19	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)	HGWC-12	-22.37	-111	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-8	-9.715	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-9	-13.5	-103	-68	Yes	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
Total Dissolved Solids (mg/L)	HGWC-12	-84.21	-91	-68	Yes	18	0	n/a	n/a	0.01	NP

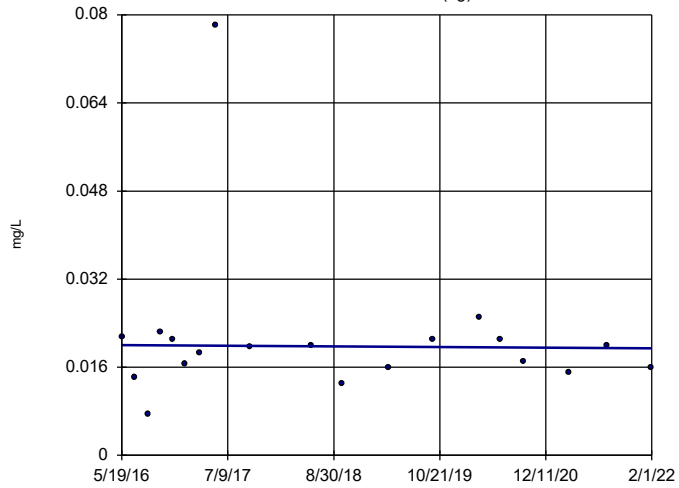
# Appendix III Trend Test Summary - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 4/7/2022, 3:58 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	-0.00009951	-10	-74	No	19	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>HGWA-2 (bg)</b>	<b>0.002699</b>	<b>99</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	HGWA-3 (bg)	0.00007969	6	74	No	19	15.79	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)	HGWC-11	-0.1891	-49	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-12	-0.1561	-61	-68	No	18	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>HGWC-13</b>	<b>-0.2813</b>	<b>-90</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>HGWC-7</b>	<b>0.05328</b>	<b>110</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	HGWC-8	0.04833	19	74	No	19	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>HGWC-9</b>	<b>0.1051</b>	<b>81</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	HGWA-1 (bg)	2.687	54	74	No	19	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
<b>Calcium (mg/L)</b>	<b>HGWA-3 (bg)</b>	<b>2.781</b>	<b>86</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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)	HGWC-11	0.2076	3	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-12	-6.225	-52	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-13	14.04	32	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-8	-1.147	-19	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-9	0.7636	34	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.6486	50	74	No	19	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)	-0.1393	-73	-74	No	19	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
<b>Chloride (mg/L)</b>	<b>HGWA-44D (bg)</b>	<b>20.44</b>	<b>21</b>	<b>18</b>	<b>Yes</b>	<b>7</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>HGWC-12</b>	<b>-22.37</b>	<b>-111</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>HGWC-8</b>	<b>-9.715</b>	<b>-86</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>HGWC-9</b>	<b>-13.5</b>	<b>-103</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	HGWA-1 (bg)	1.77	34	74	No	19	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>HGWA-2 (bg)</b>	<b>1.393</b>	<b>83</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	HGWA-3 (bg)	1.106	61	74	No	19	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)	HGWC-11	-7.699	-17	-68	No	18	5.556	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-12	-14.75	-59	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-13	33.22	25	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-7	0	-12	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-8	-5.775	-22	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-9	-4.06	-54	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	1.455	7	74	No	19	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)	1.051	12	74	No	19	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
<b>Total Dissolved Solids (mg/L)</b>	<b>HGWC-12</b>	<b>-84.21</b>	<b>-91</b>	<b>-68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids (mg/L)	HGWC-13	22.89	23	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-9	-40.5	-45	-68	No	18	0	n/a	n/a	0.01	NP

### Sen's Slope Estimator

HGWA-1 (bg)

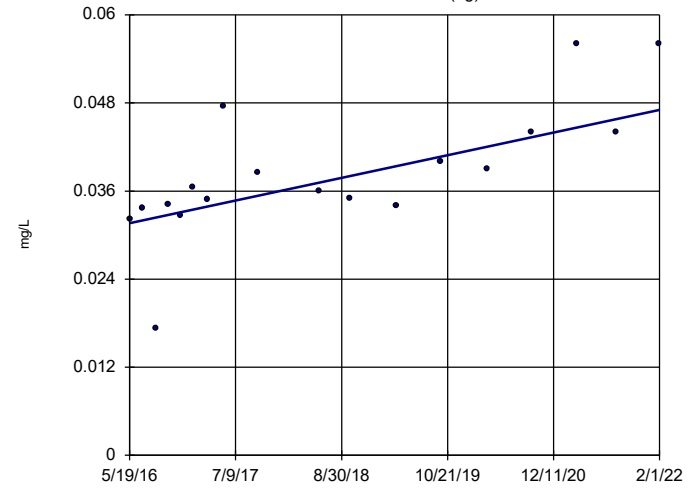


n = 19  
 Slope = -0.00009951  
 units per year.  
 Mann-Kendall  
 statistic = -10  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-2 (bg)

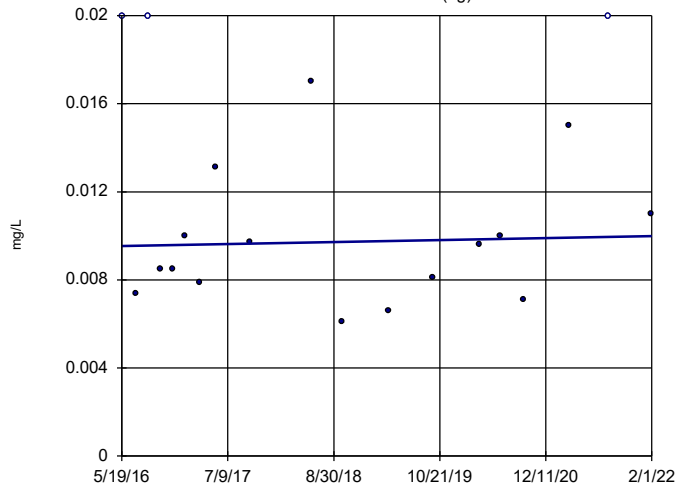


n = 18  
 Slope = 0.002699  
 units per year.  
 Mann-Kendall  
 statistic = 99  
 critical = 68  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-3 (bg)

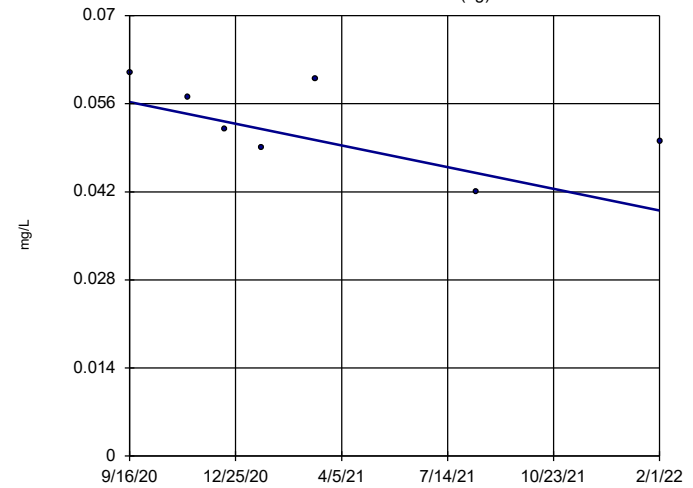


n = 19  
 Slope = 0.00007969  
 units per year.  
 Mann-Kendall  
 statistic = 6  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-43D (bg)

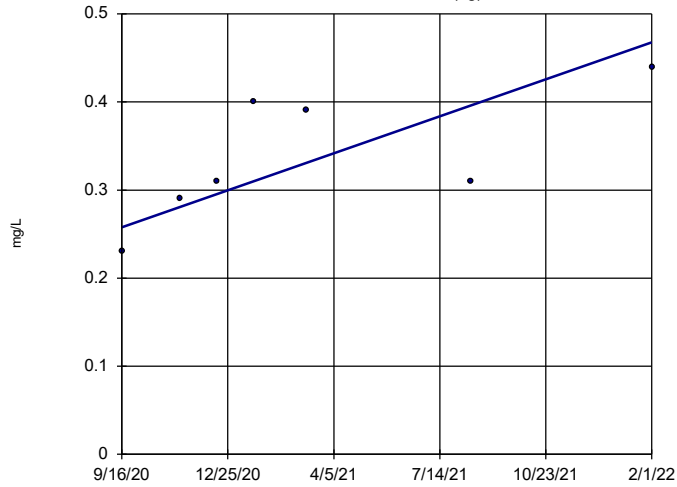


n = 7  
 Slope = -0.01252  
 units per year.  
 Mann-Kendall  
 statistic = -11  
 critical = -18  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-44D (bg)

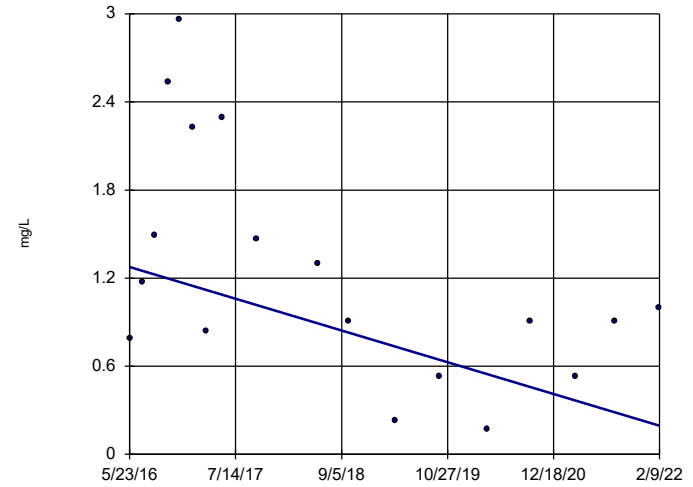


n = 7  
 Slope = 0.1524  
 units per year.  
 Mann-Kendall  
 statistic = 14  
 critical = 18  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-11

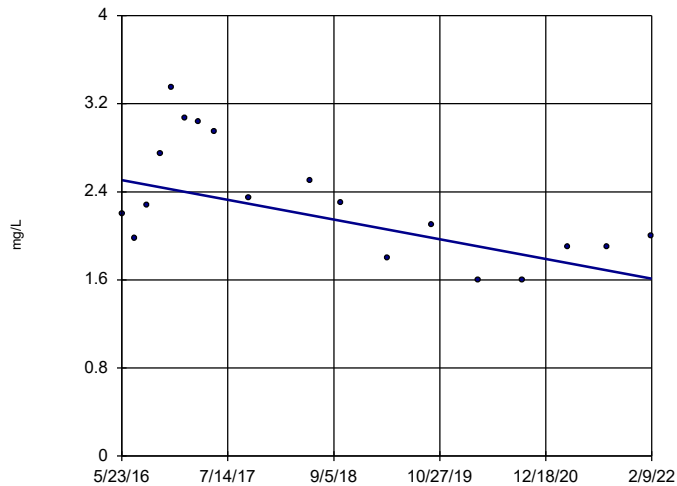


n = 18  
 Slope = -0.1891  
 units per year.  
 Mann-Kendall  
 statistic = -49  
 critical = -68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-12

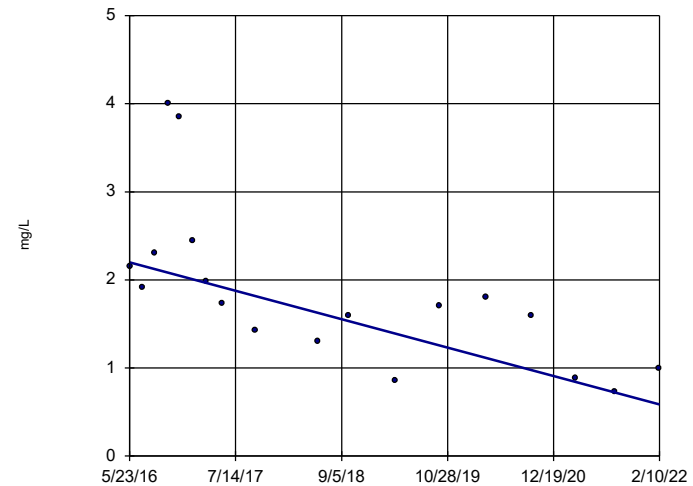


n = 18  
 Slope = -0.1561  
 units per year.  
 Mann-Kendall  
 statistic = -61  
 critical = -68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-13

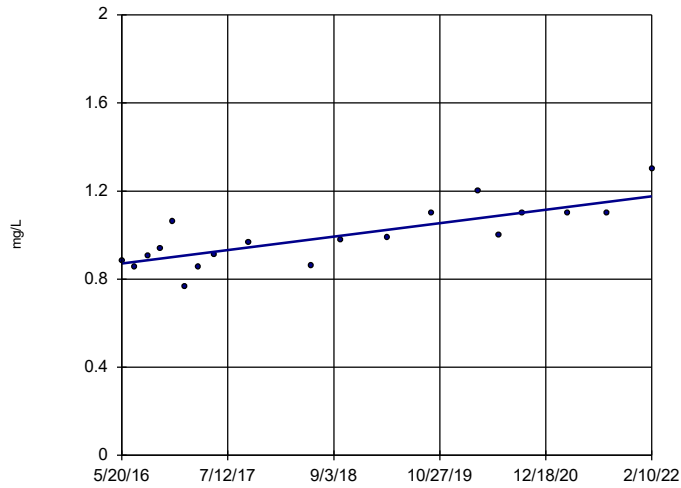


n = 18  
 Slope = -0.2813  
 units per year.  
 Mann-Kendall  
 statistic = -90  
 critical = -68  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

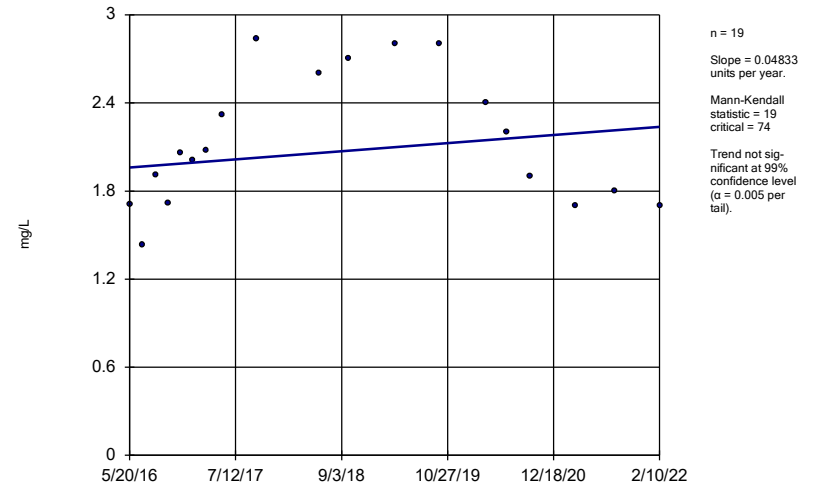


### Sen's Slope Estimator HGWC-7



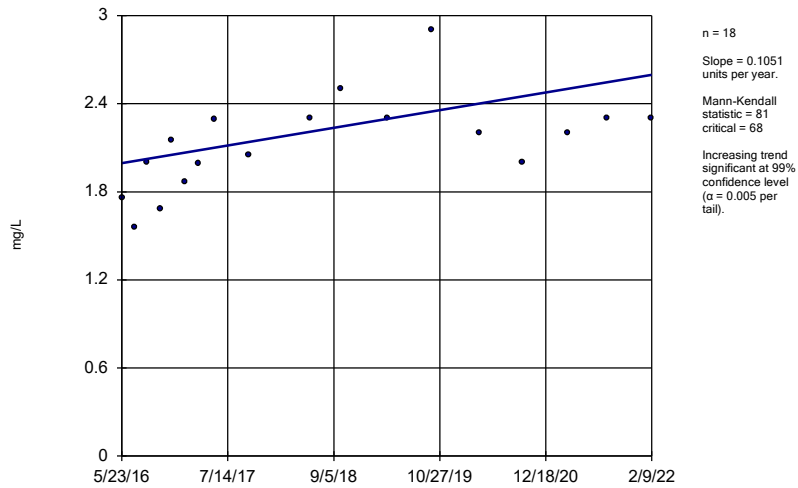
Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-8



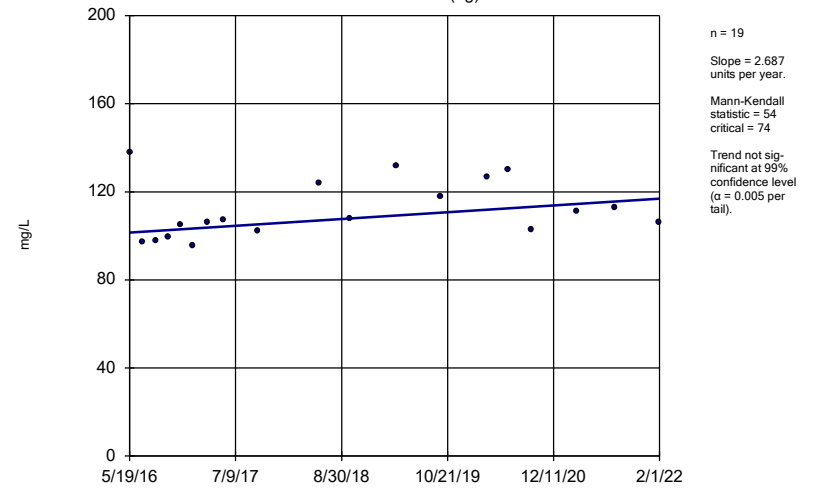
Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-9



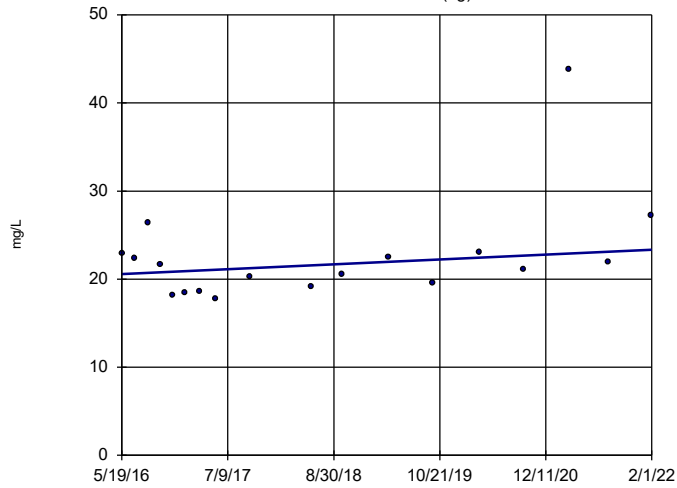
Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWA-1 (bg)



Constituent: Calcium Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

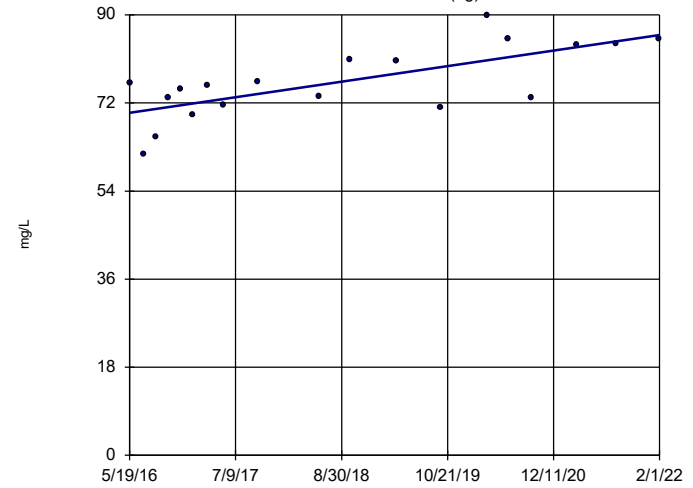
### Sen's Slope Estimator HGWA-2 (bg)



n = 18  
Slope = 0.4885 units per year.  
Mann-Kendall statistic = 35  
critical = 68  
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

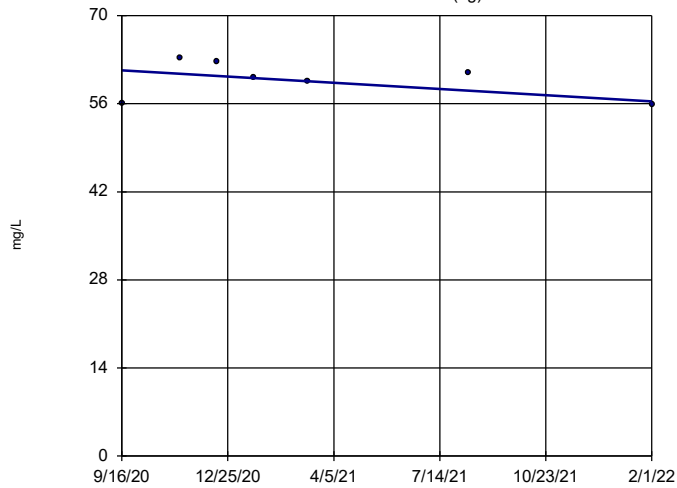
### Sen's Slope Estimator HGWA-3 (bg)



n = 19  
Slope = 2.781 units per year.  
Mann-Kendall statistic = 86  
critical = 74  
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

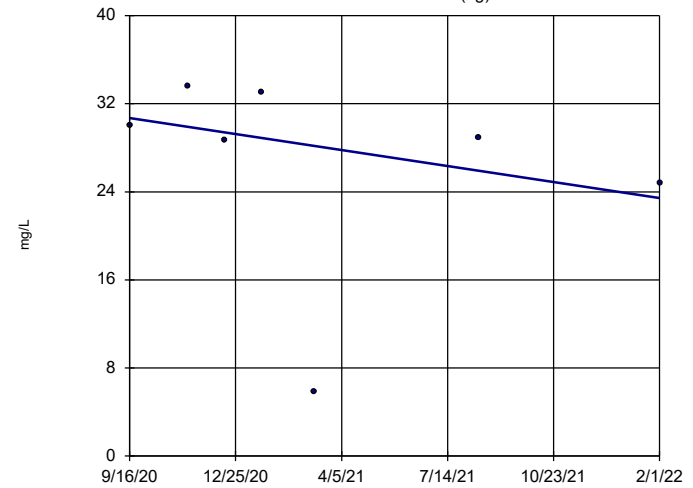
### Sen's Slope Estimator HGWA-43D (bg)



n = 7  
Slope = -3.578 units per year.  
Mann-Kendall statistic = -7  
critical = -18  
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

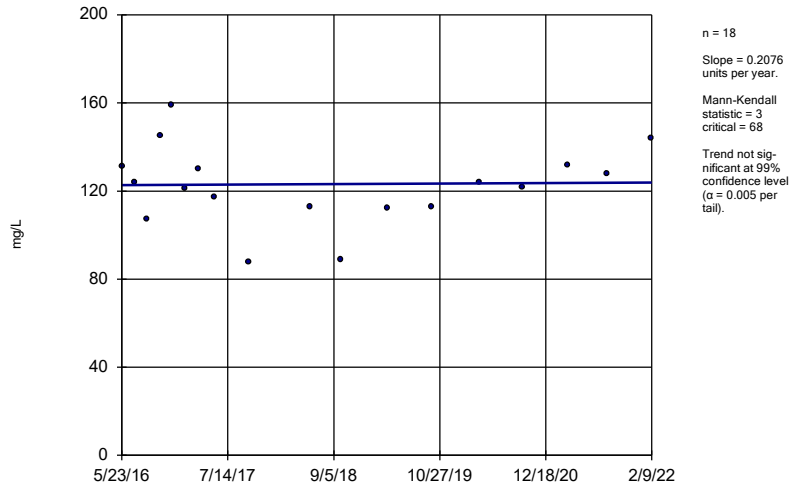
### Sen's Slope Estimator HGWA-44D (bg)



n = 7  
Slope = -5.272 units per year.  
Mann-Kendall statistic = -9  
critical = -18  
Trend not significant at 99% confidence level (α = 0.005 per tail).

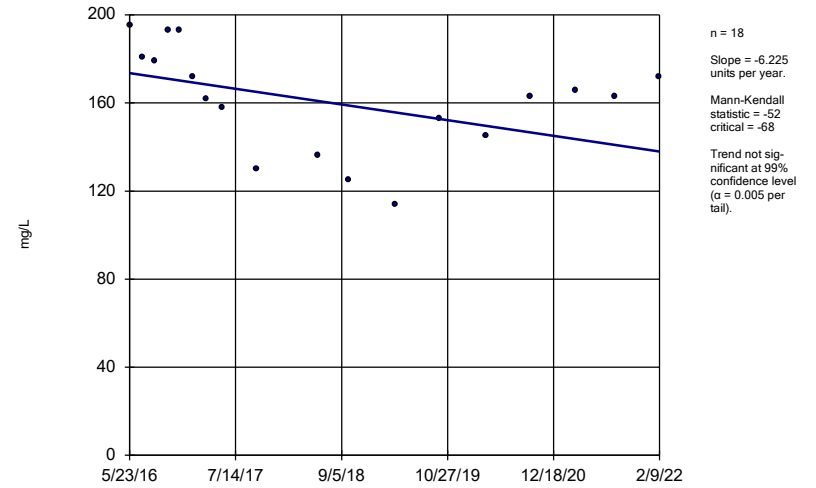
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-11



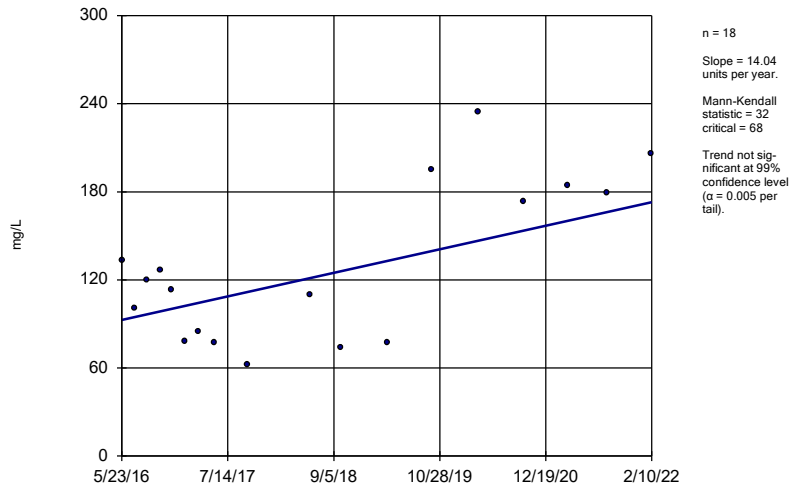
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-12



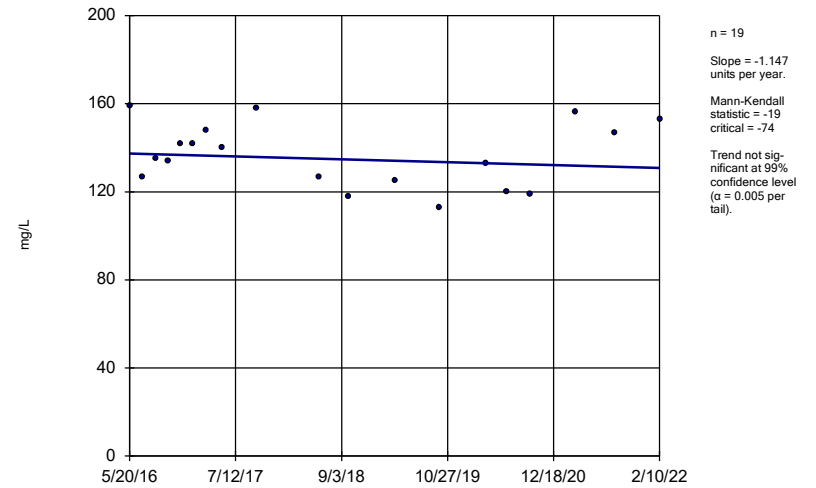
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-13



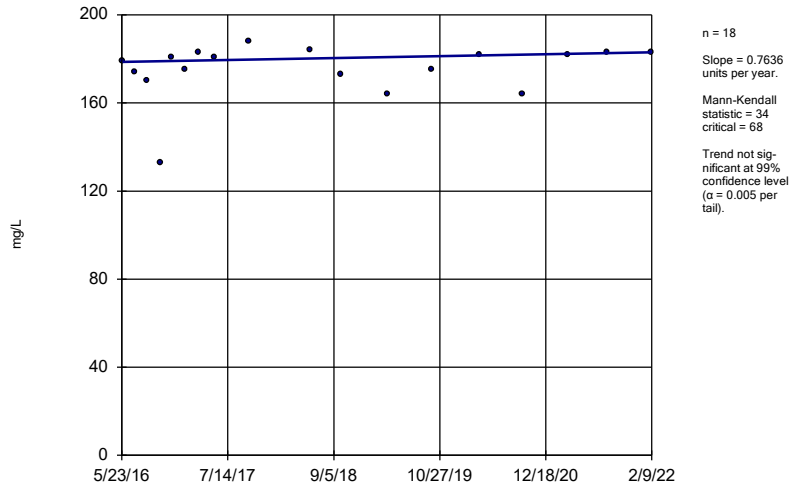
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-8



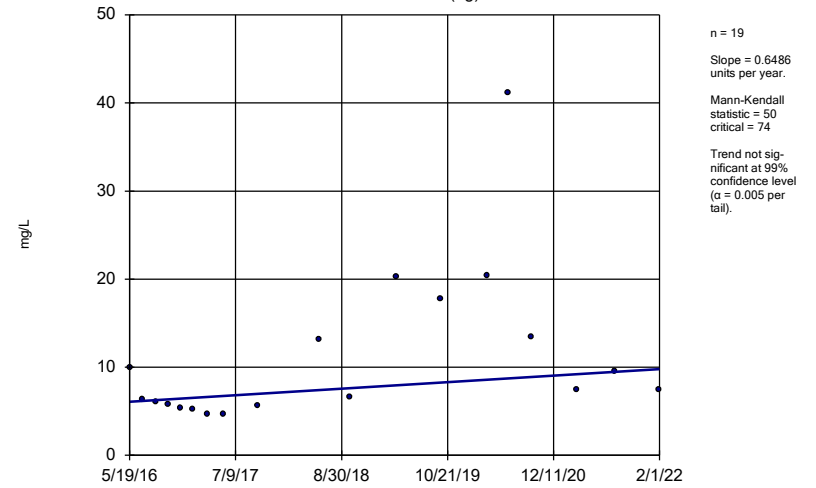
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-9



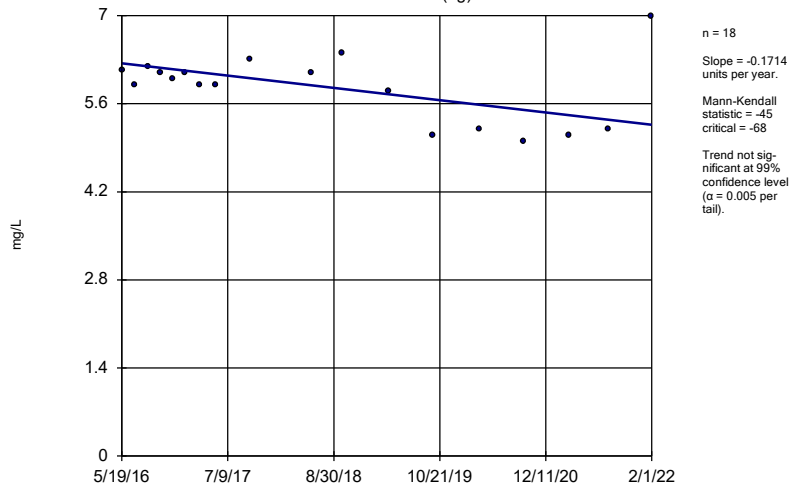
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWA-1 (bg)



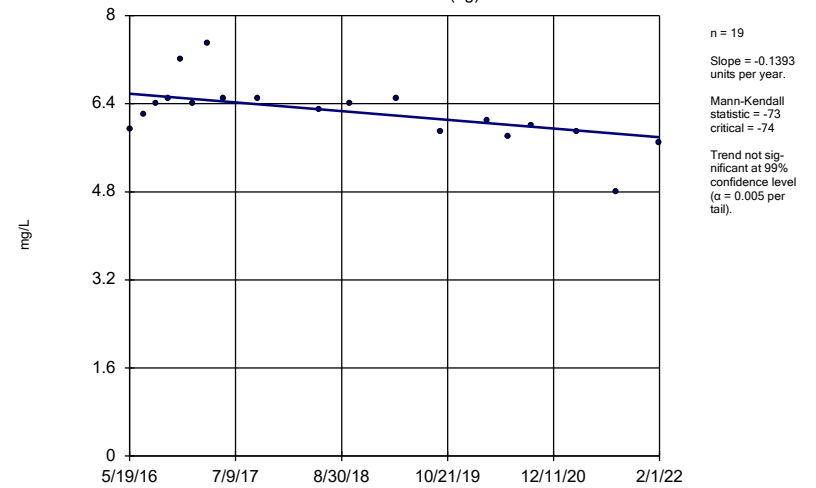
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWA-2 (bg)



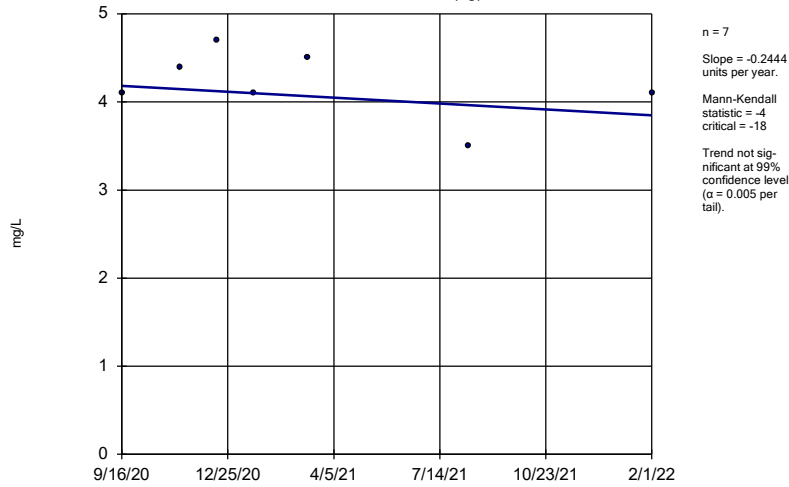
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWA-3 (bg)



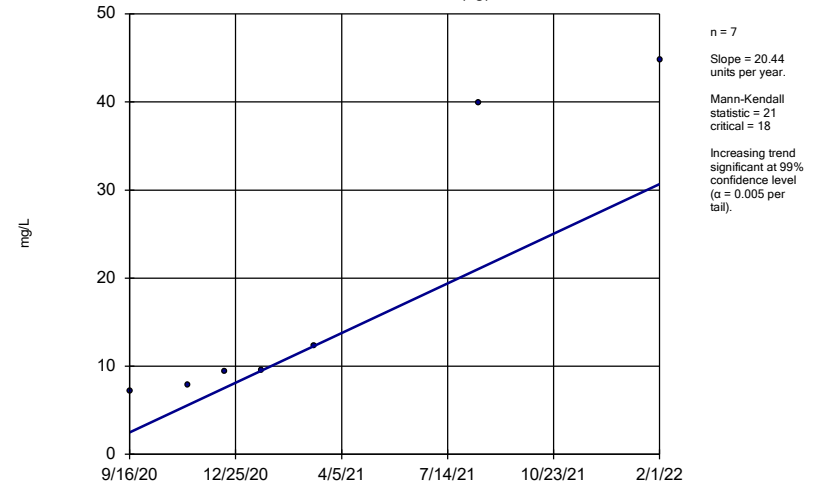
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator  
HGWA-43D (bg)



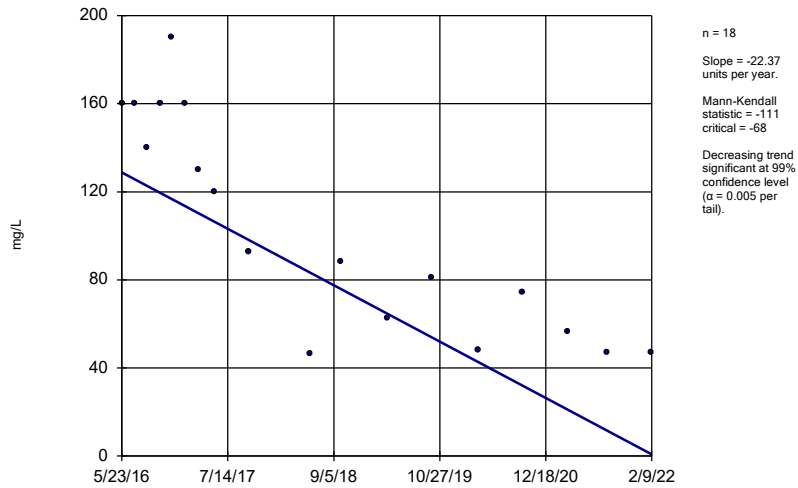
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator  
HGWA-44D (bg)



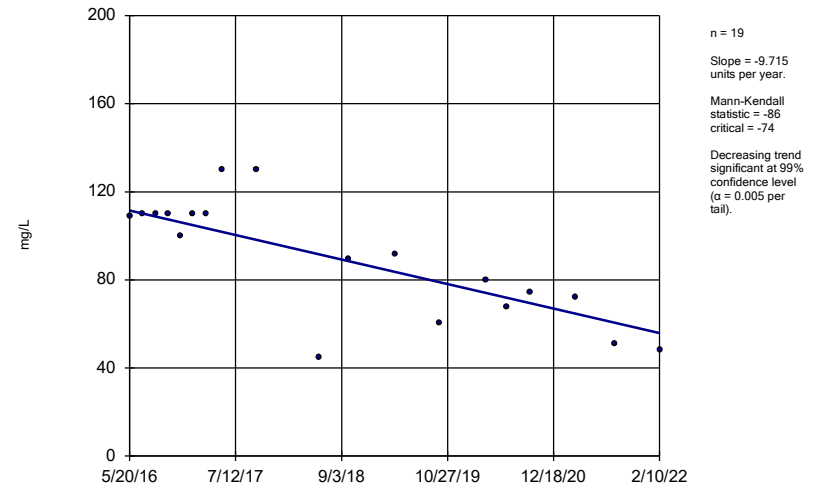
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator  
HGWC-12



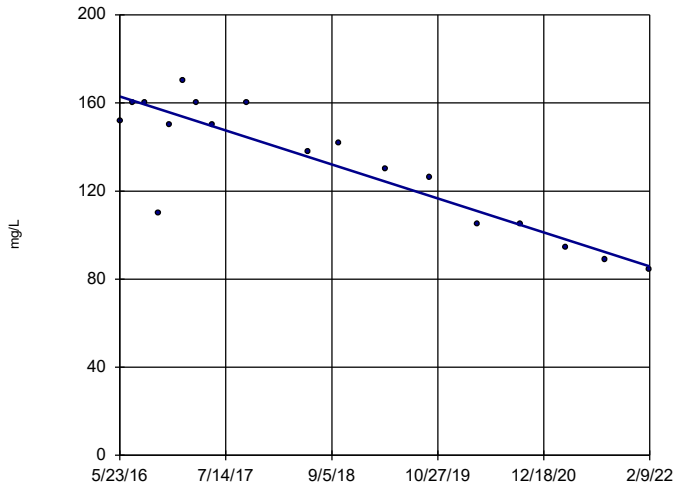
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator  
HGWC-8



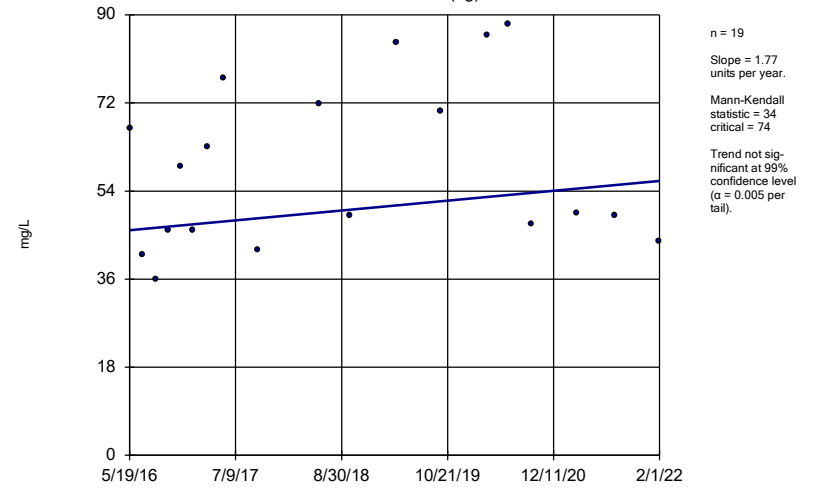
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-9



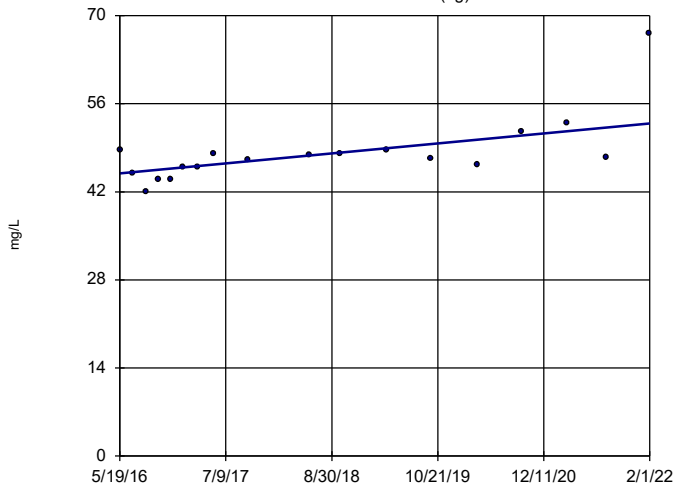
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWA-1 (bg)



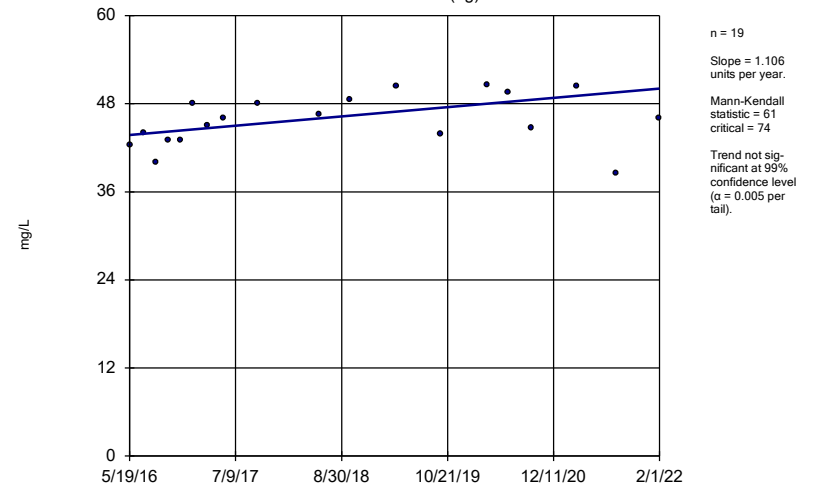
Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWA-2 (bg)



Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

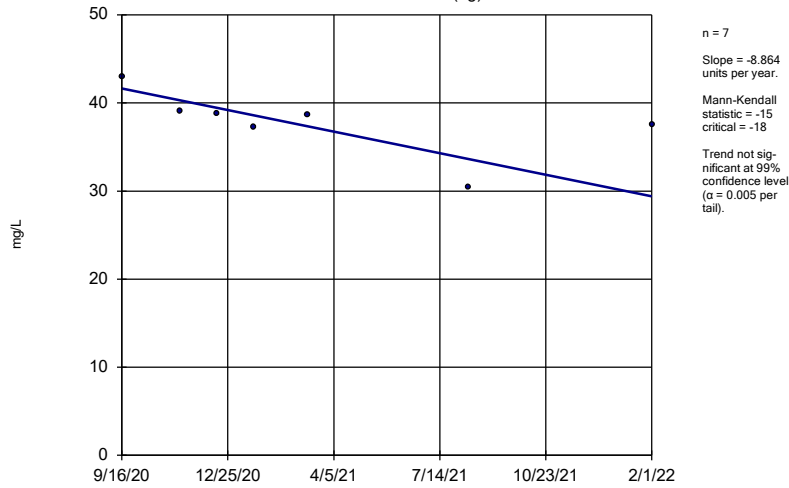
### Sen's Slope Estimator HGWA-3 (bg)



Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-43D (bg)

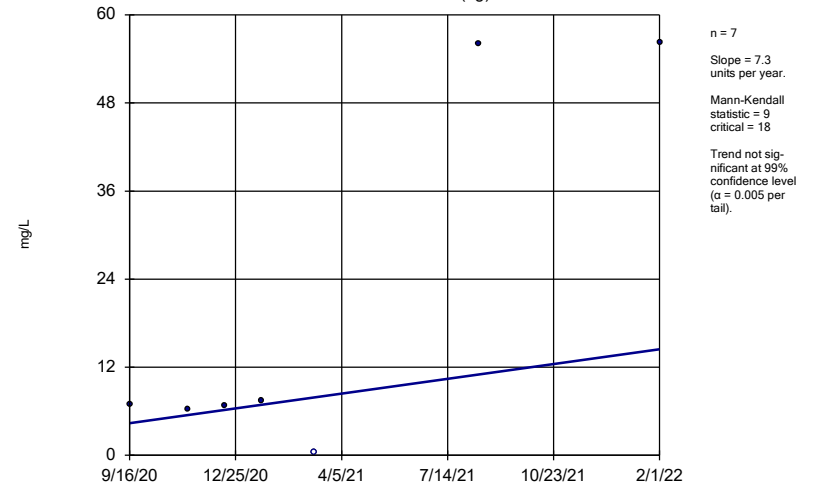


Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.

### Sen's Slope Estimator

HGWA-44D (bg)

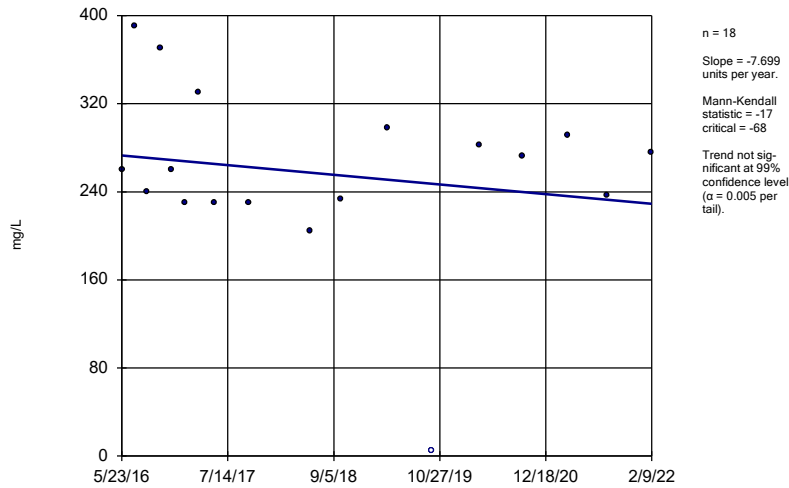


Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.

### Sen's Slope Estimator

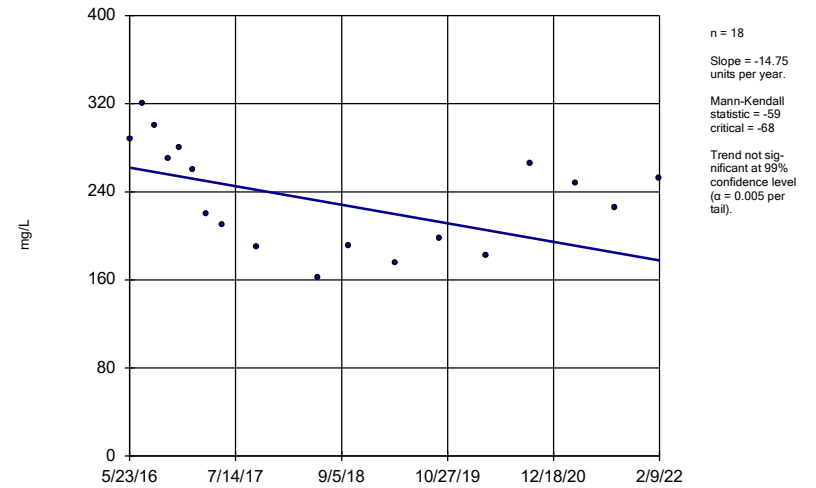
HGWC-11



Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

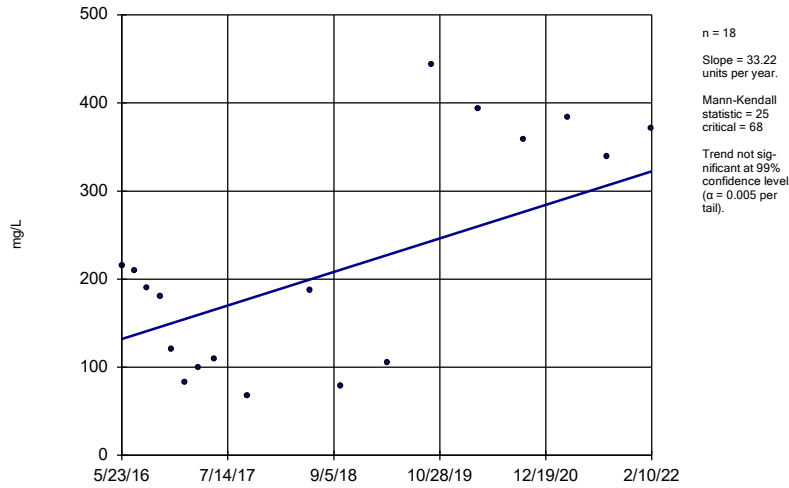
### Sen's Slope Estimator

HGWC-12



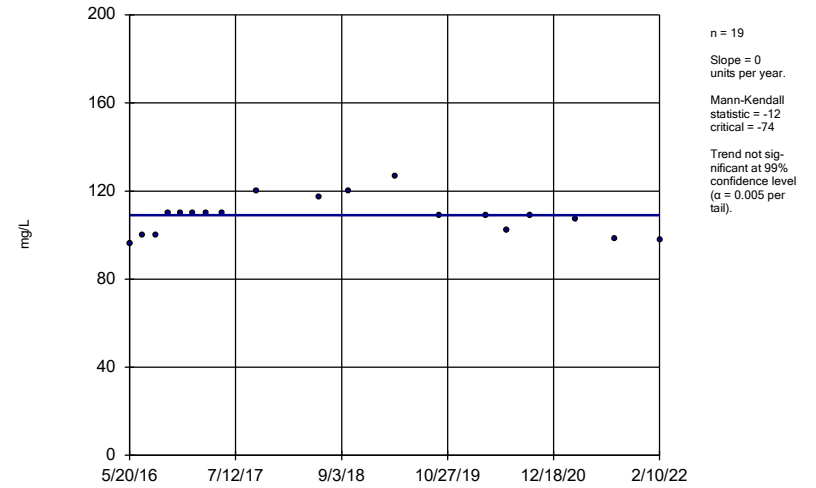
Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-13



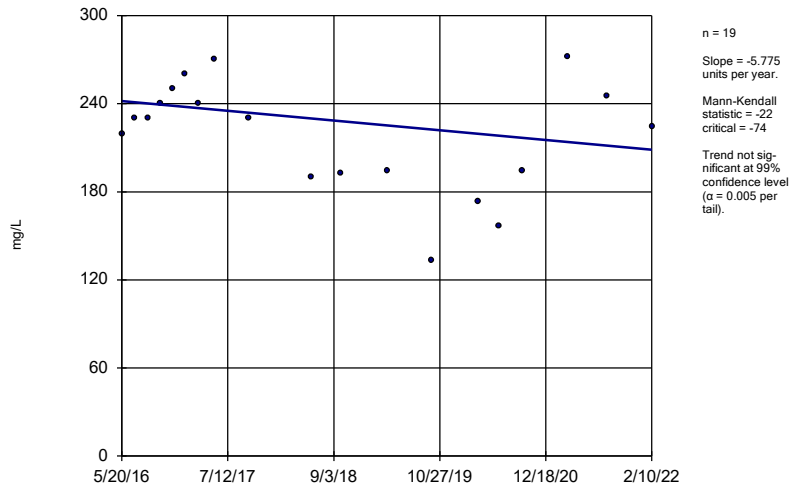
Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-7



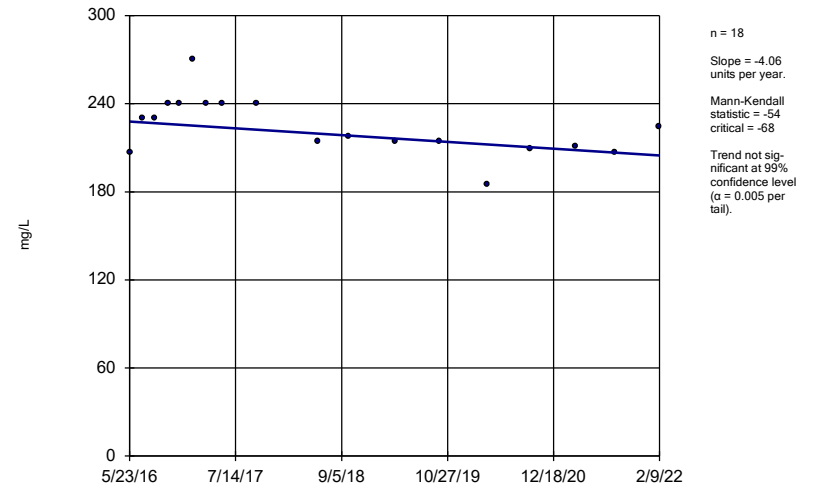
Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-8



Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

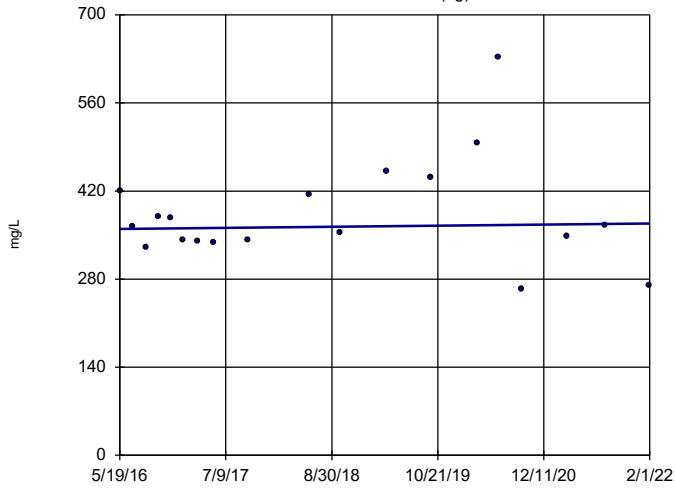
### Sen's Slope Estimator HGWC-9



Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1



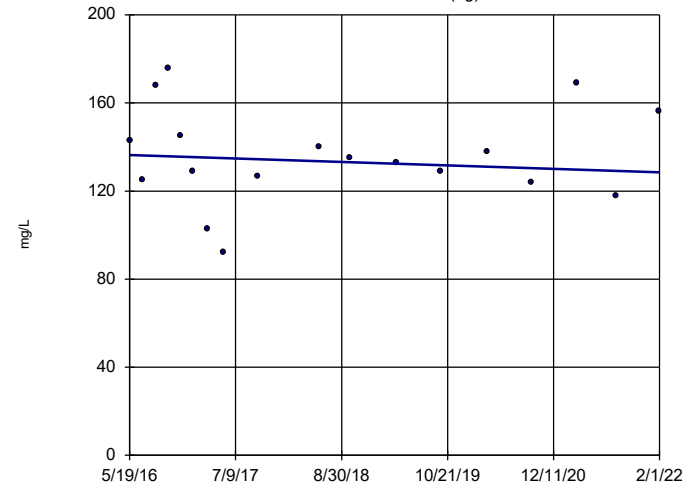
Sen's Slope Estimator  
HGWA-1 (bg)



n = 19  
Slope = 1.455  
units per year.  
Mann-Kendall  
statistic = 7  
critical = 74  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

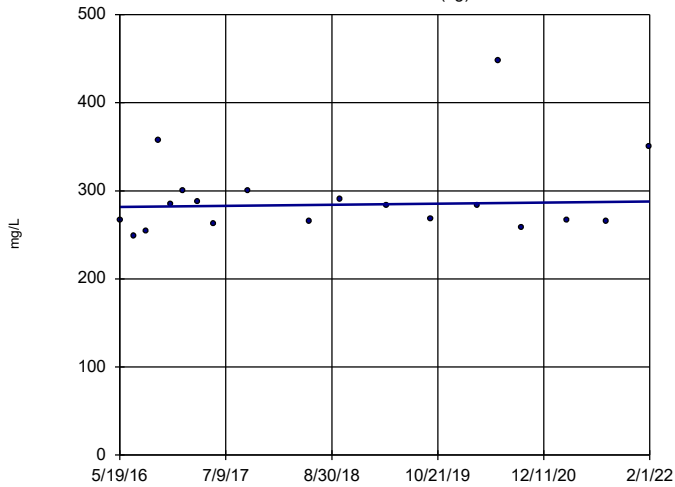
Sen's Slope Estimator  
HGWA-2 (bg)



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 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

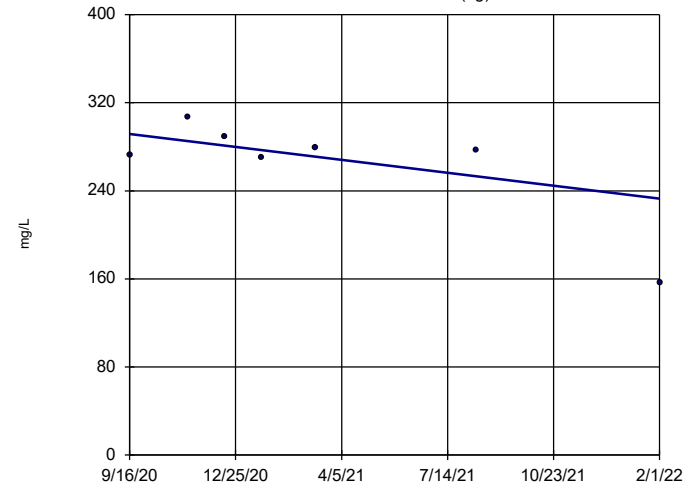
Sen's Slope Estimator  
HGWA-3 (bg)



n = 19  
Slope = 1.051  
units per year.  
Mann-Kendall  
statistic = 12  
critical = 74  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

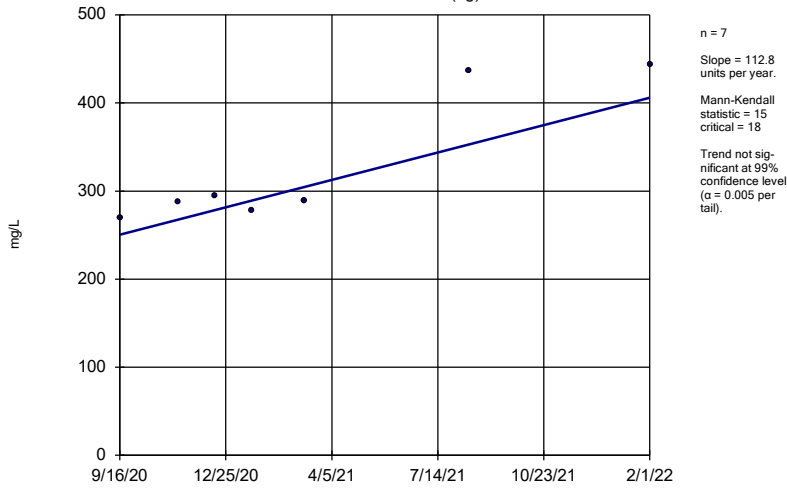
Sen's Slope Estimator  
HGWA-43D (bg)



n = 7  
Slope = -42.44  
units per year.  
Mann-Kendall  
statistic = -9  
critical = -18  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

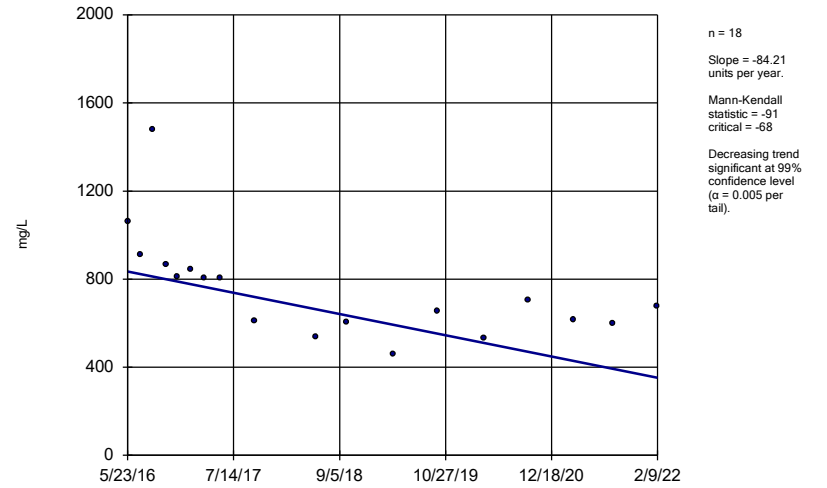
Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWA-44D (bg)



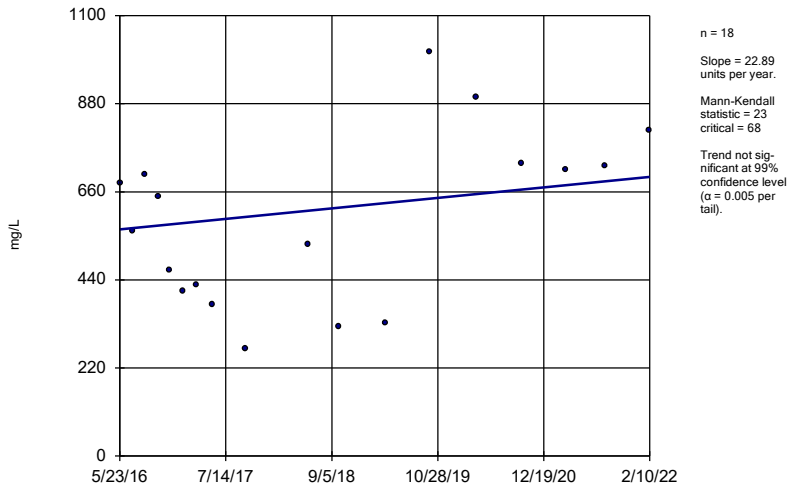
Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-12



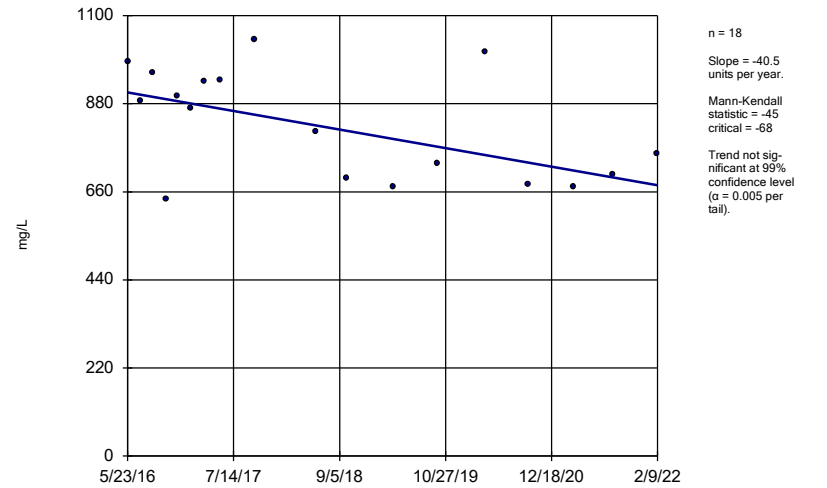
Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-13



Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-9



Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE F.

# Upper Tolerance Limits Summary Table

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 4/25/2022, 2:44 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	73	n/a	n/a	78.08	n/a	n/a	0.02365	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	79	n/a	n/a	63.29	n/a	n/a	0.01738	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	n/a	79	n/a	n/a	0	n/a	n/a	0.01738	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	73	n/a	n/a	78.08	n/a	n/a	0.02365	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	73	n/a	n/a	86.3	n/a	n/a	0.02365	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0079	n/a	n/a	n/a	n/a	73	n/a	n/a	80.82	n/a	n/a	0.02365	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	n/a	73	n/a	n/a	72.6	n/a	n/a	0.02365	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.36	n/a	n/a	n/a	n/a	79	n/a	n/a	0	n/a	n/a	0.01738	NP Inter(normality)
Fluoride (mg/L)	n/a	0.96	n/a	n/a	n/a	n/a	84	n/a	n/a	32.14	n/a	n/a	0.01345	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	70	n/a	n/a	64.29	n/a	n/a	0.02758	NP Inter(NDs)
Lithium (mg/L)	n/a	0.048	n/a	n/a	n/a	n/a	79	n/a	n/a	20.25	n/a	n/a	0.01738	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	51	n/a	n/a	96.08	n/a	n/a	0.0731	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	81	n/a	n/a	80.25	n/a	n/a	0.01569	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	79	n/a	n/a	98.73	n/a	n/a	0.01738	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	79	n/a	n/a	98.73	n/a	n/a	0.01738	NP Inter(NDs)

FIGURE G.

<b>PLANT HAMMOND AP-1 GWPS</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
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		0.0079	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		4.36	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-1 Printed 4/28/2022, 9:17 AM

<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>
<b>Arsenic (mg/L)</b>	<b>HGWC-13</b>	<b>0.4243</b>	<b>0.3567</b>	<b>0.01</b>	<b>Yes</b>	<b>21</b>	<b>0.3905</b>	<b>0.06131</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
<b>Molybdenum (mg/L)</b>	<b>HGWC-8</b>	<b>0.4903</b>	<b>0.4416</b>	<b>0.1</b>	<b>Yes</b>	<b>22</b>	<b>0.466</b>	<b>0.04541</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>



# Confidence Intervals - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-10	0.003	0.00065	0.006	No	19	0.002876	0.0005391	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-11	0.003	0.00038	0.006	No	19	0.002862	0.0006011	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-13	0.003	0.00036	0.006	No	19	0.002038	0.001296	63.16	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-7	0.003	0.0017	0.006	No	19	0.002792	0.0006642	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-8	0.003	0.00064	0.006	No	19	0.002876	0.0005414	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-9	0.003	0.00043	0.006	No	19	0.002588	0.000978	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-24D	0.003	0.003	0.006	No	10	0.00287	0.0004111	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-26D	0.003	0.002	0.006	No	10	0.00273	0.0005926	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-27D	0.003	0.0003	0.006	No	10	0.001382	0.001394	40	None	No	0.011	NP (normality)
Antimony (mg/L)	MW-28D	0.003	0.003	0.006	No	10	0.00289	0.0003479	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-29	0.003	0.003	0.006	No	10	0.002794	0.0006514	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-6	0.003	0.003	0.006	No	10	0.00284	0.000506	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-7	0.003	0.00086	0.006	No	10	0.002277	0.001014	60	None	No	0.011	NP (NDs)
Arsenic (mg/L)	HGWC-11	0.005	0.0017	0.01	No	21	0.003417	0.001744	42.86	None	No	0.01	NP (normality)
Arsenic (mg/L)	HGWC-12	0.004566	0.003196	0.01	No	21	0.003881	0.001242	9.524	None	No	0.01	Param.
<b>Arsenic (mg/L)</b>	<b>HGWC-13</b>	<b>0.4243</b>	<b>0.3567</b>	<b>0.01</b>	<b>Yes</b>	<b>21</b>	<b>0.3905</b>	<b>0.06131</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	HGWC-7	0.005	0.0019	0.01	No	21	0.004852	0.0006765	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-8	0.005	0.002	0.01	No	21	0.004857	0.0006547	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-9	0.005	0.0021	0.01	No	21	0.004239	0.001634	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-19	0.005	0.005	0.01	No	10	0.004545	0.001439	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-20	0.005	0.00094	0.01	No	10	0.003862	0.001891	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.001	0.01	No	10	0.003475	0.00199	60	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-26D	0.005	0.0008	0.01	No	10	0.00381	0.001936	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-27D	0.005	0.00069	0.01	No	10	0.003689	0.002119	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-28D	0.005	0.005	0.01	No	10	0.00461	0.001233	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-29	0.005	0.005	0.01	No	10	0.004537	0.001464	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-5	0.005	0.005	0.01	No	10	0.00463	0.00117	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-6	0.005	0.005	0.01	No	10	0.00484	0.000506	90	None	No	0.011	NP (NDs)
Barium (mg/L)	HGWC-10	0.08616	0.06339	2	No	21	0.07478	0.02063	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-11	0.05204	0.03249	2	No	21	0.04349	0.01968	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	HGWC-12	0.1104	0.08821	2	No	21	0.1007	0.02119	0	None	ln(x)	0.01	Param.
Barium (mg/L)	HGWC-13	0.08963	0.06681	2	No	21	0.07822	0.02069	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-7	0.0746	0.06816	2	No	21	0.07138	0.005842	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-8	0.07497	0.06265	2	No	21	0.06881	0.01117	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-9	0.1206	0.1049	2	No	21	0.1127	0.01424	0	None	No	0.01	Param.
Barium (mg/L)	MW-19	0.0645	0.0469	2	No	10	0.0557	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	MW-20	0.09572	0.08428	2	No	10	0.09	0.006412	0	None	No	0.01	Param.
Barium (mg/L)	MW-24D	0.081	0.048	2	No	10	0.0619	0.02291	0	None	No	0.011	NP (normality)
Barium (mg/L)	MW-25D	0.5334	0.4006	2	No	10	0.467	0.07439	0	None	No	0.01	Param.
Barium (mg/L)	MW-26D	0.1303	0.0783	2	No	10	0.1043	0.02914	0	None	No	0.01	Param.
Barium (mg/L)	MW-27D	1.2	0.95	2	No	10	1.079	0.1676	0	None	No	0.011	NP (normality)
Barium (mg/L)	MW-28D	0.7165	0.2695	2	No	10	0.493	0.2505	0	None	No	0.01	Param.
Barium (mg/L)	MW-29	0.08459	0.07481	2	No	10	0.0797	0.005478	0	None	No	0.01	Param.
Barium (mg/L)	MW-5	0.05079	0.04361	2	No	10	0.0472	0.004022	0	None	No	0.01	Param.
Barium (mg/L)	MW-6	0.09214	0.07966	2	No	10	0.0859	0.006999	0	None	No	0.01	Param.
Barium (mg/L)	MW-7	0.06238	0.04882	2	No	10	0.0556	0.007604	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-11	0.0005	0.0001	0.004	No	19	0.0003577	0.0001924	63.16	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-13	0.0005	0.000093	0.004	No	19	0.0003281	0.0002074	57.89	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-7	0.0005	0.00019	0.004	No	19	0.0004394	0.0001454	84.21	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-8	0.0005	0.000078	0.004	No	19	0.0003674	0.0002006	68.42	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-19	0.0005	0.0005	0.004	No	10	0.0004558	0.0001398	90	None	No	0.011	NP (NDs)
Beryllium (mg/L)	MW-28D	0.0005	0.000054	0.004	No	10	0.0003742	0.000204	70	None	No	0.011	NP (NDs)
Beryllium (mg/L)	MW-7	0.0005	0.0005	0.004	No	10	0.0004551	0.000142	90	None	No	0.011	NP (NDs)
Cadmium (mg/L)	HGWC-10	0.0005	0.0001	0.005	No	19	0.0003587	0.0001913	63.16	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-11	0.0005	0.0001	0.005	No	19	0.0004366	0.0001504	84.21	None	No	0.01	NP (NDs)

# Confidence Intervals - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	HGWC-12	0.0005	0.0003	0.005	No	19	0.0004337	0.0001368	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-7	0.0005	0.0002	0.005	No	19	0.0004316	0.0001376	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-8	0.00032	0.00017	0.005	No	19	0.0003068	0.0003506	5.263	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-9	0.0005	0.0002	0.005	No	19	0.0004405	0.0001429	84.21	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-19	0.0004257	0.0001233	0.005	No	10	0.000349	0.000295	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	HGWC-10	0.02	0.0011	0.1	No	19	0.005584	0.003603	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-11	0.005	0.00061	0.1	No	19	0.004522	0.001434	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-12	0.005	0.0025	0.1	No	19	0.004411	0.001444	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-13	0.005	0.00059	0.1	No	19	0.004292	0.00168	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-7	0.071	0.0016	0.1	No	19	0.007486	0.01548	68.42	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-8	0.005	0.0015	0.1	No	19	0.004133	0.001735	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-9	0.005	0.0011	0.1	No	19	0.004331	0.00159	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-19	0.005	0.00059	0.1	No	10	0.003032	0.002131	50	None	No	0.011	NP (normality)
Chromium (mg/L)	MW-20	0.005	0.00068	0.1	No	10	0.00369	0.00211	70	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-24D	0.005	0.0017	0.1	No	10	0.004212	0.001688	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-25D	0.005	0.005	0.1	No	10	0.004561	0.001388	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-26D	0.005	0.001	0.1	No	10	0.003206	0.001969	50	None	No	0.011	NP (normality)
Chromium (mg/L)	MW-27D	0.005	0.00082	0.1	No	10	0.004152	0.001788	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-28D	0.005	0.00081	0.1	No	10	0.002764	0.002001	40	None	No	0.011	NP (normality)
Chromium (mg/L)	MW-29	0.005	0.005	0.1	No	10	0.0046	0.001265	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-5	0.004196	0.002284	0.1	No	10	0.00324	0.001071	0	None	No	0.01	Param.
Chromium (mg/L)	MW-6	0.005	0.00059	0.1	No	10	0.004103	0.001891	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-7	0.005	0.0015	0.1	No	10	0.00238	0.001412	20	None	No	0.011	NP (normality)
Cobalt (mg/L)	HGWC-10	0.005	0.0007	0.038	No	19	0.003663	0.002026	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-11	0.005	0.00098	0.038	No	19	0.002903	0.001776	36.84	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-12	0.0018	0.0012	0.038	No	19	0.001805	0.001159	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-13	0.004075	0.002642	0.038	No	19	0.003358	0.001224	5.263	None	No	0.01	Param.
Cobalt (mg/L)	HGWC-7	0.0026	0.00065	0.038	No	19	0.001551	0.001611	15.79	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-8	0.0023	0.0019	0.038	No	19	0.002188	0.000719	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-9	0.0011	0.00053	0.038	No	19	0.001158	0.001396	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-19	0.04228	0.03012	0.038	No	10	0.0362	0.006812	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-20	0.005	0.005	0.038	No	10	0.00461	0.001233	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-24D	0.005	0.00056	0.038	No	10	0.003691	0.002117	70	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-26D	0.005	0.00044	0.038	No	10	0.002276	0.002346	40	None	No	0.011	NP (normality)
Cobalt (mg/L)	MW-27D	0.005	0.0004	0.038	No	10	0.003594	0.002266	70	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-28D	0.005	0.005	0.038	No	10	0.004593	0.001287	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-29	0.001281	0.0006929	0.038	No	10	0.000987	0.0003296	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-6	0.005	0.00041	0.038	No	10	0.001431	0.001888	20	None	No	0.011	NP (normality)
Combined Radium 226 + 228 (pCi/L)	HGWC-10	1.084	0.5887	5	No	21	0.8361	0.4486	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-11	1.178	0.6584	5	No	21	0.9183	0.4711	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-12	1.065	0.5671	5	No	21	0.8161	0.4513	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-13	1.012	0.5939	5	No	21	0.803	0.379	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-7	0.908	0.413	5	No	21	0.7117	0.5013	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-8	0.9892	0.7076	5	No	21	0.8484	0.2552	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-9	0.923	0.5264	5	No	21	0.7247	0.3595	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-19	1.057	0.419	5	No	10	0.7382	0.3578	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	1.041	0.3055	5	No	10	0.6733	0.4123	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	0.6843	0.1353	5	No	10	0.4167	0.3701	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	1.202	0.7598	5	No	10	0.9811	0.248	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26D	1.069	0.1051	5	No	10	0.5869	0.5399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-27D	1.731	0.7838	5	No	10	1.257	0.5305	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-28D	1.512	0.547	5	No	10	1.029	0.5406	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-29	1.003	0.3103	5	No	10	0.6564	0.3879	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5	1.02	0.4979	5	No	10	0.759	0.2927	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	0.872	0.557	5	No	10	0.8099	0.4811	0	None	No	0.011	NP (normality)

# Confidence Intervals - All Results

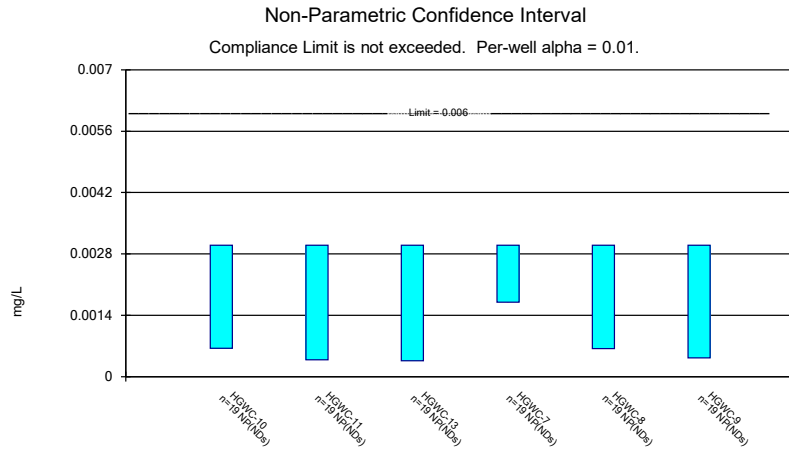
Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	MW-7	1.242	0.4847	5	No	10	0.8635	0.4245	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-10	0.1935	0.07795	4	No	22	0.1766	0.1375	18.18	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-11	0.4339	0.26	4	No	22	0.347	0.1619	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-12	0.3832	0.1863	4	No	22	0.3151	0.2438	4.545	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-13	0.7044	0.5046	4	No	22	0.6045	0.1861	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-7	0.17	0.083	4	No	23	0.1457	0.112	8.696	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-8	0.6281	0.4776	4	No	23	0.5678	0.1729	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-9	0.2464	0.09575	4	No	22	0.1913	0.1573	9.091	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-19	0.3015	0.09303	4	No	10	0.1992	0.1388	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-20	0.1	0.1	4	No	10	0.0972	0.008854	90	None	No	0.011	NP (NDs)
Fluoride (mg/L)	MW-24D	0.09578	0.04138	4	No	10	0.0868	0.03963	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-25D	1.7	1.5	4	No	10	1.64	0.2171	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	MW-26D	0.1115	0.05026	4	No	10	0.0817	0.04186	10	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-27D	0.28	0.24	4	No	10	0.265	0.05662	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	MW-28D	0.2507	0.1533	4	No	10	0.202	0.05453	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-29	0.1	0.07	4	No	10	0.0995	0.03387	70	None	No	0.011	NP (NDs)
Fluoride (mg/L)	MW-5	0.08789	0.05536	4	No	10	0.0773	0.02094	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-6	0.19	0.059	4	No	10	0.1025	0.05484	20	None	No	0.011	NP (normality)
Fluoride (mg/L)	MW-7	0.1	0.1	4	No	10	0.1039	0.02519	80	None	No	0.011	NP (NDs)
Lead (mg/L)	HGWC-10	0.005	0.00005	0.015	No	17	0.004709	0.001201	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-11	0.005	0.00021	0.015	No	17	0.003298	0.002377	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-12	0.005	0.000096	0.015	No	17	0.003573	0.00228	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-13	0.005	0.00014	0.015	No	17	0.003282	0.002398	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-7	0.005	0.00009	0.015	No	17	0.002529	0.002419	47.06	None	No	0.01	NP (normality)
Lead (mg/L)	HGWC-8	0.005	0.0002	0.015	No	17	0.003854	0.002129	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-9	0.005	0.00014	0.015	No	17	0.002724	0.002488	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-19	0.005	0.000038	0.015	No	8	0.002538	0.002632	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-20	0.005	0.000039	0.015	No	8	0.002555	0.002614	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-24D	0.005	0.00004	0.015	No	8	0.001932	0.002541	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	MW-26D	0.005	0.00008	0.015	No	8	0.003772	0.002273	75	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-27D	0.005	0.00013	0.015	No	8	0.00382	0.002186	75	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-28D	0.0007463	0.0001038	0.015	No	8	0.002128	0.002394	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	MW-29	0.005	0.000052	0.015	No	8	0.003156	0.002544	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	MW-5	0.005	0.000047	0.015	No	8	0.004381	0.001751	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	MW-6	0.005	0.000036	0.015	No	8	0.002564	0.002605	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-7	0.005	0.000062	0.015	No	8	0.004383	0.001746	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	HGWC-12	0.01077	0.008283	0.048	No	21	0.009529	0.002258	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-13	0.03752	0.03069	0.048	No	21	0.0341	0.006196	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-7	0.003	0.0021	0.048	No	21	0.003114	0.002766	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-8	0.003	0.0025	0.048	No	21	0.003305	0.002694	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-9	0.0045	0.004	0.048	No	21	0.00471	0.002399	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-19	0.01337	0.008369	0.048	No	10	0.01087	0.002804	0	None	No	0.01	Param.
Lithium (mg/L)	MW-20	0.015	0.00091	0.048	No	10	0.003912	0.005849	20	None	No	0.011	NP (normality)
Lithium (mg/L)	MW-24D	0.002893	0.002587	0.048	No	10	0.00274	0.0001713	0	None	No	0.01	Param.
Lithium (mg/L)	MW-25D	0.05057	0.04583	0.048	No	10	0.0482	0.002658	0	None	No	0.01	Param.
Lithium (mg/L)	MW-26D	0.0041	0.0033	0.048	No	10	0.00629	0.008336	0	None	No	0.011	NP (normality)
Lithium (mg/L)	MW-27D	0.008926	0.006134	0.048	No	10	0.00753	0.001565	0	None	No	0.01	Param.
Lithium (mg/L)	MW-28D	0.01353	0.006626	0.048	No	10	0.01008	0.003872	0	None	No	0.01	Param.
Lithium (mg/L)	MW-29	0.002388	0.002132	0.048	No	10	0.00226	0.000143	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-10	0.0002	0.00005	0.002	No	13	0.0001885	0.0000416	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-11	0.0002	0.00005	0.002	No	13	0.0001885	0.0000416	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-13	0.0002	0.00005	0.002	No	13	0.0001762	0.00005824	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-9	0.0002	0.00004	0.002	No	13	0.0001877	0.00004438	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-10	0.005	0.0014	0.1	No	21	0.00361	0.00183	61.9	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-11	0.02653	0.01633	0.1	No	21	0.02143	0.009245	0	None	No	0.01	Param.

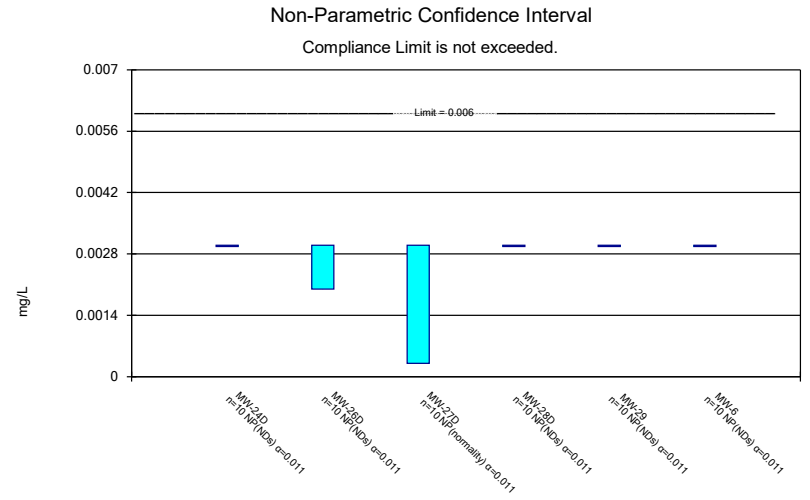
# Confidence Intervals - All Results

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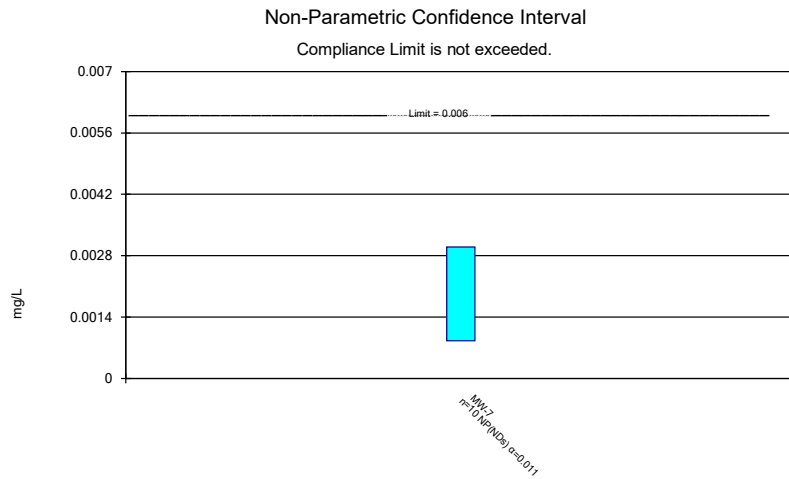
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	HGWC-12	0.04931	0.04537	0.1	No	21	0.04734	0.003573	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-13	0.03557	0.03036	0.1	No	21	0.03297	0.004724	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-7	0.04304	0.03524	0.1	No	22	0.03914	0.007261	0	None	No	0.01	Param.
<b>Molybdenum (mg/L)</b>	<b>HGWC-8</b>	<b>0.4903</b>	<b>0.4416</b>	<b>0.1</b>	<b>Yes</b>	<b>22</b>	<b>0.466</b>	<b>0.04541</b>	<b>0</b>	<b>None</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Molybdenum (mg/L)	HGWC-9	0.034	0.0236	0.1	No	21	0.04941	0.09809	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-19	0.05671	0.02749	0.1	No	10	0.0421	0.01637	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.005	0.0008	0.1	No	10	0.002489	0.002171	40	None	No	0.011	NP (normality)
Molybdenum (mg/L)	MW-25D	0.005	0.0022	0.1	No	10	0.004314	0.001476	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	MW-26D	0.0227	0.009659	0.1	No	11	0.01618	0.007828	9.091	None	No	0.01	Param.
Molybdenum (mg/L)	MW-27D	0.004255	0.001265	0.1	No	10	0.00276	0.001676	10	None	No	0.01	Param.
Molybdenum (mg/L)	MW-28D	0.0217	0.008281	0.1	No	10	0.01499	0.007519	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-29	0.003348	0.002352	0.1	No	10	0.00285	0.0005583	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.002621	0.002219	0.1	No	10	0.00242	0.0002251	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-7	0.005	0.0015	0.1	No	10	0.0032	0.001689	40	None	No	0.011	NP (normality)
Selenium (mg/L)	HGWC-10	0.005	0.0031	0.05	No	21	0.004324	0.001187	71.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-11	0.01453	0.006329	0.05	No	21	0.01043	0.007431	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-12	0.005	0.0011	0.05	No	21	0.004814	0.000851	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-13	0.005	0.0016	0.05	No	21	0.004609	0.001256	90.48	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-8	0.005	0.0024	0.05	No	21	0.004876	0.0005674	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-9	0.005	0.0037	0.05	No	21	0.004938	0.0002837	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-19	0.004996	0.002077	0.05	No	10	0.00396	0.001711	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	MW-27D	0.005	0.005	0.05	No	10	0.004512	0.001543	90	Kaplan-Meier	No	0.011	NP (NDs)
Selenium (mg/L)	MW-5	0.003618	0.002262	0.05	No	10	0.00294	0.0007604	0	None	No	0.01	Param.
Selenium (mg/L)	MW-7	0.005	0.0014	0.05	No	10	0.00306	0.001708	40	None	No	0.011	NP (normality)
Thallium (mg/L)	HGWC-11	0.001	0.00008	0.002	No	21	0.0009124	0.0002767	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-12	0.001	0.0001	0.002	No	21	0.000744	0.0004155	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-13	0.0004561	0.0003223	0.002	No	21	0.0004042	0.0001581	4.762	None	ln(x)	0.01	Param.
Thallium (mg/L)	HGWC-8	0.001	0.00009	0.002	No	21	0.0007375	0.0004253	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-19	0.001	0.00023	0.002	No	10	0.000477	0.000362	30	None	No	0.011	NP (normality)
Thallium (mg/L)	MW-28D	0.001	0.001	0.002	No	10	0.0009092	0.0002871	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	MW-29	0.001	0.001	0.002	No	10	0.0009064	0.000296	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	MW-6	0.001	0.001	0.002	No	10	0.0009082	0.0002903	90	None	No	0.011	NP (NDs)



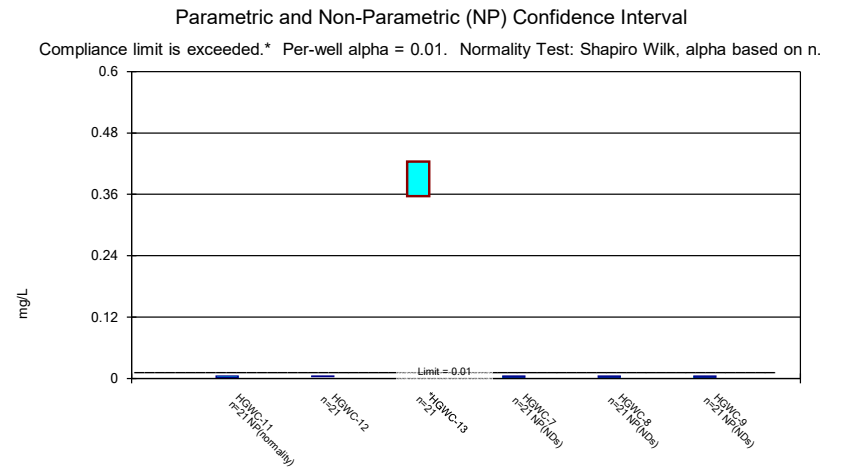
Constituent: Antimony Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Antimony Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1



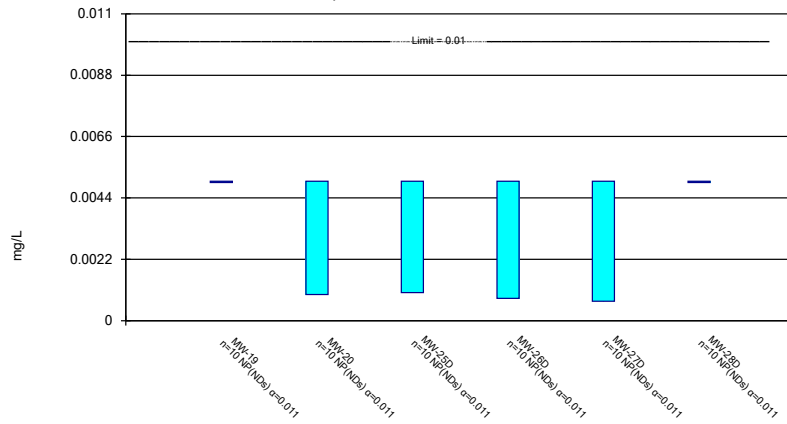
Constituent: Antimony Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Arsenic Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

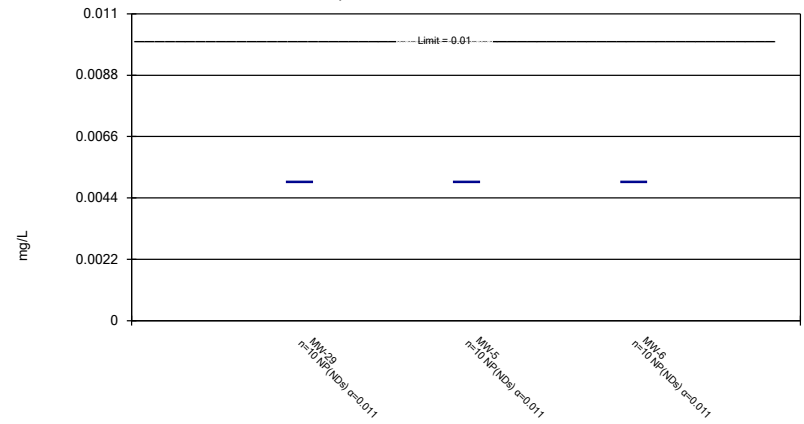
Compliance Limit is not exceeded.



Constituent: Arsenic Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

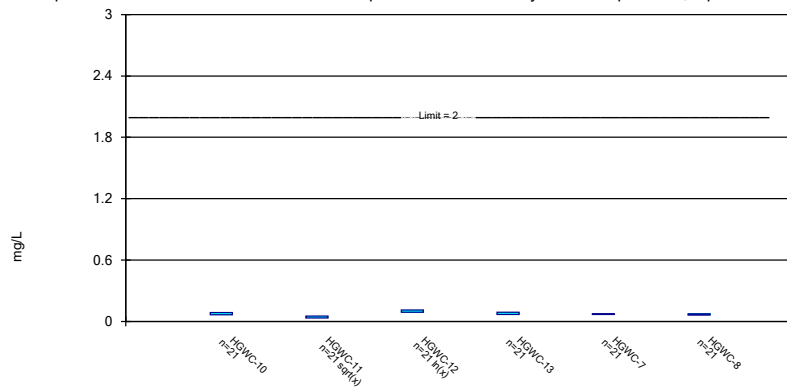
Compliance Limit is not exceeded.



Constituent: Arsenic Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric Confidence Interval

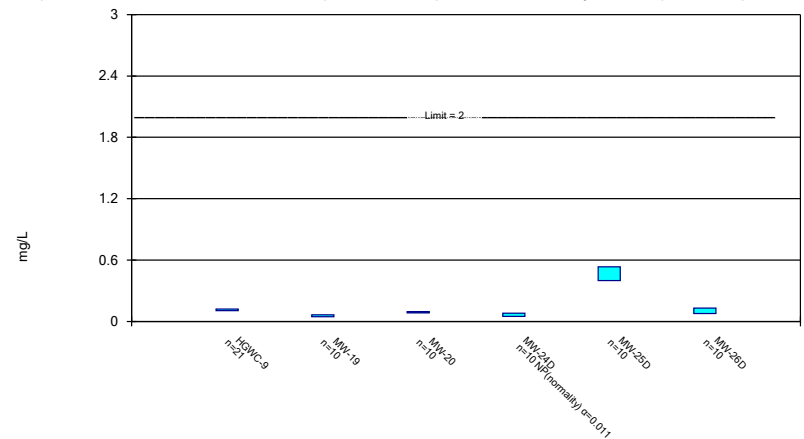
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

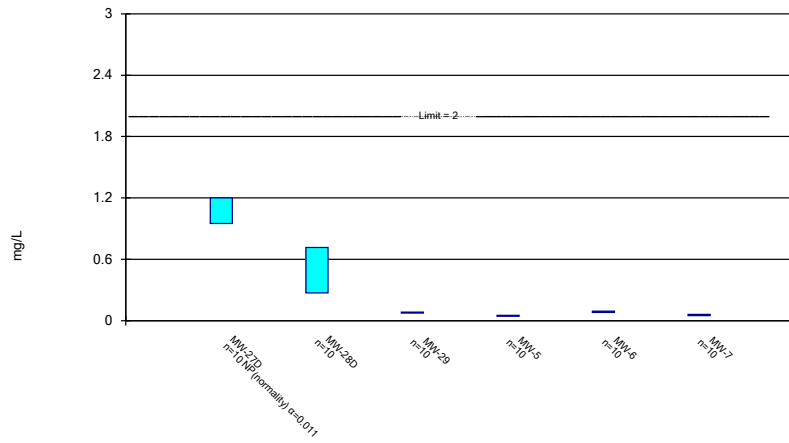
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

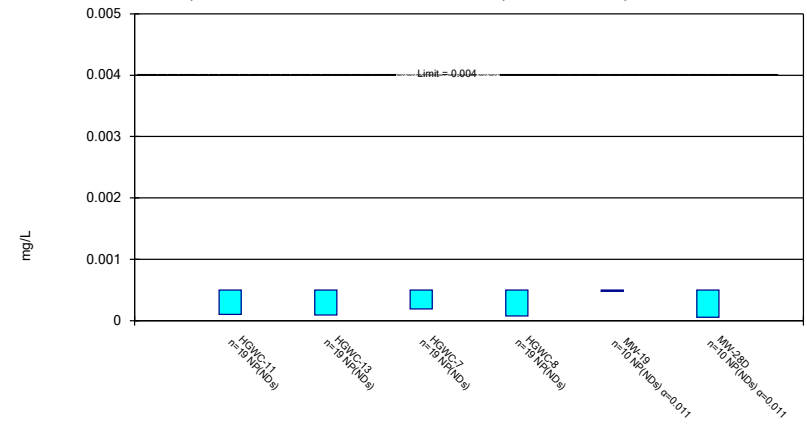
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

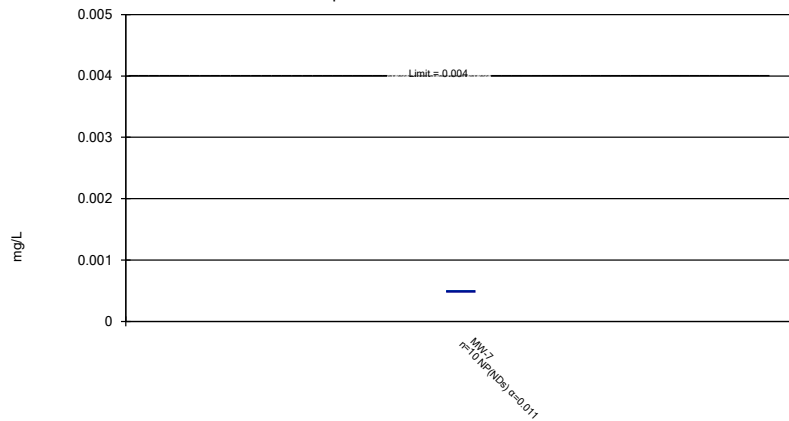
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Beryllium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

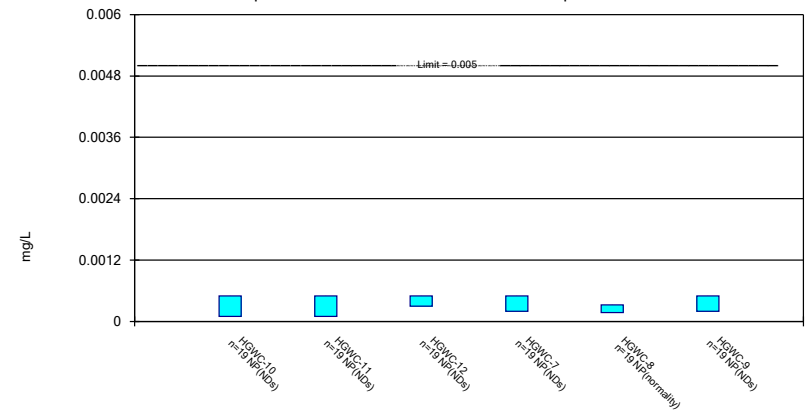
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

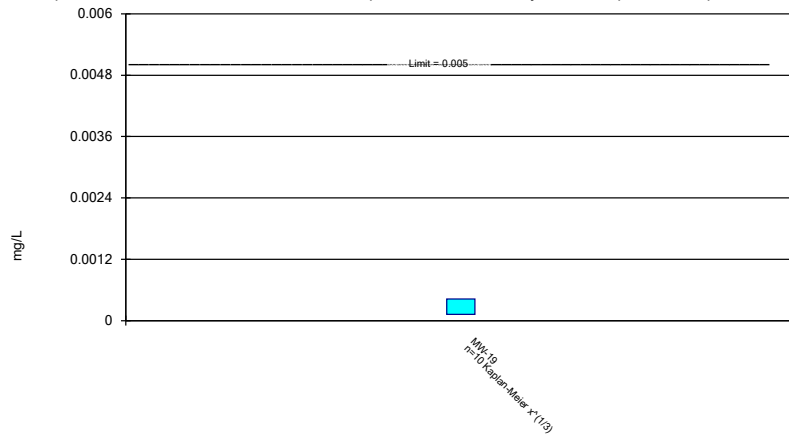
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric Confidence Interval

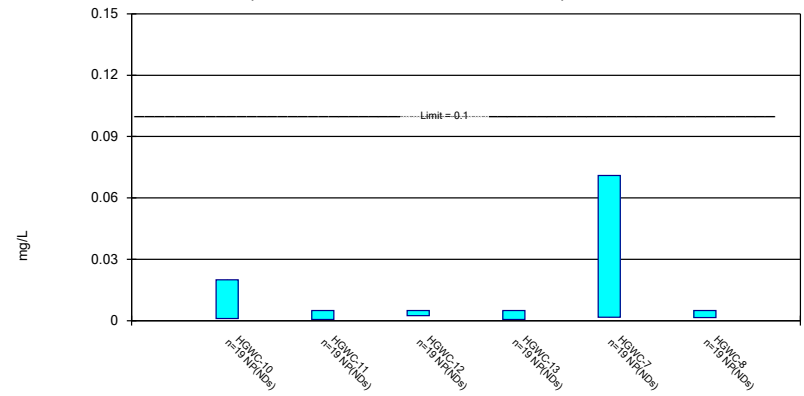
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

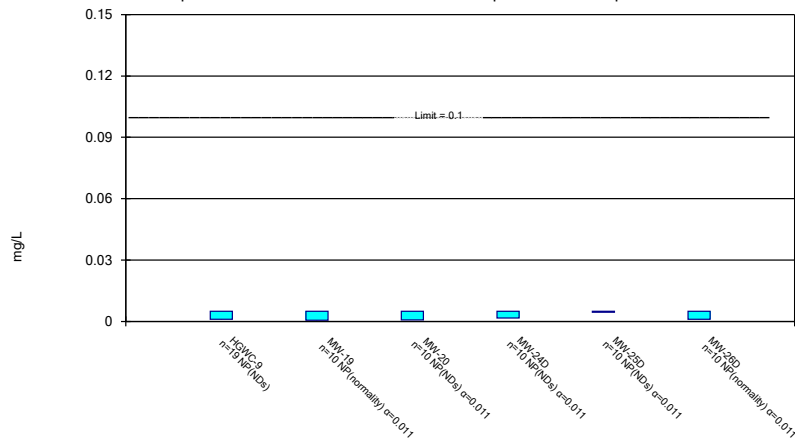
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

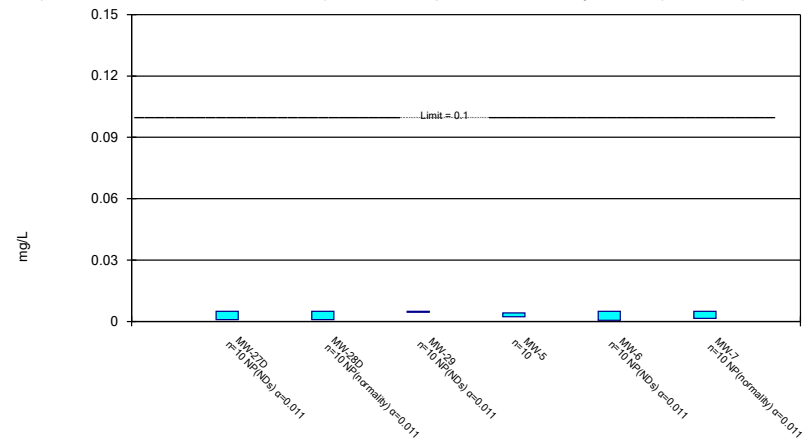
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### 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.

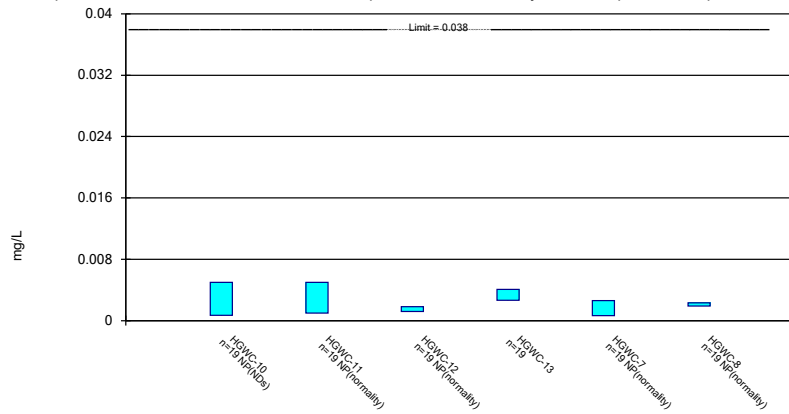


Constituent: Chromium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1



Parametric and Non-Parametric (NP) Confidence Interval

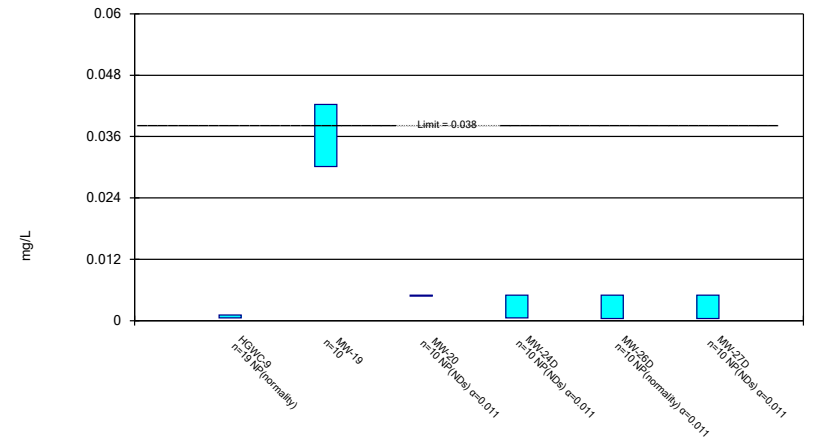
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

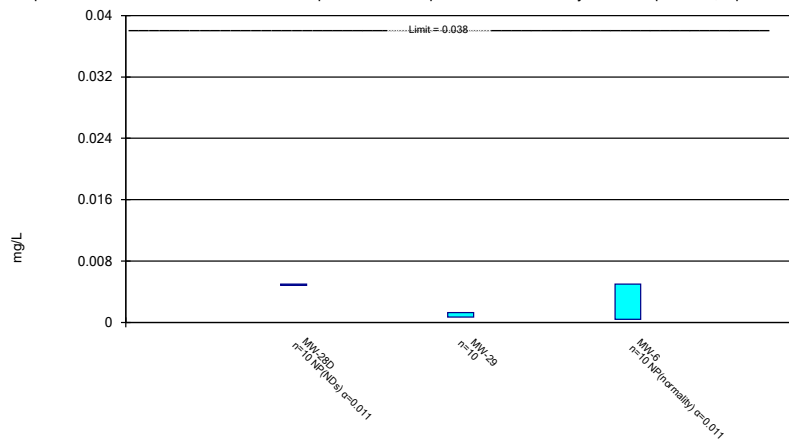
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

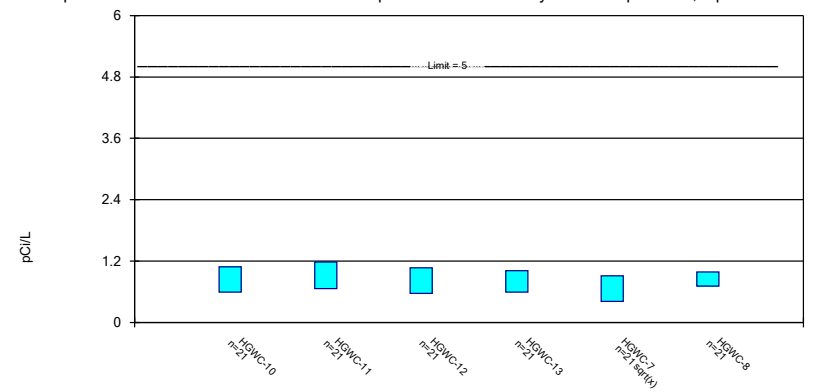
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

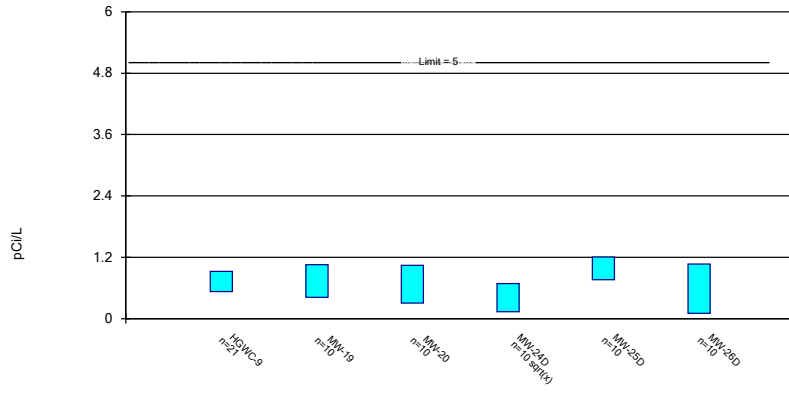
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric Confidence Interval

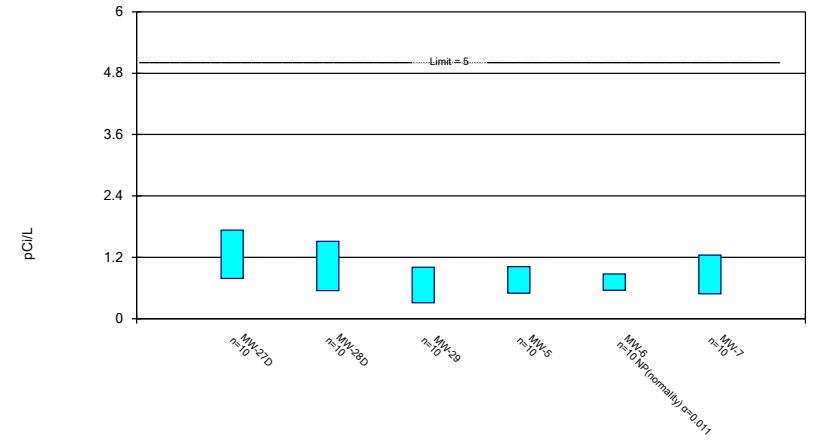
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

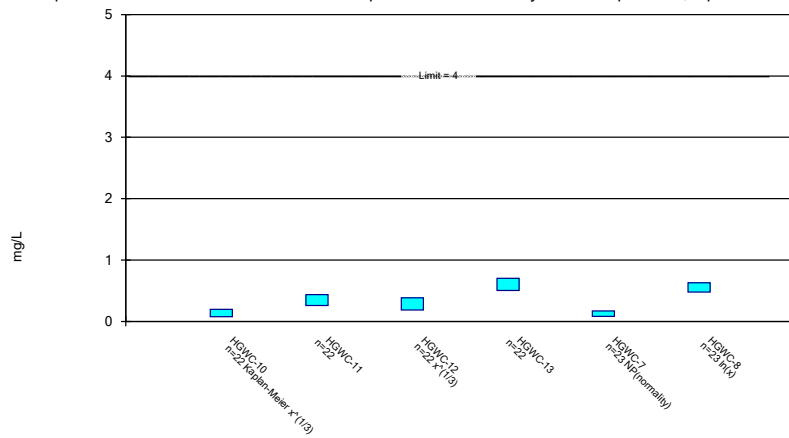
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

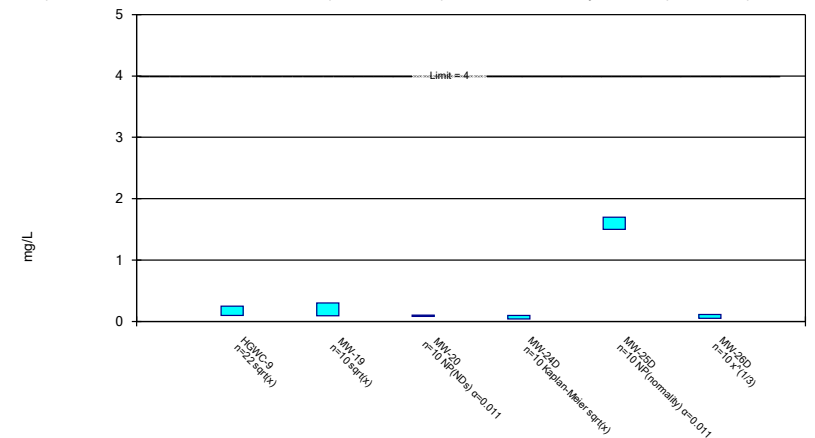
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

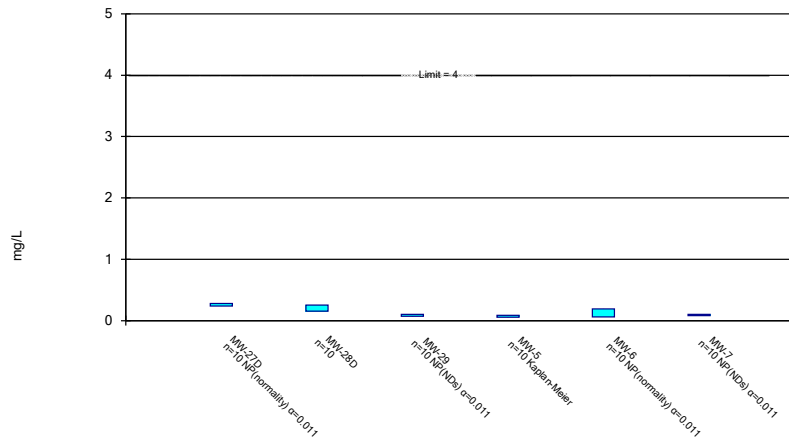
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

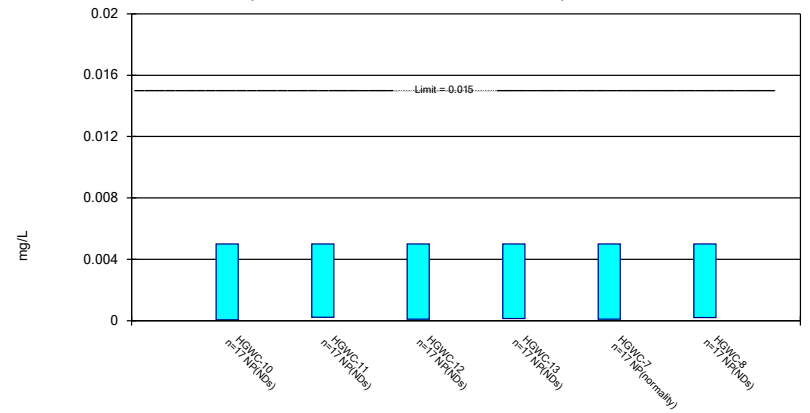
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

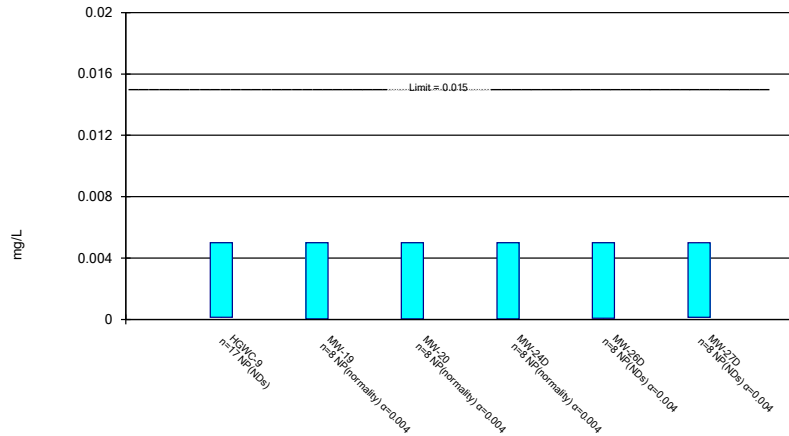
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

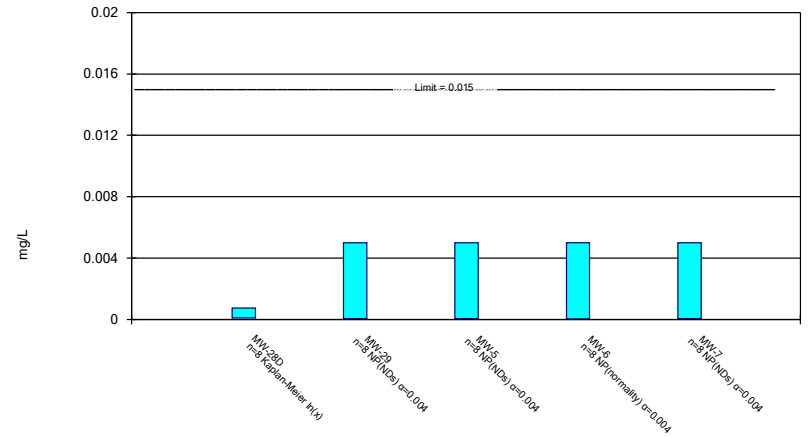
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

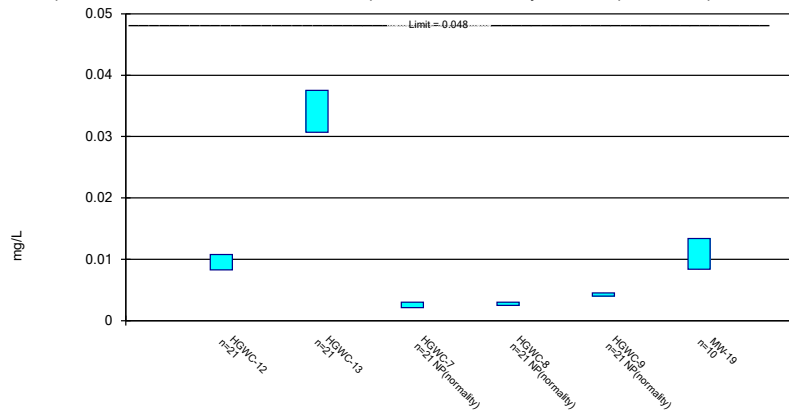
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

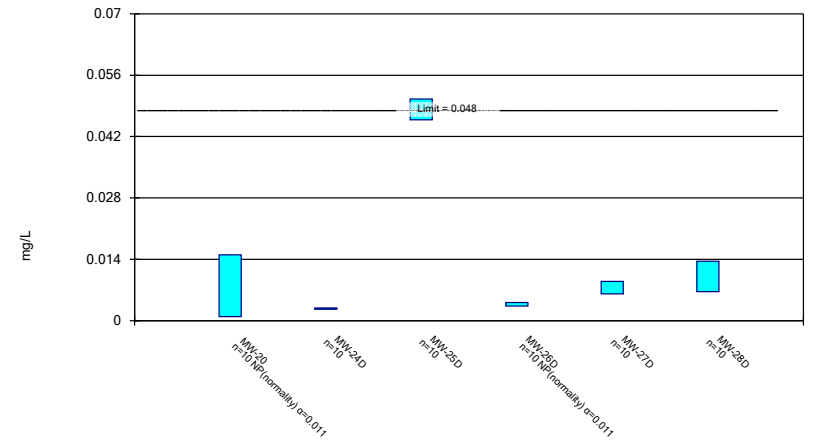
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

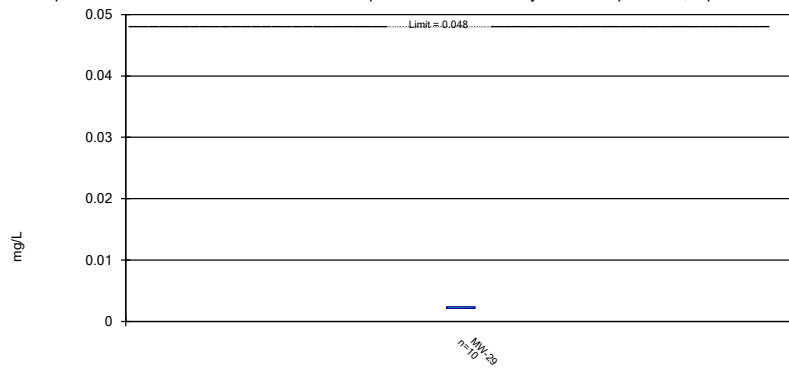
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

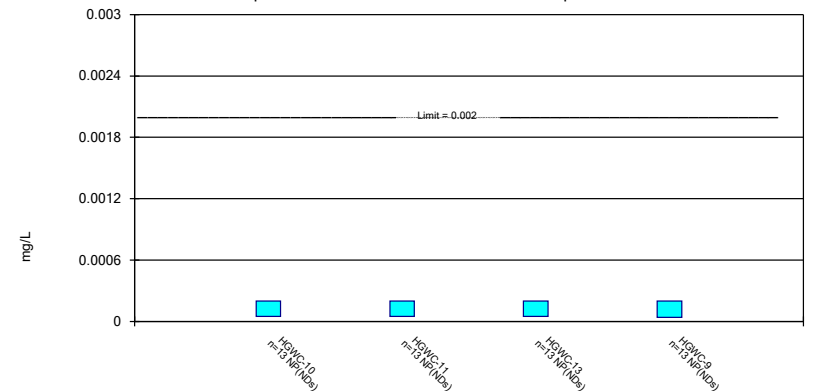
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

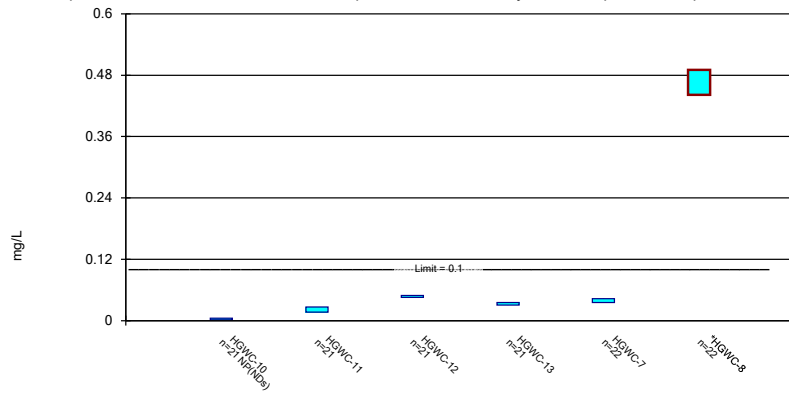
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

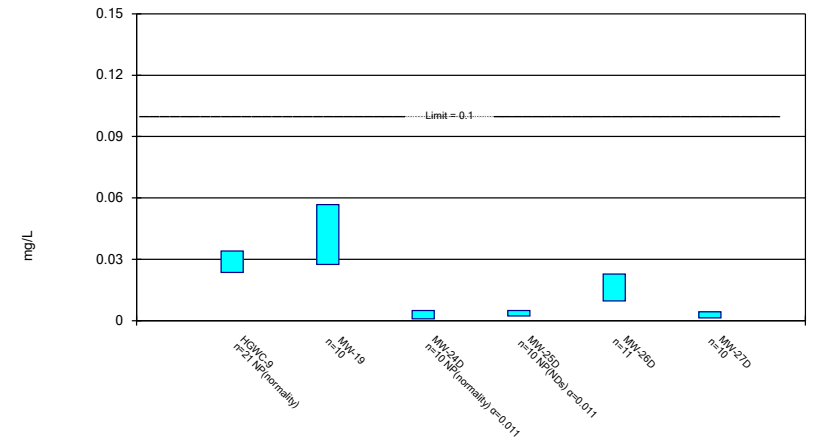
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

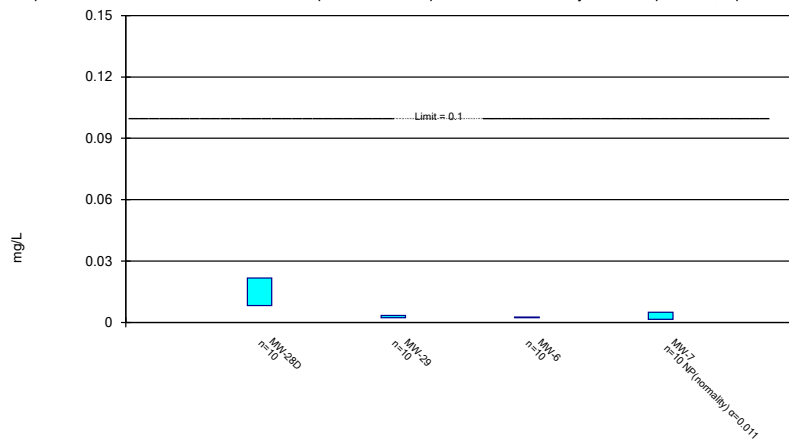
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

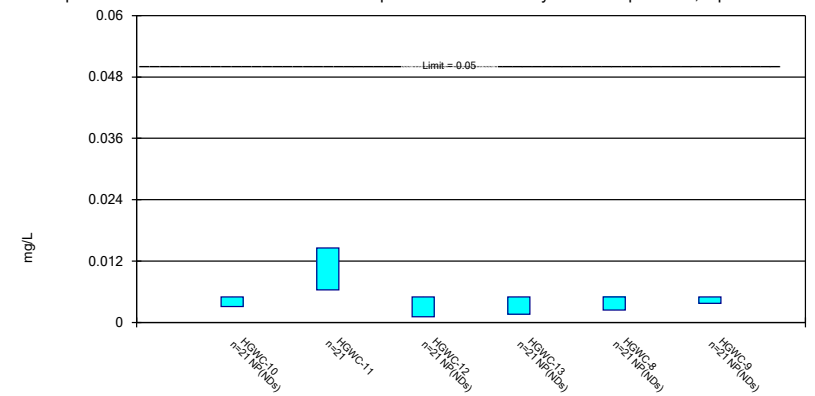
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

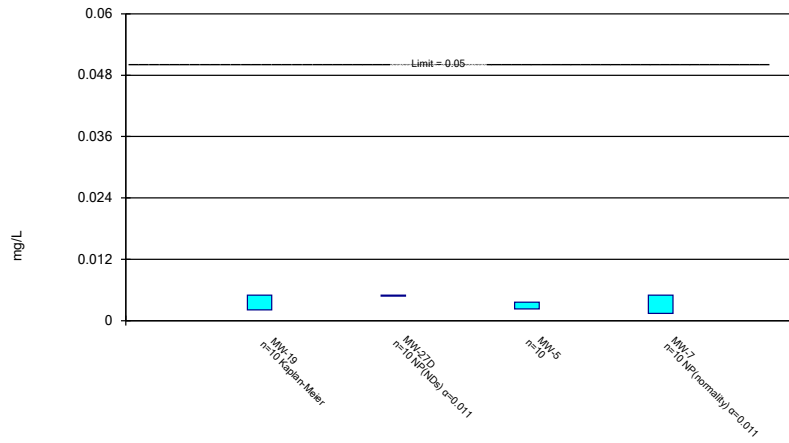
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

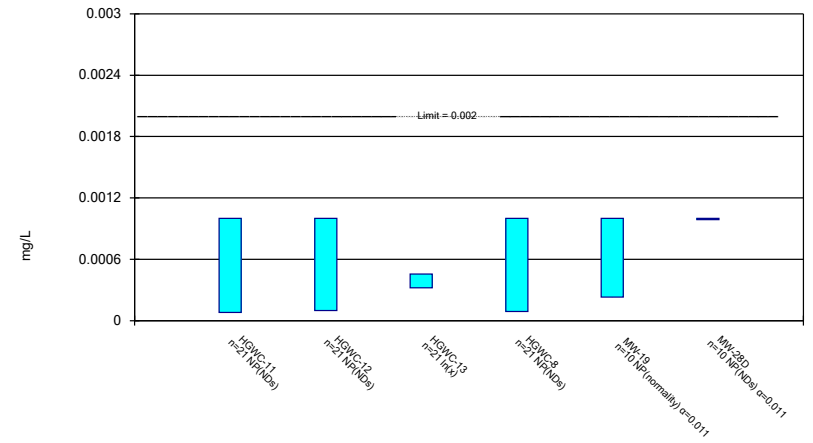
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

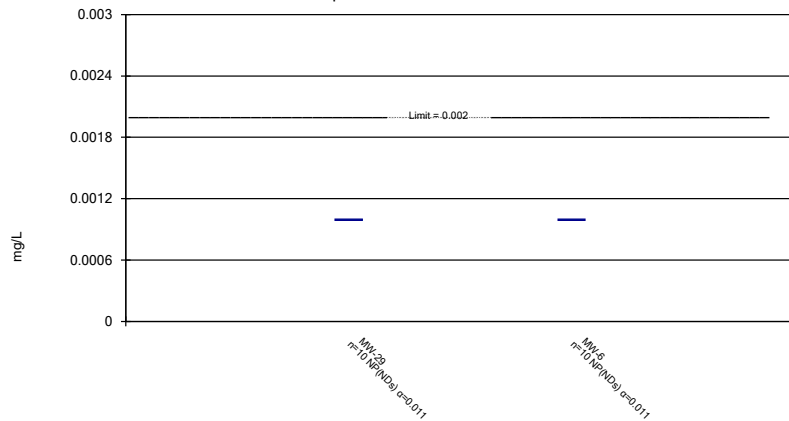
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 4/28/2022 9:14 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.003	<0.003	
5/23/2016	<0.003	<0.003	<0.003			<0.003
7/12/2016	<0.003	<0.003	0.0003 (J)	<0.003	<0.003	<0.003
9/1/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/20/2016				<0.003	<0.003	<0.003
10/24/2016	<0.003	<0.003	<0.003			
12/6/2016				<0.003	<0.003	<0.003
12/7/2016	<0.003	<0.003	<0.003			
1/25/2017				<0.003	<0.003	
1/26/2017	<0.003	<0.003	<0.003			<0.003
3/21/2017				<0.003	<0.003	
3/22/2017	<0.003	<0.003	<0.003			<0.003
5/23/2017				<0.003	<0.003	<0.003
5/24/2017	<0.003	<0.003	<0.003			
4/3/2018				<0.003	<0.003	<0.003
4/4/2018	<0.003	<0.003	<0.003			
3/12/2019					<0.003	
3/13/2019	<0.003	<0.003	<0.003	<0.003		<0.003
4/2/2019				<0.003		
4/3/2019	<0.003	<0.003			<0.003	<0.003
4/5/2019			0.00021 (J)			
9/24/2019					<0.003	
9/25/2019				<0.003		
9/26/2019			<0.003			
9/27/2019	<0.003	<0.003				<0.003
3/3/2020	<0.003	<0.003			<0.003	
3/4/2020			0.00061 (J)	<0.003		0.00032 (J)
3/27/2020				<0.003	<0.003	
3/30/2020			0.00036 (J)			
3/31/2020		<0.003				0.00042 (J)
4/1/2020	<0.003					
9/16/2020	<0.003			0.00034 (J)	<0.003	
9/17/2020						<0.003
9/18/2020		0.00038 (J)				
9/21/2020			0.00029 (J)			
2/10/2021				<0.003		
2/12/2021		<0.003				
2/15/2021	0.00065 (J)					
2/16/2021					0.00064 (J)	0.00043 (J)
2/22/2021			0.00047 (J)			
3/12/2021	<0.003					
3/15/2021				<0.003	<0.003	
3/16/2021		<0.003				<0.003
3/17/2021			0.00049 (J)			
8/16/2021				0.0017 (J)		
8/17/2021	<0.003					<0.003
8/18/2021		<0.003			<0.003	
8/19/2021			<0.003			
2/9/2022	<0.003	<0.003				<0.003
2/10/2022			<0.003	<0.003	<0.003	
Mean	0.002876	0.002862	0.002038	0.002792	0.002876	0.002588
Std. Dev.	0.0005391	0.0006011	0.001296	0.0006642	0.0005414	0.000978

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-13	HGWC-7	HGWC-8	HGWC-9
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00065	0.00038	0.00036	0.0017	0.00064	0.00043



# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-24D	MW-26D	MW-27D	MW-28D	MW-29	MW-6
3/12/2019				<0.003	<0.003	
3/13/2019	<0.003	<0.003	<0.003			<0.003
4/2/2019				<0.003	<0.003	
4/3/2019		<0.003				<0.003
4/4/2019			0.00016 (J)			
4/8/2019	<0.003					
9/24/2019					<0.003	
9/26/2019	<0.003	<0.003	0.0003 (J)	<0.003		<0.003
3/2/2020					<0.003	
3/3/2020						<0.003
3/4/2020	0.0017 (J)	0.002 (J)	0.00037 (J)	<0.003		
3/27/2020				<0.003		<0.003
3/30/2020	<0.003				<0.003	
3/31/2020		0.0013 (J)				
4/2/2020			0.0003 (J)			
9/16/2020					<0.003	
9/17/2020		<0.003				
9/18/2020			0.00031 (J)			
9/21/2020	<0.003			<0.003		0.0014 (J)
2/10/2021				0.0019 (J)		
2/15/2021					0.00094 (J)	
2/16/2021	<0.003	<0.003	0.00038 (J)			<0.003
3/12/2021			<0.003			
3/15/2021				<0.003	<0.003	
3/16/2021						<0.003
3/17/2021	<0.003	<0.003				
8/16/2021					<0.003	
8/17/2021		<0.003	<0.003			<0.003
8/18/2021				<0.003		
8/19/2021	<0.003					
2/9/2022		<0.003				<0.003
2/10/2022	<0.003		<0.003	<0.003	<0.003	
Mean	0.00287	0.00273	0.001382	0.00289	0.002794	0.00284
Std. Dev.	0.0004111	0.0005926	0.001394	0.0003479	0.0006514	0.000506
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.003	0.002	0.0003	0.003	0.003	0.003

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-7
3/13/2019	0.00086 (J)
4/3/2019	<0.003
9/26/2019	<0.003
3/3/2020	0.0013 (J)
3/30/2020	<0.003
9/21/2020	0.00051 (J)
2/15/2021	0.0021 (J)
3/15/2021	<0.003
8/17/2021	<0.003
2/8/2022	<0.003
Mean	0.002277
Std. Dev.	0.001014
Upper Lim.	0.003
Lower Lim.	0.00086

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	<0.005	
5/23/2016	<0.005	0.0046 (J)	0.329			<0.005
7/12/2016	0.0015 (J)	0.005	0.297	<0.005	<0.005	<0.005
9/1/2016	<0.005	0.0043 (J)	0.314	<0.005	<0.005	<0.005
10/20/2016				<0.005	<0.005	<0.005
10/24/2016	<0.005	0.0049 (J)	0.334			
12/6/2016				<0.005	<0.005	<0.005
12/7/2016	<0.005	0.0046 (J)	0.35			
1/25/2017				<0.005	<0.005	
1/26/2017	<0.005	<0.005	0.424			<0.005
3/21/2017				<0.005	<0.005	
3/22/2017	0.0053	0.0019 (J)	0.419			0.0008 (J)
5/23/2017				<0.005	<0.005	<0.005
5/24/2017	<0.005	0.0022 (J)	0.393			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	0.49			
6/5/2018	0.0012 (J)		0.38	<0.005		
6/6/2018		0.0048 (J)			<0.005	<0.005
10/2/2018				0.0019 (J)	<0.005	<0.005
10/3/2018	<0.005	0.0037 (J)				
10/5/2018			0.34			
3/12/2019					<0.005	
3/13/2019	0.0024 (J)		0.42	<0.005		0.00075 (J)
3/14/2019		0.0026 (J)				
4/2/2019				<0.005		
4/3/2019	0.00094 (J)	0.0022 (J)			<0.005	<0.005
4/5/2019			0.36			
9/24/2019					<0.005	
9/25/2019				<0.005		
9/26/2019			0.44			
9/27/2019	0.0018 (J)	0.0061				0.00037 (J)
3/3/2020	0.0022 (J)	0.0023 (J)			<0.005	
3/4/2020			0.52	<0.005		<0.005
3/26/2020		0.0028 (J)				
3/27/2020				<0.005	<0.005	
3/30/2020			0.47			
3/31/2020	0.0022 (J)					<0.005
9/16/2020				<0.005	<0.005	
9/17/2020						<0.005
9/18/2020	0.00081 (J)	0.0031 (J)				
9/21/2020			0.39			
2/10/2021				<0.005		
2/12/2021	0.002 (J)	0.0045 (J)				
2/16/2021					<0.005	<0.005
2/22/2021			0.45			
3/15/2021				<0.005	<0.005	
3/16/2021	0.0017 (J)	0.0038 (J)				<0.005
3/17/2021			0.39			
8/16/2021				<0.005		
8/17/2021						<0.005
8/18/2021	<0.005	0.0028 (J)			<0.005	
8/19/2021			0.31			

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.0047 (J)	0.0053				0.0021 (J)
2/10/2022			0.38	<0.005	0.002 (J)	
Mean	0.003417	0.003881	0.3905	0.004852	0.004857	0.004239
Std. Dev.	0.001744	0.001242	0.06131	0.0006765	0.0006547	0.001634
Upper Lim.	0.005	0.004566	0.4243	0.005	0.005	0.005
Lower Lim.	0.0017	0.003196	0.3567	0.0019	0.002	0.0021

# Confidence Interval

Constituent: Arsenic (mg/L)    Analysis Run 4/28/2022 9:17 AM    View: Appendix IV  
 Plant Hammond    Client: Southern Company    Data: Hammond AP-1

	MW-19	MW-20	MW-25D	MW-26D	MW-27D	MW-28D
3/12/2019						<0.005
3/13/2019		0.0023 (J)		<0.005	<0.005	
3/14/2019	<0.005		0.0019 (J)			
4/2/2019		<0.005				<0.005
4/3/2019	<0.005		<0.005	<0.005		
4/4/2019					0.0002 (J)	
9/25/2019		<0.005				
9/26/2019				<0.005	<0.005	<0.005
9/27/2019	<0.005		0.0011 (J)			
3/2/2020		0.00038 (J)				
3/3/2020			0.001 (J)			
3/4/2020	0.00045 (J)			0.0006 (J)	0.00069 (J)	<0.005
3/26/2020	<0.005		0.00075 (J)			
3/27/2020		<0.005				<0.005
3/31/2020				<0.005		
4/2/2020					<0.005	
9/17/2020		<0.005		<0.005		
9/18/2020			<0.005		<0.005	
9/21/2020	<0.005					<0.005
2/10/2021						0.0011 (J)
2/11/2021		0.00094 (J)				
2/12/2021	<0.005		<0.005			
2/16/2021				0.0008 (J)	0.001 (J)	
3/12/2021					<0.005	
3/15/2021		<0.005				<0.005
3/16/2021			<0.005			
3/17/2021	<0.005			<0.005		
8/17/2021		<0.005		<0.005	<0.005	
8/18/2021	<0.005					<0.005
8/19/2021			<0.005			
2/9/2022	<0.005		<0.005	0.0017 (J)		
2/10/2022		<0.005			<0.005	<0.005
Mean	0.004545	0.003862	0.003475	0.00381	0.003689	0.00461
Std. Dev.	0.001439	0.001891	0.00199	0.001936	0.002119	0.001233
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.005	0.00094	0.001	0.0008	0.00069	0.005

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-29	MW-5	MW-6
3/12/2019	<0.005		
3/13/2019		<0.005	<0.005
4/2/2019	<0.005		
4/3/2019		<0.005	<0.005
9/24/2019	<0.005		
9/25/2019		<0.005	
9/26/2019			<0.005
3/2/2020	<0.005	<0.005	
3/3/2020			<0.005
3/26/2020		<0.005	
3/27/2020			<0.005
3/30/2020	0.00037 (J)		
9/16/2020	<0.005		
9/17/2020		<0.005	
9/21/2020			<0.005
2/15/2021	<0.005		
2/16/2021		<0.005	<0.005
3/15/2021	<0.005		
3/16/2021		<0.005	<0.005
8/16/2021	<0.005		
8/17/2021		<0.005	<0.005
2/9/2022		0.0013 (J)	0.0034 (J)
2/10/2022	<0.005		
Mean	0.004537	0.00463	0.00484
Std. Dev.	0.001464	0.00117	0.000506
Upper Lim.	0.005	0.005	0.005
Lower Lim.	0.005	0.005	0.005

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					0.0687	0.0808
5/23/2016	0.0877	0.0466	0.133	0.0779		
7/12/2016	0.0926	0.0616	0.135	0.0697	0.0731	0.083
9/1/2016	0.0994	0.0497	0.123	0.07	0.0747	0.0829
10/20/2016					0.072	0.0811
10/24/2016	0.101	0.0794	0.135	0.0882		
12/6/2016					0.0752	0.0845
12/7/2016	0.107	0.1	0.13	0.0798		
1/25/2017					0.0747	0.078
1/26/2017	0.0538	0.0696	0.127	0.0738		
3/21/2017					0.0722	0.0791
3/22/2017	0.0962	0.0346	0.112	0.0755		
5/23/2017					0.0794	0.0846
5/24/2017	0.0996	0.0437	0.106	0.0627		
4/3/2018					0.075	0.065
4/4/2018	0.084	0.029	0.083	0.099		
6/5/2018	0.086	0.039		0.13	0.071	
6/6/2018			0.09			0.063
10/2/2018	0.076				0.078	0.061
10/3/2018		0.033	0.087			
10/5/2018				0.076		
3/12/2019						0.062
3/13/2019	0.044	0.024		0.1	0.083	
3/14/2019			0.081			
4/2/2019					0.072	
4/3/2019	0.076	0.023	0.077			0.066
4/5/2019				0.079		
9/24/2019						0.053
9/25/2019					0.061	
9/26/2019				0.11		
9/27/2019	0.078	0.033	0.096			
3/3/2020	0.048	0.022	0.092			0.052
3/4/2020				0.1	0.068	
3/26/2020			0.089			
3/27/2020					0.059	0.059
3/30/2020				0.08		
3/31/2020		0.026				
4/1/2020	0.058					
9/16/2020	0.068				0.068	0.06
9/18/2020		0.043	0.086			
9/21/2020				0.052		
2/10/2021					0.069	
2/12/2021		0.039	0.09			
2/15/2021	0.06					
2/16/2021						0.069
2/22/2021				0.061		
3/12/2021	0.058					
3/15/2021					0.074	0.063
3/16/2021		0.035	0.084			
3/17/2021				0.056		
8/16/2021					0.068	
8/17/2021	0.055					

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/18/2021		0.04	0.083			0.062
8/19/2021				0.049		
2/9/2022	0.042	0.042	0.075			
2/10/2022				0.053	0.063	0.056
Mean	0.07478	0.04349	0.1007	0.07822	0.07138	0.06881
Std. Dev.	0.02063	0.01968	0.02119	0.02069	0.005842	0.01117
Upper Lim.	0.08616	0.05204	0.1104	0.08963	0.0746	0.07497
Lower Lim.	0.06339	0.03249	0.08821	0.06681	0.06816	0.06265



# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	0.117					
7/12/2016	0.13					
9/1/2016	0.13					
10/20/2016	0.0806					
12/6/2016	0.128					
1/26/2017	0.142					
3/22/2017	0.122					
5/23/2017	0.127					
4/3/2018	0.1					
6/6/2018	0.11					
10/2/2018	0.11					
3/13/2019	0.1		0.087	0.053		0.099
3/14/2019		0.06			0.44	
4/2/2019			0.08			
4/3/2019	0.12	0.05			0.38	0.12
4/8/2019				0.043		
9/25/2019			0.085			
9/26/2019				0.12		0.12
9/27/2019	0.11	0.068			0.39	
3/2/2020			0.099			
3/3/2020					0.42	
3/4/2020	0.11	0.069		0.081		0.17
3/26/2020		0.067			0.45	
3/27/2020			0.093			
3/30/2020				0.056		
3/31/2020	0.11					0.11
9/17/2020	0.11		0.096			0.099
9/18/2020					0.44	
9/21/2020		0.056		0.053		
2/11/2021			0.093			
2/12/2021		0.051			0.46	
2/16/2021	0.11			0.062		0.093
3/15/2021			0.096			
3/16/2021	0.11				0.51	
3/17/2021		0.049		0.055		0.094
8/17/2021	0.095		0.089			0.072
8/18/2021		0.045				
8/19/2021				0.048	0.58	
2/9/2022	0.096	0.042			0.6	0.066
2/10/2022			0.082	0.048		
Mean	0.1127	0.0557	0.09	0.0619	0.467	0.1043
Std. Dev.	0.01424	0.009866	0.006412	0.02291	0.07439	0.02914
Upper Lim.	0.1206	0.0645	0.09572	0.081	0.5334	0.1303
Lower Lim.	0.1049	0.0469	0.08428	0.048	0.4006	0.0783

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		0.82	0.089			
3/13/2019	1.5			0.056	0.1	0.063
4/2/2019		0.37	0.078			
4/3/2019				0.049	0.09	0.058
4/4/2019	1.2					
9/24/2019			0.081			
9/25/2019				0.046		
9/26/2019	0.95	0.15			0.089	0.066
3/2/2020			0.088	0.049		
3/3/2020					0.09	0.043
3/4/2020	0.95	0.77				
3/26/2020				0.046		
3/27/2020		0.64			0.086	
3/30/2020			0.08			0.05
4/2/2020	1					
9/16/2020			0.076			
9/17/2020				0.043		
9/18/2020	1					
9/21/2020		0.18			0.083	0.065
2/10/2021		0.26				
2/15/2021			0.081			0.048
2/16/2021	1			0.05	0.085	
3/12/2021	1.1					
3/15/2021		0.45	0.078			0.053
3/16/2021				0.046	0.081	
8/16/2021			0.074			
8/17/2021	1.1			0.045	0.081	0.057
8/18/2021		0.53				
2/8/2022						0.053
2/9/2022				0.042	0.074	
2/10/2022	0.99	0.76	0.072			
Mean	1.079	0.493	0.0797	0.0472	0.0859	0.0556
Std. Dev.	0.1676	0.2505	0.005478	0.004022	0.006999	0.007604
Upper Lim.	1.2	0.7165	0.08459	0.05079	0.09214	0.06238
Lower Lim.	0.95	0.2695	0.07481	0.04361	0.07966	0.04882

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-13	HGWC-7	HGWC-8	MW-19	MW-28D
5/20/2016			<0.0005	<0.0005		
5/23/2016	<0.0005	<0.0005				
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005		
9/1/2016	<0.0005	<0.0005	<0.0005	<0.0005		
10/20/2016			<0.0005	<0.0005		
10/24/2016	<0.0005	<0.0005				
12/6/2016			<0.0005	<0.0005		
12/7/2016	<0.0005	<0.0005				
1/25/2017			<0.0005	<0.0005		
1/26/2017	<0.0005	<0.0005				
3/21/2017			<0.0005	<0.0005		
3/22/2017	9E-05 (J)	<0.0005				
5/23/2017			<0.0005	<0.0005		
5/24/2017	<0.0005	<0.0005				
4/3/2018			<0.0005	<0.0005		
4/4/2018	<0.0005	<0.0005				
3/12/2019				<0.0005		<0.0005
3/13/2019	0.0001 (J)	6.2E-05 (J)	<0.0005			
3/14/2019					<0.0005	
4/2/2019			<0.0005			<0.0005
4/3/2019	0.00017 (J)			7.4E-05 (J)	<0.0005	
4/5/2019		<0.0005				
9/24/2019				<0.0005		
9/25/2019			<0.0005			
9/26/2019		0.00011 (J)				<0.0005
9/27/2019	8.6E-05 (J)				<0.0005	
3/3/2020	0.00012 (J)			<0.0005		
3/4/2020		9.3E-05 (J)	7.7E-05 (J)		<0.0005	0.00014 (J)
3/26/2020					<0.0005	
3/27/2020			<0.0005	<0.0005		<0.0005
3/30/2020		9.9E-05 (J)				
3/31/2020	0.00015 (J)					
9/16/2020			<0.0005	0.0001 (J)		
9/18/2020	<0.0005					
9/21/2020		0.00011 (J)			<0.0005	<0.0005
2/10/2021			8.1E-05 (J)			5.4E-05 (J)
2/12/2021	<0.0005				<0.0005	
2/16/2021				7.1E-05 (J)		
2/22/2021		9.7E-05 (J)				
3/15/2021			0.00019 (J)	7.8E-05 (J)		4.8E-05 (J)
3/16/2021	8.1E-05 (J)					
3/17/2021		9E-05 (J)			<0.0005	
8/16/2021			<0.0005			
8/18/2021	<0.0005			8.7E-05 (J)	5.8E-05 (J)	<0.0005
8/19/2021		7.3E-05 (J)				
2/9/2022	<0.0005				<0.0005	
2/10/2022		<0.0005	<0.0005	7.1E-05 (J)		<0.0005
Mean	0.0003577	0.0003281	0.0004394	0.0003674	0.0004558	0.0003742
Std. Dev.	0.0001924	0.0002074	0.0001454	0.0002006	0.0001398	0.000204
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.0001	9.3E-05	0.00019	7.8E-05	0.0005	5.4E-05

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-7
3/13/2019	<0.0005
4/3/2019	5.1E-05 (J)
9/26/2019	<0.0005
3/3/2020	<0.0005
3/30/2020	<0.0005
9/21/2020	<0.0005
2/15/2021	<0.0005
3/15/2021	<0.0005
8/17/2021	<0.0005
2/8/2022	<0.0005
Mean	0.0004551
Std. Dev.	0.000142
Upper Lim.	0.0005
Lower Lim.	0.0005

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0005	0.00024 (J)	
5/23/2016	0.000115 (J)	<0.0005	<0.0005			<0.0005
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005	0.0002 (J)	<0.0005
9/1/2016	0.0001 (J)	<0.0005	<0.0005	<0.0005	0.0001 (J)	<0.0005
10/20/2016				<0.0005	0.0001 (J)	0.0002 (J)
10/24/2016	0.0001 (J)	<0.0005	<0.0005			
12/6/2016				0.0002 (J)	0.0017	0.0001 (J)
12/7/2016	0.0001 (J)	0.0001 (J)	0.0002 (J)			
1/25/2017				0.0002 (J)	0.0002 (J)	
1/26/2017	<0.0005	<0.0005	<0.0005			<0.0005
3/21/2017				0.0002 (J)	0.0002 (J)	
3/22/2017	0.0001 (J)	0.0001 (J)	0.0003 (J)			7E-05 (J)
5/23/2017				0.0001 (J)	0.0003 (J)	<0.0005
5/24/2017	0.0002 (J)	<0.0005	9E-05 (J)			
4/3/2018				<0.0005	<0.0005	<0.0005
4/4/2018	<0.0005	<0.0005	<0.0005			
3/12/2019					0.0002 (J)	
3/13/2019	<0.0005	<0.0005		<0.0005		<0.0005
3/14/2019			<0.0005			
4/2/2019				<0.0005		
4/3/2019	0.0001 (J)	9.6E-05 (J)	<0.0005		0.00032 (J)	<0.0005
9/24/2019					0.0002 (J)	
9/25/2019				<0.0005		
9/27/2019	<0.0005	<0.0005	<0.0005			<0.0005
3/3/2020	<0.0005	<0.0005	0.00015 (J)		0.00017 (J)	
3/4/2020				<0.0005		<0.0005
3/26/2020			<0.0005			
3/27/2020				<0.0005	0.00014 (J)	
3/31/2020		<0.0005				<0.0005
4/1/2020	<0.0005					
9/16/2020	<0.0005			<0.0005	0.00023 (J)	
9/17/2020						<0.0005
9/18/2020		<0.0005	<0.0005			
2/10/2021				<0.0005		
2/12/2021		<0.0005	<0.0005			
2/15/2021	<0.0005					
2/16/2021					0.00037 (J)	<0.0005
3/12/2021	<0.0005					
3/15/2021				<0.0005	0.00017 (J)	
3/16/2021		<0.0005	<0.0005			<0.0005
8/16/2021				<0.0005		
8/17/2021	<0.0005					<0.0005
8/18/2021		<0.0005	<0.0005		0.0002 (J)	
2/9/2022	<0.0005	<0.0005	<0.0005			<0.0005
2/10/2022				<0.0005	0.00029 (J)	
Mean	0.0003587	0.0004366	0.0004337	0.0004316	0.0003068	0.0004405
Std. Dev.	0.0001913	0.0001504	0.0001368	0.0001376	0.0003506	0.0001429
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.00032	0.0005
Lower Lim.	0.0001	0.0001	0.0003	0.0002	0.00017	0.0002

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-19
3/14/2019	<0.0005
4/3/2019	<0.0005
9/27/2019	0.00013 (J)
3/4/2020	0.00026 (J)
3/26/2020	0.00019 (J)
9/21/2020	0.00018 (J)
2/12/2021	0.0002 (J)
3/17/2021	0.00016 (J)
8/18/2021	0.00027 (J)
2/9/2022	0.0011
Mean	0.000349
Std. Dev.	0.000295
Upper Lim.	0.0004257
Lower Lim.	0.0001233

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					<0.005	<0.005
5/23/2016	<0.005	<0.005	<0.005	<0.005		
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016					<0.005	<0.005
10/24/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016					<0.005	<0.005
12/7/2016	<0.005	<0.005	<0.005	<0.005		
1/25/2017					<0.005	<0.005
1/26/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017					<0.005	0.0005 (J)
3/22/2017	<0.005	0.0003 (J)	0.0004 (J)	0.0004 (J)		
5/23/2017					<0.005	<0.005
5/24/2017	<0.005	<0.005	<0.005	<0.005		
4/3/2018					<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005	<0.005		
3/12/2019						<0.005
3/13/2019	<0.005	<0.005		<0.005	<0.005	
3/14/2019			0.0025 (J)			
4/2/2019					<0.005	
4/3/2019	0.02	<0.005	<0.005			<0.005
4/5/2019				<0.005		
9/24/2019						<0.005
9/25/2019					0.071	
9/26/2019				<0.005		
9/27/2019	<0.005	<0.005	<0.005			
3/3/2020	<0.005	0.00061 (J)	<0.005			0.0007 (J)
3/4/2020				<0.005	0.0016 (J)	
3/26/2020			<0.005			
3/27/2020					0.0004 (J)	<0.005
3/30/2020				0.00059 (J)		
3/31/2020		<0.005				
4/1/2020	<0.005					
9/16/2020	<0.005				0.00074 (J)	0.0015 (J)
9/18/2020		<0.005	0.00091 (J)			
9/21/2020				0.00056 (J)		
2/10/2021					0.0014 (J)	
2/12/2021		<0.005	<0.005			
2/15/2021	<0.005					
2/16/2021						<0.005
2/22/2021				<0.005		
3/12/2021	<0.005					
3/15/2021					0.0021 (J)	0.00082 (J)
3/16/2021		<0.005	<0.005			
3/17/2021				<0.005		
8/16/2021					<0.005	
8/17/2021	<0.005					
8/18/2021		<0.005	<0.005			<0.005
8/19/2021				<0.005		
2/9/2022	0.0011 (J)	<0.005	<0.005			
2/10/2022				<0.005	<0.005	<0.005
Mean	0.005584	0.004522	0.004411	0.004292	0.007486	0.004133

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
Std. Dev.	0.003603	0.001434	0.001444	0.00168	0.01548	0.001735
Upper Lim.	0.02	0.005	0.005	0.005	0.071	0.005
Lower Lim.	0.0011	0.00061	0.0025	0.00059	0.0016	0.0015



# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	<0.005					
7/12/2016	<0.005					
9/1/2016	<0.005					
10/20/2016	<0.005					
12/6/2016	<0.005					
1/26/2017	<0.005					
3/22/2017	<0.005					
5/23/2017	<0.005					
4/3/2018	<0.005					
3/13/2019	<0.005		<0.005	<0.005		<0.005
3/14/2019		<0.005			<0.005	
4/2/2019			<0.005			
4/3/2019	<0.005	<0.005			<0.005	<0.005
4/8/2019				<0.005		
9/25/2019			<0.005			
9/26/2019				0.00042 (J)		0.00076 (J)
9/27/2019	<0.005	<0.005			<0.005	
3/2/2020			0.00071 (J)			
3/3/2020					<0.005	
3/4/2020	<0.005	0.00066 (J)		<0.005		0.0028 (J)
3/26/2020		0.00047 (J)			0.00061 (J)	
3/27/2020			0.00051 (J)			
3/30/2020				<0.005		
3/31/2020	0.00052 (J)					0.001 (J)
9/17/2020	<0.005		<0.005			<0.005
9/18/2020					<0.005	
9/21/2020		0.0014 (J)		<0.005		
2/11/2021			<0.005			
2/12/2021		0.00059 (J)			<0.005	
2/16/2021	0.00067 (J)			<0.005		0.001 (J)
3/15/2021			0.00068 (J)			
3/16/2021	<0.005				<0.005	
3/17/2021		0.0022 (J)		0.0017 (J)		0.0015 (J)
8/17/2021	<0.005		<0.005			<0.005
8/18/2021		<0.005				
8/19/2021				<0.005	<0.005	
2/9/2022	0.0011 (J)	<0.005			<0.005	<0.005
2/10/2022			<0.005	<0.005		
Mean	0.004331	0.003032	0.00369	0.004212	0.004561	0.003206
Std. Dev.	0.00159	0.002131	0.00211	0.001688	0.001388	0.001969
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0011	0.00059	0.00068	0.0017	0.005	0.001

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		<0.005	<0.005			
3/13/2019	<0.005			0.003 (J)	<0.005	<0.005
4/2/2019		<0.005	<0.005			
4/3/2019				0.003 (J)	<0.005	0.0023 (J)
4/4/2019	<0.005					
9/24/2019			<0.005			
9/25/2019				0.0052 (J)		
9/26/2019	<0.005	0.00081 (J)			<0.005	0.0013 (J)
3/2/2020			<0.005	0.0042 (J)		
3/3/2020					0.00044 (J)	0.0015 (J)
3/4/2020	<0.005	0.0027 (J)				
3/26/2020				0.0044 (J)		
3/27/2020		<0.005			0.00059 (J)	
3/30/2020			0.001 (J)			0.0021 (J)
4/2/2020	<0.005					
9/16/2020			<0.005			
9/17/2020				0.0021 (J)		
9/18/2020	0.0007 (J)					
9/21/2020		0.00085 (J)			<0.005	0.0017 (J)
2/10/2021		0.0014 (J)				
2/15/2021			<0.005			0.0015 (J)
2/16/2021	0.00082 (J)			0.0032 (J)	<0.005	
3/12/2021	<0.005					
3/15/2021		0.00078 (J)	<0.005			0.0018 (J)
3/16/2021				0.0024 (J)	<0.005	
8/16/2021			<0.005			
8/17/2021	<0.005			0.0018 (J)	<0.005	<0.005
8/18/2021		<0.005				
2/8/2022						0.0016 (J)
2/9/2022				0.0031 (J)	<0.005	
2/10/2022	<0.005	0.0011 (J)	<0.005			
Mean	0.004152	0.002764	0.0046	0.00324	0.004103	0.00238
Std. Dev.	0.001788	0.002001	0.001265	0.001071	0.001891	0.001412
Upper Lim.	0.005	0.005	0.005	0.004196	0.005	0.005
Lower Lim.	0.00082	0.00081	0.005	0.002284	0.00059	0.0015

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					<0.005	0.00207 (J)
5/23/2016	<0.005	<0.005	<0.005	0.00361 (J)		
7/12/2016	0.0006 (J)	0.0021 (J)	0.0018 (J)	0.0032 (J)	0.0003 (J)	0.0019 (J)
9/1/2016	0.0007 (J)	0.0025 (J)	0.0016 (J)	0.0033 (J)	<0.005	0.0023 (J)
10/20/2016					0.0008 (J)	0.002 (J)
10/24/2016	0.0009 (J)	0.0032 (J)	0.0017 (J)	0.004 (J)		
12/6/2016					0.0009 (J)	0.0026 (J)
12/7/2016	0.0012 (J)	0.003 (J)	0.0021 (J)	0.0034 (J)		
1/25/2017					0.0005 (J)	0.002 (J)
1/26/2017	<0.005	0.0014 (J)	0.0016 (J)	0.0024 (J)		
3/21/2017					0.0005 (J)	0.0023 (J)
3/22/2017	0.0006 (J)	0.0014 (J)	0.0018 (J)	0.0026 (J)		
5/23/2017					0.0005 (J)	0.0023 (J)
5/24/2017	0.0006 (J)	0.0008 (J)	0.0015 (J)	0.0022 (J)		
4/3/2018					<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005	<0.005		
3/12/2019						0.002 (J)
3/13/2019	<0.005	0.00098 (J)		0.0022 (J)	0.00067 (J)	
3/14/2019			0.0011 (J)			
4/2/2019					0.00069 (J)	
4/3/2019	<0.005	0.0018 (J)	0.0011 (J)			0.0019 (J)
4/5/2019				0.0017 (J)		
9/24/2019						0.0015 (J)
9/25/2019					0.0026 (J)	
9/26/2019				0.0042 (J)		
9/27/2019	<0.005	0.00071 (J)	0.0012 (J)			
3/3/2020	<0.005	0.00087 (J)	0.0013 (J)			0.002 (J)
3/4/2020				0.0066	0.0011 (J)	
3/26/2020			0.0012 (J)			
3/27/2020					0.00074 (J)	0.0018 (J)
3/30/2020				0.0053		
3/31/2020		0.0014 (J)				
4/1/2020	<0.005					
9/16/2020	<0.005				0.00065 (J)	0.0019 (J)
9/18/2020		<0.005	0.0014 (J)			
9/21/2020				0.0032 (J)		
2/10/2021					0.00081 (J)	
2/12/2021		<0.005	0.0012 (J)			
2/15/2021	<0.005					
2/16/2021						0.002 (J)
2/22/2021				0.003 (J)		
3/12/2021	<0.005					
3/15/2021					0.0014 (J)	0.0019 (J)
3/16/2021		<0.005	0.0012 (J)			
3/17/2021				0.0029 (J)		
8/16/2021					0.0012 (J)	
8/17/2021	<0.005					
8/18/2021		<0.005	0.0012 (J)			0.002 (J)
8/19/2021				0.0024 (J)		
2/9/2022	<0.005	<0.005	0.0013 (J)			
2/10/2022				0.0026 (J)	0.0011 (J)	0.0021 (J)
Mean	0.003663	0.002903	0.001805	0.003358	0.001551	0.002188

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
Std. Dev.	0.002026	0.001776	0.001159	0.001224	0.001611	0.000719
Upper Lim.	0.005	0.005	0.0018	0.004075	0.0026	0.0023
Lower Lim.	0.0007	0.00098	0.0012	0.002642	0.00065	0.0019

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-26D	MW-27D
5/23/2016	<0.005					
7/12/2016	0.0006 (J)					
9/1/2016	0.0007 (J)					
10/20/2016	0.002 (J)					
12/6/2016	0.0011 (J)					
1/26/2017	0.0006 (J)					
3/22/2017	0.0005 (J)					
5/23/2017	0.0006 (J)					
4/3/2018	<0.005					
3/13/2019	0.00065 (J)		0.0011 (J)	<0.005	<0.005	<0.005
3/14/2019		0.025				
4/2/2019			<0.005			
4/3/2019	0.00069 (J)	0.036			<0.005	
4/4/2019						9.1E-05 (J)
4/8/2019				0.00025 (J)		
9/25/2019			<0.005			
9/26/2019				0.0011 (J)	0.00053 (J)	<0.005
9/27/2019	0.00057 (J)	0.033				
3/2/2020			<0.005			
3/4/2020	0.00053 (J)	0.048		0.00056 (J)	<0.005	0.00045 (J)
3/26/2020		0.045				
3/27/2020			<0.005			
3/30/2020				<0.005		
3/31/2020	0.00051 (J)				0.0003 (J)	
4/2/2020						<0.005
9/17/2020	0.0007 (J)		<0.005		<0.005	
9/18/2020						<0.005
9/21/2020		0.032		<0.005		
2/11/2021			<0.005			
2/12/2021		0.037				
2/16/2021	0.00061 (J)			<0.005	0.00045 (J)	0.0004 (J)
3/12/2021						<0.005
3/15/2021			<0.005			
3/16/2021	0.00069 (J)					
3/17/2021		0.037		<0.005	0.00044 (J)	
8/17/2021	0.00045 (J)		<0.005		0.00045 (J)	<0.005
8/18/2021		0.039				
8/19/2021				<0.005		
2/9/2022	0.00051 (J)	0.03			0.00059 (J)	
2/10/2022			<0.005	<0.005		<0.005
Mean	0.001158	0.0362	0.00461	0.003691	0.002276	0.003594
Std. Dev.	0.001396	0.006812	0.001233	0.002117	0.002346	0.002266
Upper Lim.	0.0011	0.04228	0.005	0.005	0.005	0.005
Lower Lim.	0.00053	0.03012	0.005	0.00056	0.00044	0.0004

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-6
3/12/2019	<0.005	0.00057 (J)	
3/13/2019			0.00055 (J)
4/2/2019	<0.005	0.00084 (J)	
4/3/2019			<0.005
9/24/2019		0.0015 (J)	
9/26/2019	<0.005		0.00036 (J)
3/2/2020		0.00067 (J)	
3/3/2020			0.00094 (J)
3/4/2020	0.00093 (J)		
3/27/2020	<0.005		0.00059 (J)
3/30/2020		0.00063 (J)	
9/16/2020		0.0013 (J)	
9/21/2020	<0.005		0.00041 (J)
2/10/2021	<0.005		
2/15/2021		0.00097 (J)	
2/16/2021			0.00045 (J)
3/15/2021	<0.005	0.0011 (J)	
3/16/2021			0.00042 (J)
8/16/2021		0.0014 (J)	
8/17/2021			<0.005
8/18/2021	<0.005		
2/9/2022			0.00059 (J)
2/10/2022	<0.005	0.00089 (J)	
Mean	0.004593	0.000987	0.001431
Std. Dev.	0.001287	0.0003296	0.001888
Upper Lim.	0.005	0.001281	0.005
Lower Lim.	0.005	0.0006929	0.00041

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					0.62 (U)	0.56 (U)
5/23/2016	0.419 (U)	0.509 (U)	1.12	0.625 (U)		
7/12/2016	0.855	0.784 (U)	1.61	0.478 (U)	0.283 (U)	0.636 (U)
9/1/2016	0.844 (U)	0.261 (U)	1.23	0.595 (U)	0.703 (U)	0.818 (U)
10/20/2016					1.97	1.04 (U)
10/24/2016	0.917 (U)	1.42	1.98	1.54		
12/6/2016					2	0.771 (U)
12/7/2016	0.558 (U)	0.781 (U)	0.319 (U)	0.657 (U)		
1/25/2017					1.06 (U)	0.859 (U)
1/26/2017	0.922 (U)	0.842 (U)	0.54 (U)	1.22		
3/21/2017					0.668 (U)	0.851 (U)
3/22/2017	0.751 (U)	0.318 (U)	0.635 (U)	0.285 (U)		
5/23/2017					0.621 (U)	0.705 (U)
5/24/2017	0.725 (U)	0.687 (U)	1.01	0.655 (U)		
4/3/2018					0.538 (U)	0.311 (U)
4/4/2018	0.715 (U)	1.5	0.956	0.882 (U)		
6/5/2018	0.718 (U)	0.549 (U)		1.1 (U)	0.985 (U)	
6/6/2018			0.424 (U)			0.896 (U)
10/2/2018	0.948				0.837 (U)	1.21
10/3/2018		1.48	0.57 (U)			
10/5/2018				0.558 (U)		
3/12/2019						0.544 (U)
3/13/2019	1.19 (U)	0.584 (U)		0.39 (U)	0.403 (U)	
3/14/2019			0.992 (U)			
4/2/2019					0.865 (U)	
4/3/2019	1.82 (U)	0.36 (U)	0.734 (U)			0.885 (U)
4/5/2019				0.422 (U)		
9/24/2019						1.3
9/25/2019					0.884 (U)	
9/26/2019				0.939 (U)		
9/27/2019	1.16 (U)	1.78	0.958 (U)			
3/3/2020	0.667 (U)	0.716 (U)	0.971 (U)			0.835 (U)
3/4/2020				0.708 (U)	0.624 (U)	
3/26/2020			0.209 (U)			
3/27/2020					0.485 (U)	1.04 (U)
3/30/2020				0.602 (U)		
3/31/2020		1.3 (U)				
4/1/2020	0.235 (U)					
9/16/2020	0 (U)				0.135 (U)	0.526 (U)
9/18/2020		1.24 (U)	0.916 (U)			
9/21/2020				1.53		
2/10/2021					0.281 (U)	
2/12/2021		1.1	0.236 (U)			
2/15/2021	1.91					
2/16/2021						0.764 (U)
2/22/2021				1.02		
3/12/2021	1.12 (U)					
3/15/2021					0.666 (U)	1.3 (U)
3/16/2021		1.71	0.245 (U)			
3/17/2021				1.45 (U)		
8/16/2021					0.143 (U)	
8/17/2021	0.595 (U)					

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/18/2021		0.919 (U)	0.919 (U)			1.02 (U)
8/19/2021				0.764 (U)		
2/9/2022	0.49 (U)	0.444 (U)	0.564 (U)			
2/10/2022				0.442 (U)	0.175 (U)	0.945 (U)
Mean	0.8361	0.9183	0.8161	0.803	0.7117	0.8484
Std. Dev.	0.4486	0.4711	0.4513	0.379	0.5013	0.2552
Upper Lim.	1.084	1.178	1.065	1.012	0.908	0.9892
Lower Lim.	0.5887	0.6584	0.5671	0.5939	0.413	0.7076



# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	0.826 (U)					
7/12/2016	0.511 (U)					
9/1/2016	0.762 (U)					
10/20/2016	1.17					
12/6/2016	0.126 (U)					
1/26/2017	0.515 (U)					
3/22/2017	0.451 (U)					
5/23/2017	0.924 (U)					
4/3/2018	0.732 (U)					
6/6/2018	0.813 (U)					
10/2/2018	0.61 (U)					
3/13/2019	1 (U)		0.538 (U)	0.311 (U)		0.627 (U)
3/14/2019		0.347 (U)			1.28 (U)	
4/2/2019			1.02 (U)			
4/3/2019	0.156 (U)	0.884 (U)			0.662 (U)	0.205 (U)
4/8/2019				0.573 (U)		
9/25/2019			1.35 (U)			
9/26/2019				0.878 (U)		0.912 (U)
9/27/2019	0.428 (U)	0.534 (U)			0.945 (U)	
3/2/2020			0.653 (U)			
3/3/2020					1.36	
3/4/2020	1.03	1.04		0.333 (U)		1.27 (U)
3/26/2020		1.1 (U)			0.793 (U)	
3/27/2020			0.1 (U)			
3/30/2020				0.107 (U)		
3/31/2020	1.2 (U)					1.65
9/17/2020	1.38 (U)		0.469 (U)			0.42 (U)
9/18/2020					1.17 (U)	
9/21/2020		1.36 (U)		1.23 (U)		
2/11/2021			0.334 (U)			
2/12/2021		0.764 (U)			1.17	
2/16/2021	1.17 (U)			0.156 (U)		0.505 (U)
3/15/2021			1.24 (U)			
3/16/2021	0.446 (U)				0.742 (U)	
3/17/2021		0.466 (U)		0.174 (U)		0.165 (U)
8/17/2021	0.771 (U)		0.709 (U)			0.0468 (U)
8/18/2021		0.642 (U)				
8/19/2021				0.227 (U)	0.935 (U)	
2/9/2022	0.198 (U)	0.245 (U)			0.754 (U)	0.0677 (U)
2/10/2022			0.32 (U)	0.178 (U)		
Mean	0.7247	0.7382	0.6733	0.4167	0.9811	0.5869
Std. Dev.	0.3595	0.3578	0.4123	0.3701	0.248	0.5399
Upper Lim.	0.923	1.057	1.041	0.6843	1.202	1.069
Lower Lim.	0.5264	0.419	0.3055	0.1353	0.7598	0.1051

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		0.926 (U)	1.37			
3/13/2019	1.81			0.621 (U)	2.07	1.23
4/2/2019		0.479 (U)	0.62 (U)			
4/3/2019				0.932 (U)	0.872 (U)	1.05 (U)
4/4/2019	1.33					
9/24/2019			0.675 (U)			
9/25/2019				0.798 (U)		
9/26/2019	0.974 (U)	0.997 (U)			0.745 (U)	0.947 (U)
3/2/2020			0.413 (U)	0.964 (U)		
3/3/2020					0.757 (U)	1.15
3/4/2020	1.12	1.31				
3/26/2020				1.1		
3/27/2020		1.59			0.758 (U)	
3/30/2020			0.885 (U)			0.83 (U)
4/2/2020	2.48					
9/16/2020			0.193 (U)			
9/17/2020				0.618 (U)		
9/18/2020	1.13 (U)					
9/21/2020		1.39 (U)			0.796 (U)	1.55 (U)
2/10/2021		0.201 (U)				
2/15/2021			1.17 (U)			0.892 (U)
2/16/2021	1.21			0.466 (U)	0.198 (U)	
3/12/2021	0.649 (U)					
3/15/2021		0.564 (U)	0.436 (U)			0.386 (U)
3/16/2021				1.22	0.727 (U)	
8/16/2021			0.208 (U)			
8/17/2021	1.06 (U)			0.304 (U)	0.557 (U)	0.183 (U)
8/18/2021		0.876 (U)				
2/8/2022						0.417 (U)
2/9/2022				0.567 (U)	0.619 (U)	
2/10/2022	0.809 (U)	1.96 (U)	0.594 (U)			
Mean	1.257	1.029	0.6564	0.759	0.8099	0.8635
Std. Dev.	0.5305	0.5406	0.3879	0.2927	0.4811	0.4245
Upper Lim.	1.731	1.512	1.003	1.02	0.872	1.242
Lower Lim.	0.7838	0.547	0.3103	0.4979	0.557	0.4847

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					0.0828 (J)	0.499
5/23/2016	0.0394 (J)	0.203 (J)	0.212 (J)	0.2587 (J)		
7/12/2016	0.15 (J)	0.44	0.31	0.53	0.2 (J)	0.67
9/1/2016	0.5	0.67	0.62	0.74	0.51	0.94
10/20/2016					0.4	0.56
10/24/2016	0.06 (J)	0.26 (J)	0.19 (J)	0.31		
12/6/2016					0.26 (J)	0.76
12/7/2016	0.44	0.55	0.73	1		
1/25/2017					0.24 (J)	1.1
1/26/2017	0.29 (J)	0.27 (J)	0.12 (J)	0.68		
3/21/2017					0.13 (J)	0.46
3/22/2017	0.34	0.66	0.44	0.76		
5/23/2017					0.11 (J)	0.65
5/24/2017	0.13 (J)	0.35	0.34	0.54		
10/3/2017	0.46	0.56	0.58	0.83	0.17 (J)	0.66
4/3/2018					<0.1	0.39
4/4/2018	<0.1	0.39	<0.1	0.65		
6/5/2018	<0.1	0.24 (J)		0.47	0.099 (J)	
6/6/2018			0.21 (J)			0.46
10/2/2018	0.17 (J)				<0.1	0.51
10/3/2018		0.31	0.15 (J)			
10/5/2018				0.77		
3/12/2019						0.58
3/13/2019	0.17 (J)	0.51		0.78	0.12 (J)	
3/14/2019			1.1			
4/2/2019					0.097 (J)	
4/3/2019	0.082 (J)	0.43	0.3 (J)			0.63
4/5/2019				0.83		
9/24/2019						0.49
9/25/2019					0.1 (J)	
9/26/2019				0.64		
9/27/2019	0.17 (J)	0.42	0.26 (J)			
3/3/2020	0.11 (J)	0.24 (J)	0.21 (J)			0.45
3/4/2020				0.37	0.077 (J)	
3/26/2020			0.17 (J)			
3/27/2020					0.059 (J)	0.46
3/30/2020				0.44		
3/31/2020		0.19 (J)				
4/1/2020	0.12 (J)					
6/16/2020						0.45
6/17/2020					0.077 (J)	
9/16/2020	<0.1				0.081 (J)	0.53
9/18/2020		0.15	0.15			
9/21/2020				0.44		
2/10/2021					0.085 (J)	
2/12/2021		0.17	0.19			
2/15/2021	0.08 (J)					
2/16/2021						0.47
2/22/2021				0.55		
3/12/2021	0.054 (J)					
3/15/2021					0.086 (J)	0.51
3/16/2021		0.21	0.2			

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
3/17/2021				0.65		
8/16/2021					0.084 (J)	
8/17/2021	<0.1					
8/18/2021		0.21	0.15			0.41
8/19/2021				0.53		
2/9/2022	0.12	0.2	0.2			
2/10/2022				0.53	0.083 (J)	0.42
Mean	0.1766	0.347	0.3151	0.6045	0.1457	0.5678
Std. Dev.	0.1375	0.1619	0.2438	0.1861	0.112	0.1729
Upper Lim.	0.1935	0.4339	0.3832	0.7044	0.17	0.6281
Lower Lim.	0.07795	0.26	0.1863	0.5046	0.083	0.4776

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	<0.1					
7/12/2016	0.24 (J)					
9/1/2016	0.46					
10/20/2016	0.56					
12/6/2016	0.31					
1/26/2017	0.004 (J)					
3/22/2017	0.28 (J)					
5/23/2017	0.29 (J)					
10/3/2017	0.53					
4/3/2018	<0.1					
6/6/2018	0.12 (J)					
10/2/2018	0.031 (J)					
3/13/2019	0.14 (J)		0.072 (J)	0.074 (J)		0.052 (J)
3/14/2019		0.35			2.2	
4/2/2019			<0.1			
4/3/2019	0.14 (J)	0.19 (J)			1.6	0.044 (J)
4/8/2019				0.048 (J)		
9/25/2019			<0.1			
9/26/2019				0.18 (J)		0.19 (J)
9/27/2019	0.26 (J)	0.53			1.5	
3/2/2020			<0.1			
3/3/2020					1.4	
3/4/2020	0.08 (J)	0.096 (J)		0.051 (J)		0.052 (J)
3/26/2020		0.12 (J)			1.6	
3/27/2020			<0.1			
3/30/2020				0.064 (J)		
3/31/2020	0.074 (J)					<0.1
9/17/2020	0.1		<0.1			0.069 (J)
9/18/2020					1.6	
9/21/2020		0.17		<0.1		
2/11/2021			<0.1			
2/12/2021		0.16			1.6	
2/16/2021	0.096 (J)			<0.1		0.071 (J)
3/15/2021			<0.1			
3/16/2021	0.098 (J)				1.7	
3/17/2021		0.18		<0.1		0.072 (J)
8/17/2021	0.095 (J)		<0.1			0.075 (J)
8/18/2021		0.12				
8/19/2021				<0.1	1.5	
2/9/2022	0.1	0.076 (J)			1.7	0.092 (J)
2/10/2022			<0.1	0.051 (J)		
Mean	0.1913	0.1992	0.0972	0.0868	1.64	0.0817
Std. Dev.	0.1573	0.1388	0.008854	0.03963	0.2171	0.04186
Upper Lim.	0.2464	0.3015	0.1	0.09578	1.7	0.1115
Lower Lim.	0.09575	0.09303	0.1	0.04138	1.5	0.05026

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		0.24 (J)	0.07 (J)			
3/13/2019	0.28 (J)			0.1 (J)	0.19 (J)	0.069 (J)
4/2/2019		0.18 (J)	0.045 (J)			
4/3/2019				0.049 (J)	0.15 (J)	<0.1
4/4/2019	0.26 (J)					
9/24/2019			0.18 (J)			
9/25/2019				0.076 (J)		
9/26/2019	0.42	0.22 (J)			0.19 (J)	0.17 (J)
3/2/2020			<0.1	0.065 (J)		
3/3/2020					0.062 (J)	<0.1
3/4/2020	0.25 (J)	0.26 (J)				
3/26/2020				0.082 (J)		
3/27/2020		0.26 (J)			<0.1	
3/30/2020			<0.1			<0.1
4/2/2020	0.24 (J)					
9/16/2020			<0.1			
9/17/2020				0.094 (J)		
9/18/2020	0.22					
9/21/2020		0.1			<0.1	<0.1
2/10/2021		0.16				
2/15/2021			<0.1			<0.1
2/16/2021	0.25			0.051 (J)	0.059 (J)	
3/12/2021	0.24					
3/15/2021		0.24	<0.1			<0.1
3/16/2021				<0.1	0.06 (J)	
8/16/2021			<0.1			
8/17/2021	0.24			<0.1	0.055 (J)	<0.1
8/18/2021		0.14				
2/8/2022						<0.1
2/9/2022				0.056 (J)	0.059 (J)	
2/10/2022	0.25	0.22	<0.1			
Mean	0.265	0.202	0.0995	0.0773	0.1025	0.1039
Std. Dev.	0.05662	0.05453	0.03387	0.02094	0.05484	0.02519
Upper Lim.	0.28	0.2507	0.1	0.08789	0.19	0.1
Lower Lim.	0.24	0.1533	0.07	0.05536	0.059	0.1

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					<0.005	<0.005
5/23/2016	<0.005	<0.005	<0.005	<0.005		
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016					<0.005	<0.005
10/24/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016					0.0001 (J)	<0.005
12/7/2016	<0.005	<0.005	<0.005	<0.005		
1/25/2017					0.0001 (J)	<0.005
1/26/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017					9E-05 (J)	<0.005
3/22/2017	<0.005	0.0003 (J)	<0.005	7E-05 (J)		
5/23/2017					8E-05 (J)	<0.005
5/24/2017	<0.005	9E-05 (J)	<0.005	<0.005		
4/3/2018					<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005	<0.005		
3/12/2019						<0.005
3/13/2019	<0.005	<0.005		<0.005	<0.005	
3/14/2019			<0.005			
3/3/2020	<0.005	0.00021 (J)	5.6E-05 (J)			0.00013 (J)
3/4/2020				0.00014 (J)	0.00051 (J)	
3/26/2020			0.00043 (J)			
3/27/2020					5.4E-05 (J)	<0.005
3/30/2020				0.0001 (J)		
3/31/2020		0.0003 (J)				
4/1/2020	5E-05 (J)					
9/16/2020	<0.005				0.0002 (J)	0.0002 (J)
9/18/2020		6E-05 (J)	9.6E-05 (J)			
9/21/2020				0.00015 (J)		
2/10/2021					0.00056 (J)	
2/12/2021		<0.005	6.7E-05 (J)			
2/15/2021	<0.005					
2/16/2021						8.6E-05 (J)
2/22/2021				0.00018 (J)		
3/12/2021	<0.005					
3/15/2021					0.0013	0.00011 (J)
3/16/2021		9.9E-05 (J)	8.9E-05 (J)			
3/17/2021				0.00015 (J)		
8/16/2021					<0.005	
8/17/2021	<0.005					
8/18/2021		<0.005	<0.005			<0.005
8/19/2021				<0.005		
2/9/2022	<0.005	<0.005	<0.005			
2/10/2022				<0.005	<0.005	<0.005
Mean	0.004709	0.003298	0.003573	0.003282	0.002529	0.003854
Std. Dev.	0.001201	0.002377	0.00228	0.002398	0.002419	0.002129
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	5E-05	0.00021	9.6E-05	0.00014	9E-05	0.0002

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-26D	MW-27D
5/23/2016	<0.005					
7/12/2016	<0.005					
9/1/2016	<0.005					
10/20/2016	<0.005					
12/6/2016	0.0002 (J)					
1/26/2017	0.0001 (J)					
3/22/2017	<0.005					
5/23/2017	0.0001 (J)					
4/3/2018	<0.005					
3/13/2019	<0.005		<0.005	<0.005	<0.005	<0.005
3/14/2019		<0.005				
3/2/2020			0.00017 (J)			
3/4/2020	8.4E-05 (J)	0.00011 (J)		0.00019 (J)	<0.005	<0.005
3/26/2020		<0.005				
3/27/2020			0.00013 (J)			
3/30/2020				6.4E-05 (J)		
3/31/2020	0.00014 (J)				0.0001 (J)	
4/2/2020						0.00013 (J)
9/17/2020	0.00022 (J)		<0.005		<0.005	
9/18/2020						<0.005
9/21/2020		8.5E-05 (J)		4.2E-05 (J)		
2/11/2021			3.9E-05 (J)			
2/12/2021		7.1E-05 (J)				
2/16/2021	0.0002 (J)			0.00012 (J)	8E-05 (J)	0.00043 (J)
3/12/2021						<0.005
3/15/2021			0.0001 (J)			
3/16/2021	0.00027 (J)					
3/17/2021		3.8E-05 (J)		4E-05 (J)	<0.005	
8/17/2021	<0.005		<0.005		<0.005	<0.005
8/18/2021		<0.005				
8/19/2021				<0.005		
2/9/2022	<0.005	<0.005			<0.005	
2/10/2022			<0.005	<0.005		<0.005
Mean	0.002724	0.002538	0.002555	0.001932	0.003772	0.00382
Std. Dev.	0.002488	0.002632	0.002614	0.002541	0.002273	0.002186
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00014	3.8E-05	3.9E-05	4E-05	8E-05	0.00013



# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			<0.005	<0.005	<0.005
3/2/2020		9E-05 (J)	4.7E-05 (J)		
3/3/2020				0.00013 (J)	6.2E-05 (J)
3/4/2020	0.001 (J)				
3/26/2020			<0.005		
3/27/2020	6.2E-05 (J)			<0.005	
3/30/2020		0.00011 (J)			<0.005
9/16/2020		<0.005			
9/17/2020			<0.005		
9/21/2020	0.00018 (J)			0.00026 (J)	<0.005
2/10/2021	0.00044 (J)				
2/15/2021		5.2E-05 (J)			<0.005
2/16/2021			<0.005	8.4E-05 (J)	
3/15/2021	0.00034 (J)	<0.005			<0.005
3/16/2021			<0.005	3.6E-05 (J)	
8/16/2021		<0.005			
8/17/2021			<0.005	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					<0.005
2/9/2022			<0.005	<0.005	
2/10/2022	<0.005	<0.005			
Mean	0.002128	0.003156	0.004381	0.002564	0.004383
Std. Dev.	0.002394	0.002544	0.001751	0.002605	0.001746
Upper Lim.	0.0007463	0.005	0.005	0.005	0.005
Lower Lim.	0.0001038	5.2E-05	4.7E-05	3.6E-05	6.2E-05

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9	MW-19
5/20/2016			<0.03	<0.03		
5/23/2016	0.0107 (J)	0.0422 (J)			<0.03	
7/12/2016	0.0113 (J)	0.0366 (J)	0.0021 (J)	0.0023 (J)	0.004 (J)	
9/1/2016	0.0118 (J)	0.04 (J)	0.0025 (J)	0.0029 (J)	0.0044 (J)	
10/20/2016			0.0021 (J)	0.0027 (J)	0.0027 (J)	
10/24/2016	0.0114 (J)	0.0435 (J)				
12/6/2016			0.0026 (J)	0.0032 (J)	0.005 (J)	
12/7/2016	0.0155 (J)	0.0477 (J)				
1/25/2017			0.0024 (J)	0.0026 (J)		
1/26/2017	0.0099 (J)	0.0342 (J)			0.0042 (J)	
3/21/2017			0.0026 (J)	0.0029 (J)		
3/22/2017	0.0098 (J)	0.0353 (J)			0.0043 (J)	
5/23/2017			0.0026 (J)	0.0029 (J)	0.0048 (J)	
5/24/2017	0.0105 (J)	0.0317 (J)				
4/3/2018			0.0023 (J)	0.0025 (J)	0.0043 (J)	
4/4/2018	0.008 (J)	0.031 (J)				
6/5/2018		0.031 (J)	0.0022 (J)			
6/6/2018	0.0095 (J)			0.0023 (J)	0.0043 (J)	
10/2/2018			0.003 (J)	0.0025 (J)	0.004 (J)	
10/3/2018	0.0083 (J)					
10/5/2018		0.027 (J)				
3/12/2019				0.0025 (J)		
3/13/2019		0.029 (J)	0.0024 (J)		0.004 (J)	
3/14/2019	0.0058 (J)					0.0089 (J)
4/2/2019			0.002 (J)			
4/3/2019	0.0066 (J)			0.0025 (J)	0.004 (J)	0.0061 (J)
4/5/2019		0.023 (J)				
9/24/2019				0.0024 (J)		
9/25/2019			0.0019 (J)			
9/26/2019		0.035				
9/27/2019	0.011 (J)				0.0044 (J)	0.013 (J)
3/3/2020	0.0063 (J)			0.0028 (J)		
3/4/2020		0.041	0.0034 (J)		0.004 (J)	0.01 (J)
3/26/2020	0.0063 (J)					0.013 (J)
3/27/2020			0.002 (J)	0.0026 (J)		
3/30/2020		0.038				
3/31/2020					0.0043 (J)	
9/16/2020			0.0026 (J)	0.0033 (J)		
9/17/2020					0.004 (J)	
9/18/2020	0.01 (J)					
9/21/2020		0.028 (J)				0.013 (J)
2/10/2021			0.0032 (J)			
2/12/2021	0.0094 (J)					0.012 (J)
2/16/2021				0.0027 (J)	0.0045 (J)	
2/22/2021		0.032				
3/15/2021			0.0038 (J)	0.0029 (J)		
3/16/2021	0.0081 (J)				0.0046 (J)	
3/17/2021		0.031				0.012 (J)
8/16/2021			0.0025 (J)			
8/17/2021					0.004 (J)	
8/18/2021	0.0099 (J)			0.0029 (J)		0.014 (J)
8/19/2021		0.028 (J)				

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9	MW-19
2/9/2022	0.01 (J)				0.0041 (J)	0.0067 (J)
2/10/2022		0.031	0.0022 (J)	0.003 (J)		
Mean	0.009529	0.0341	0.003114	0.003305	0.00471	0.01087
Std. Dev.	0.002258	0.006196	0.002766	0.002694	0.002399	0.002804
Upper Lim.	0.01077	0.03752	0.003	0.003	0.0045	0.01337
Lower Lim.	0.008283	0.03069	0.0021	0.0025	0.004	0.008369

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-20	MW-24D	MW-25D	MW-26D	MW-27D	MW-28D
3/12/2019						0.011 (J)
3/13/2019	0.0016 (J)	0.0029 (J)		0.0033 (J)	0.0097 (J)	
3/14/2019			0.05			
4/2/2019	0.0015 (J)					0.0052 (J)
4/3/2019			0.047 (J)	0.0034 (J)		
4/4/2019					0.0069 (J)	
4/8/2019		0.0027 (J)				
9/25/2019	<0.03					
9/26/2019		0.003 (J)		0.0041 (J)	0.0055 (J)	0.0055 (J)
9/27/2019			0.047			
3/2/2020	0.00082 (J)					
3/3/2020			0.05			
3/4/2020		0.0026 (J)		0.03 (J)	0.0047 (J)	0.015 (J)
3/26/2020			0.054			
3/27/2020	0.0012 (J)					0.014 (J)
3/30/2020		0.0027 (J)				
3/31/2020				0.0036 (J)		
4/2/2020					0.0068 (J)	
9/17/2020	<0.03			0.0032 (J)		
9/18/2020			0.046		0.0084 (J)	
9/21/2020		0.0024 (J)				0.0053 (J)
2/10/2021						0.0092 (J)
2/11/2021	0.001 (J)					
2/12/2021			0.045			
2/16/2021		0.0028 (J)		0.0038 (J)	0.0078 (J)	
3/12/2021					0.009 (J)	
3/15/2021	0.0011 (J)					0.013 (J)
3/16/2021			0.049			
3/17/2021		0.0027 (J)		0.004 (J)		
8/17/2021	0.00091 (J)			0.0036 (J)	0.0079 (J)	
8/18/2021						0.0086 (J)
8/19/2021		0.0027 (J)	0.046			
2/9/2022			0.048	0.0039 (J)		
2/10/2022	0.00099 (J)	0.0029 (J)			0.0086 (J)	0.014 (J)
Mean	0.003912	0.00274	0.0482	0.00629	0.00753	0.01008
Std. Dev.	0.005849	0.0001713	0.002658	0.008336	0.001565	0.003872
Upper Lim.	0.015	0.002893	0.05057	0.0041	0.008926	0.01353
Lower Lim.	0.00091	0.002587	0.04583	0.0033	0.006134	0.006626

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-29
3/12/2019	0.0024 (J)
4/2/2019	0.0021 (J)
9/24/2019	0.0022 (J)
3/2/2020	0.0025 (J)
3/30/2020	0.0023 (J)
9/16/2020	0.0021 (J)
2/15/2021	0.0024 (J)
3/15/2021	0.0022 (J)
8/16/2021	0.0021 (J)
2/10/2022	0.0023 (J)
Mean	0.00226
Std. Dev.	0.000143
Upper Lim.	0.002388
Lower Lim.	0.002132

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-13	HGWC-9
5/23/2016	<0.0002	<0.0002	<0.0002	<0.0002
7/12/2016	<0.0002	<0.0002	<0.0002	<0.0002
9/1/2016	<0.0002	<0.0002	<0.0002	<0.0002
10/20/2016				<0.0002
10/24/2016	<0.0002	<0.0002	<0.0002	
12/6/2016				<0.0002
12/7/2016	<0.0002	<0.0002	<0.0002	
1/26/2017	5E-05 (J)	5E-05 (J)	4E-05 (J)	4E-05 (J)
3/22/2017	<0.0002	<0.0002	<0.0002	<0.0002
5/23/2017				<0.0002
5/24/2017	<0.0002	<0.0002	5E-05 (J)	
4/3/2018				<0.0002
4/4/2018	<0.0002	<0.0002	<0.0002	
3/13/2019	<0.0002	<0.0002	<0.0002	<0.0002
3/3/2020	<0.0002	<0.0002		
3/4/2020			<0.0002	<0.0002
2/12/2021		<0.0002		
2/15/2021	<0.0002			
2/16/2021				<0.0002
2/22/2021			<0.0002	
2/9/2022	<0.0002	<0.0002		<0.0002
2/10/2022			<0.0002	
Mean	0.0001885	0.0001885	0.0001762	0.0001877
Std. Dev.	4.16E-05	4.16E-05	5.824E-05	4.438E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5E-05	5E-05	5E-05	4E-05

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					0.028	0.446
5/23/2016	<0.01	0.0164	0.0413 (J)	0.027		
7/12/2016	0.0013 (J)	0.0251	0.0484	0.0316	0.0273	0.455
9/1/2016	<0.01	0.0259	0.0474	0.0336	0.0274	0.481
10/20/2016					0.036	0.472
10/24/2016	<0.01	0.0293	0.047	0.0352		
12/6/2016					0.0365	0.52
12/7/2016	<0.01	0.0209	0.0432	0.0383		
1/25/2017					0.0317	0.478
1/26/2017	<0.01	0.0277	0.0484	0.041		
3/21/2017					0.0346	0.547
3/22/2017	0.0013 (J)	0.011	0.0494	0.0426		
5/23/2017					0.0336	0.482
5/24/2017	0.0014 (J)	0.0373	0.047	0.04		
4/3/2018					0.032	0.44
4/4/2018	<0.01	0.013	0.052	0.027		
6/5/2018	<0.01	0.029		0.027	0.036	
6/6/2018			0.054			0.49
10/2/2018	<0.01				0.039	0.47
10/3/2018		0.02	0.054			
10/5/2018				0.033		
3/12/2019						0.5
3/13/2019	<0.01	0.012		0.033	0.04	
3/14/2019			0.046			
4/2/2019					0.041	
4/3/2019	0.0021 (J)	0.01	0.049			0.5
4/5/2019				0.03		
9/24/2019						0.54
9/25/2019					0.047	
9/26/2019				0.026		
9/27/2019	0.0014 (J)	0.016	0.052			
3/3/2020	<0.01	0.011	0.045			0.44
3/4/2020				0.03	0.045	
3/26/2020			0.045			
3/27/2020					0.044	0.42
3/30/2020				0.029		
3/31/2020		0.0074 (J)				
4/1/2020	<0.01					
6/16/2020						0.45
6/17/2020					0.048	
9/16/2020	0.0014 (J)				0.046	0.43
9/18/2020		0.032	0.046			
9/21/2020				0.032		
2/10/2021					0.051	
2/12/2021		0.023	0.048			
2/15/2021	<0.01					
2/16/2021						0.46
2/22/2021				0.036		
3/12/2021	0.0007 (J)					
3/15/2021					0.047	0.41
3/16/2021		0.015	0.044			
3/17/2021				0.035		

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/16/2021					0.045	
8/17/2021	0.0012 (J)					
8/18/2021		0.038	0.045			0.48
8/19/2021				0.032		
2/9/2022	<0.01	0.03	0.042			
2/10/2022				0.033	0.045	0.34
Mean	0.00361	0.02143	0.04734	0.03297	0.03914	0.466
Std. Dev.	0.00183	0.009245	0.003573	0.004724	0.007261	0.04541
Upper Lim.	0.005	0.02653	0.04931	0.03557	0.04304	0.4903
Lower Lim.	0.0014	0.01633	0.04537	0.03036	0.03524	0.4416



# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-24D	MW-25D	MW-26D	MW-27D
5/23/2016	0.0187					
7/12/2016	0.0229					
9/1/2016	0.0239					
10/20/2016	0.477					
12/6/2016	0.0236					
1/26/2017	0.0234					
3/22/2017	0.0219					
5/23/2017	0.0242					
4/3/2018	0.025					
6/6/2018	0.027					
10/2/2018	0.028					
3/13/2019	0.028		<0.01		<0.01	<0.01
3/14/2019		0.057		0.0022 (J)		
4/3/2019	0.03	0.04		<0.01	0.0083 (J)	
4/4/2019						0.0018 (J)
4/8/2019			0.00027 (J)			
9/26/2019			<0.01		0.017	0.0042 (J)
9/27/2019	0.033	0.063		<0.01		
11/25/2019					0.02	
3/3/2020				<0.01		
3/4/2020	0.031	0.032	<0.01		0.0074 (J)	0.0058 (J)
3/26/2020		0.033		<0.01		
3/30/2020			<0.01			
3/31/2020	0.031				0.0093 (J)	
4/2/2020						0.003 (J)
9/17/2020	0.03				0.014	
9/18/2020				0.00094 (J)		0.0018 (J)
9/21/2020		0.064	0.00099 (J)			
2/12/2021		0.046		<0.01		
2/16/2021	0.035		0.00096 (J)		0.022	0.0019 (J)
3/12/2021						0.0008 (J)
3/16/2021	0.035			<0.01		
3/17/2021		0.043	0.001 (J)		0.023	
8/17/2021	0.035				0.024	0.0016 (J)
8/18/2021		0.032				
8/19/2021			0.00087 (J)	<0.01		
2/9/2022	0.034	0.011		<0.01	0.028	
2/10/2022			0.0008 (J)			0.0017 (J)
Mean	0.04941	0.0421	0.002489	0.004314	0.01618	0.00276
Std. Dev.	0.09809	0.01637	0.002171	0.001476	0.007828	0.001676
Upper Lim.	0.034	0.05671	0.005	0.005	0.0227	0.004255
Lower Lim.	0.0236	0.02749	0.0008	0.0022	0.009659	0.001265

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-6	MW-7
3/12/2019	0.013	0.0038 (J)		
3/13/2019			0.0021 (J)	<0.01
4/2/2019	0.028	0.0028 (J)		
4/3/2019			0.0021 (J)	<0.01
9/24/2019		0.0021 (J)		
9/26/2019	0.017		0.0026 (J)	0.0033 (J)
3/2/2020		0.0025 (J)		
3/3/2020			0.0022 (J)	<0.01
3/4/2020	0.009 (J)			
3/27/2020	0.0068 (J)		0.0026 (J)	
3/30/2020		0.0029 (J)		<0.01
9/16/2020		0.0021 (J)		
9/21/2020	0.018		0.0025 (J)	0.0015 (J)
2/10/2021	0.02			
2/15/2021		0.0029 (J)		0.0015 (J)
2/16/2021			0.0025 (J)	
3/15/2021	0.013	0.0031 (J)		0.0015 (J)
3/16/2021			0.0023 (J)	
8/16/2021		0.0027 (J)		
8/17/2021			0.0027 (J)	0.003 (J)
8/18/2021	0.022			
2/8/2022				0.0012 (J)
2/9/2022			0.0026 (J)	
2/10/2022	0.0031 (J)	0.0036 (J)		
Mean	0.01499	0.00285	0.00242	0.0032
Std. Dev.	0.007519	0.0005583	0.0002251	0.001689
Upper Lim.	0.0217	0.003348	0.002621	0.005
Lower Lim.	0.008281	0.002352	0.002219	0.0015

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-8	HGWC-9
5/20/2016					<0.005	
5/23/2016	<0.005	0.0106	<0.005	<0.005		<0.005
7/12/2016	<0.005	0.0057 (J)	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	0.0057 (J)	<0.005	<0.005	<0.005	<0.005
10/20/2016					<0.005	<0.005
10/24/2016	<0.005	0.0021 (J)	<0.005	<0.005		
12/6/2016					0.0024 (J)	0.0037 (J)
12/7/2016	<0.005	0.0015 (J)	0.0011 (J)	<0.005		
1/25/2017					<0.005	
1/26/2017	0.0041 (J)	0.0062 (J)	<0.005	<0.005		<0.005
3/21/2017					<0.005	
3/22/2017	<0.005	0.0263	<0.005	<0.005		<0.005
5/23/2017					<0.005	<0.005
5/24/2017	<0.005	0.0038 (J)	<0.005	<0.005		
4/3/2018					<0.005	<0.005
4/4/2018	<0.005	0.021	<0.005	<0.005		
6/5/2018	<0.005	0.0062 (J)		<0.005		
6/6/2018			<0.005		<0.005	<0.005
10/2/2018	0.0023 (J)				<0.005	<0.005
10/3/2018		0.009 (J)	<0.005			
10/5/2018				<0.005		
3/12/2019					<0.005	
3/13/2019	0.0015 (J)	0.023		<0.005		<0.005
3/14/2019			<0.005			
4/3/2019	<0.005	0.016	<0.005		<0.005	<0.005
4/5/2019				0.00018 (J)		
9/24/2019					<0.005	
9/26/2019				<0.005		
9/27/2019	<0.005	0.013	<0.005			<0.005
3/3/2020	<0.005	0.016	<0.005		<0.005	
3/4/2020				<0.005		<0.005
3/26/2020			<0.005			
3/27/2020					<0.005	
3/30/2020				<0.005		
3/31/2020		0.019				<0.005
4/1/2020	0.002 (J)					
9/16/2020	<0.005				<0.005	
9/17/2020						<0.005
9/18/2020		0.0042 (J)	<0.005			
9/21/2020				0.0016 (J)		
2/12/2021		0.0079 (J)	<0.005			
2/15/2021	0.0028 (J)					
2/16/2021					<0.005	<0.005
2/22/2021				<0.005		
3/12/2021	<0.005					
3/15/2021					<0.005	
3/16/2021		0.015	<0.005			<0.005
3/17/2021				<0.005		
8/17/2021	<0.005					<0.005
8/18/2021		0.0033 (J)	<0.005		<0.005	
8/19/2021				<0.005		
2/9/2022	0.0031 (J)	0.0035 (J)	<0.005			<0.005

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-8	HGWC-9
2/10/2022				<0.005	<0.005	
Mean	0.004324	0.01043	0.004814	0.004609	0.004876	0.004938
Std. Dev.	0.001187	0.007431	0.000851	0.001256	0.0005674	0.0002837
Upper Lim.	0.005	0.01453	0.005	0.005	0.005	0.005
Lower Lim.	0.0031	0.006329	0.0011	0.0016	0.0024	0.0037

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-27D	MW-5	MW-7
3/13/2019		<0.005	0.0033 (J)	0.0016 (J)
3/14/2019	<0.005			
4/3/2019	0.007 (J)		0.0027 (J)	<0.005
4/4/2019		0.00012 (J)		
9/25/2019			0.0021 (J)	
9/26/2019		<0.005		0.0014 (J)
9/27/2019	0.0013 (J)			
3/2/2020			0.0041 (J)	
3/3/2020				<0.005
3/4/2020	0.0044 (J)	<0.005		
3/26/2020	0.0053 (J)		0.0039 (J)	
3/30/2020				0.0014 (J)
4/2/2020		<0.005		
9/17/2020			0.0028 (J)	
9/18/2020		<0.005		
9/21/2020	0.0033 (J)			0.0026 (J)
2/12/2021	0.0021 (J)			
2/15/2021				<0.005
2/16/2021		<0.005	0.0035 (J)	
3/12/2021		<0.005		
3/15/2021				0.0021 (J)
3/16/2021			0.0026 (J)	
3/17/2021	<0.005			
8/17/2021		<0.005	0.0017 (J)	<0.005
8/18/2021	0.0026 (J)			
2/8/2022				0.0015 (J)
2/9/2022	0.0036 (J)		0.0027 (J)	
2/10/2022		<0.005		
Mean	0.00396	0.004512	0.00294	0.00306
Std. Dev.	0.001711	0.001543	0.0007604	0.001708
Upper Lim.	0.004996	0.005	0.003618	0.005
Lower Lim.	0.002077	0.005	0.002262	0.0014

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-8	MW-19	MW-28D
5/20/2016				<0.001		
5/23/2016	<0.001	<0.001	0.000378 (J)			
7/12/2016	8E-05 (J)	0.0002 (J)	0.0004 (J)	7E-05 (J)		
9/1/2016	<0.001	<0.001	0.0004 (J)	<0.001		
10/20/2016				<0.001		
10/24/2016	<0.001	<0.001	0.0005 (J)			
12/6/2016				<0.001		
12/7/2016	<0.001	<0.001	0.0004 (J)			
1/25/2017				<0.001		
1/26/2017	<0.001	<0.001	0.0004 (J)			
3/21/2017				9E-05 (J)		
3/22/2017	<0.001	0.0001 (J)	0.0004 (J)			
5/23/2017				8E-05 (J)		
5/24/2017	8E-05 (J)	9E-05 (J)	0.0003 (J)			
4/3/2018				<0.001		
4/4/2018	<0.001	<0.001	0.00032 (J)			
6/5/2018	<0.001		0.00035 (J)			
6/6/2018		<0.001		<0.001		
10/2/2018				<0.001		
10/3/2018	<0.001	<0.001				
10/5/2018			0.00025 (J)			
3/12/2019				<0.001		<0.001
3/13/2019	<0.001		0.00039 (J)			
3/14/2019		<0.001			<0.001	
4/2/2019						<0.001
4/3/2019	<0.001	<0.001		<0.001	<0.001	
4/5/2019			0.00034 (J)			
9/24/2019				0.00011 (J)		
9/26/2019			0.00039 (J)			<0.001
9/27/2019	<0.001	8.8E-05 (J)			0.00027 (J)	
3/3/2020	<0.001	6.6E-05 (J)		6.1E-05 (J)		
3/4/2020			0.00056 (J)		0.00026 (J)	9.2E-05 (J)
3/26/2020		8E-05 (J)			0.00026 (J)	
3/27/2020				7.7E-05 (J)		<0.001
3/30/2020			0.00048 (J)			
3/31/2020	<0.001					
9/16/2020				<0.001		
9/18/2020	<0.001	<0.001				
9/21/2020			0.00036 (J)		0.0003 (J)	<0.001
2/10/2021						<0.001
2/12/2021	<0.001	<0.001			0.00019 (J)	
2/16/2021				<0.001		
2/22/2021			0.0003 (J)			
3/15/2021				<0.001		<0.001
3/16/2021	<0.001	<0.001				
3/17/2021			0.00037 (J)		0.00026 (J)	
8/18/2021	<0.001	<0.001		<0.001	0.00023 (J)	<0.001
8/19/2021			0.0002 (J)			
2/9/2022	<0.001	<0.001			<0.001	
2/10/2022			<0.001	<0.001		<0.001
Mean	0.0009124	0.000744	0.0004042	0.0007375	0.000477	0.0009092
Std. Dev.	0.0002767	0.0004155	0.0001581	0.0004253	0.000362	0.0002871

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-12	HGWC-13	HGWC-8	MW-19	MW-28D
Upper Lim.	0.001	0.001	0.0004561	0.001	0.001	0.001
Lower Lim.	8E-05	0.0001	0.0003223	9E-05	0.00023	0.001

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-29	MW-6
3/12/2019	<0.001	
3/13/2019		<0.001
4/2/2019	<0.001	
4/3/2019		<0.001
9/24/2019	6.4E-05 (J)	
9/26/2019		<0.001
3/2/2020	<0.001	
3/3/2020		8.2E-05 (J)
3/27/2020		<0.001
3/30/2020	<0.001	
9/16/2020	<0.001	
9/21/2020		<0.001
2/15/2021	<0.001	
2/16/2021		<0.001
3/15/2021	<0.001	
3/16/2021		<0.001
8/16/2021	<0.001	
8/17/2021		<0.001
2/9/2022		<0.001
2/10/2022	<0.001	
Mean	0.0009064	0.0009082
Std. Dev.	0.000296	0.0002903
Upper Lim.	0.001	0.001
Lower Lim.	0.001	0.001



FIGURE I.

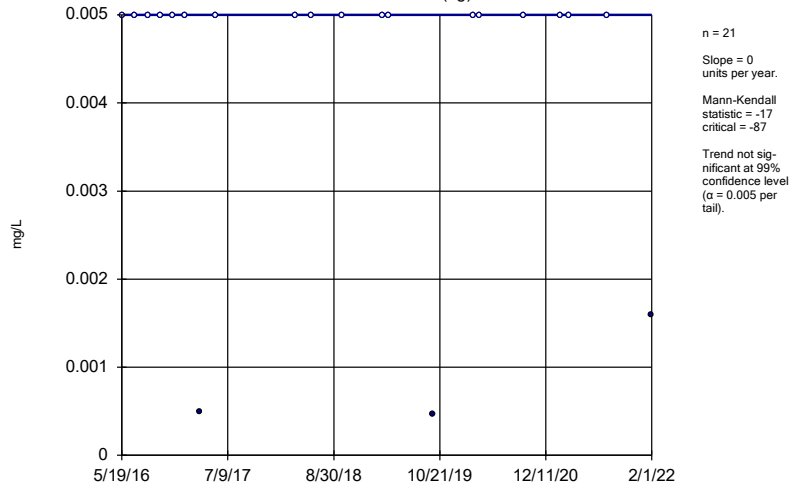
# Appendix IV Trend Tests - All Results (No Significant)

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:20 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	HGWA-1 (bg)	0	-17	-87	No	21	85.71	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-2 (bg)	0	16	87	No	21	57.14	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-3 (bg)	0	4	87	No	21	57.14	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-43D (bg)	-0.001127	-7	-21	No	8	25	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-44D (bg)	0	-7	-21	No	8	75	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWC-13	0.0144	58	87	No	21	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-1 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-2 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-3 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-43D (bg)	-0.0008179	-9	-21	No	8	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-44D (bg)	0.002925	19	21	No	8	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWC-8	-0.00841	-55	-92	No	22	0	n/a	n/a	0.01	NP

### Sen's Slope Estimator

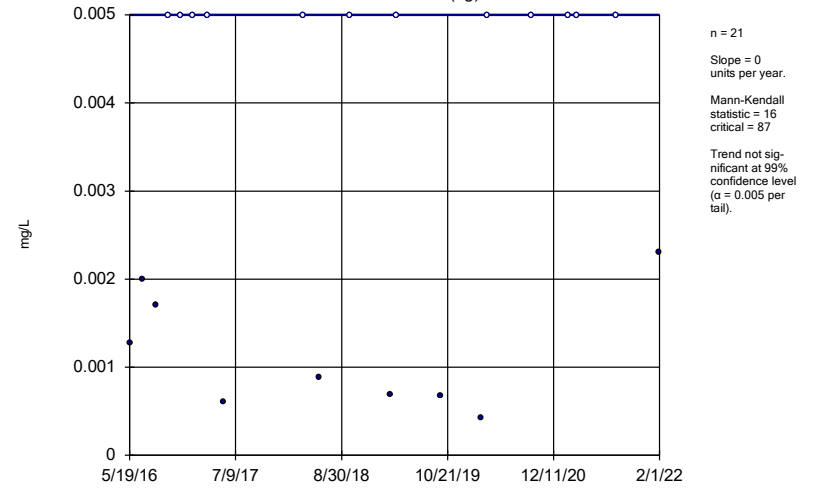
HGWA-1 (bg)



Constituent: Arsenic Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

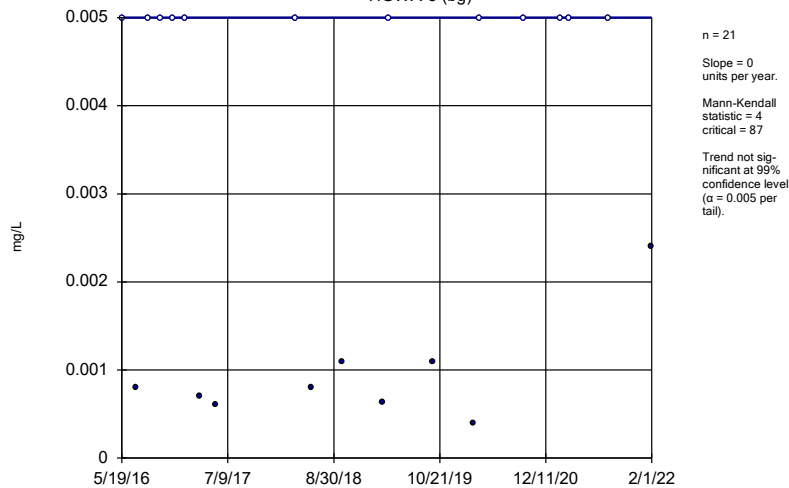
HGWA-2 (bg)



Constituent: Arsenic Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

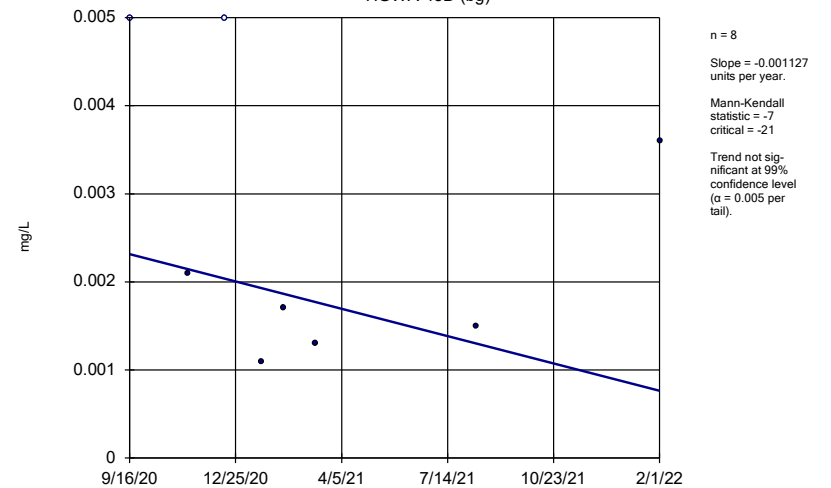
HGWA-3 (bg)



Constituent: Arsenic Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

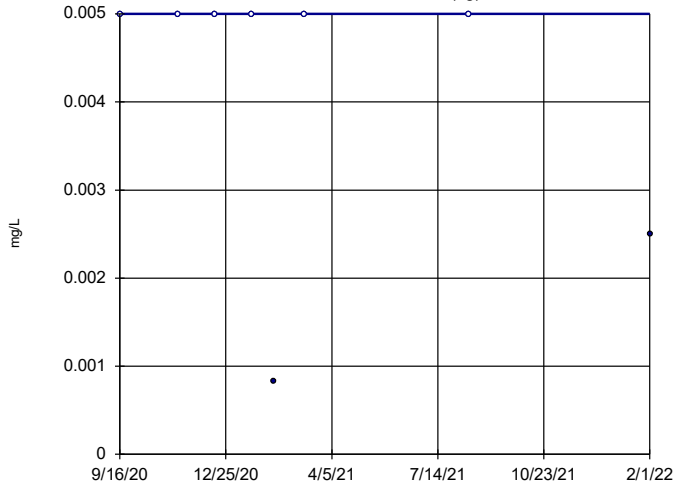
HGWA-43D (bg)



Constituent: Arsenic Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-44D (bg)

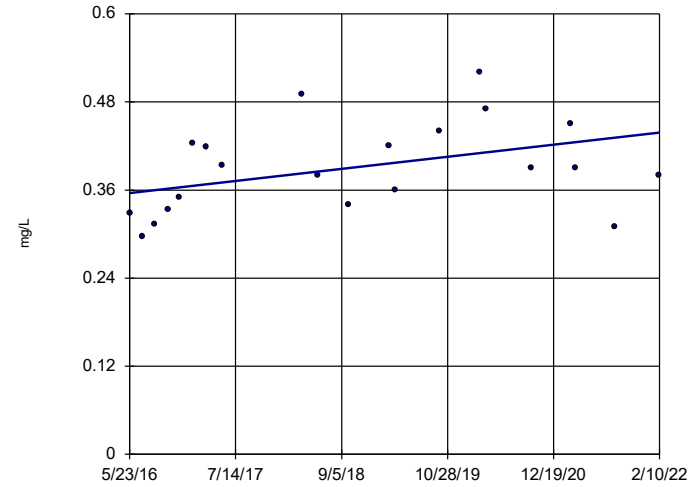


n = 8  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -7  
 critical = -21  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Arsenic Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-13

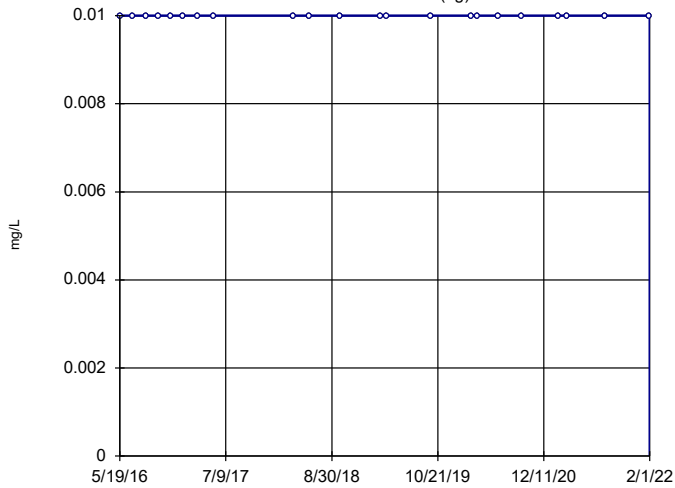


n = 21  
 Slope = 0.0144  
 units per year.  
 Mann-Kendall  
 statistic = 58  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Arsenic Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-1 (bg)

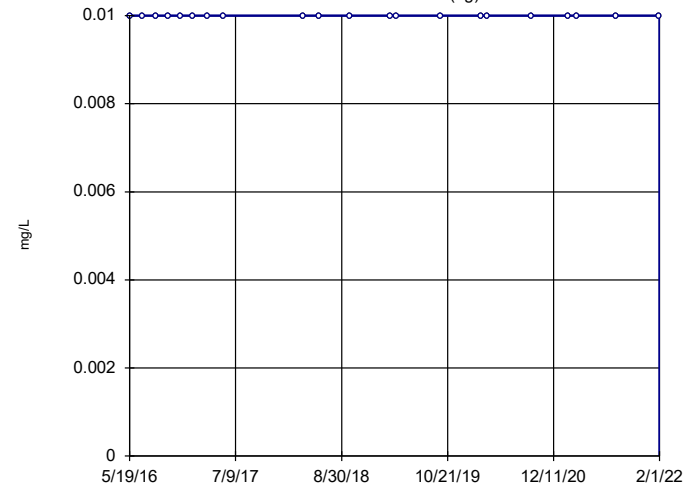


n = 22  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 0  
 critical = 92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Molybdenum Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-2 (bg)

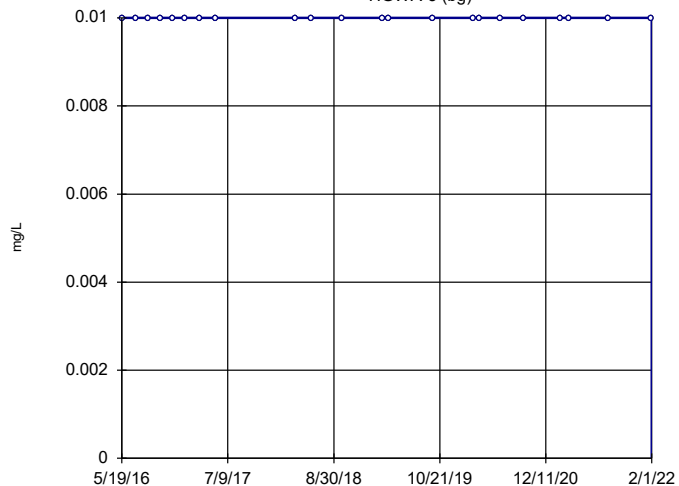


n = 21  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 0  
 critical = 87  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Molybdenum Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-3 (bg)

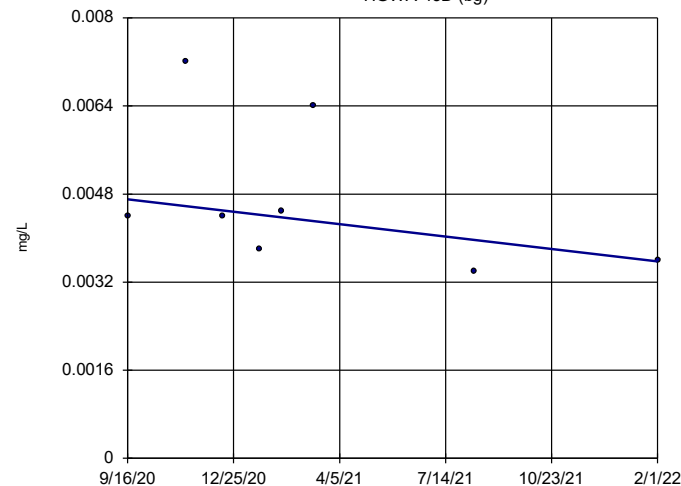


n = 22  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 0  
 critical = 92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Molybdenum Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-43D (bg)

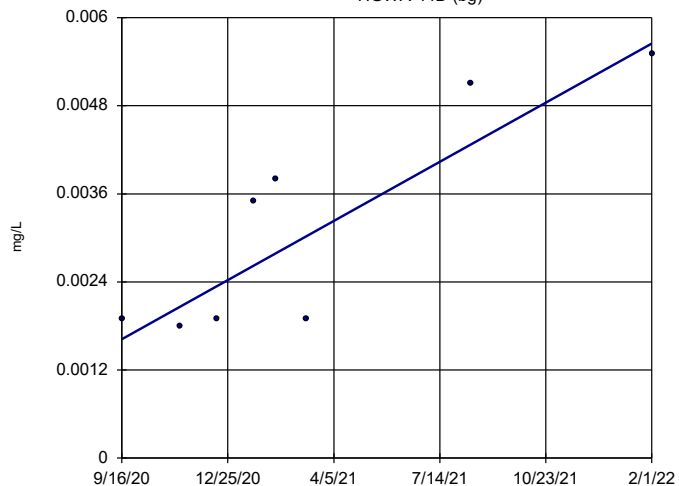


n = 8  
 Slope = -0.0008179  
 units per year.  
 Mann-Kendall  
 statistic = -9  
 critical = -21  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Molybdenum Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-44D (bg)

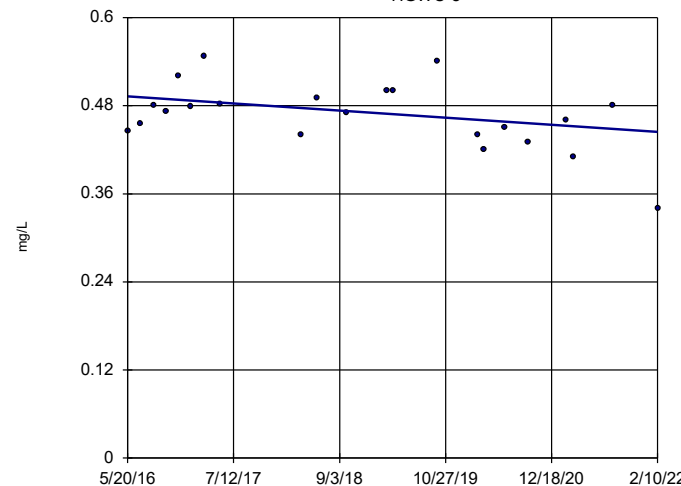


n = 8  
 Slope = 0.002925  
 units per year.  
 Mann-Kendall  
 statistic = 19  
 critical = 21  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Molybdenum Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-8



n = 22  
 Slope = -0.00841  
 units per year.  
 Mann-Kendall  
 statistic = -55  
 critical = -92  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

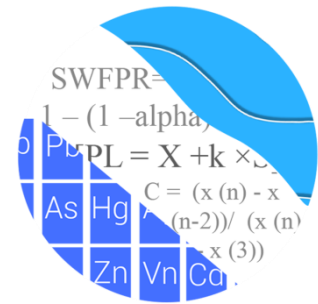
Constituent: Molybdenum Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

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 1 (AP-1)  
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-1. 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 background samples have been collected at each of the upgradient and downgradient groundwater monitoring wells. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** HGWA-1, HGWA-2, HGWA-3, HGWA-43D, and HGWA-44D
- **Downgradient wells:** HGWC-7, HGWC-8, HGWC-9, HGWC-10, HGWC-11, HGWC-12, and HGWC-13
- **Assessment wells:** MW-5, MW-6, MW-7, MW-19, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, and MW-29

Sampling at upgradient wells HGWA-43D and HGWA-44D began in September 2020 and a maximum of eight samples have been collected. Additionally, the February 2021 sample

event was a Scan event for all wells during which only Appendix IV constituents were sampled.

Data from assessment wells, which were first sampled in March 2019, are included on time series and box plots for all parameters. When a minimum of 4 samples is available, data at these wells are evaluated using confidence intervals for the Appendix IV constituents. For the assessment wells, sampling began in March 2019. Wells MW-30D and MW-40D were included as assessment wells during previous reporting periods, but each was reclassified as a "piezometer" based on the findings presented in the alternate source demonstration included as an appendix of the 2020 Annual Groundwater Monitoring & Corrective Action Report, submitted to Georgia EPD in January 2021. Because of this reclassification, data for wells MW-30D and MW-40D are not presented in this report.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting. The statistical analysis was performed according to the groundwater 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 (2009).

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) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs with 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 cases of lithium and thallium, historical reporting limits vary among the wells. Therefore, the reporting limits of 0.03 mg/L and 0.001 mg/L, respectively, were 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. Values in background which have been flagged as outliers 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 with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

### **Statistical Methods – Appendix III Parameters**

The following Appendix III parameters are evaluated using interwell prediction limits combined with a 1-of-2 resample plan: 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.

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as the original reporting limit.

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. No records were adjusted at this time.

### **Statistical Analysis 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. No new values were flagged as shown in the outlier summary following this report (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). Interwell prediction limits pool 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 initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase (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 and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance.

When the August 2022 compliance data from downgradient wells were compared to interwell prediction limits, several exceedances were identified. A summary table of these findings is provided along with the prediction limits (Figure D).

### 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), HGWC-7, and HGWC-9
- Calcium: HGWA-3 (upgradient)
- Chloride: HGWA-44D (upgradient)
- Sulfate: HGWA-2 (upgradient)

#### Decreasing trends:

- Boron: HGWC-12 and HGWC-13
- Chloride: HGWA-3 (upgradient), HGWC-8, and HGWC-9
- TDS: HGWC-12

### **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 (Maximum Contaminant Limits (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. 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 containing 100% non-detects do not require analyses. Data from all 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

First, interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2022 for Appendix IV constituents (Figure F). As mentioned above, a reporting limit of 0.03 mg/L was substituted across all wells for lithium. Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

#### Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

### Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through August 2022 were constructed for each of 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:

- Arsenic: HGWC-13
- Molybdenum: HGWC-8

### 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. No statistically significant increasing or decreasing trends were identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Hammond AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Tristan Clark  
Groundwater Analyst



Andrew Collins  
Project Manager



Kristina Rayner  
Senior Statistician

# 100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 11/8/2022 4:22 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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**Antimony (mg/L)**

HGWC-12, MW-19, MW-20, MW-25D, MW-5

**Arsenic (mg/L)**

HGWC-10, MW-24D, MW-7

**Beryllium (mg/L)**

HGWC-10, HGWC-12, HGWC-9, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-29, MW-5, MW-6

**Cadmium (mg/L)**

HGWC-13, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, MW-29, MW-5, MW-6, MW-7

**Cobalt (mg/L)**

MW-25D, MW-5, MW-7

**Lead (mg/L)**

MW-25D

**Lithium (mg/L)**

HGWC-10, HGWC-11, MW-5, MW-6, MW-7

**Mercury (mg/L)**

HGWC-12, HGWC-7, HGWC-8, MW-19, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, MW-29, MW-5, MW-6, MW-7

**Molybdenum (mg/L)**

MW-20, MW-5

**Selenium (mg/L)**

HGWC-7, MW-20, MW-24D, MW-25D, MW-26D, MW-28D, MW-29, MW-6

**Thallium (mg/L)**

HGWC-10, HGWC-7, HGWC-9, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-5, MW-7

# Appendix III Interwell Prediction Limit - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 12:15 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-10	0.44	n/a	8/3/2022	0.53	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-11	0.44	n/a	8/3/2022	0.64	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.44	n/a	8/3/2022	1.5	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	8/3/2022	0.76	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-7	0.44	n/a	8/11/2022	1.1	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.44	n/a	8/3/2022	1.5	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	8/4/2022	2	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	8/3/2022	167	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	8/3/2022	237	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	8/3/2022	153	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	8/4/2022	196	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	8/3/2022	54.1	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	8/4/2022	86.8	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-10	88.2	n/a	8/3/2022	119	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	88.2	n/a	8/3/2022	254	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	88.2	n/a	8/3/2022	236	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	88.2	n/a	8/3/2022	451	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	88.2	n/a	8/11/2022	121	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	88.2	n/a	8/3/2022	241	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	88.2	n/a	8/4/2022	243	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-12	632	n/a	8/3/2022	650	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-13	632	n/a	8/3/2022	958	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-8	632	n/a	8/3/2022	648	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-9	632	n/a	8/4/2022	760	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2



# Appendix III Interwell Prediction Limit - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 12:15 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-10	0.44	n/a	8/3/2022	0.53	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-11	0.44	n/a	8/3/2022	0.64	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.44	n/a	8/3/2022	1.5	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	8/3/2022	0.76	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-7	0.44	n/a	8/11/2022	1.1	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.44	n/a	8/3/2022	1.5	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	8/4/2022	2	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-10	138	n/a	8/3/2022	125	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	8/3/2022	131	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	8/3/2022	167	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	8/3/2022	237	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-7	138	n/a	8/11/2022	119	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	8/3/2022	153	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	8/4/2022	196	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-10	44.8	n/a	8/3/2022	12.3	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-11	44.8	n/a	8/3/2022	13.8	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-12	44.8	n/a	8/3/2022	39.2	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-13	44.8	n/a	8/3/2022	13	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-7	44.8	n/a	8/11/2022	37.7	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	8/3/2022	54.1	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	8/4/2022	86.8	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-10	0.96	n/a	8/3/2022	0.13	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-11	0.96	n/a	8/3/2022	0.22	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-12	0.96	n/a	8/3/2022	0.21	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-13	0.96	n/a	8/3/2022	0.55	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-7	0.96	n/a	8/11/2022	0.11	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-8	0.96	n/a	8/3/2022	0.44	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-9	0.96	n/a	8/4/2022	0.13	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-10	8.25	4.57	8/3/2022	6.73	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-11	8.25	4.57	8/3/2022	6.23	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-12	8.25	4.57	8/3/2022	7.13	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-13	8.25	4.57	8/3/2022	7.09	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-7	8.25	4.57	8/11/2022	7.07	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-8	8.25	4.57	8/3/2022	6.84	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-9	8.25	4.57	8/4/2022	7.03	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-10	88.2	n/a	8/3/2022	119	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	88.2	n/a	8/3/2022	254	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	88.2	n/a	8/3/2022	236	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	88.2	n/a	8/3/2022	451	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	88.2	n/a	8/11/2022	121	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	88.2	n/a	8/3/2022	241	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	88.2	n/a	8/4/2022	243	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-10	632	n/a	8/3/2022	433	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-11	632	n/a	8/3/2022	572	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-12	632	n/a	8/3/2022	650	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-13	632	n/a	8/3/2022	958	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-7	632	n/a	8/11/2022	445	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-8	632	n/a	8/3/2022	648	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-9	632	n/a	8/4/2022	760	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2

# Appendix III Trend Test - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 12:22 PM

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-12	-0.1758	-79	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-13	-0.2708	-106	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-7	0.04806	121	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.07977	75	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.436	99	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.126	-84	-81	Yes	20	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)	HGWC-8	-9.592	-99	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-9	-12.93	-119	-74	Yes	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
Total Dissolved Solids (mg/L)	HGWC-12	-63.04	-95	-74	Yes	19	0	n/a	n/a	0.01	NP

# Appendix III Trend Test - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 11/8/2022, 12:22 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	-0.0004303	-27	-81	No	20	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>HGWA-2 (bg)</b>	<b>0.002545</b>	<b>111</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	HGWA-3 (bg)	0.0003378	22	81	No	20	20	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)	HGWC-10	-0.02345	-11	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-11	-0.1599	-59	-74	No	19	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>HGWC-12</b>	<b>-0.1758</b>	<b>-79</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>HGWC-13</b>	<b>-0.2708</b>	<b>-106</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>HGWC-7</b>	<b>0.04806</b>	<b>121</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	HGWC-8	0.005773	2	81	No	20	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>HGWC-9</b>	<b>0.07977</b>	<b>75</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	HGWA-1 (bg)	2.653	61	81	No	20	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
<b>Calcium (mg/L)</b>	<b>HGWA-3 (bg)</b>	<b>2.436</b>	<b>99</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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)	HGWC-12	-4.576	-48	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-13	16.77	50	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-8	-0.4257	-7	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-9	1.692	52	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.716	61	81	No	20	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
<b>Chloride (mg/L)</b>	<b>HGWA-3 (bg)</b>	<b>-0.126</b>	<b>-84</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	HGWA-43D (bg)	-0.02897	-3	-21	No	8	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>HGWA-44D (bg)</b>	<b>11.55</b>	<b>24</b>	<b>21</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>HGWC-8</b>	<b>-9.592</b>	<b>-99</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>HGWC-9</b>	<b>-12.93</b>	<b>-119</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	HGWA-1 (bg)	1.779	35	81	No	20	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>HGWA-2 (bg)</b>	<b>1.619</b>	<b>101</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	HGWA-3 (bg)	0.673	52	81	No	20	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)	HGWC-10	-9.032	-70	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-11	-4.895	-19	-74	No	19	5.263	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-12	-11.49	-59	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-13	39.75	43	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-7	0	5	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-8	-1.483	-13	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-9	-3.088	-38	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	3.538	14	81	No	20	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
Total Dissolved Solids (mg/L)	HGWA-3 (bg)	1.162	17	81	No	20	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
<b>Total Dissolved Solids (mg/L)</b>	<b>HGWC-12</b>	<b>-63.04</b>	<b>-95</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids (mg/L)	HGWC-13	42.19	39	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-8	-27.5	-58	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-9	-36.19	-47	-74	No	19	0	n/a	n/a	0.01	NP

# Upper Tolerance Limits Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 12:27 PM

Constituent	Well	Upper 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	78	n/a	n/a	79.49	n/a	n/a	0.0183	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	84	n/a	n/a	65.48	n/a	n/a	0.01345	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	84	n/a	n/a	0	n/a	n/a	0.01345	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	78	n/a	n/a	78.21	n/a	n/a	0.0183	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	78	n/a	n/a	85.9	n/a	n/a	0.0183	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0079	n/a	n/a	n/a	78	n/a	n/a	82.05	n/a	n/a	0.0183	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	78	n/a	n/a	71.79	n/a	n/a	0.0183	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.36	n/a	n/a	n/a	84	n/a	n/a	0	n/a	n/a	0.01345	NP Inter(normality)
Fluoride (mg/L)	n/a	0.96	n/a	n/a	n/a	89	n/a	n/a	30.34	n/a	n/a	0.01041	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	75	n/a	n/a	66.67	n/a	n/a	0.02134	NP Inter(NDs)
Lithium (mg/L)	n/a	0.048	n/a	n/a	n/a	84	n/a	n/a	20.24	n/a	n/a	0.01345	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	56	n/a	n/a	96.43	n/a	n/a	0.05656	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	86	n/a	n/a	79.07	n/a	n/a	0.01214	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	84	n/a	n/a	97.62	n/a	n/a	0.01345	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	84	n/a	n/a	98.81	n/a	n/a	0.01345	NP Inter(NDs)

<b>PLANT HAMMOND AP-1 GWPS</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
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		0.0079	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		4.36	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 - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 4:25 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	HGWC-13	0.423	0.3588	0.01	Yes	22	0	No	0.01	Param.
Molybdenum (mg/L)	HGWC-8	0.4884	0.4282	0.1	Yes	23	0	No	0.01	Param.

# Confidence Interval - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 11/8/2022, 4:25 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	HGWC-10	0.003	0.0018	0.006	No	20	90	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-11	0.003	0.00038	0.006	No	20	95	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-13	0.003	0.00047	0.006	No	20	65	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-7	0.003	0.0017	0.006	No	20	90	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-8	0.003	0.00064	0.006	No	20	95	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-9	0.003	0.00043	0.006	No	20	85	No	0.01	NP (NDs)
Antimony (mg/L)	MW-24D	0.003	0.003	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	MW-26D	0.003	0.002	0.006	No	11	81.82	No	0.006	NP (NDs)
Antimony (mg/L)	MW-27D	0.003	0.0003	0.006	No	11	45.45	No	0.006	NP (normality)
Antimony (mg/L)	MW-28D	0.003	0.003	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	MW-29	0.003	0.003	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	MW-6	0.003	0.003	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	MW-7	0.003	0.00086	0.006	No	11	63.64	No	0.006	NP (NDs)
Arsenic (mg/L)	HGWC-11	0.005	0.0018	0.01	No	22	45.45	No	0.01	NP (normality)
Arsenic (mg/L)	HGWC-12	0.004485	0.003134	0.01	No	22	9.091	No	0.01	Param.
<b>Arsenic (mg/L)</b>	<b>HGWC-13</b>	<b>0.423</b>	<b>0.3588</b>	<b>0.01</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	HGWC-7	0.005	0.0019	0.01	No	22	95.45	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-8	0.005	0.002	0.01	No	22	95.45	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-9	0.005	0.0021	0.01	No	22	81.82	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-19	0.005	0.005	0.01	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-20	0.005	0.00094	0.01	No	11	72.73	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.001	0.01	No	11	63.64	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-26D	0.005	0.0008	0.01	No	11	72.73	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-27D	0.005	0.00069	0.01	No	11	72.73	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-28D	0.005	0.005	0.01	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-29	0.005	0.005	0.01	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-5	0.005	0.005	0.01	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-6	0.005	0.005	0.01	No	11	90.91	No	0.006	NP (NDs)
Barium (mg/L)	HGWC-10	0.08534	0.06369	2	No	22	0	No	0.01	Param.
Barium (mg/L)	HGWC-11	0.05145	0.0329	2	No	22	0	sqrt(x)	0.01	Param.
Barium (mg/L)	HGWC-12	0.123	0.084	2	No	22	0	No	0.01	NP (normality)
Barium (mg/L)	HGWC-13	0.08872	0.06697	2	No	22	0	No	0.01	Param.
Barium (mg/L)	HGWC-7	0.07442	0.0683	2	No	22	0	No	0.01	Param.
Barium (mg/L)	HGWC-8	0.07435	0.06247	2	No	22	0	No	0.01	Param.
Barium (mg/L)	HGWC-9	0.1196	0.1039	2	No	22	0	No	0.01	Param.
Barium (mg/L)	MW-19	0.06311	0.04725	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-20	0.0954	0.08515	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-24D	0.081	0.048	2	No	11	0	No	0.006	NP (normality)
Barium (mg/L)	MW-25D	0.585	0.4005	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-26D	0.1258	0.07508	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-27D	1.2	0.95	2	No	11	0	No	0.006	NP (normality)
Barium (mg/L)	MW-28D	0.7166	0.3071	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-29	0.08416	0.07548	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-5	0.05236	0.044	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-6	0.09128	0.08017	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-7	0.06273	0.04999	2	No	11	0	No	0.01	Param.
Beryllium (mg/L)	HGWC-11	0.0005	0.00012	0.004	No	20	65	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-13	0.0005	0.000097	0.004	No	20	60	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-7	0.0005	0.00019	0.004	No	20	85	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-8	0.0005	0.000078	0.004	No	20	65	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-19	0.0005	0.0005	0.004	No	11	90.91	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-28D	0.0005	0.000054	0.004	No	11	72.73	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-7	0.0005	0.0005	0.004	No	11	90.91	No	0.006	NP (NDs)
Cadmium (mg/L)	HGWC-10	0.0005	0.000115	0.005	No	20	65	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-11	0.0005	0.0001	0.005	No	20	85	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-12	0.0005	0.0003	0.005	No	20	80	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-7	0.0005	0.0002	0.005	No	20	80	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-8	0.0003	0.00017	0.005	No	20	5	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-9	0.0005	0.0002	0.005	No	20	85	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-19	0.0003602	0.0001462	0.005	No	11	18.18	ln(x)	0.01	Param.
Chromium (mg/L)	HGWC-10	0.02	0.0011	0.1	No	20	90	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-11	0.005	0.00061	0.1	No	20	90	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-12	0.005	0.0025	0.1	No	20	85	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-13	0.005	0.00059	0.1	No	20	85	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-7	0.005	0.0021	0.1	No	20	70	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-8	0.005	0.0015	0.1	No	20	80	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-9	0.005	0.0011	0.1	No	20	85	No	0.01	NP (NDs)
Chromium (mg/L)	MW-19	0.005	0.00059	0.1	No	11	54.55	No	0.006	NP (NDs)

# Confidence Interval - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 4:25 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Chromium (mg/L)	MW-20	0.005	0.00068	0.1	No	11	72.73	No	0.006	NP (NDs)
Chromium (mg/L)	MW-24D	0.005	0.0017	0.1	No	11	81.82	No	0.006	NP (NDs)
Chromium (mg/L)	MW-25D	0.005	0.005	0.1	No	11	90.91	No	0.006	NP (NDs)
Chromium (mg/L)	MW-26D	0.005	0.001	0.1	No	11	54.55	No	0.006	NP (NDs)
Chromium (mg/L)	MW-27D	0.005	0.00082	0.1	No	11	81.82	No	0.006	NP (NDs)
Chromium (mg/L)	MW-28D	0.005	0.00081	0.1	No	11	45.45	No	0.006	NP (normality)
Chromium (mg/L)	MW-29	0.005	0.005	0.1	No	11	90.91	No	0.006	NP (NDs)
Chromium (mg/L)	MW-5	0.004035	0.002129	0.1	No	11	0	No	0.01	Param.
Chromium (mg/L)	MW-6	0.005	0.00059	0.1	No	11	81.82	No	0.006	NP (NDs)
Chromium (mg/L)	MW-7	0.005	0.0015	0.1	No	11	18.18	No	0.006	NP (normality)
Cobalt (mg/L)	HGWC-10	0.005	0.0009	0.038	No	20	70	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-11	0.005	0.00098	0.038	No	20	40	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-12	0.0018	0.0012	0.038	No	20	10	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-13	0.004079	0.002712	0.038	No	20	5	No	0.01	Param.
Cobalt (mg/L)	HGWC-7	0.001734	0.0006874	0.038	No	20	15	ln(x)	0.01	Param.
Cobalt (mg/L)	HGWC-8	0.0023	0.0019	0.038	No	20	5	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-9	0.0007	0.00051	0.038	No	20	10	No	0.01	NP (normality)
Cobalt (mg/L)	MW-19	0.04247	0.03117	0.038	No	11	0	No	0.01	Param.
Cobalt (mg/L)	MW-20	0.005	0.005	0.038	No	11	90.91	No	0.006	NP (NDs)
Cobalt (mg/L)	MW-24D	0.005	0.00056	0.038	No	11	72.73	No	0.006	NP (NDs)
Cobalt (mg/L)	MW-26D	0.005	0.00044	0.038	No	11	36.36	No	0.006	NP (normality)
Cobalt (mg/L)	MW-27D	0.005	0.0004	0.038	No	11	72.73	No	0.006	NP (NDs)
Cobalt (mg/L)	MW-28D	0.005	0.005	0.038	No	11	90.91	No	0.006	NP (NDs)
Cobalt (mg/L)	MW-29	0.001272	0.0007404	0.038	No	11	0	No	0.01	Param.
Cobalt (mg/L)	MW-6	0.005	0.00041	0.038	No	11	18.18	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	HGWC-10	1.058	0.5797	5	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-11	1.161	0.6669	5	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-12	1.039	0.5572	5	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-13	0.9918	0.5902	5	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-7	0.8841	0.4153	5	No	22	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-8	0.9716	0.6894	5	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-9	0.9078	0.53	5	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-19	1.006	0.4287	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	1.047	0.3682	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	0.6312	0.1484	5	No	11	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	1.3	0.7837	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26D	0.9854	0.08658	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-27D	1.649	0.7618	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-28D	1.442	0.5821	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-29	0.9568	0.3423	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5	0.9809	0.5136	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	0.872	0.543	5	No	11	0	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-7	1.237	0.5474	5	No	11	0	No	0.01	Param.
Fluoride (mg/L)	HGWC-10	0.1868	0.0772	4	No	23	17.39	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-11	0.4253	0.2575	4	No	23	0	No	0.01	Param.
Fluoride (mg/L)	HGWC-12	0.3731	0.1799	4	No	23	4.348	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-13	0.6974	0.5068	4	No	23	0	No	0.01	Param.
Fluoride (mg/L)	HGWC-7	0.1549	0.08395	4	No	24	8.333	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-8	0.6197	0.4753	4	No	24	0	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-9	0.2355	0.0904	4	No	23	8.696	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-19	0.2861	0.1015	4	No	11	0	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-20	0.072	0.05	4	No	11	81.82	No	0.006	NP (NDs)
Fluoride (mg/L)	MW-24D	0.075	0.05	4	No	11	36.36	No	0.006	NP (normality)
Fluoride (mg/L)	MW-25D	1.7	1.5	4	No	11	0	No	0.006	NP (normality)
Fluoride (mg/L)	MW-26D	0.1083	0.05013	4	No	11	9.091	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-27D	0.28	0.24	4	No	11	0	No	0.006	NP (normality)
Fluoride (mg/L)	MW-28D	0.2441	0.1577	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	MW-29	0.07	0.05	4	No	11	63.64	No	0.006	NP (NDs)
Fluoride (mg/L)	MW-5	0.08558	0.05579	4	No	11	18.18	No	0.01	Param.
Fluoride (mg/L)	MW-6	0.19	0.05	4	No	11	18.18	No	0.006	NP (normality)
Fluoride (mg/L)	MW-7	0.078	0.05	4	No	11	72.73	No	0.006	NP (NDs)
Lead (mg/L)	HGWC-10	0.001	0.00005	0.015	No	18	94.44	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-11	0.001	0.00021	0.015	No	18	66.67	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-12	0.001	0.000096	0.015	No	18	72.22	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-13	0.001	0.00015	0.015	No	18	66.67	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-7	0.001	0.0001	0.015	No	18	50	No	0.01	NP (normality)
Lead (mg/L)	HGWC-8	0.001	0.0002	0.015	No	18	77.78	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-9	0.001	0.00014	0.015	No	18	55.56	No	0.01	NP (NDs)



# Confidence Interval - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 11/8/2022, 4:25 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	MW-19	0.001	0.000038	0.015	No	9	55.56	No	0.002	NP (NDs)
Lead (mg/L)	MW-20	0.001	0.000039	0.015	No	9	55.56	No	0.002	NP (NDs)
Lead (mg/L)	MW-24D	0.001	0.00004	0.015	No	9	44.44	No	0.002	NP (normality)
Lead (mg/L)	MW-26D	0.001	0.00008	0.015	No	9	77.78	No	0.002	NP (NDs)
Lead (mg/L)	MW-27D	0.001	0.00013	0.015	No	9	77.78	No	0.002	NP (NDs)
Lead (mg/L)	MW-28D	0.001	0.000062	0.015	No	9	44.44	No	0.002	NP (normality)
Lead (mg/L)	MW-29	0.001	0.000052	0.015	No	9	66.67	No	0.002	NP (NDs)
Lead (mg/L)	MW-5	0.001	0.000047	0.015	No	9	88.89	No	0.002	NP (NDs)
Lead (mg/L)	MW-6	0.001	0.000036	0.015	No	9	55.56	No	0.002	NP (NDs)
Lead (mg/L)	MW-7	0.001	0.000062	0.015	No	9	88.89	No	0.002	NP (NDs)
Lithium (mg/L)	HGWC-12	0.01063	0.008181	0.048	No	22	0	No	0.01	Param.
Lithium (mg/L)	HGWC-13	0.03717	0.03058	0.048	No	22	0	No	0.01	Param.
Lithium (mg/L)	HGWC-7	0.003	0.0021	0.048	No	22	4.545	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-8	0.0029	0.0025	0.048	No	22	4.545	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-9	0.0045	0.004	0.048	No	22	4.545	No	0.01	NP (normality)
Lithium (mg/L)	MW-19	0.01323	0.009135	0.048	No	11	0	x^2	0.01	Param.
Lithium (mg/L)	MW-20	0.015	0.00082	0.048	No	11	18.18	No	0.006	NP (normality)
Lithium (mg/L)	MW-24D	0.002869	0.002549	0.048	No	11	0	No	0.01	Param.
Lithium (mg/L)	MW-25D	0.0504	0.04451	0.048	No	11	0	No	0.01	Param.
Lithium (mg/L)	MW-26D	0.0041	0.0033	0.048	No	11	0	No	0.006	NP (normality)
Lithium (mg/L)	MW-27D	0.008693	0.006143	0.048	No	11	0	No	0.01	Param.
Lithium (mg/L)	MW-28D	0.01304	0.006886	0.048	No	11	0	No	0.01	Param.
Lithium (mg/L)	MW-29	0.00238	0.002057	0.048	No	11	0	No	0.01	Param.
Mercury (mg/L)	HGWC-10	0.0002	0.00005	0.002	No	14	92.86	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-11	0.0002	0.00005	0.002	No	14	92.86	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-13	0.0002	0.00005	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-9	0.0002	0.00004	0.002	No	14	92.86	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-10	0.005	0.0013	0.1	No	22	59.09	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-11	0.02657	0.0168	0.1	No	22	0	No	0.01	Param.
Molybdenum (mg/L)	HGWC-12	0.04919	0.04545	0.1	No	22	0	No	0.01	Param.
Molybdenum (mg/L)	HGWC-13	0.03554	0.03057	0.1	No	22	0	No	0.01	Param.
Molybdenum (mg/L)	HGWC-7	0.0431	0.0356	0.1	No	23	0	No	0.01	Param.
<b>Molybdenum (mg/L)</b>	<b>HGWC-8</b>	<b>0.4884</b>	<b>0.4282</b>	<b>0.1</b>	<b>Yes</b>	<b>23</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Molybdenum (mg/L)	HGWC-9	0.034	0.0239	0.1	No	22	0	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-19	0.05479	0.02885	0.1	No	11	0	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.005	0.0008	0.1	No	11	36.36	No	0.006	NP (normality)
Molybdenum (mg/L)	MW-25D	0.005	0.0022	0.1	No	11	81.82	No	0.006	NP (NDs)
Molybdenum (mg/L)	MW-26D	0.02361	0.01073	0.1	No	12	8.333	No	0.01	Param.
Molybdenum (mg/L)	MW-27D	0.003874	0.001413	0.1	No	11	9.091	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MW-28D	0.02066	0.008599	0.1	No	11	0	No	0.01	Param.
Molybdenum (mg/L)	MW-29	0.003332	0.002432	0.1	No	11	0	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.002656	0.002253	0.1	No	11	0	No	0.01	Param.
Molybdenum (mg/L)	MW-7	0.005	0.0014	0.1	No	11	36.36	No	0.006	NP (normality)
Selenium (mg/L)	HGWC-10	0.005	0.0031	0.05	No	22	68.18	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-11	0.01414	0.006284	0.05	No	22	0	No	0.01	Param.
Selenium (mg/L)	HGWC-12	0.005	0.0011	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-13	0.005	0.0016	0.05	No	22	90.91	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-8	0.005	0.0024	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-9	0.005	0.0037	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	MW-19	0.004737	0.002058	0.05	No	11	18.18	No	0.01	Param.
Selenium (mg/L)	MW-27D	0.005	0.005	0.05	No	11	90.91	No	0.006	NP (NDs)
Selenium (mg/L)	MW-5	0.003568	0.002359	0.05	No	11	0	No	0.01	Param.
Selenium (mg/L)	MW-7	0.005	0.0014	0.05	No	11	45.45	No	0.006	NP (normality)
Thallium (mg/L)	HGWC-11	0.001	0.00008	0.002	No	22	90.91	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-12	0.001	0.0002	0.002	No	22	72.73	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-13	0.00048	0.00034	0.002	No	22	9.091	No	0.01	NP (normality)
Thallium (mg/L)	HGWC-8	0.001	0.00011	0.002	No	22	68.18	No	0.01	NP (NDs)
Thallium (mg/L)	MW-19	0.001	0.00023	0.002	No	11	27.27	No	0.006	NP (normality)
Thallium (mg/L)	MW-28D	0.001	0.001	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	MW-29	0.001	0.001	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	MW-6	0.001	0.001	0.002	No	11	90.91	No	0.006	NP (NDs)

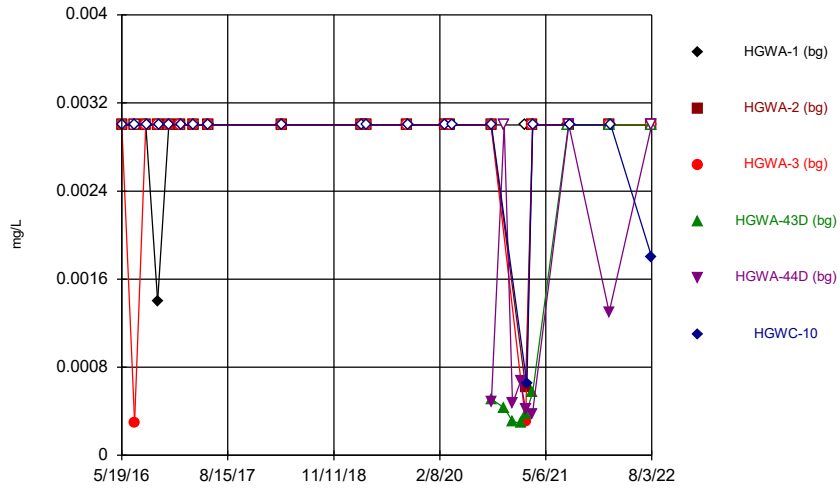
# Appendix IV Trend Test - All Results (No Significant)

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 12:37 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>
Arsenic (mg/L)	HGWA-1 (bg)	0	-14	-92	No	22	86.36	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-2 (bg)	0	25	92	No	22	59.09	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-3 (bg)	0	13	92	No	22	59.09	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-43D (bg)	0	-1	-25	No	9	33.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-44D (bg)	0	-5	-25	No	9	77.78	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWC-13	0.01212	63	92	No	22	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-1 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-2 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-3 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-43D (bg)	-0.0006438	-11	-25	No	9	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-44D (bg)	0.001835	19	25	No	9	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWC-8	-0.01034	-77	-98	No	23	0	n/a	n/a	0.01	NP

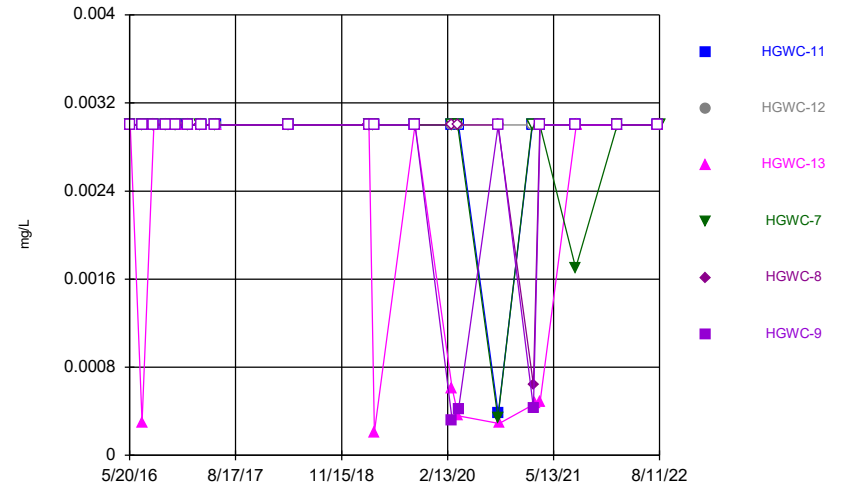
FIGURE A.

Time Series



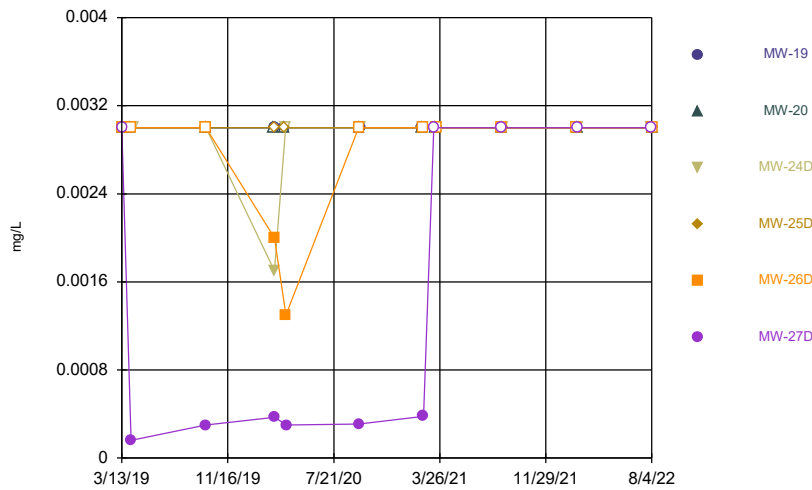
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



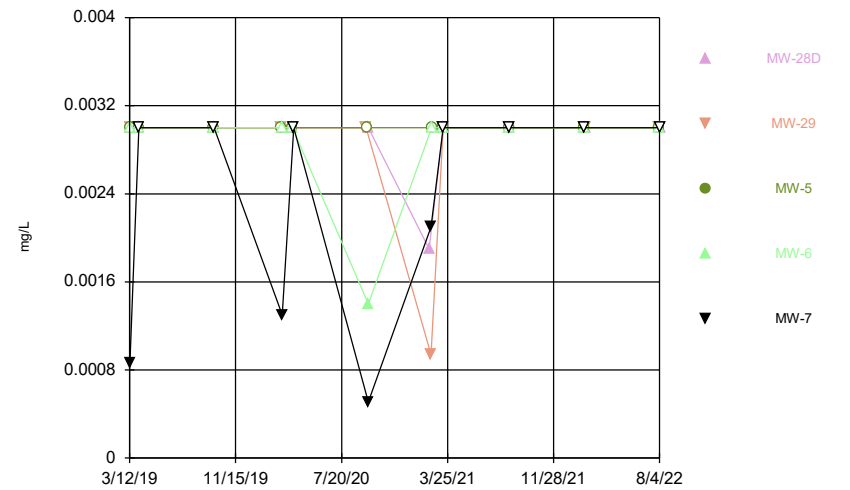
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Time Series



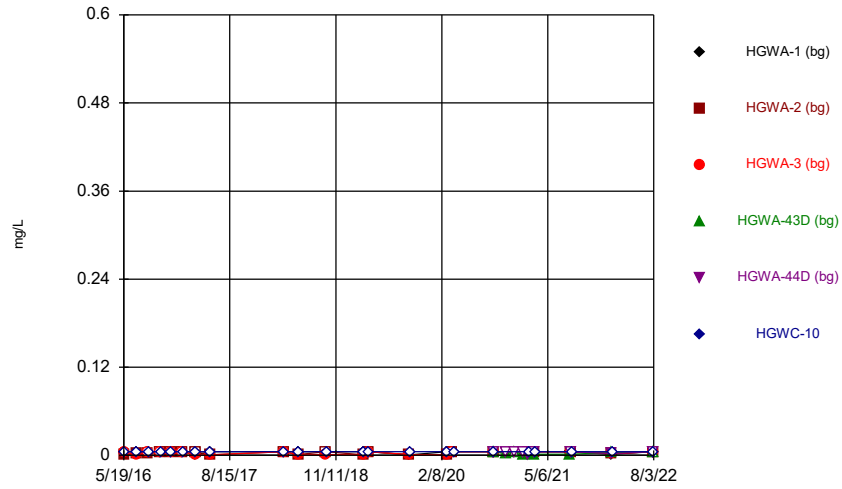
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Time Series



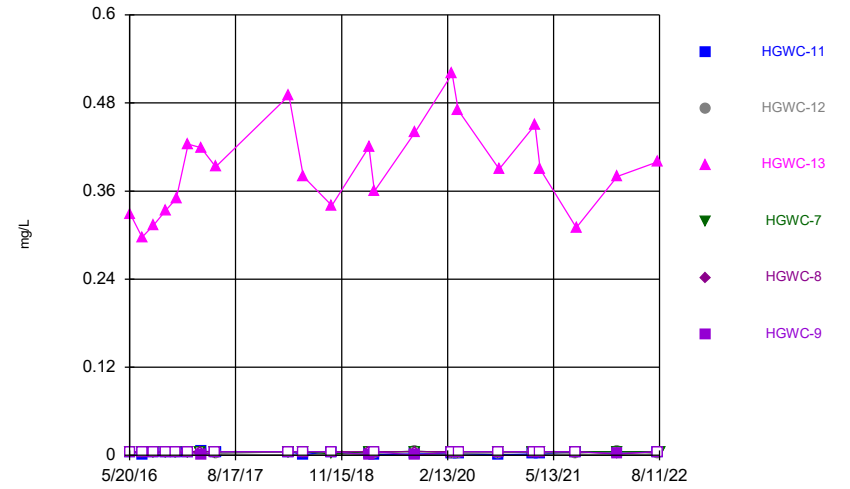
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



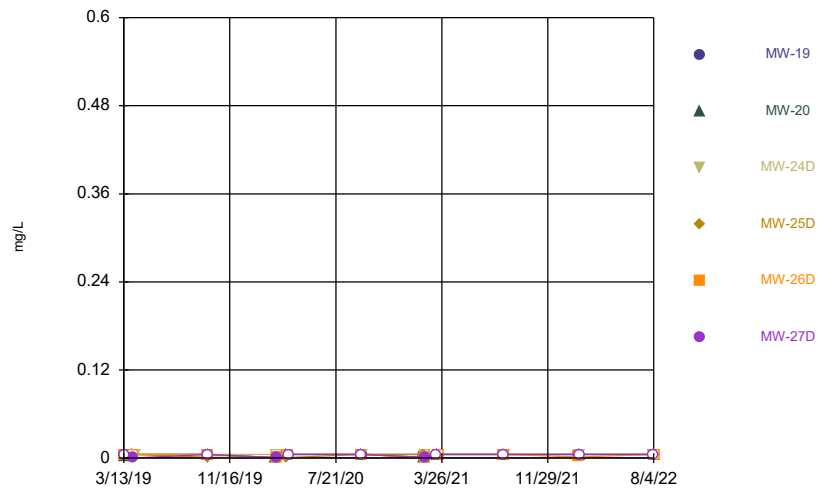
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Time Series



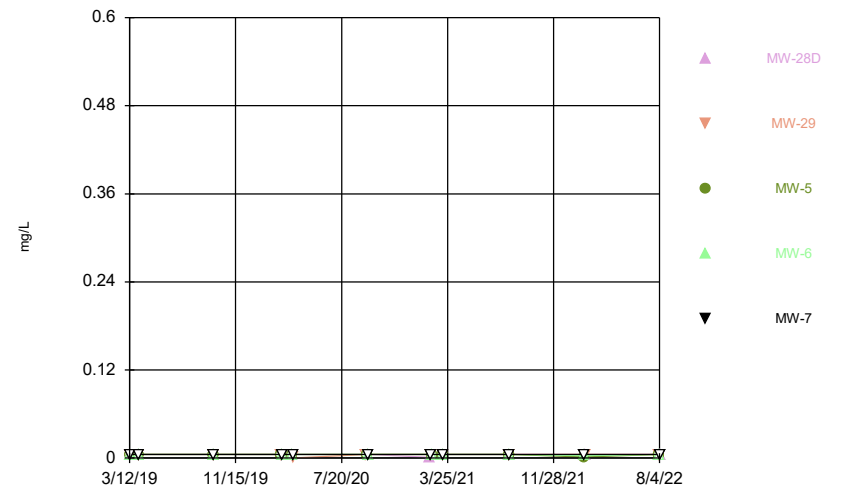
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



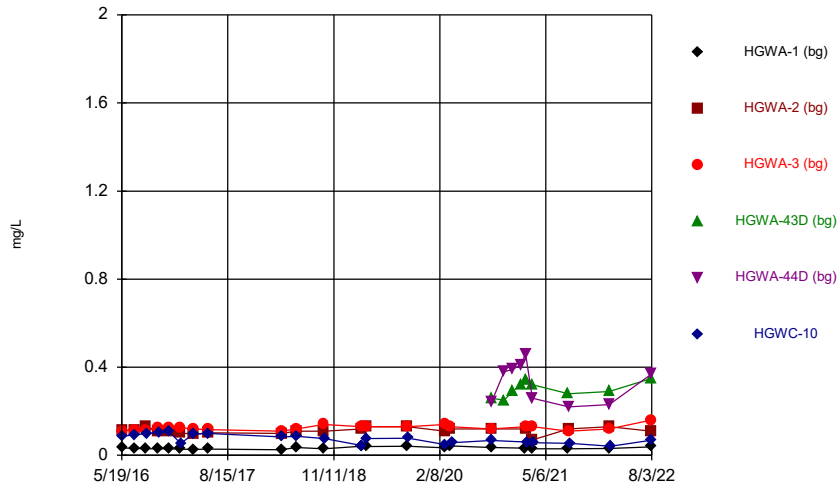
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Time Series



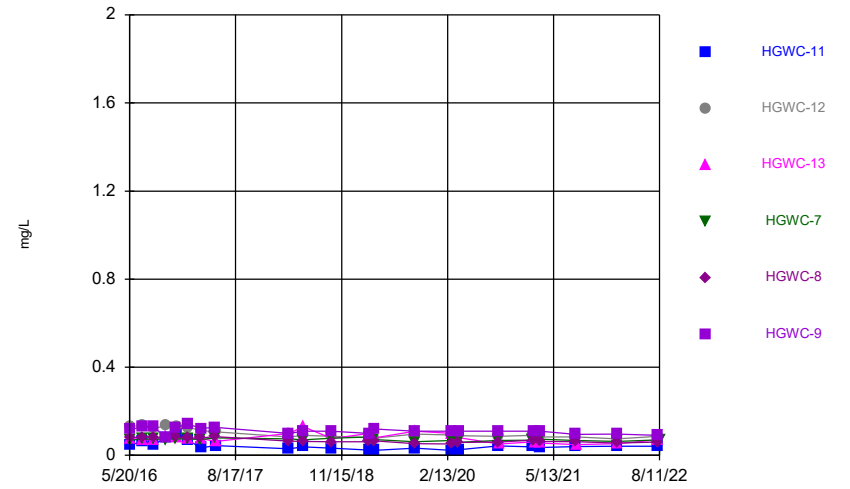
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



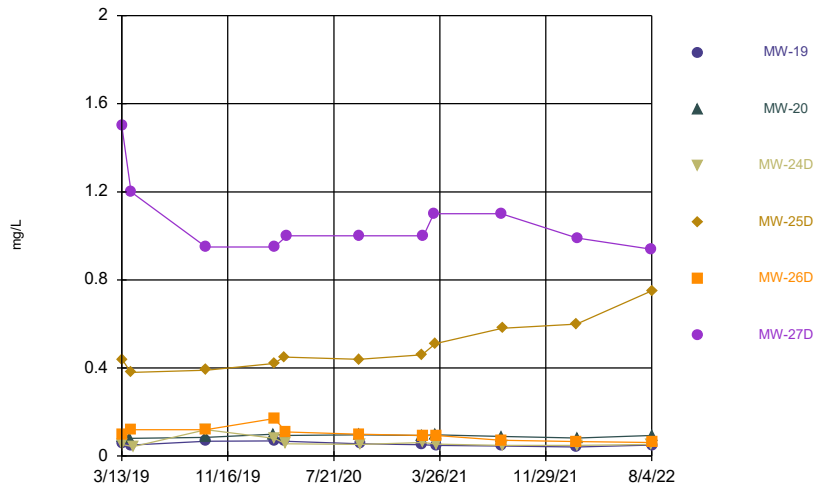
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Time Series



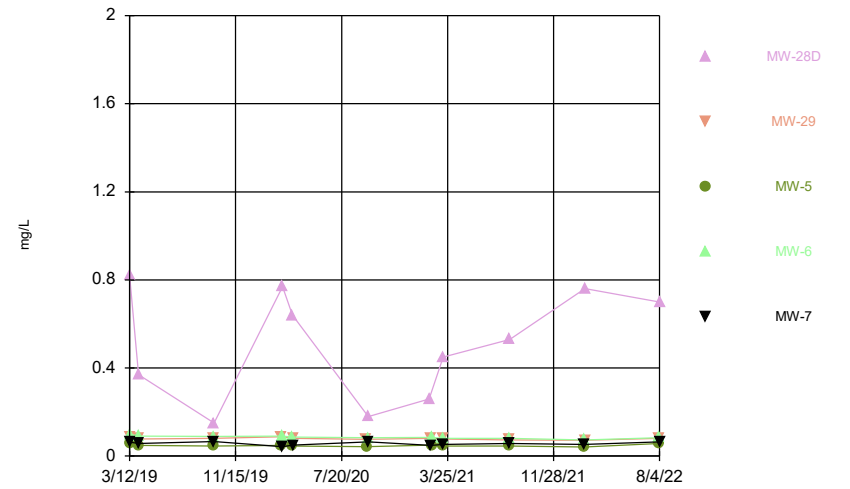
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Time Series



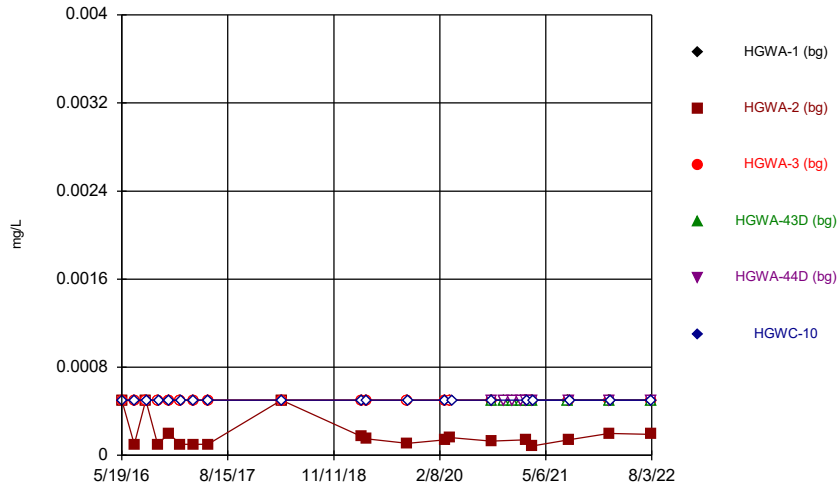
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



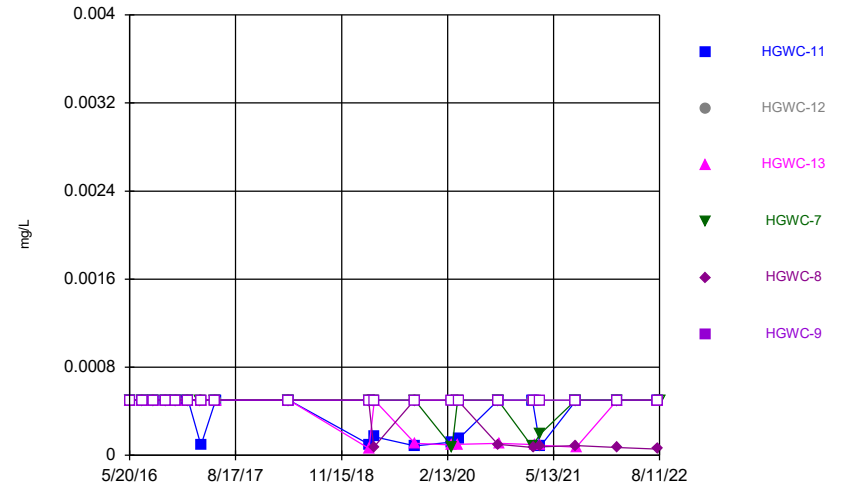
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



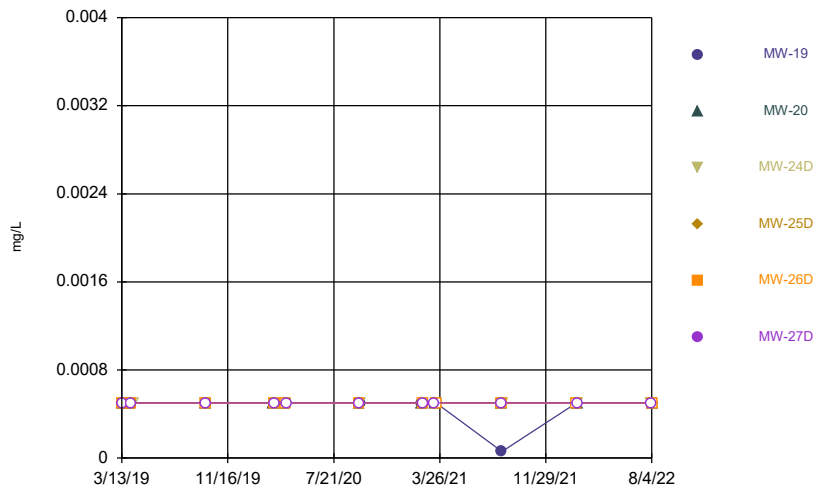
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



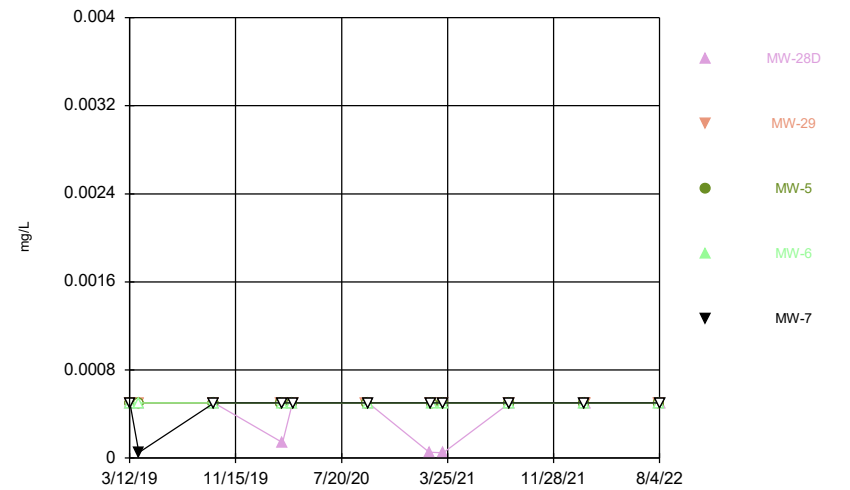
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



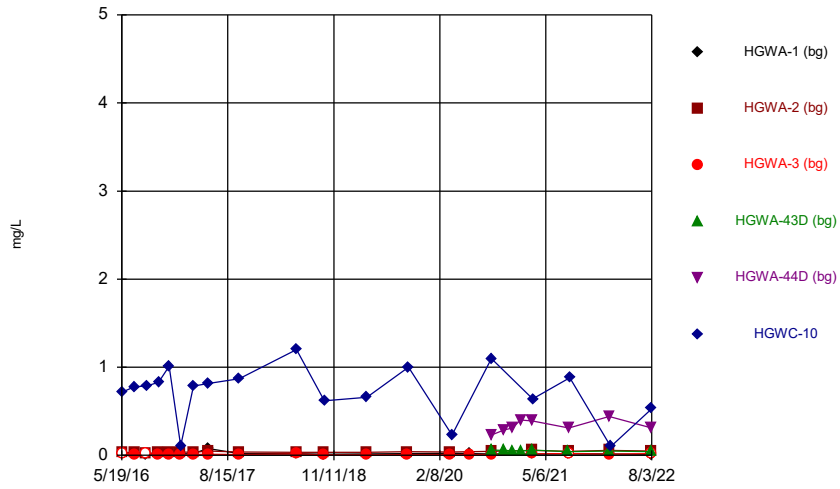
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



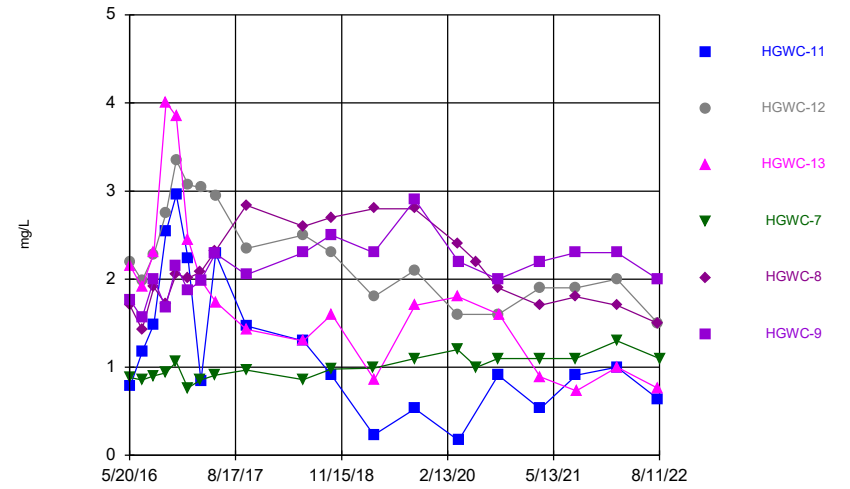
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Time Series



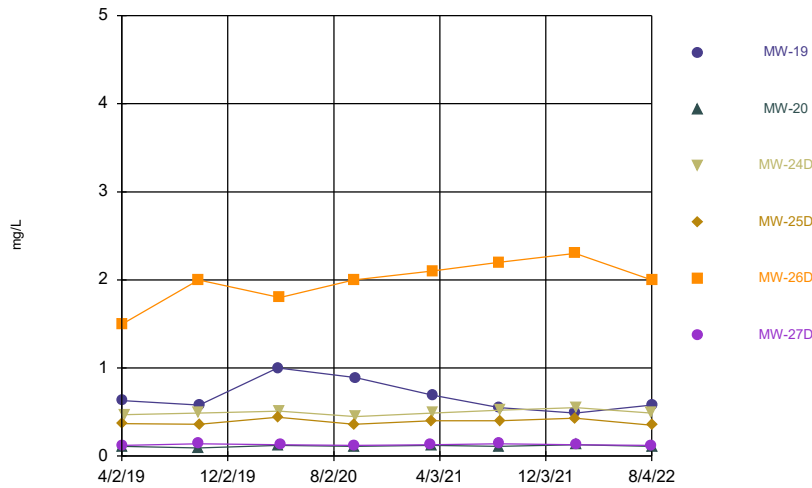
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



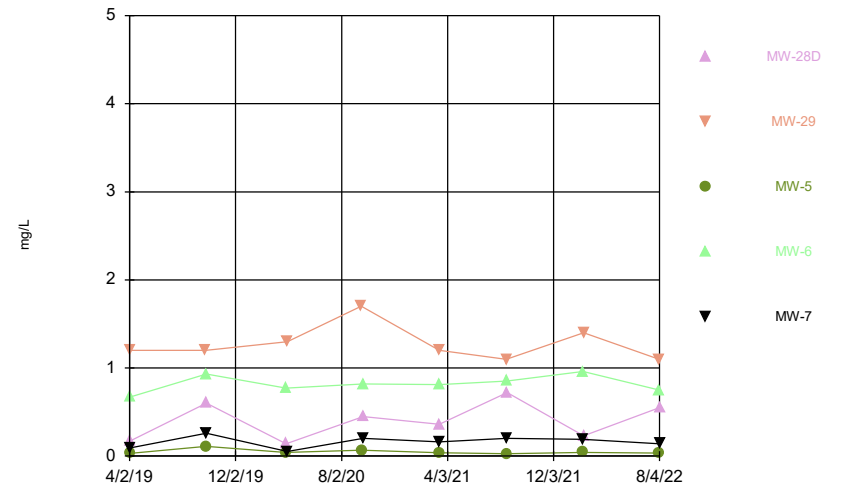
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



Constituent: Boron Analysis Run 11/8/2022 12:10 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

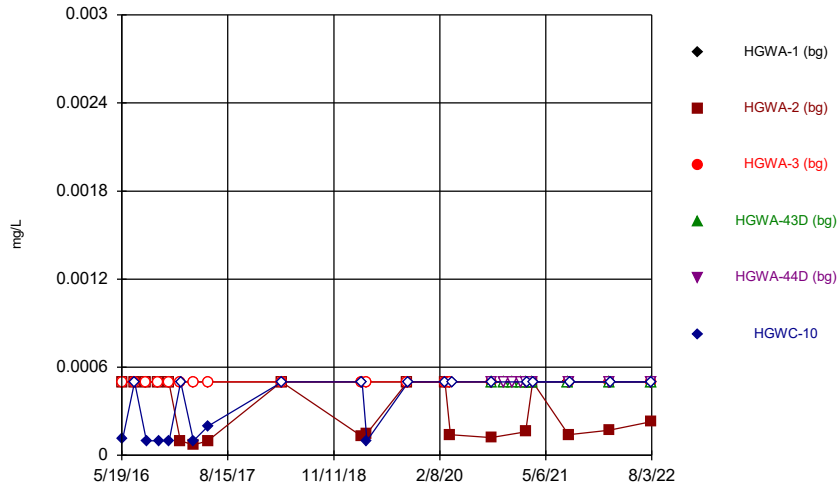
Time Series



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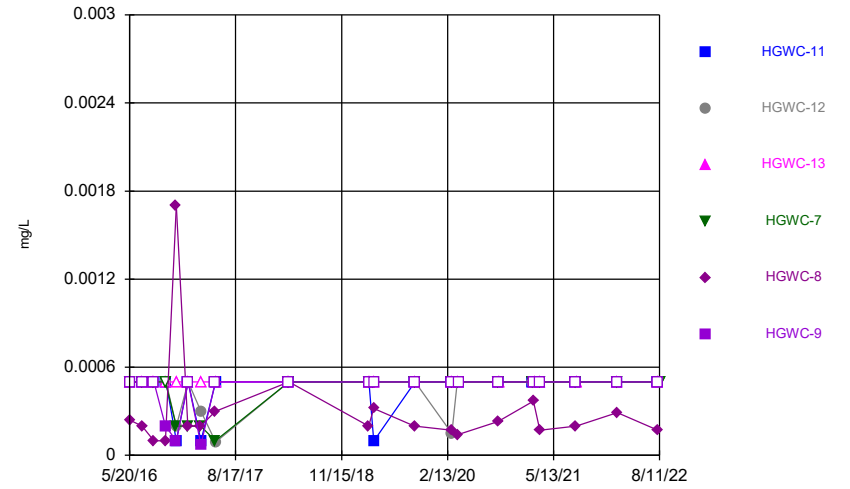


Time Series



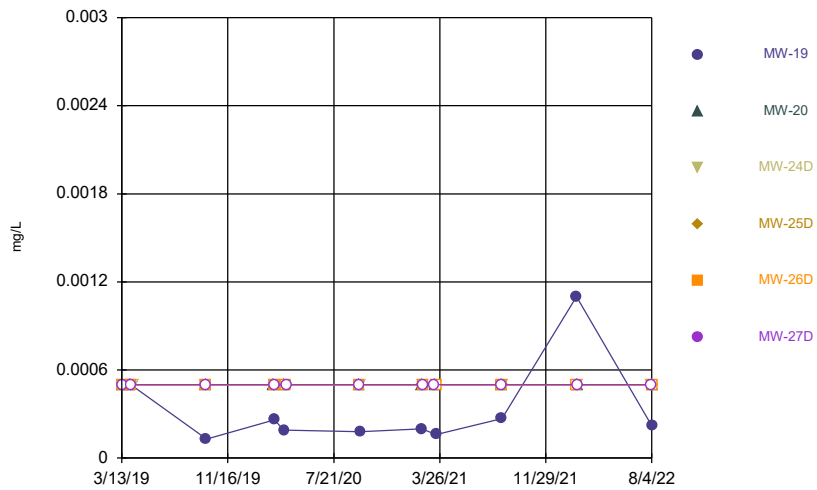
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



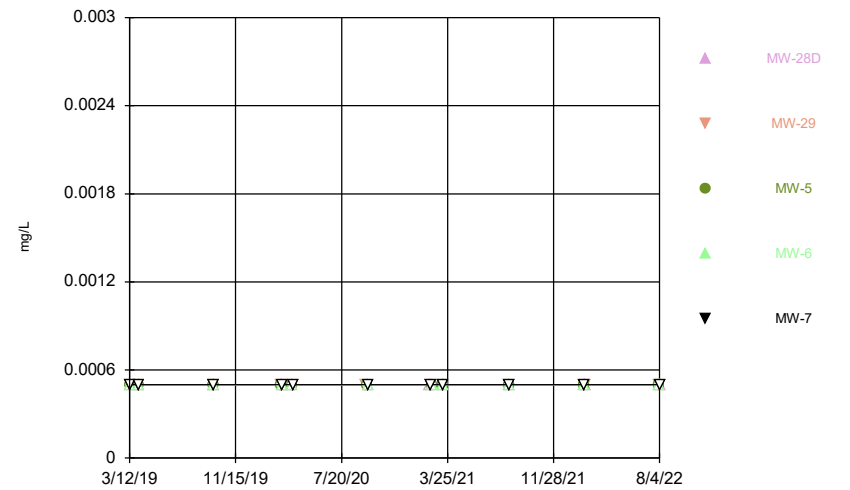
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



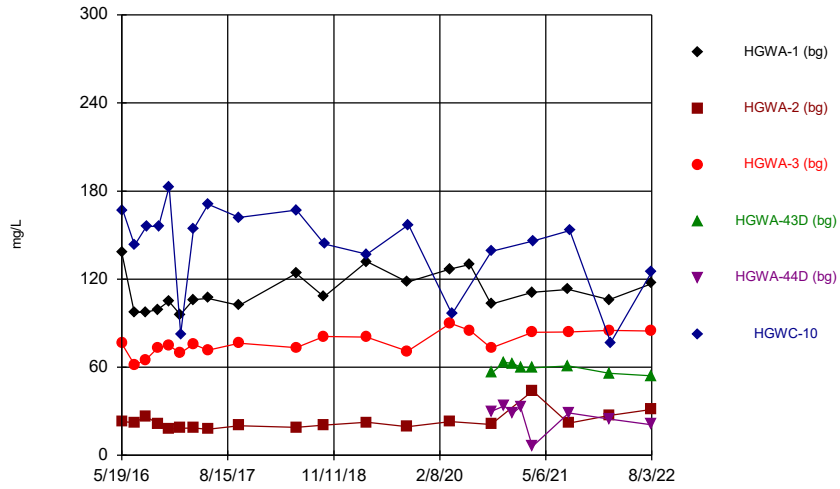
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Time Series



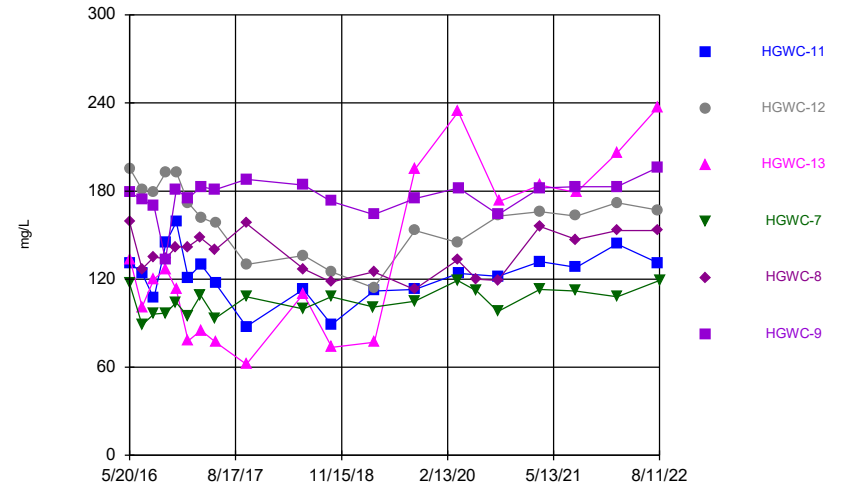
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



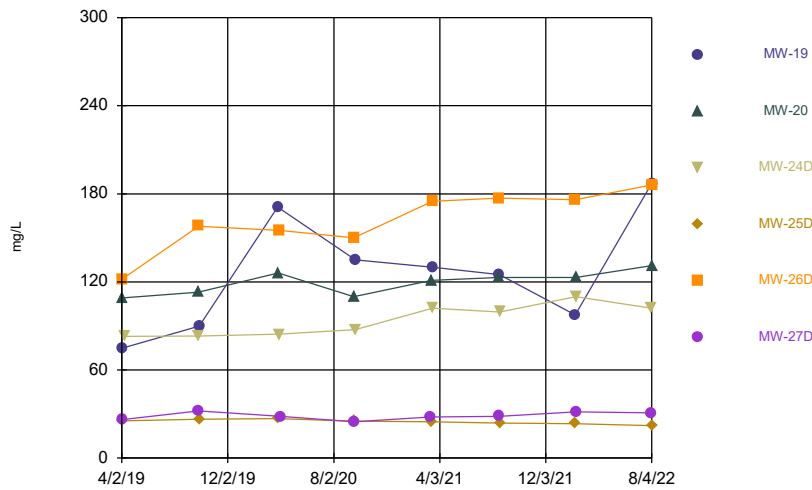
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



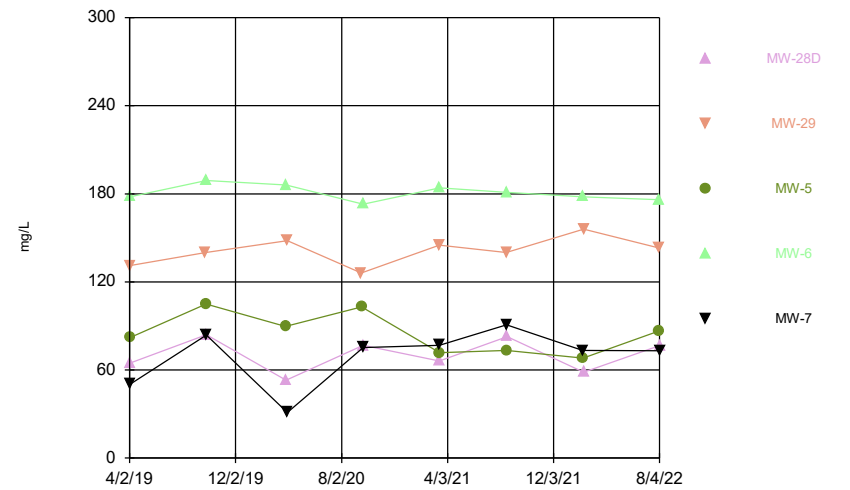
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### Time Series



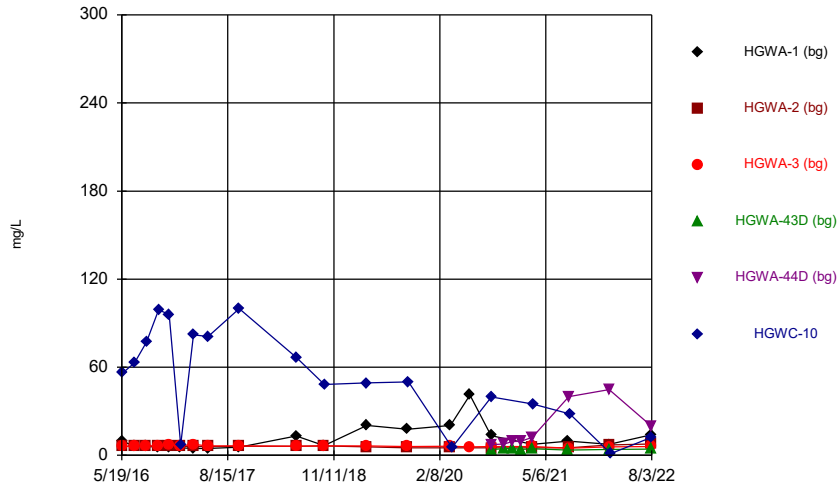
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### Time Series



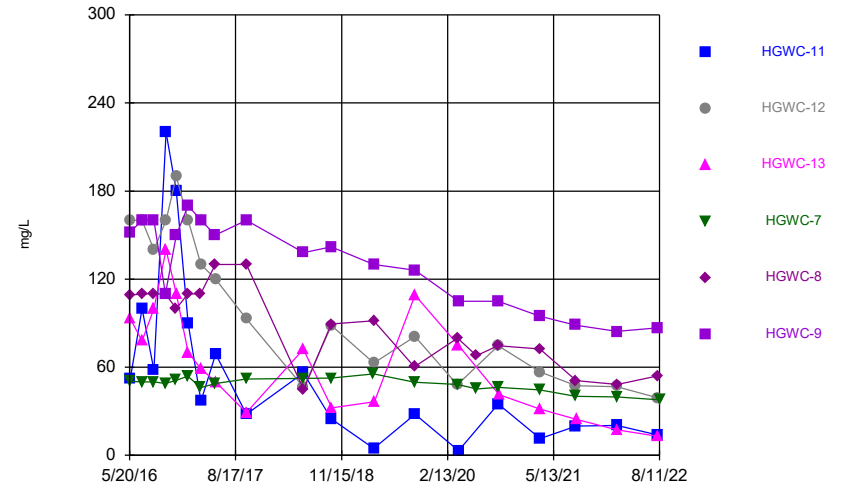
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### Time Series



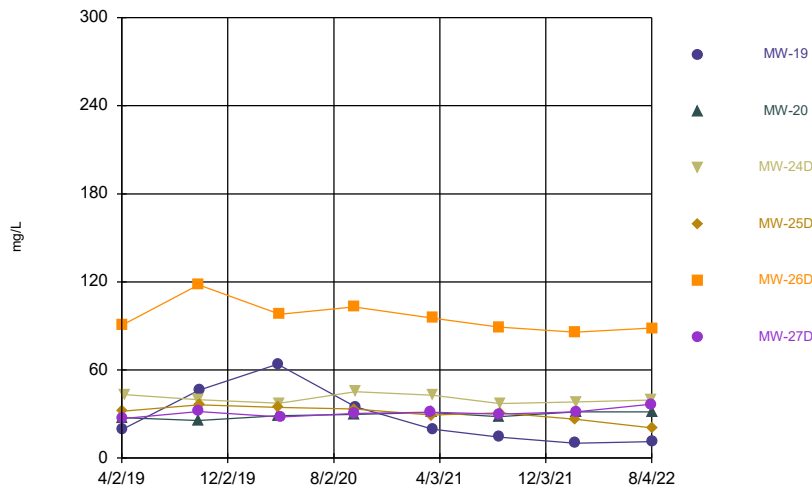
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### Time Series



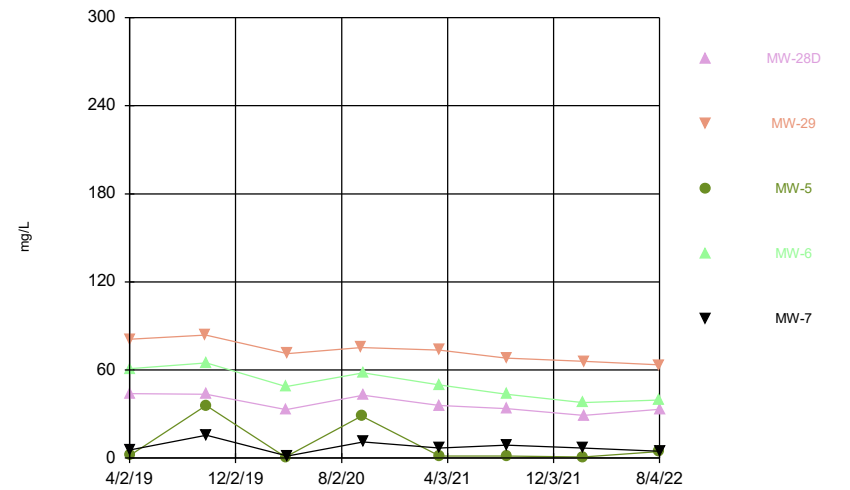
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### Time Series



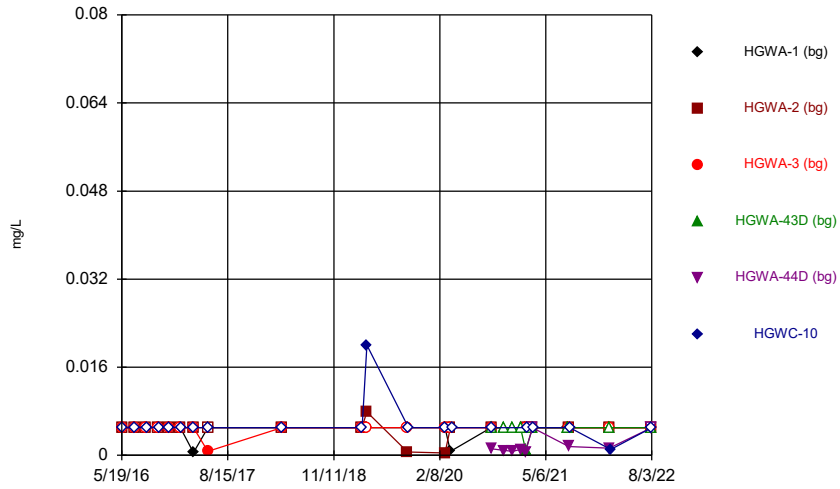
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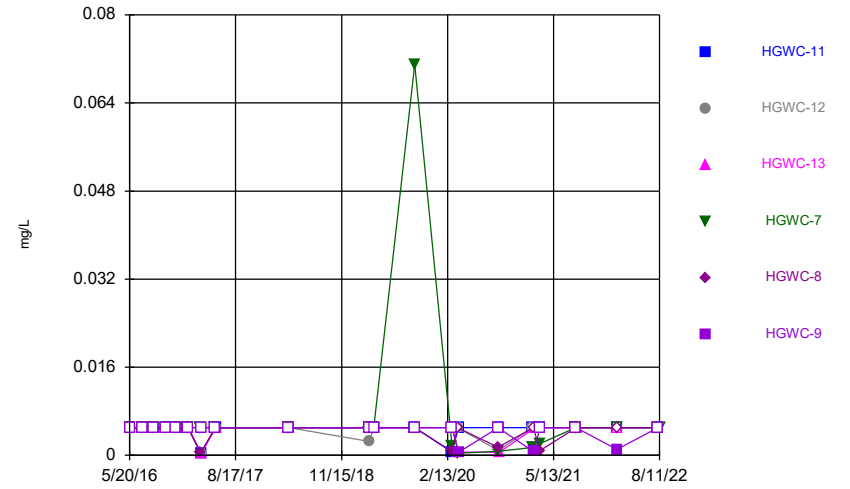
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Time Series



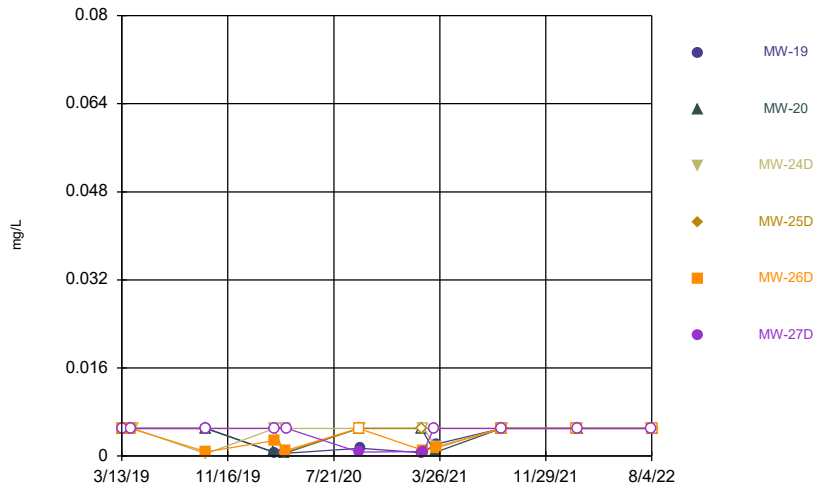
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



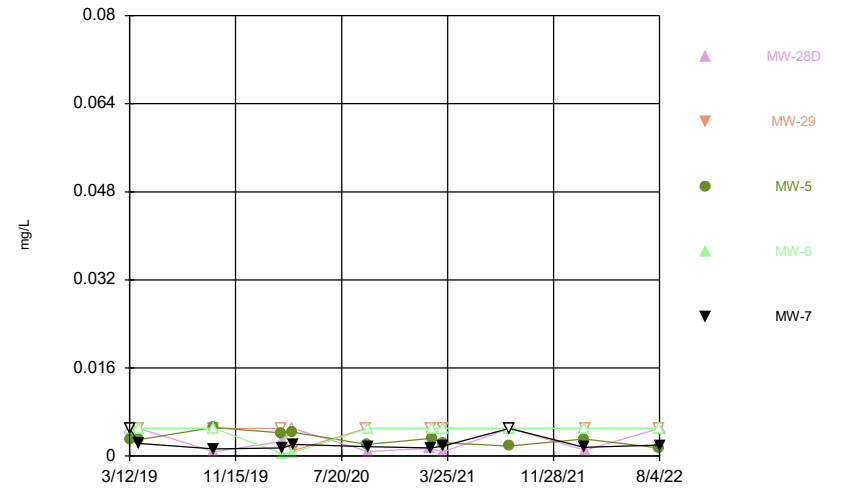
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



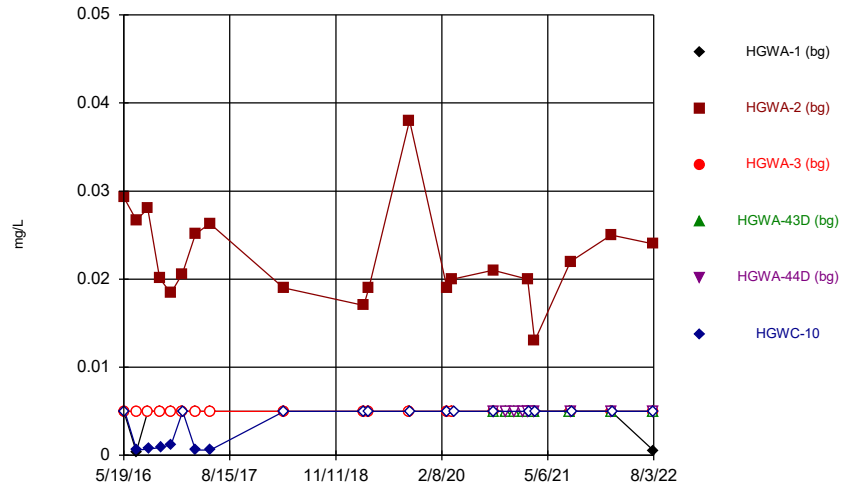
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Time Series



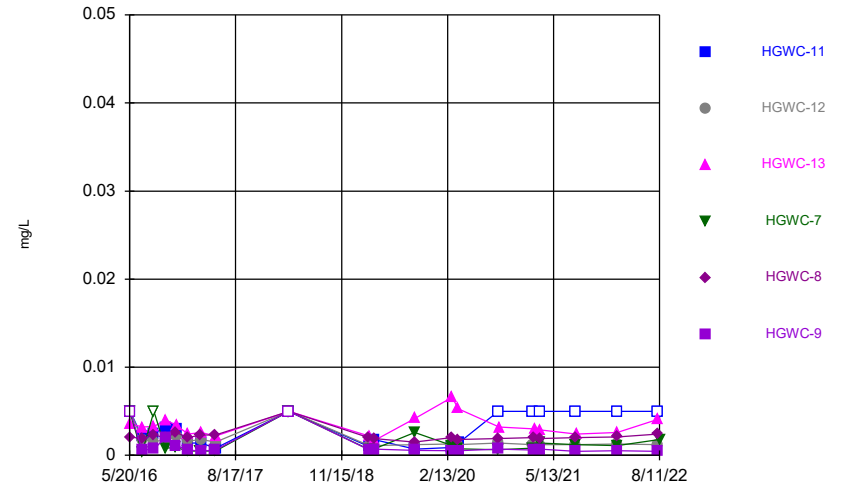
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



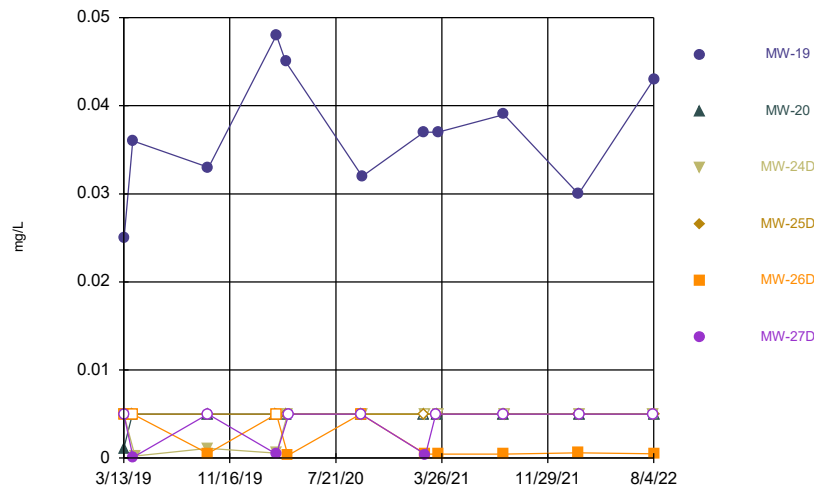
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### Time Series



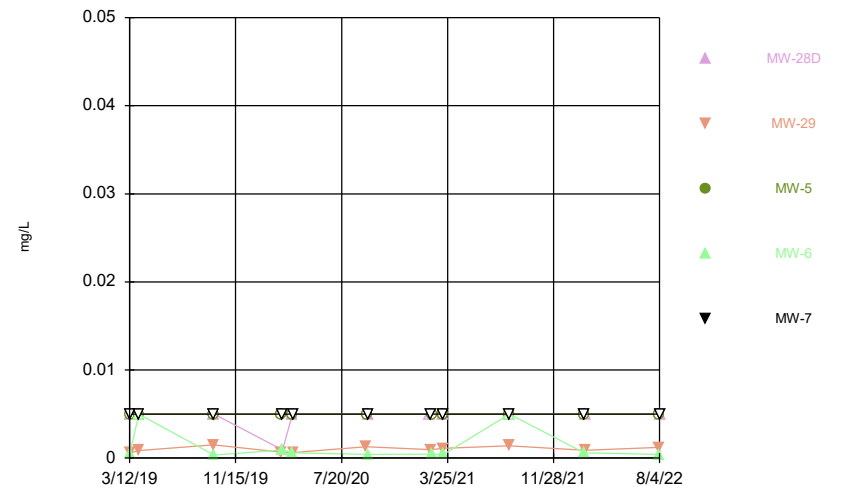
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### Time Series



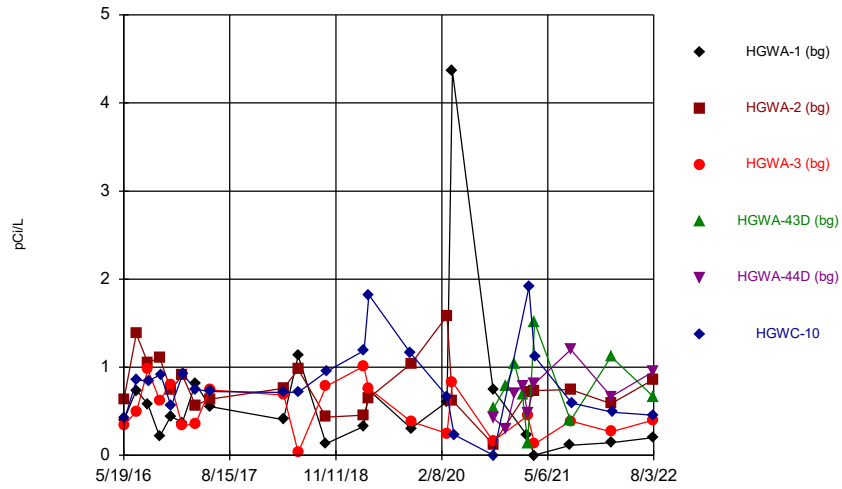
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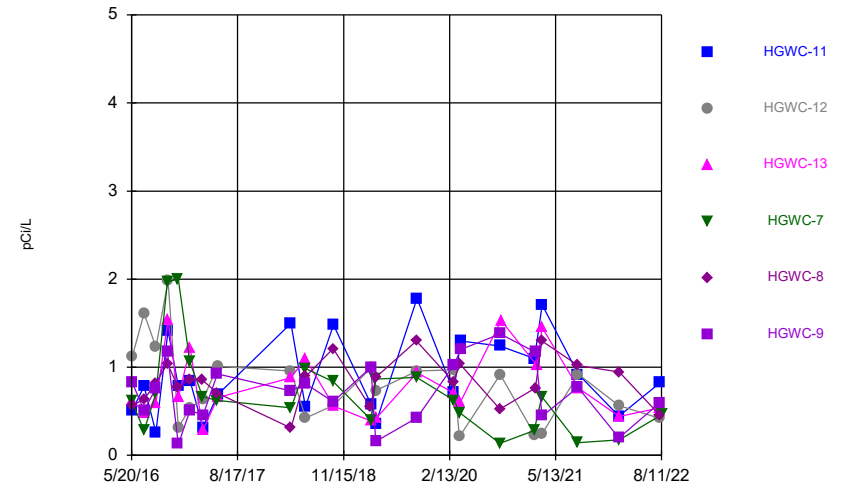
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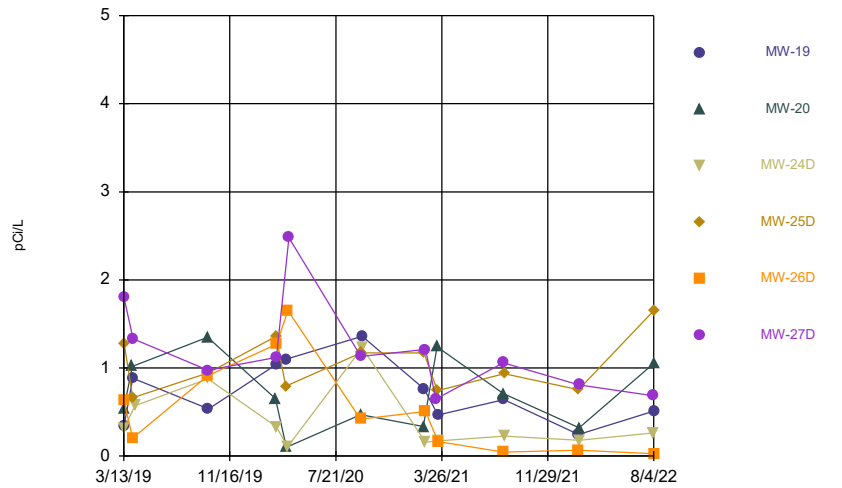
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



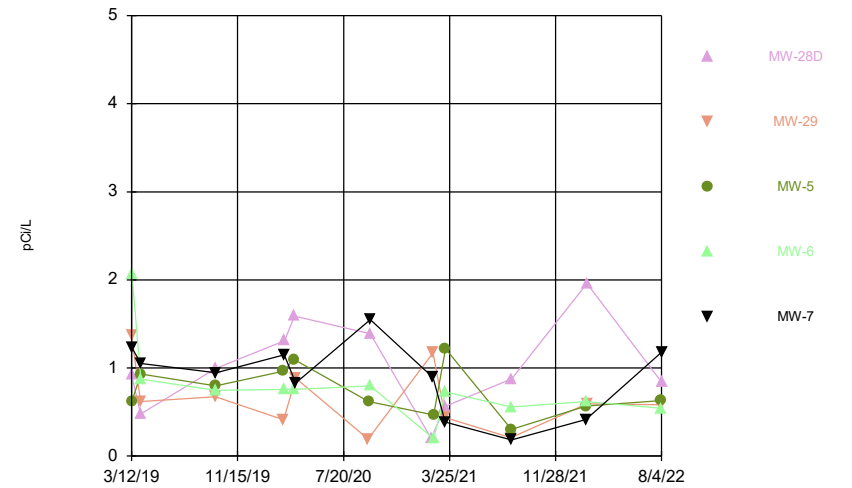
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



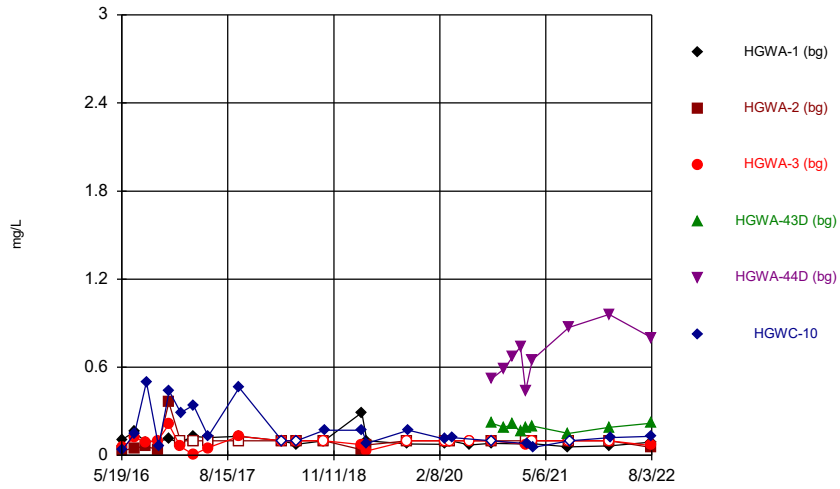
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### Time Series



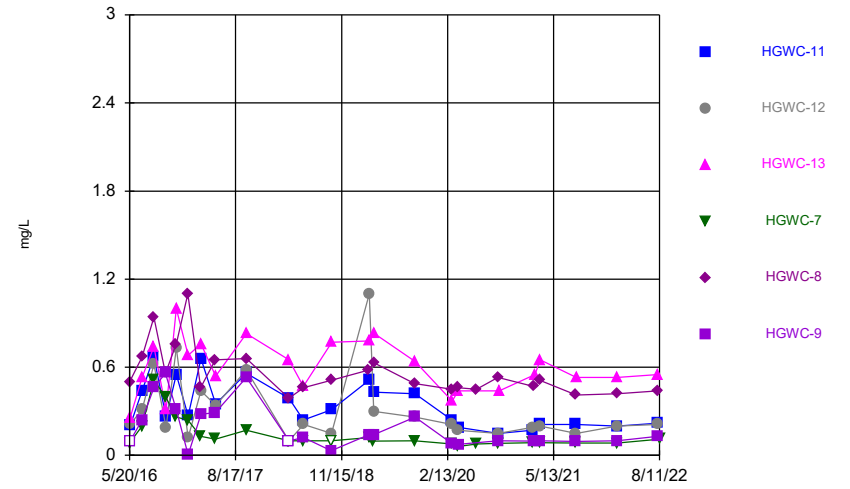
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



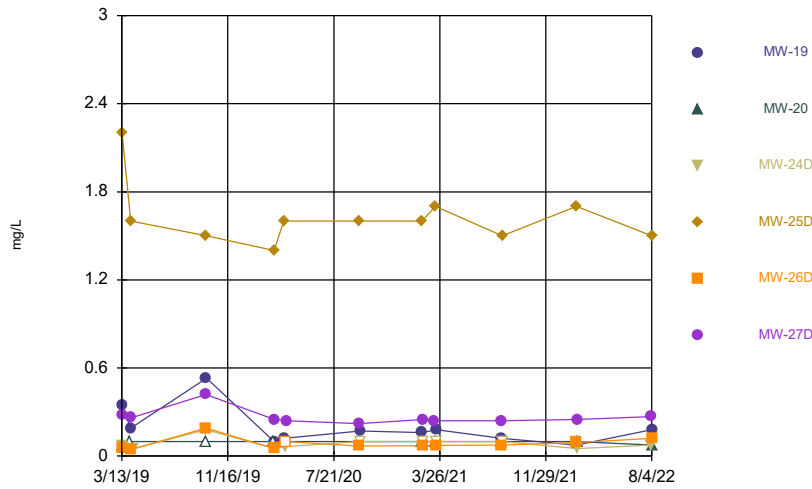
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Time Series



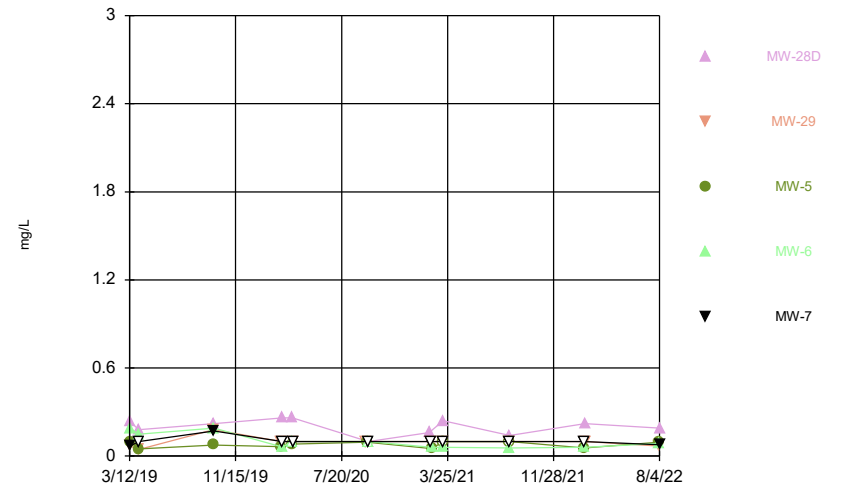
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Time Series



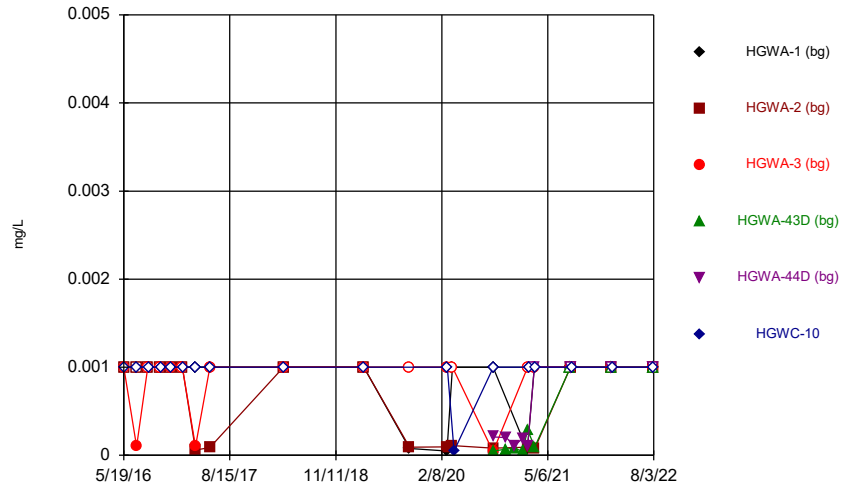
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Time Series



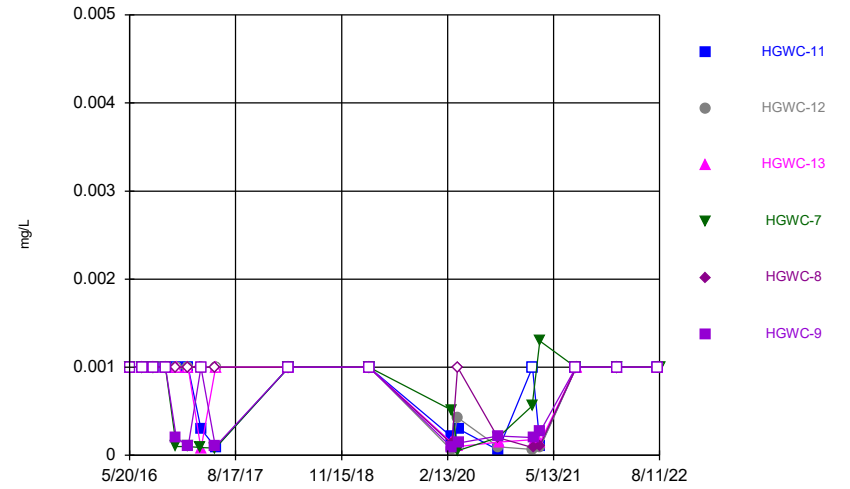
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Time Series



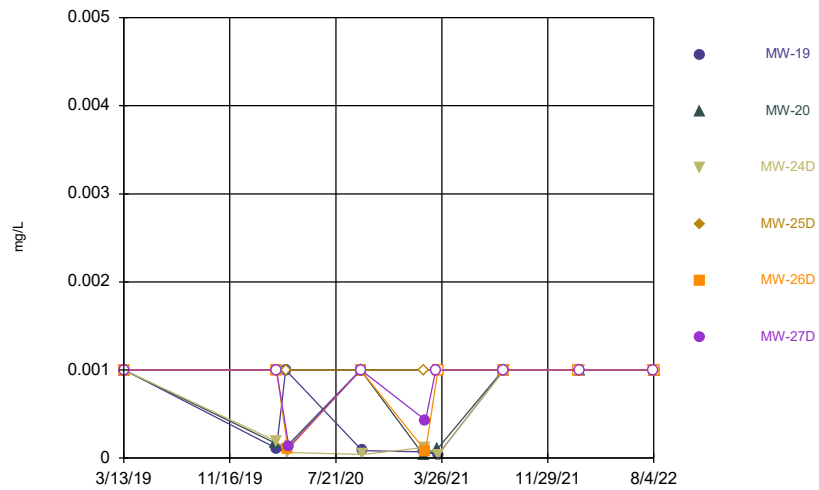
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Time Series



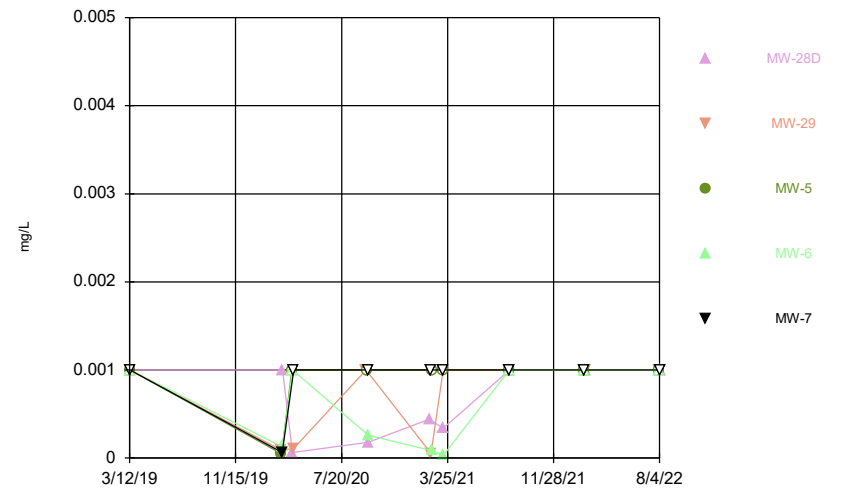
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Time Series



Constituent: Lead Analysis Run 11/8/2022 12:10 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

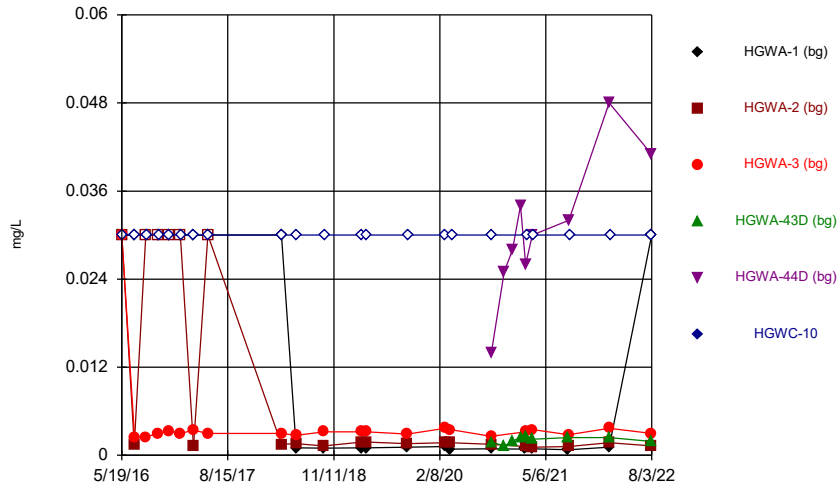
Time Series



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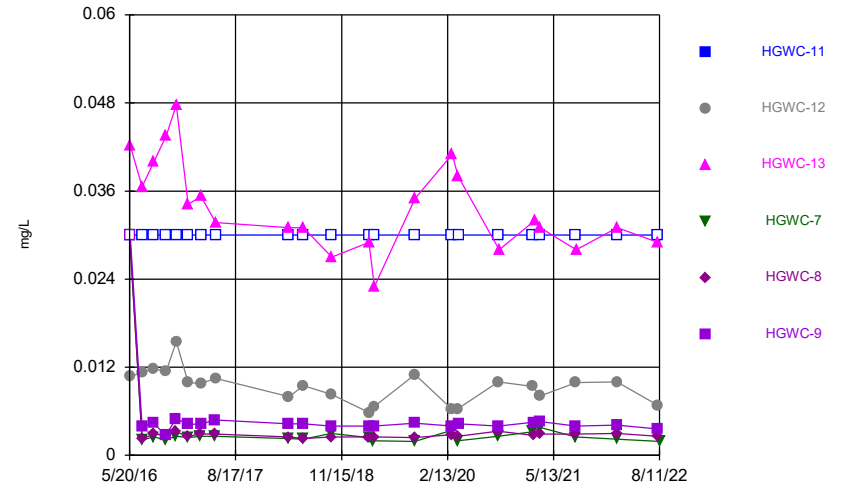


Time Series



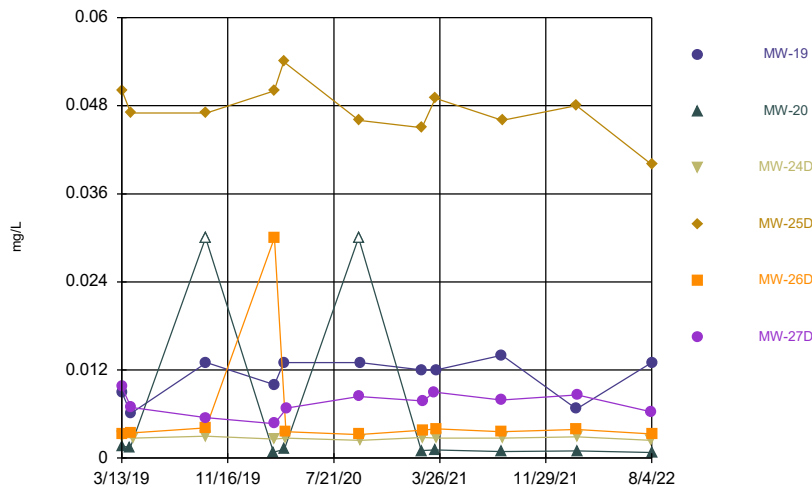
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



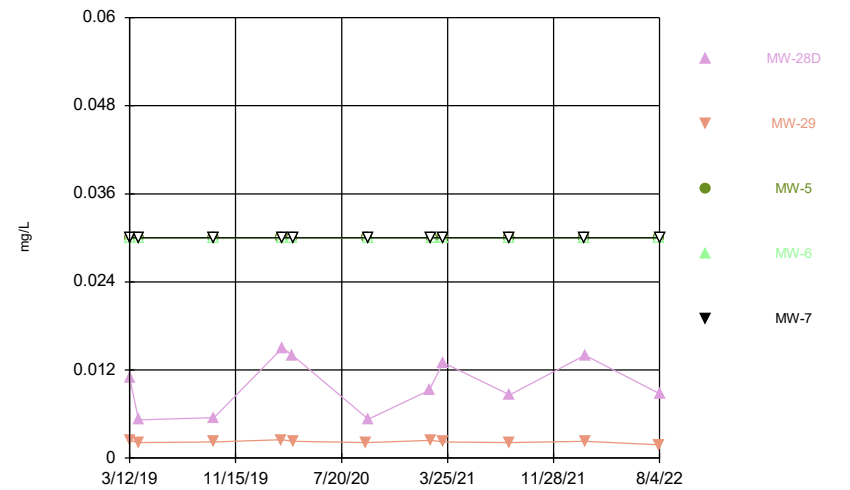
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Time Series



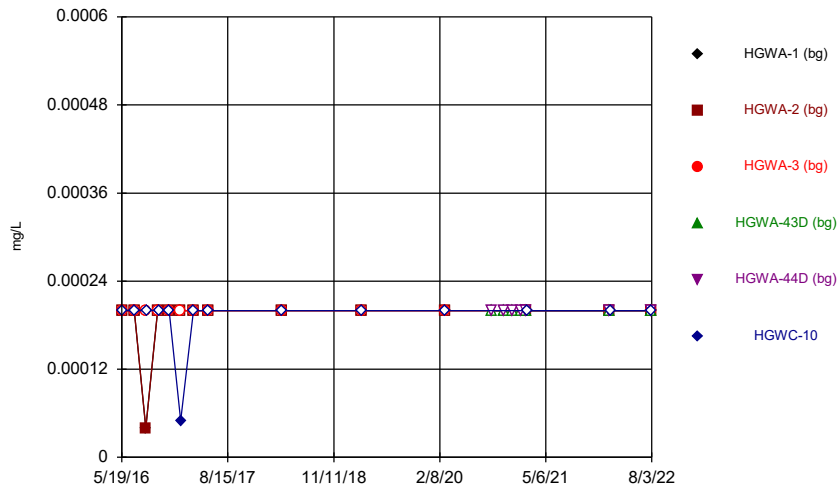
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Time Series



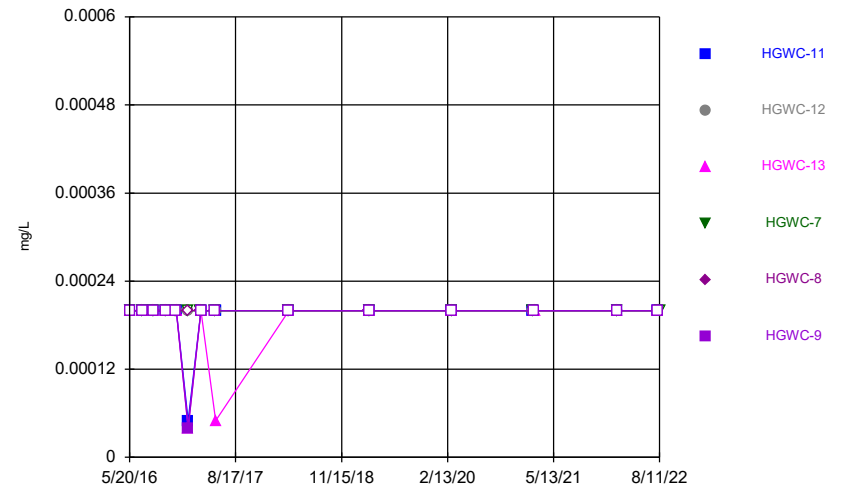
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



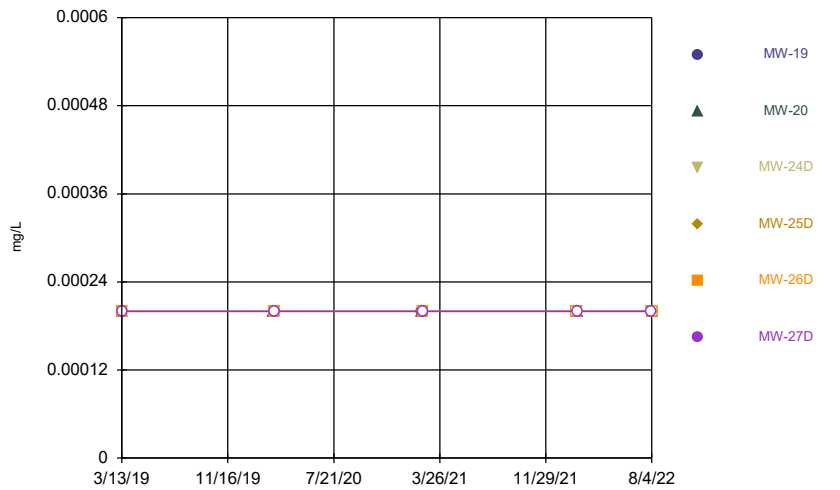
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



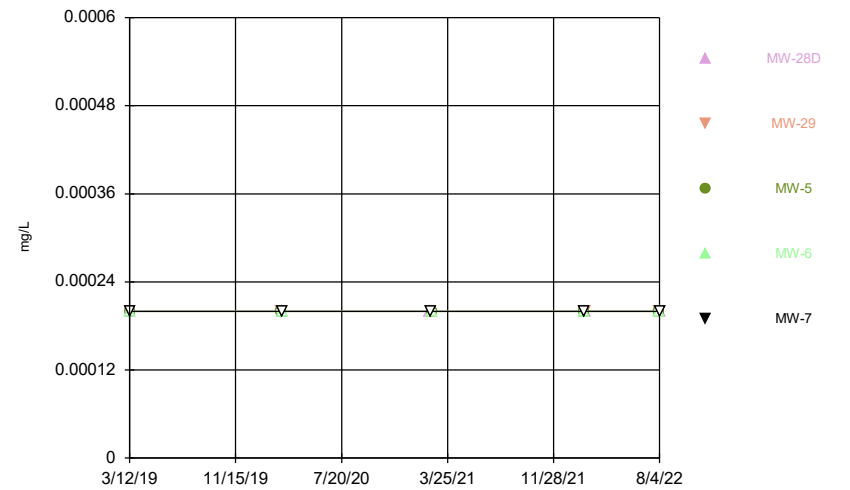
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



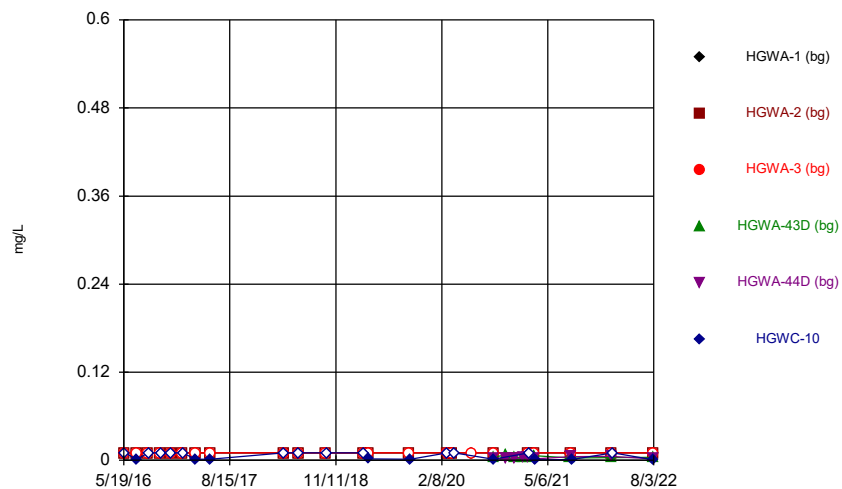
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



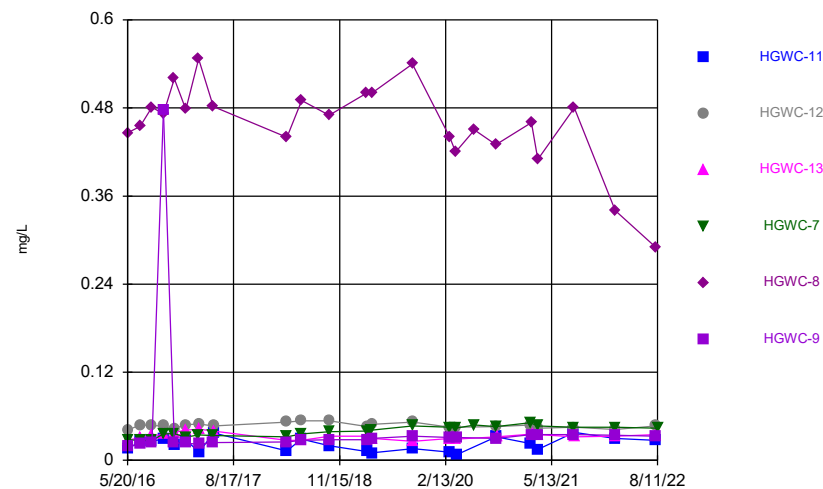
Constituent: Mercury Analysis Run 11/8/2022 12:10 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



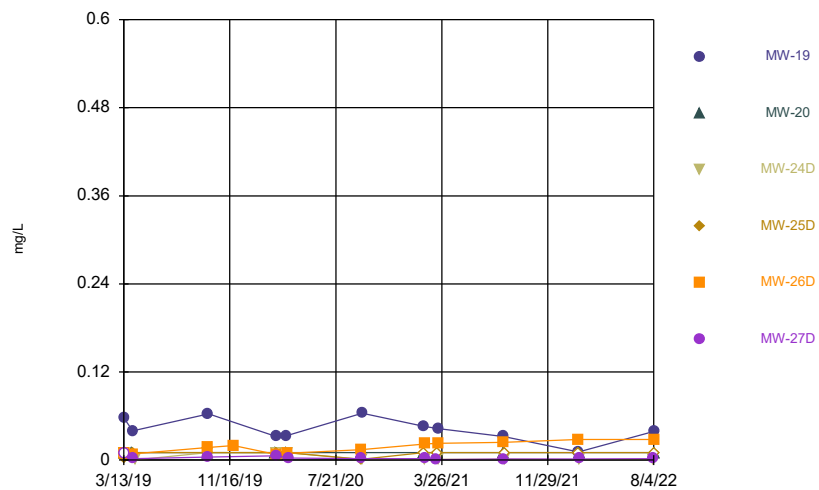
Constituent: Molybdenum Analysis Run 11/8/2022 12:10 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



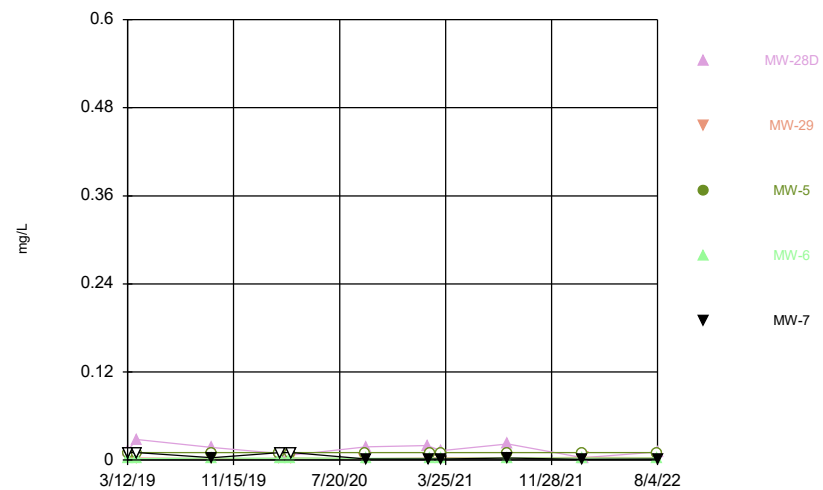
Constituent: Molybdenum Analysis Run 11/8/2022 12:10 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



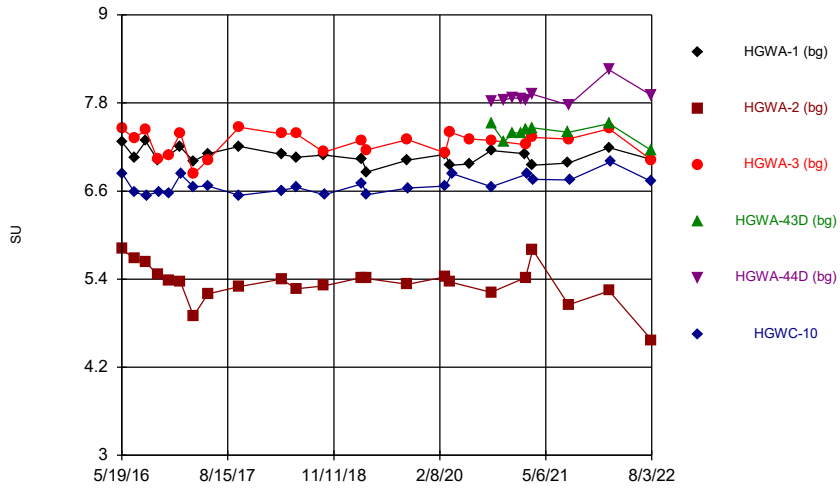
Constituent: Molybdenum Analysis Run 11/8/2022 12:10 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



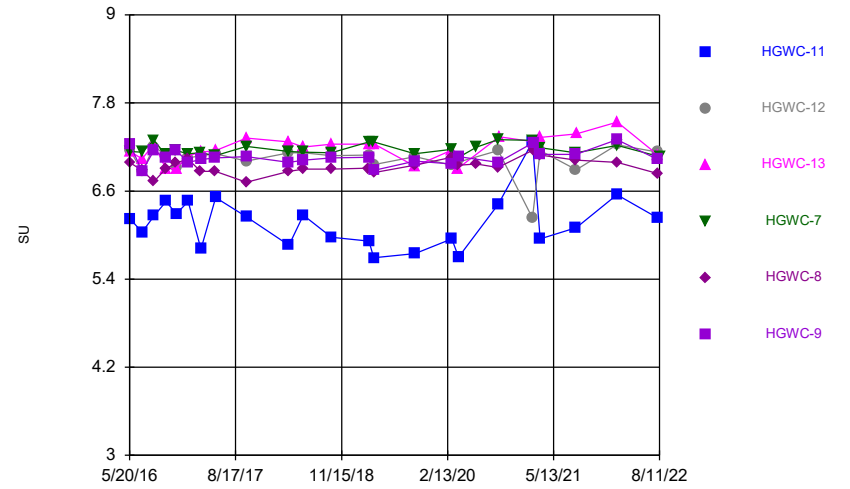
Constituent: Molybdenum Analysis Run 11/8/2022 12:10 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



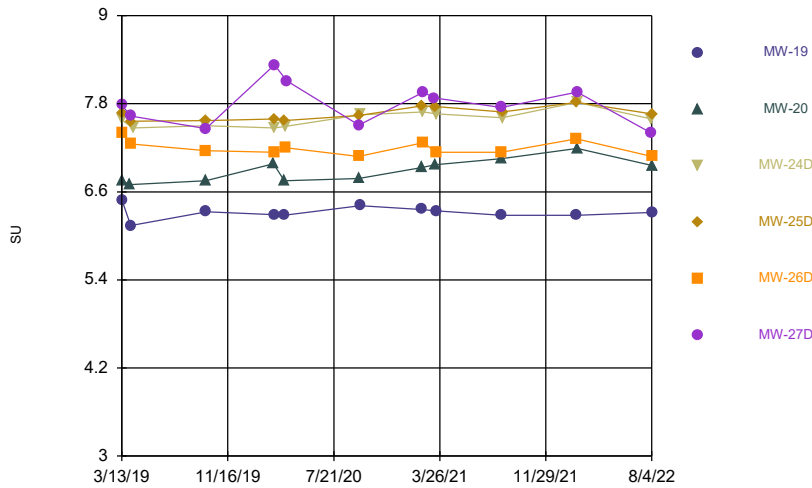
Constituent: pH, Field Analysis Run 11/8/2022 12:10 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



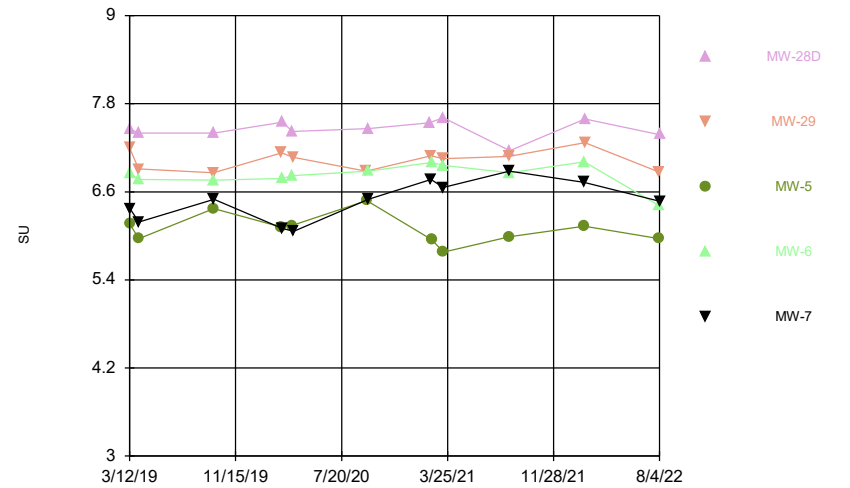
Constituent: pH, Field Analysis Run 11/8/2022 12:10 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



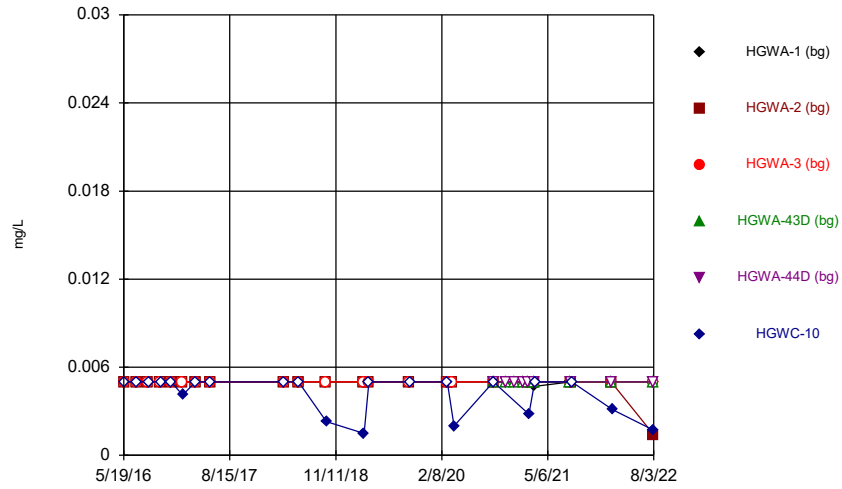
Constituent: pH, Field Analysis Run 11/8/2022 12:10 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



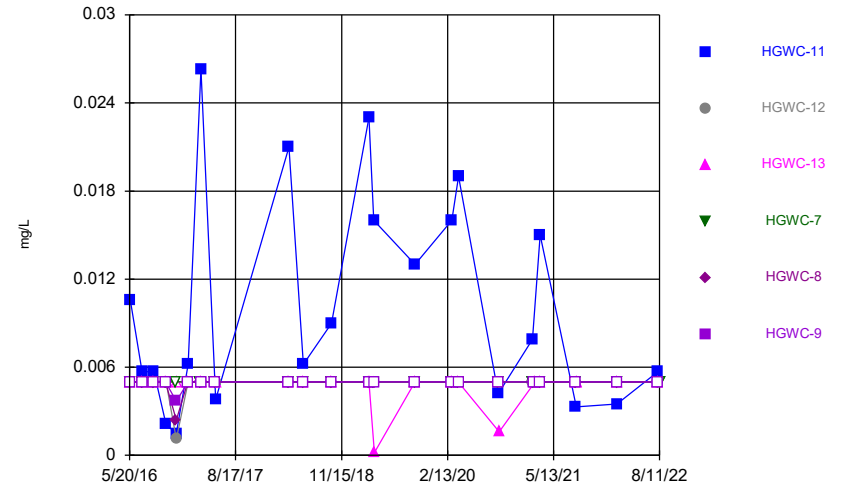
Constituent: pH, Field Analysis Run 11/8/2022 12:10 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



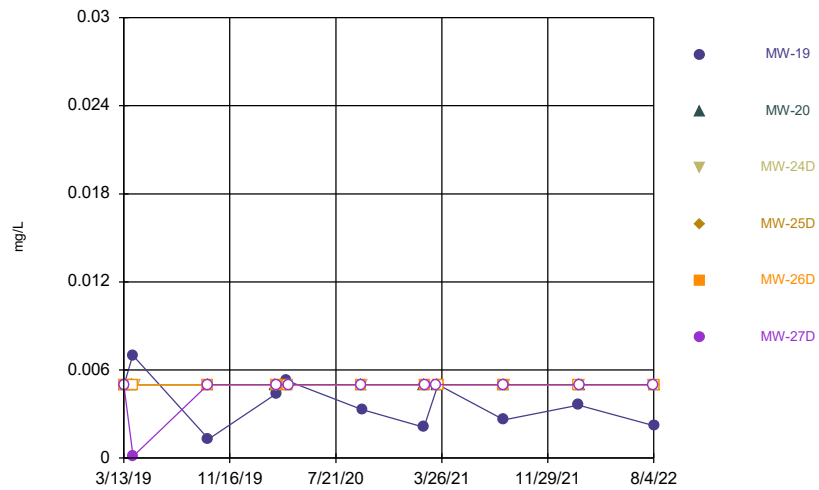
Constituent: Selenium Analysis Run 11/8/2022 12:10 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



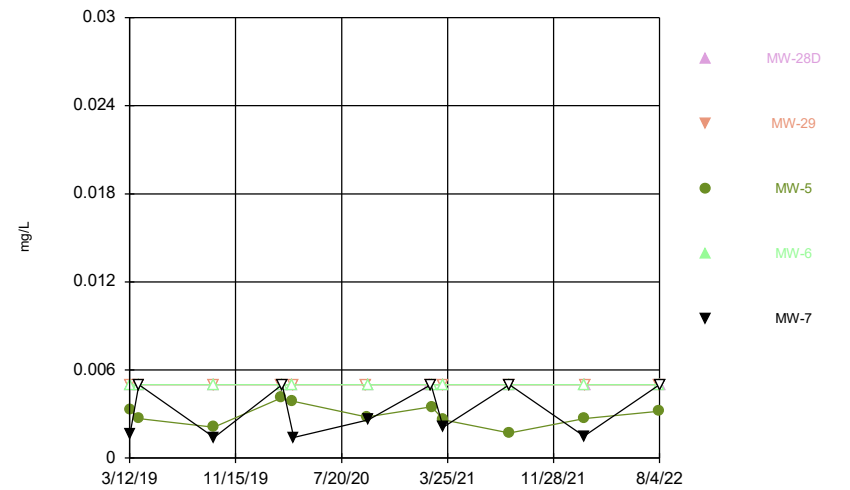
Constituent: Selenium Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



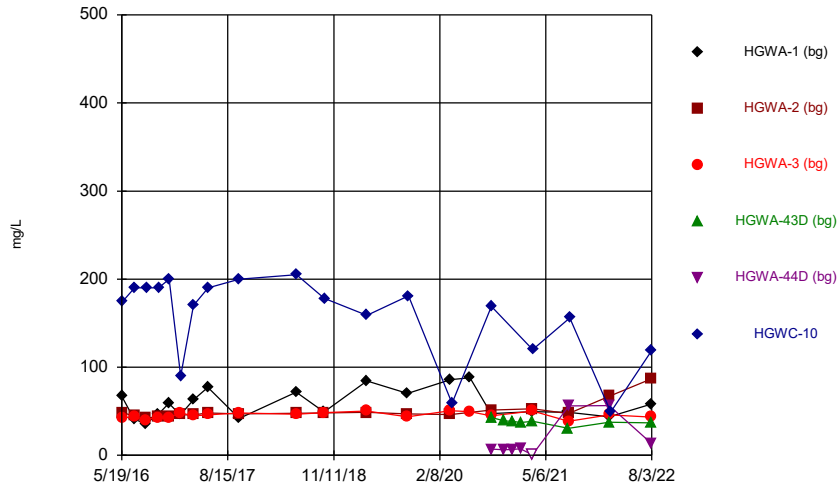
Constituent: Selenium Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Time Series



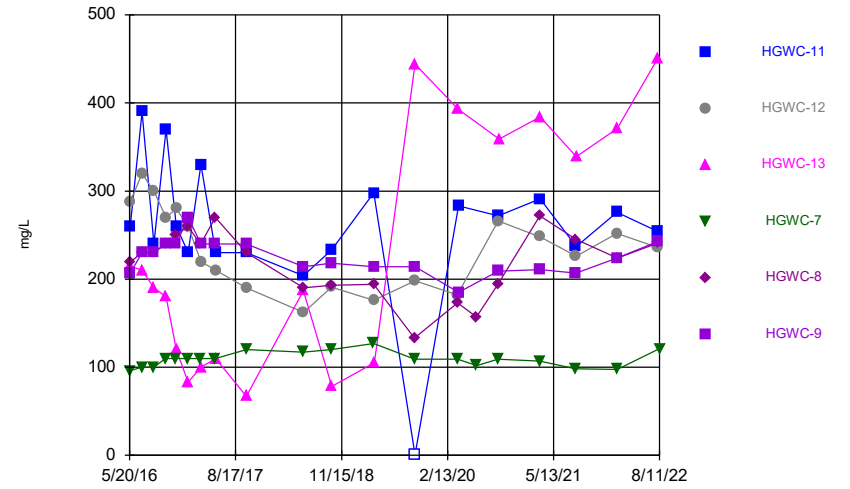
Constituent: Selenium Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



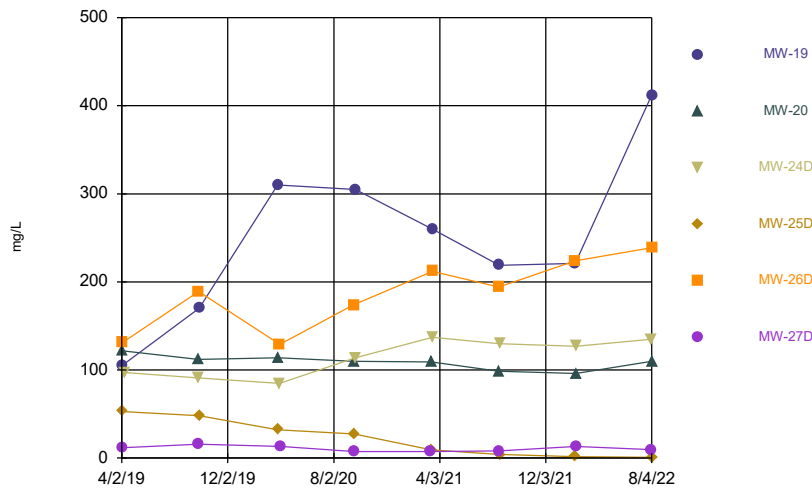
Constituent: Sulfate Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



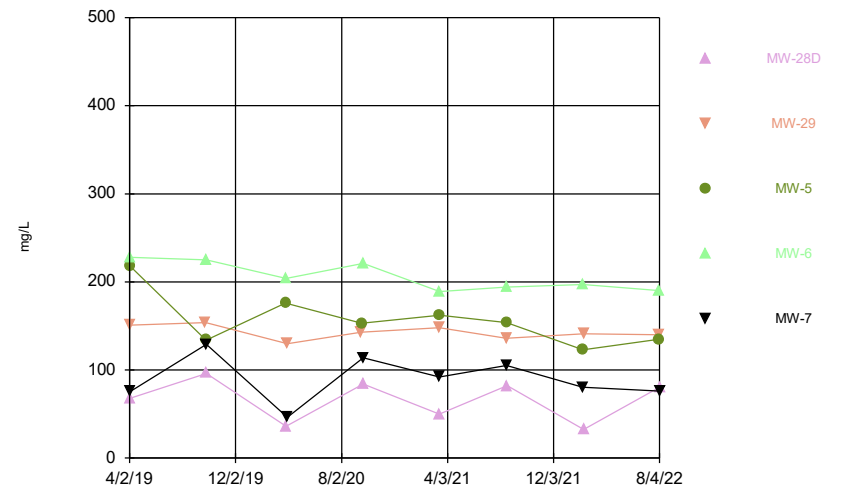
Constituent: Sulfate Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



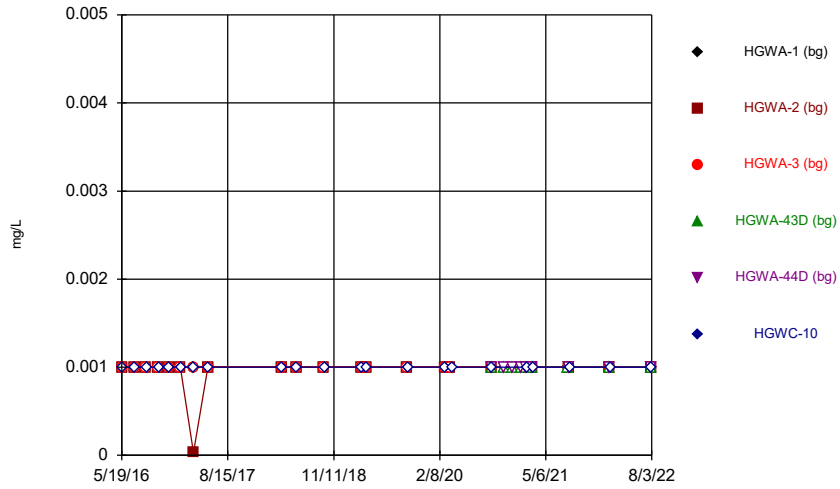
Constituent: Sulfate Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



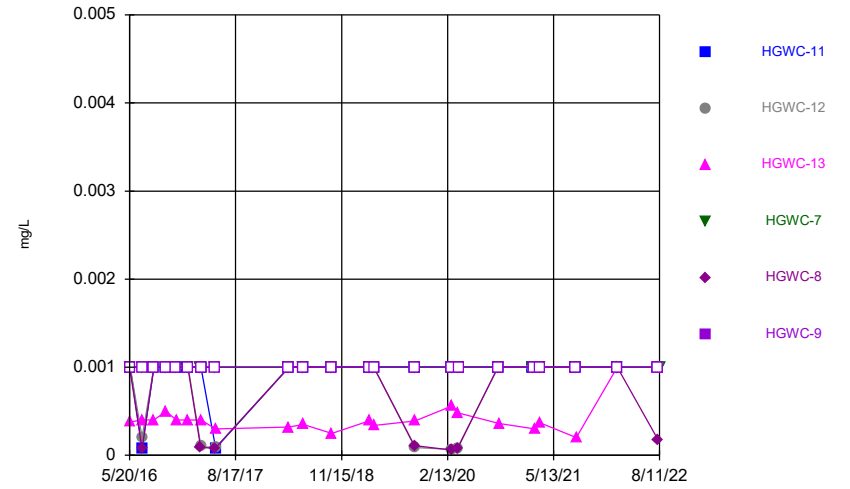
Constituent: Sulfate Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



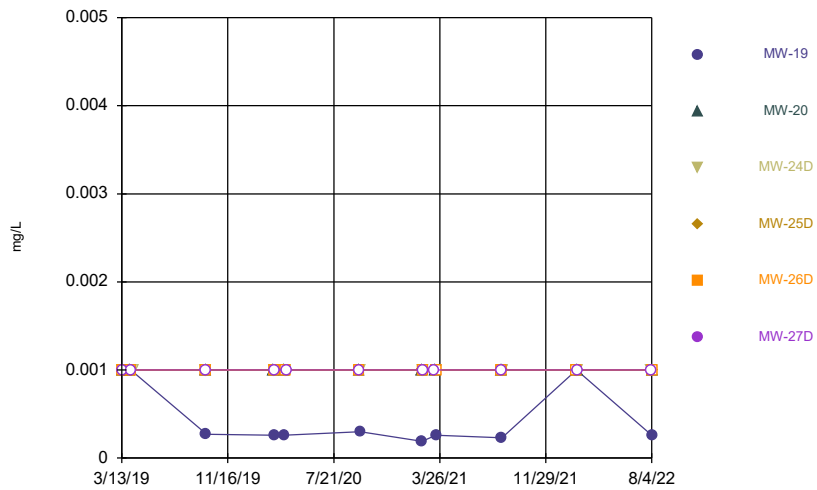
Constituent: Thallium Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



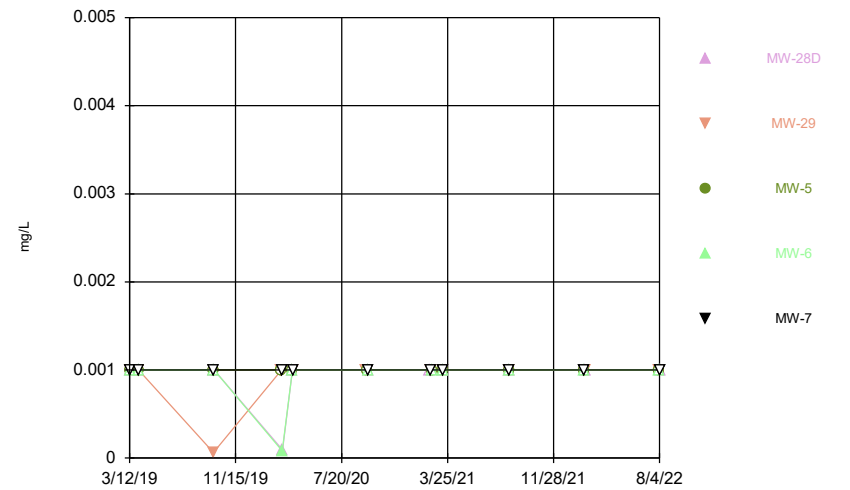
Constituent: Thallium Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



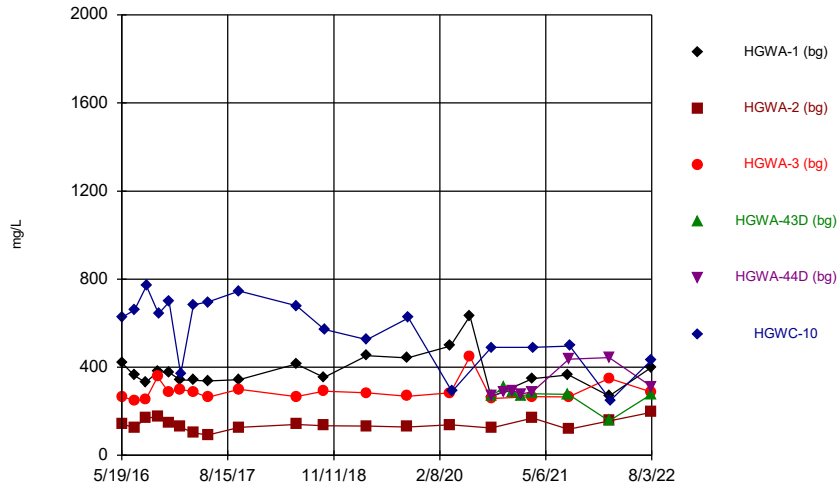
Constituent: Thallium Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



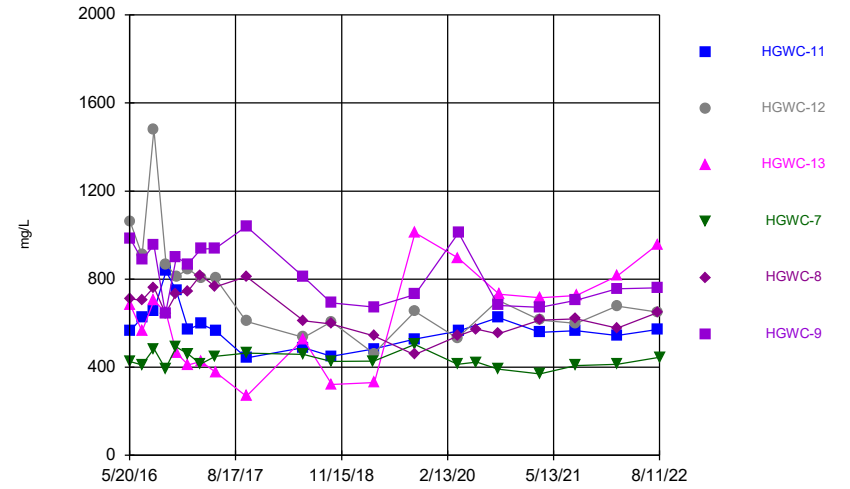
Constituent: Thallium Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



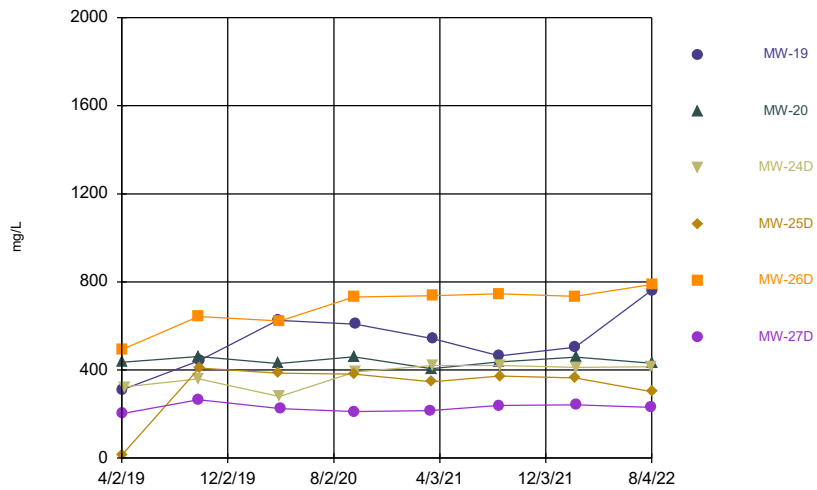
Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



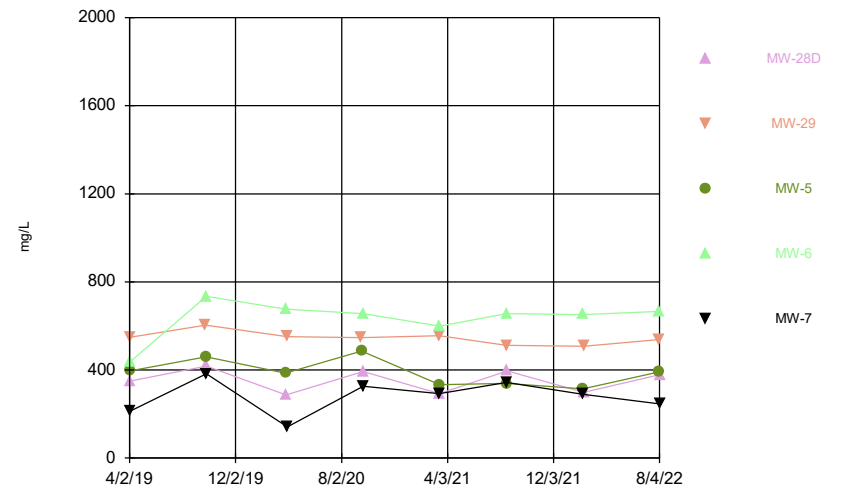
Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1



# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.003	<0.003	<0.003			
5/23/2016						<0.003
7/11/2016	<0.003	<0.003				
7/12/2016			0.0003 (J)			<0.003
8/30/2016	<0.003	<0.003	<0.003			
9/1/2016						<0.003
10/19/2016	0.0014 (J)	<0.003	<0.003			
10/24/2016						<0.003
12/6/2016	<0.003	<0.003	<0.003			
12/7/2016						<0.003
1/24/2017	<0.003	<0.003	<0.003			
1/26/2017						<0.003
3/21/2017	<0.003	<0.003	<0.003			
3/22/2017						<0.003
5/22/2017	<0.003	<0.003	<0.003			
5/24/2017						<0.003
4/2/2018	<0.003	<0.003				
4/3/2018			<0.003			
4/4/2018						<0.003
3/12/2019	<0.003	<0.003	<0.003			
3/13/2019						<0.003
4/1/2019			<0.003			
4/2/2019	<0.003	<0.003				
4/3/2019						<0.003
9/23/2019	<0.003	<0.003	<0.003			
9/27/2019						<0.003
3/2/2020	<0.003	<0.003	<0.003			
3/3/2020						<0.003
3/25/2020	<0.003	<0.003	<0.003			
4/1/2020						<0.003
9/15/2020	<0.003	<0.003	<0.003			
9/16/2020				0.00051 (J)	0.00049 (J)	<0.003
11/10/2020				0.00043 (J)	<0.003	
12/15/2020				0.00031 (J)	0.00047 (J)	
1/19/2021				0.00029 (J)	0.00067 (JB)	
2/8/2021	<0.003					
2/9/2021		0.00062 (JB)	0.00031 (JB)	0.00037 (JB)	0.00042 (J)	
2/15/2021						0.00065 (J)
3/10/2021	<0.003				0.00037 (J)	
3/11/2021		<0.003	<0.003	0.00057 (J)		
3/12/2021						<0.003
8/11/2021	<0.003			<0.003		
8/12/2021		<0.003	<0.003			
8/13/2021					<0.003	
8/17/2021						<0.003
2/1/2022	<0.003	<0.003	<0.003	<0.003	0.0013 (J)	
2/9/2022						<0.003
8/2/2022	<0.003	<0.003	<0.003	<0.003	<0.003	
8/3/2022						0.0018 (J)

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.003	<0.003	
5/23/2016	<0.003	<0.003	<0.003			<0.003
7/12/2016	<0.003	<0.003	0.0003 (J)	<0.003	<0.003	<0.003
9/1/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/20/2016				<0.003	<0.003	<0.003
10/24/2016	<0.003	<0.003	<0.003			
12/6/2016				<0.003	<0.003	<0.003
12/7/2016	<0.003	<0.003	<0.003			
1/25/2017				<0.003	<0.003	
1/26/2017	<0.003	<0.003	<0.003			<0.003
3/21/2017				<0.003	<0.003	
3/22/2017	<0.003	<0.003	<0.003			<0.003
5/23/2017				<0.003	<0.003	<0.003
5/24/2017	<0.003	<0.003	<0.003			
4/3/2018				<0.003	<0.003	<0.003
4/4/2018	<0.003	<0.003	<0.003			
3/12/2019					<0.003	
3/13/2019	<0.003		<0.003	<0.003		<0.003
3/14/2019		<0.003				
4/2/2019				<0.003		
4/3/2019	<0.003	<0.003			<0.003	<0.003
4/5/2019			0.00021 (J)			
9/24/2019					<0.003	
9/25/2019				<0.003		
9/26/2019			<0.003			
9/27/2019	<0.003	<0.003				<0.003
3/3/2020	<0.003	<0.003			<0.003	
3/4/2020			0.00061 (J)	<0.003		0.00032 (J)
3/26/2020		<0.003				
3/27/2020				<0.003	<0.003	
3/30/2020			0.00036 (J)			
3/31/2020	<0.003					0.00042 (J)
9/16/2020				0.00034 (J)	<0.003	
9/17/2020						<0.003
9/18/2020	0.00038 (J)	<0.003				
9/21/2020			0.00029 (J)			
2/10/2021				<0.003		
2/12/2021	<0.003	<0.003				
2/16/2021					0.00064 (J)	0.00043 (J)
2/22/2021			0.00047 (J)			
3/15/2021				<0.003	<0.003	
3/16/2021	<0.003	<0.003				<0.003
3/17/2021			0.00049 (J)			
8/16/2021				0.0017 (J)		
8/17/2021						<0.003
8/18/2021	<0.003	<0.003			<0.003	
8/19/2021			<0.003			
2/9/2022	<0.003	<0.003				<0.003
2/10/2022			<0.003	<0.003	<0.003	
8/3/2022	<0.003	<0.003	<0.003		<0.003	
8/4/2022						<0.003
8/11/2022				<0.003		

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.003	<0.003		<0.003	<0.003
3/14/2019	<0.003			<0.003		
4/2/2019		<0.003				
4/3/2019	<0.003			<0.003	<0.003	
4/4/2019						0.00016 (J)
4/8/2019			<0.003			
9/25/2019		<0.003				
9/26/2019			<0.003		<0.003	0.0003 (J)
9/27/2019	<0.003			<0.003		
3/2/2020		<0.003				
3/3/2020				<0.003		
3/4/2020	<0.003		0.0017 (J)		0.002 (J)	0.00037 (J)
3/26/2020	<0.003			<0.003		
3/27/2020		<0.003				
3/30/2020			<0.003			
3/31/2020					0.0013 (J)	
4/2/2020						0.0003 (J)
9/17/2020		<0.003			<0.003	
9/18/2020				<0.003		0.00031 (J)
9/21/2020	<0.003		<0.003			
2/11/2021		<0.003				
2/12/2021	<0.003			<0.003		
2/16/2021			<0.003		<0.003	0.00038 (J)
3/12/2021						<0.003
3/15/2021		<0.003				
3/16/2021				<0.003		
3/17/2021	<0.003		<0.003		<0.003	
8/17/2021		<0.003			<0.003	<0.003
8/18/2021	<0.003					
8/19/2021			<0.003	<0.003		
2/9/2022	<0.003			<0.003	<0.003	
2/10/2022		<0.003	<0.003			<0.003
8/3/2022			<0.003			<0.003
8/4/2022	<0.003	<0.003		<0.003	<0.003	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.003	<0.003			
3/13/2019			<0.003	<0.003	0.00086 (J)
4/2/2019	<0.003	<0.003			
4/3/2019			<0.003	<0.003	<0.003
9/24/2019		<0.003			
9/25/2019			<0.003		
9/26/2019	<0.003			<0.003	<0.003
3/2/2020		<0.003	<0.003		
3/3/2020				<0.003	0.0013 (J)
3/4/2020	<0.003				
3/26/2020			<0.003		
3/27/2020	<0.003			<0.003	
3/30/2020		<0.003			<0.003
9/16/2020		<0.003			
9/17/2020			<0.003		
9/21/2020	<0.003			0.0014 (J)	0.00051 (J)
2/10/2021	0.0019 (J)				
2/15/2021		0.00094 (J)			0.0021 (J)
2/16/2021			<0.003	<0.003	
3/15/2021	<0.003	<0.003			<0.003
3/16/2021			<0.003	<0.003	
8/16/2021		<0.003			
8/17/2021			<0.003	<0.003	<0.003
8/18/2021	<0.003				
2/8/2022					<0.003
2/9/2022			<0.003	<0.003	
2/10/2022	<0.003	<0.003			
8/3/2022		<0.003	<0.003	<0.003	
8/4/2022	<0.003				<0.003

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.005	0.00127 (J)	<0.005			
5/23/2016						<0.005
7/11/2016	<0.005	0.002 (J)				
7/12/2016			0.0008 (J)			<0.005
8/30/2016	<0.005	0.0017 (J)	<0.005			
9/1/2016						<0.005
10/19/2016	<0.005	<0.005	<0.005			
10/24/2016						<0.005
12/6/2016	<0.005	<0.005	<0.005			
12/7/2016						<0.005
1/24/2017	<0.005	<0.005	<0.005			
1/26/2017						<0.005
3/21/2017	0.0005 (J)	<0.005	0.0007 (J)			
3/22/2017						<0.005
5/22/2017	<0.005	0.0006 (J)	0.0006 (J)			
5/24/2017						<0.005
4/2/2018	<0.005	<0.005				
4/3/2018			<0.005			
4/4/2018						<0.005
6/4/2018	<0.005	0.00088 (J)	0.0008 (J)			
6/5/2018						<0.005
10/1/2018	<0.005	<0.005	0.0011 (J)			
10/2/2018						<0.005
3/12/2019	<0.005	0.00069 (J)	0.00063 (J)			
3/13/2019						<0.005
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005				
4/3/2019						<0.005
9/23/2019	0.00046 (J)	0.00067 (J)	0.0011 (J)			
9/27/2019						<0.005
3/2/2020	<0.005	0.00043 (J)	0.0004 (J)			
3/3/2020						<0.005
3/25/2020	<0.005	<0.005	<0.005			
4/1/2020						<0.005
9/15/2020	<0.005	<0.005	<0.005			
9/16/2020				<0.005	<0.005	<0.005
11/10/2020				0.0021 (J)	<0.005	
12/15/2020				<0.005	<0.005	
1/19/2021				0.0011 (J)	<0.005	
2/8/2021	<0.005					
2/9/2021		<0.005	<0.005	0.0017 (JB)	0.00083 (J)	
2/15/2021						<0.005
3/10/2021	<0.005				<0.005	
3/11/2021		<0.005	<0.005	0.0013 (J)		
3/12/2021						<0.005
8/11/2021	<0.005			0.0015 (J)		
8/12/2021		<0.005	<0.005			
8/13/2021					<0.005	
8/17/2021						<0.005
2/1/2022	0.0016 (J)	0.0023 (J)	0.0024 (J)	0.0036 (J)	0.0025 (J)	
2/9/2022						<0.005
8/2/2022	<0.005	<0.005	<0.005	<0.005	<0.005	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
8/3/2022						<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	<0.005	
5/23/2016	<0.005	0.0046 (J)	0.329			<0.005
7/12/2016	0.0015 (J)	0.005	0.297	<0.005	<0.005	<0.005
9/1/2016	<0.005	0.0043 (J)	0.314	<0.005	<0.005	<0.005
10/20/2016				<0.005	<0.005	<0.005
10/24/2016	<0.005	0.0049 (J)	0.334			
12/6/2016				<0.005	<0.005	<0.005
12/7/2016	<0.005	0.0046 (J)	0.35			
1/25/2017				<0.005	<0.005	
1/26/2017	<0.005	<0.005	0.424			<0.005
3/21/2017				<0.005	<0.005	
3/22/2017	0.0053	0.0019 (J)	0.419			0.0008 (J)
5/23/2017				<0.005	<0.005	<0.005
5/24/2017	<0.005	0.0022 (J)	0.393			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	0.49			
6/5/2018	0.0012 (J)		0.38	<0.005		
6/6/2018		0.0048 (J)			<0.005	<0.005
10/2/2018				0.0019 (J)	<0.005	<0.005
10/3/2018	<0.005	0.0037 (J)				
10/5/2018			0.34			
3/12/2019					<0.005	
3/13/2019	0.0024 (J)		0.42	<0.005		0.00075 (J)
3/14/2019		0.0026 (J)				
4/2/2019				<0.005		
4/3/2019	0.00094 (J)	0.0022 (J)			<0.005	<0.005
4/5/2019			0.36			
9/24/2019					<0.005	
9/25/2019				<0.005		
9/26/2019			0.44			
9/27/2019	0.0018 (J)	0.0061				0.00037 (J)
3/3/2020	0.0022 (J)	0.0023 (J)			<0.005	
3/4/2020			0.52	<0.005		<0.005
3/26/2020		0.0028 (J)				
3/27/2020				<0.005	<0.005	
3/30/2020			0.47			
3/31/2020	0.0022 (J)					<0.005
9/16/2020				<0.005	<0.005	
9/17/2020						<0.005
9/18/2020	0.00081 (J)	0.0031 (J)				
9/21/2020			0.39			
2/10/2021				<0.005		
2/12/2021	0.002 (J)	0.0045 (J)				
2/16/2021					<0.005	<0.005
2/22/2021			0.45			
3/15/2021				<0.005	<0.005	
3/16/2021	0.0017 (J)	0.0038 (J)				<0.005
3/17/2021			0.39			
8/16/2021				<0.005		
8/17/2021						<0.005
8/18/2021	<0.005	0.0028 (J)			<0.005	
8/19/2021			0.31			

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.0047 (J)	0.0053				0.0021 (J)
2/10/2022			0.38	<0.005	0.002 (J)	
8/3/2022	<0.005	0.0023 (J)	0.4		<0.005	
8/4/2022						<0.005
8/11/2022				<0.005		



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.0023 (J)	<0.005		<0.005	<0.005
3/14/2019	<0.005			0.0019 (J)		
4/2/2019		<0.005				
4/3/2019	<0.005			<0.005	<0.005	
4/4/2019						0.0002 (J)
4/8/2019			<0.005			
9/25/2019		<0.005				
9/26/2019			<0.005		<0.005	<0.005
9/27/2019	<0.005			0.0011 (J)		
3/2/2020		0.00038 (J)				
3/3/2020				0.001 (J)		
3/4/2020	0.00045 (J)		<0.005		0.0006 (J)	0.00069 (J)
3/26/2020	<0.005			0.00075 (J)		
3/27/2020		<0.005				
3/30/2020			<0.005			
3/31/2020					<0.005	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		<0.005
9/21/2020	<0.005		<0.005			
2/11/2021		0.00094 (J)				
2/12/2021	<0.005			<0.005		
2/16/2021			<0.005		0.0008 (J)	0.001 (J)
3/12/2021						<0.005
3/15/2021		<0.005				
3/16/2021				<0.005		
3/17/2021	<0.005		<0.005		<0.005	
8/17/2021		<0.005			<0.005	<0.005
8/18/2021	<0.005					
8/19/2021			<0.005	<0.005		
2/9/2022	<0.005			<0.005	0.0017 (J)	
2/10/2022		<0.005	<0.005			<0.005
8/3/2022			<0.005			<0.005
8/4/2022	<0.005	<0.005		<0.005	<0.005	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			<0.005	<0.005	<0.005
4/2/2019	<0.005	<0.005			
4/3/2019			<0.005	<0.005	<0.005
9/24/2019		<0.005			
9/25/2019			<0.005		
9/26/2019	<0.005			<0.005	<0.005
3/2/2020		<0.005	<0.005		
3/3/2020				<0.005	<0.005
3/4/2020	<0.005				
3/26/2020			<0.005		
3/27/2020	<0.005			<0.005	
3/30/2020		0.00037 (J)			<0.005
9/16/2020		<0.005			
9/17/2020			<0.005		
9/21/2020	<0.005			<0.005	<0.005
2/10/2021	0.0011 (J)				
2/15/2021		<0.005			<0.005
2/16/2021			<0.005	<0.005	
3/15/2021	<0.005	<0.005			<0.005
3/16/2021			<0.005	<0.005	
8/16/2021		<0.005			
8/17/2021			<0.005	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					<0.005
2/9/2022			0.0013 (J)	0.0034 (J)	
2/10/2022	<0.005	<0.005			
8/3/2022		<0.005	<0.005	<0.005	
8/4/2022	<0.005				<0.005

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	0.0346	0.114	0.111			
5/23/2016						0.0877
7/11/2016	0.0311	0.112				
7/12/2016			0.115			0.0926
8/30/2016	0.0293	0.131	0.113			
9/1/2016						0.0994
10/19/2016	0.0293	0.111	0.123			
10/24/2016						0.101
12/6/2016	0.0304	0.108	0.127			
12/7/2016						0.107
1/24/2017	0.028	0.102	0.126			
1/26/2017						0.0538
3/21/2017	0.0275	0.095	0.12			
3/22/2017						0.0962
5/22/2017	0.0281	0.103	0.117			
5/24/2017						0.0996
4/2/2018	0.026	0.099				
4/3/2018			0.11			
4/4/2018						0.084
6/4/2018	0.035	0.11	0.12			
6/5/2018						0.086
10/1/2018	0.029	0.11	0.14			
10/2/2018						0.076
3/12/2019	0.042	0.12	0.13			
3/13/2019						0.044
4/1/2019			0.13			
4/2/2019	0.04	0.13				
4/3/2019						0.076
9/23/2019	0.042	0.13	0.13			
9/27/2019						0.078
3/2/2020	0.034	0.11	0.14			
3/3/2020						0.048
3/25/2020	0.043	0.12	0.13			
4/1/2020						0.058
9/15/2020	0.035	0.12	0.12			
9/16/2020				0.26	0.24	0.068
11/10/2020				0.25	0.38	
12/15/2020				0.29	0.39	
1/19/2021				0.32	0.41	
2/8/2021	0.032					
2/9/2021		0.12	0.13	0.34	0.46	
2/15/2021						0.06
3/10/2021	0.03				0.26	
3/11/2021		0.07	0.13	0.32		
3/12/2021						0.058
8/11/2021	0.03			0.28		
8/12/2021		0.12	0.11			
8/13/2021					0.22	
8/17/2021						0.055
2/1/2022	0.031	0.13	0.12	0.29	0.23	
2/9/2022						0.042
8/2/2022	0.039	0.11	0.16	0.35	0.37	

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
8/3/2022						0.069

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.0687	0.0808	
5/23/2016	0.0466	0.133	0.0779			0.117
7/12/2016	0.0616	0.135	0.0697	0.0731	0.083	0.13
9/1/2016	0.0497	0.123	0.07	0.0747	0.0829	0.13
10/20/2016				0.072	0.0811	0.0806
10/24/2016	0.0794	0.135	0.0882			
12/6/2016				0.0752	0.0845	0.128
12/7/2016	0.1	0.13	0.0798			
1/25/2017				0.0747	0.078	
1/26/2017	0.0696	0.127	0.0738			0.142
3/21/2017				0.0722	0.0791	
3/22/2017	0.0346	0.112	0.0755			0.122
5/23/2017				0.0794	0.0846	0.127
5/24/2017	0.0437	0.106	0.0627			
4/3/2018				0.075	0.065	0.1
4/4/2018	0.029	0.083	0.099			
6/5/2018	0.039		0.13	0.071		
6/6/2018		0.09			0.063	0.11
10/2/2018				0.078	0.061	0.11
10/3/2018	0.033	0.087				
10/5/2018			0.076			
3/12/2019					0.062	
3/13/2019	0.024		0.1	0.083		0.1
3/14/2019		0.081				
4/2/2019				0.072		
4/3/2019	0.023	0.077			0.066	0.12
4/5/2019			0.079			
9/24/2019					0.053	
9/25/2019				0.061		
9/26/2019			0.11			
9/27/2019	0.033	0.096				0.11
3/3/2020	0.022	0.092			0.052	
3/4/2020			0.1	0.068		0.11
3/26/2020		0.089				
3/27/2020				0.059	0.059	
3/30/2020			0.08			
3/31/2020	0.026					0.11
9/16/2020				0.068	0.06	
9/17/2020						0.11
9/18/2020	0.043	0.086				
9/21/2020			0.052			
2/10/2021				0.069		
2/12/2021	0.039	0.09				
2/16/2021					0.069	0.11
2/22/2021			0.061			
3/15/2021				0.074	0.063	
3/16/2021	0.035	0.084				0.11
3/17/2021			0.056			
8/16/2021				0.068		
8/17/2021						0.095
8/18/2021	0.04	0.083			0.062	
8/19/2021			0.049			

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.042	0.075				0.096
2/10/2022			0.053	0.063	0.056	
8/3/2022	0.041	0.086	0.07		0.06	
8/4/2022						0.091
8/11/2022				0.071		

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.087	0.053		0.099	1.5
3/14/2019	0.06			0.44		
4/2/2019		0.08				
4/3/2019	0.05			0.38	0.12	
4/4/2019						1.2
4/8/2019			0.043			
9/25/2019		0.085				
9/26/2019			0.12		0.12	0.95
9/27/2019	0.068			0.39		
3/2/2020		0.099				
3/3/2020				0.42		
3/4/2020	0.069		0.081		0.17	0.95
3/26/2020	0.067			0.45		
3/27/2020		0.093				
3/30/2020			0.056			
3/31/2020					0.11	
4/2/2020						1
9/17/2020		0.096			0.099	
9/18/2020				0.44		1
9/21/2020	0.056		0.053			
2/11/2021		0.093				
2/12/2021	0.051			0.46		
2/16/2021			0.062		0.093	1
3/12/2021						1.1
3/15/2021		0.096				
3/16/2021				0.51		
3/17/2021	0.049		0.055		0.094	
8/17/2021		0.089			0.072	1.1
8/18/2021	0.045					
8/19/2021			0.048	0.58		
2/9/2022	0.042			0.6	0.066	
2/10/2022		0.082	0.048			0.99
8/3/2022			0.053			0.94
8/4/2022	0.05	0.093		0.75	0.062	

# Time Series

Constituent: Barium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.82	0.089			
3/13/2019			0.056	0.1	0.063
4/2/2019	0.37	0.078			
4/3/2019			0.049	0.09	0.058
9/24/2019		0.081			
9/25/2019			0.046		
9/26/2019	0.15			0.089	0.066
3/2/2020		0.088	0.049		
3/3/2020				0.09	0.043
3/4/2020	0.77				
3/26/2020			0.046		
3/27/2020	0.64			0.086	
3/30/2020		0.08			0.05
9/16/2020		0.076			
9/17/2020			0.043		
9/21/2020	0.18			0.083	0.065
2/10/2021	0.26				
2/15/2021		0.081			0.048
2/16/2021			0.05	0.085	
3/15/2021	0.45	0.078			0.053
3/16/2021			0.046	0.081	
8/16/2021		0.074			
8/17/2021			0.045	0.081	0.057
8/18/2021	0.53				
2/8/2022					0.053
2/9/2022			0.042	0.074	
2/10/2022	0.76	0.072			
8/3/2022		0.081	0.058	0.084	
8/4/2022	0.7				0.064



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.0005	<0.0005	<0.0005			
5/23/2016						<0.0005
7/11/2016	<0.0005	0.0001 (J)				
7/12/2016			<0.0005			<0.0005
8/30/2016	<0.0005	<0.0005	<0.0005			
9/1/2016						<0.0005
10/19/2016	<0.0005	0.0001 (J)	<0.0005			
10/24/2016						<0.0005
12/6/2016	<0.0005	0.0002 (J)	<0.0005			
12/7/2016						<0.0005
1/24/2017	<0.0005	0.0001 (J)	<0.0005			
1/26/2017						<0.0005
3/21/2017	<0.0005	0.0001 (J)	<0.0005			
3/22/2017						<0.0005
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/24/2017						<0.0005
4/2/2018	<0.0005	<0.0005				
4/3/2018			<0.0005			
4/4/2018						<0.0005
3/12/2019	<0.0005	0.00017 (J)	<0.0005			
3/13/2019						<0.0005
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)				
4/3/2019						<0.0005
9/23/2019	<0.0005	0.00011 (J)	<0.0005			
9/27/2019						<0.0005
3/2/2020	<0.0005	0.00014 (J)	<0.0005			
3/3/2020						<0.0005
3/25/2020	<0.0005	0.00016 (J)	<0.0005			
4/1/2020						<0.0005
9/15/2020	<0.0005	0.00013 (J)	<0.0005			
9/16/2020				<0.0005	<0.0005	<0.0005
11/10/2020				<0.0005	<0.0005	
12/15/2020				<0.0005	<0.0005	
1/19/2021				<0.0005	<0.0005	
2/8/2021	<0.0005					
2/9/2021		0.00014 (J)	<0.0005	<0.0005	<0.0005	
2/15/2021						<0.0005
3/10/2021	<0.0005				<0.0005	
3/11/2021		8.6E-05 (J)	<0.0005	<0.0005		
3/12/2021						<0.0005
8/11/2021	<0.0005			<0.0005		
8/12/2021		0.00014 (J)	<0.0005			
8/13/2021					<0.0005	
8/17/2021						<0.0005
2/1/2022	<0.0005	0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/9/2022						<0.0005
8/2/2022	<0.0005	0.00019 (J)	<0.0005	<0.0005	<0.0005	
8/3/2022						<0.0005

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0005	<0.0005	
5/23/2016	<0.0005	<0.0005	<0.0005			<0.0005
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/20/2016				<0.0005	<0.0005	<0.0005
10/24/2016	<0.0005	<0.0005	<0.0005			
12/6/2016				<0.0005	<0.0005	<0.0005
12/7/2016	<0.0005	<0.0005	<0.0005			
1/25/2017				<0.0005	<0.0005	
1/26/2017	<0.0005	<0.0005	<0.0005			<0.0005
3/21/2017				<0.0005	<0.0005	
3/22/2017	9E-05 (J)	<0.0005	<0.0005			<0.0005
5/23/2017				<0.0005	<0.0005	<0.0005
5/24/2017	<0.0005	<0.0005	<0.0005			
4/3/2018				<0.0005	<0.0005	<0.0005
4/4/2018	<0.0005	<0.0005	<0.0005			
3/12/2019					<0.0005	
3/13/2019	0.0001 (J)		6.2E-05 (J)	<0.0005		<0.0005
3/14/2019		<0.0005				
4/2/2019				<0.0005		
4/3/2019	0.00017 (J)	<0.0005			7.4E-05 (J)	<0.0005
4/5/2019			<0.0005			
9/24/2019					<0.0005	
9/25/2019				<0.0005		
9/26/2019			0.00011 (J)			
9/27/2019	8.6E-05 (J)	<0.0005				<0.0005
3/3/2020	0.00012 (J)	<0.0005			<0.0005	
3/4/2020			9.3E-05 (J)	7.7E-05 (J)		<0.0005
3/26/2020		<0.0005				
3/27/2020				<0.0005	<0.0005	
3/30/2020			9.9E-05 (J)			
3/31/2020	0.00015 (J)					<0.0005
9/16/2020				<0.0005	0.0001 (J)	
9/17/2020						<0.0005
9/18/2020	<0.0005	<0.0005				
9/21/2020			0.00011 (J)			
2/10/2021				8.1E-05 (J)		
2/12/2021	<0.0005	<0.0005				
2/16/2021					7.1E-05 (J)	<0.0005
2/22/2021			9.7E-05 (J)			
3/15/2021				0.00019 (J)	7.8E-05 (J)	
3/16/2021	8.1E-05 (J)	<0.0005				<0.0005
3/17/2021			9E-05 (J)			
8/16/2021				<0.0005		
8/17/2021						<0.0005
8/18/2021	<0.0005	<0.0005			8.7E-05 (J)	
8/19/2021			7.3E-05 (J)			
2/9/2022	<0.0005	<0.0005				<0.0005
2/10/2022			<0.0005	<0.0005	7.1E-05 (J)	
8/3/2022	<0.0005	<0.0005	<0.0005		5.6E-05 (J)	
8/4/2022						<0.0005
8/11/2022				<0.0005		

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.0005	<0.0005		<0.0005	<0.0005
3/14/2019	<0.0005			<0.0005		
4/2/2019		<0.0005				
4/3/2019	<0.0005			<0.0005	<0.0005	
4/4/2019						<0.0005
4/8/2019			<0.0005			
9/25/2019		<0.0005				
9/26/2019			<0.0005		<0.0005	<0.0005
9/27/2019	<0.0005			<0.0005		
3/2/2020		<0.0005				
3/3/2020				<0.0005		
3/4/2020	<0.0005		<0.0005		<0.0005	<0.0005
3/26/2020	<0.0005			<0.0005		
3/27/2020		<0.0005				
3/30/2020			<0.0005			
3/31/2020					<0.0005	
4/2/2020						<0.0005
9/17/2020		<0.0005			<0.0005	
9/18/2020				<0.0005		<0.0005
9/21/2020	<0.0005		<0.0005			
2/11/2021		<0.0005				
2/12/2021	<0.0005			<0.0005		
2/16/2021			<0.0005		<0.0005	<0.0005
3/12/2021						<0.0005
3/15/2021		<0.0005				
3/16/2021				<0.0005		
3/17/2021	<0.0005		<0.0005		<0.0005	
8/17/2021		<0.0005			<0.0005	<0.0005
8/18/2021	5.8E-05 (J)					
8/19/2021			<0.0005	<0.0005		
2/9/2022	<0.0005			<0.0005	<0.0005	
2/10/2022		<0.0005	<0.0005			<0.0005
8/3/2022			<0.0005			<0.0005
8/4/2022	<0.0005	<0.0005		<0.0005	<0.0005	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.0005	<0.0005			
3/13/2019			<0.0005	<0.0005	<0.0005
4/2/2019	<0.0005	<0.0005			
4/3/2019			<0.0005	<0.0005	5.1E-05 (J)
9/24/2019		<0.0005			
9/25/2019			<0.0005		
9/26/2019	<0.0005			<0.0005	<0.0005
3/2/2020		<0.0005	<0.0005		
3/3/2020				<0.0005	<0.0005
3/4/2020	0.00014 (J)				
3/26/2020			<0.0005		
3/27/2020	<0.0005			<0.0005	
3/30/2020		<0.0005			<0.0005
9/16/2020		<0.0005			
9/17/2020			<0.0005		
9/21/2020	<0.0005			<0.0005	<0.0005
2/10/2021	5.4E-05 (J)				
2/15/2021		<0.0005			<0.0005
2/16/2021			<0.0005	<0.0005	
3/15/2021	4.8E-05 (J)	<0.0005			<0.0005
3/16/2021			<0.0005	<0.0005	
8/16/2021		<0.0005			
8/17/2021			<0.0005	<0.0005	<0.0005
8/18/2021	<0.0005				
2/8/2022					<0.0005
2/9/2022			<0.0005	<0.0005	
2/10/2022	<0.0005	<0.0005			
8/3/2022		<0.0005	<0.0005	<0.0005	
8/4/2022	<0.0005				<0.0005

# Time Series

Constituent: Boron (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	0.0214 (J)	0.0321 (J)	<0.04			
5/23/2016						0.72
7/11/2016	0.0142 (J)	0.0337 (J)				
7/12/2016			0.0074 (J)			0.778
8/30/2016	0.0074 (J)	0.0173 (J)	<0.04			
9/1/2016						0.786
10/19/2016	0.0224 (J)	0.0341 (J)	0.0085 (J)			
10/24/2016						0.831
12/6/2016	0.0211 (J)	0.0326 (J)	0.0085 (J)			
12/7/2016						1.01
1/24/2017	0.0165 (J)	0.0365 (J)	0.01 (J)			
1/26/2017						0.108
3/21/2017	0.0187 (J)	0.0349 (J)	0.0079 (J)			
3/22/2017						0.788
5/22/2017	0.0782	0.0475	0.0131 (J)			
5/24/2017						0.814
10/3/2017	0.0198 (J)	0.0386 (J)	0.0097 (J)			0.871
6/4/2018	0.02 (J)	0.036 (J)	0.017 (J)			
6/5/2018						1.2
10/1/2018	0.013 (J)	0.035 (J)	0.0061 (J)			
10/2/2018						0.62
4/1/2019			0.0066 (J)			
4/2/2019	0.016 (J)	0.034 (J)				
4/3/2019						0.66
9/23/2019	0.021 (J)	0.04 (J)	0.0081 (J)			
9/27/2019						1
3/25/2020	0.025 (J)	0.039 (J)	0.0096 (J)			
4/1/2020						0.23
6/16/2020	0.021 (J)		0.01 (J)			
9/15/2020	0.017 (J)	0.044 (J)	0.0071 (J)			
9/16/2020				0.061 (J)	0.23	1.1
11/10/2020				0.057 (J)	0.29	
12/15/2020				0.052 (J)	0.31	
1/19/2021				0.049 (J)	0.4	
3/10/2021	0.015 (J)				0.39	
3/11/2021		0.056	0.015 (J)	0.06		
3/12/2021						0.64
8/11/2021	0.02 (J)			0.042		
8/12/2021		0.044	<0.04			
8/13/2021					0.31	
8/17/2021						0.88
2/1/2022	0.016 (J)	0.056	0.011 (J)	0.05	0.44	
2/9/2022						0.1
8/2/2022	0.012 (J)	0.047	<0.04	0.043	0.31	
8/3/2022						0.53

# Time Series

Constituent: Boron (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.885	1.71	
5/23/2016	0.787	2.2	2.15			1.76
7/12/2016	1.17	1.98	1.91	0.857	1.43	1.56
9/1/2016	1.49	2.28	2.3	0.904	1.91	2
10/20/2016				0.936	1.72	1.68
10/24/2016	2.54	2.75	4.01			
12/6/2016				1.06	2.06	2.15
12/7/2016	2.96	3.35	3.85			
1/25/2017				0.764	2.01	
1/26/2017	2.23	3.07	2.45			1.87
3/21/2017				0.857	2.08	
3/22/2017	0.84	3.04	1.99			1.99
5/23/2017				0.91	2.32	2.29
5/24/2017	2.29	2.95	1.74			
10/3/2017	1.47	2.35	1.43	0.967	2.84	2.05
6/5/2018	1.3		1.3	0.86		
6/6/2018		2.5			2.6	2.3
10/2/2018				0.98	2.7	2.5
10/3/2018	0.91	2.3				
10/5/2018			1.6			
4/2/2019				0.99		
4/3/2019	0.23	1.8			2.8	2.3
4/5/2019			0.86 (J)			
9/24/2019					2.8	
9/25/2019				1.1		
9/26/2019			1.7			
9/27/2019	0.53	2.1				2.9
3/26/2020		1.6				
3/27/2020				1.2	2.4	
3/30/2020			1.8			
3/31/2020	0.17					2.2
6/16/2020					2.2	
6/17/2020				1		
9/16/2020				1.1	1.9	
9/17/2020						2
9/18/2020	0.91	1.6				
9/21/2020			1.6			
3/15/2021				1.1	1.7	
3/16/2021	0.53	1.9				2.2
3/17/2021			0.89			
8/16/2021				1.1		
8/17/2021						2.3
8/18/2021	0.91	1.9			1.8	
8/19/2021			0.73			
2/9/2022	1	2				2.3
2/10/2022			1	1.3	1.7	
8/3/2022	0.64	1.5	0.76		1.5	
8/4/2022						2
8/11/2022				1.1		

# Time Series

Constituent: Boron (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		0.11				
4/3/2019	0.63			0.37	1.5	
4/4/2019						0.12 (J)
4/8/2019			0.47 (J)			
9/25/2019		0.091				
9/26/2019			0.49		2	0.14
9/27/2019	0.58			0.36		
3/26/2020	1			0.44		
3/27/2020		0.12				
3/30/2020			0.51			
3/31/2020					1.8	
4/2/2020						0.13
9/17/2020		0.11			2	
9/18/2020				0.36		0.12
9/21/2020	0.89		0.45			
3/12/2021						0.13
3/15/2021		0.12				
3/16/2021				0.4		
3/17/2021	0.69		0.49		2.1	
8/17/2021		0.11			2.2	0.14
8/18/2021	0.55					
8/19/2021			0.52	0.4		
2/9/2022	0.49			0.43	2.3	
2/10/2022		0.13	0.55			0.13
8/3/2022			0.49			0.12
8/4/2022	0.58	0.11		0.35	2	

# Time Series

Constituent: Boron (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	0.17	1.2			
4/3/2019			0.03 (J)	0.67	0.094
9/24/2019		1.2			
9/25/2019			0.11		
9/26/2019	0.6			0.93	0.26
3/26/2020			0.041 (J)		
3/27/2020	0.14			0.77	
3/30/2020		1.3			0.051 (J)
9/16/2020		1.7			
9/17/2020			0.067 (J)		
9/21/2020	0.45			0.82	0.2
3/15/2021	0.36	1.2			0.16
3/16/2021			0.037 (J)	0.81	
8/16/2021		1.1			
8/17/2021			0.026 (J)	0.85	0.2
8/18/2021	0.72				
2/8/2022					0.19
2/9/2022			0.042	0.96	
2/10/2022	0.23	1.4			
8/3/2022		1.1	0.034 (J)	0.75	
8/4/2022	0.55				0.14



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.0005	<0.0005	<0.0005			
5/23/2016						0.000115 (J)
7/11/2016	<0.0005	<0.0005				
7/12/2016			<0.0005			<0.0005
8/30/2016	<0.0005	<0.0005	<0.0005			
9/1/2016						0.0001 (J)
10/19/2016	<0.0005	<0.0005	<0.0005			
10/24/2016						0.0001 (J)
12/6/2016	<0.0005	<0.0005	<0.0005			
12/7/2016						0.0001 (J)
1/24/2017	<0.0005	0.0001 (J)	<0.0005			
1/26/2017						<0.0005
3/21/2017	<0.0005	7E-05 (J)	<0.0005			
3/22/2017						0.0001 (J)
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/24/2017						0.0002 (J)
4/2/2018	<0.0005	<0.0005				
4/3/2018			<0.0005			
4/4/2018						<0.0005
3/12/2019	<0.0005	0.00013 (J)	<0.0005			
3/13/2019						<0.0005
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)				
4/3/2019						0.0001 (J)
9/23/2019	<0.0005	<0.0005	<0.0005			
9/27/2019						<0.0005
3/2/2020	<0.0005	<0.0005	<0.0005			
3/3/2020						<0.0005
3/25/2020	<0.0005	0.00014 (J)	<0.0005			
4/1/2020						<0.0005
9/15/2020	<0.0005	0.00012 (J)	<0.0005			
9/16/2020				<0.0005	<0.0005	<0.0005
11/10/2020				<0.0005	<0.0005	
12/15/2020				<0.0005	<0.0005	
1/19/2021				<0.0005	<0.0005	
2/8/2021	<0.0005					
2/9/2021		0.00016 (J)	<0.0005	<0.0005	<0.0005	
2/15/2021						<0.0005
3/10/2021	<0.0005				<0.0005	
3/11/2021		<0.0005	<0.0005	<0.0005		
3/12/2021						<0.0005
8/11/2021	<0.0005			<0.0005		
8/12/2021		0.00014 (J)	<0.0005			
8/13/2021					<0.0005	
8/17/2021						<0.0005
2/1/2022	<0.0005	0.00017 (J)	<0.0005	<0.0005	<0.0005	
2/9/2022						<0.0005
8/2/2022	<0.0005	0.00023 (J)	<0.0005	<0.0005	<0.0005	
8/3/2022						<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0005	0.00024 (J)	
5/23/2016	<0.0005	<0.0005	<0.0005			<0.0005
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005	0.0002 (J)	<0.0005
9/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	0.0001 (J)	<0.0005
10/20/2016				<0.0005	0.0001 (J)	0.0002 (J)
10/24/2016	<0.0005	<0.0005	<0.0005			
12/6/2016				0.0002 (J)	0.0017	0.0001 (J)
12/7/2016	0.0001 (J)	0.0002 (J)	<0.0005			
1/25/2017				0.0002 (J)	0.0002 (J)	
1/26/2017	<0.0005	<0.0005	<0.0005			<0.0005
3/21/2017				0.0002 (J)	0.0002 (J)	
3/22/2017	0.0001 (J)	0.0003 (J)	<0.0005			7E-05 (J)
5/23/2017				0.0001 (J)	0.0003 (J)	<0.0005
5/24/2017	<0.0005	9E-05 (J)	<0.0005			
4/3/2018				<0.0005	<0.0005	<0.0005
4/4/2018	<0.0005	<0.0005	<0.0005			
3/12/2019					0.0002 (J)	
3/13/2019	<0.0005		<0.0005	<0.0005		<0.0005
3/14/2019		<0.0005				
4/2/2019				<0.0005		
4/3/2019	9.6E-05 (J)	<0.0005			0.00032 (J)	<0.0005
4/5/2019			<0.0005			
9/24/2019					0.0002 (J)	
9/25/2019				<0.0005		
9/26/2019			<0.0005			
9/27/2019	<0.0005	<0.0005				<0.0005
3/3/2020	<0.0005	0.00015 (J)			0.00017 (J)	
3/4/2020			<0.0005	<0.0005		<0.0005
3/26/2020		<0.0005				
3/27/2020				<0.0005	0.00014 (J)	
3/30/2020			<0.0005			
3/31/2020	<0.0005					<0.0005
9/16/2020				<0.0005	0.00023 (J)	
9/17/2020						<0.0005
9/18/2020	<0.0005	<0.0005				
9/21/2020			<0.0005			
2/10/2021				<0.0005		
2/12/2021	<0.0005	<0.0005				
2/16/2021					0.00037 (J)	<0.0005
2/22/2021			<0.0005			
3/15/2021				<0.0005	0.00017 (J)	
3/16/2021	<0.0005	<0.0005				<0.0005
3/17/2021			<0.0005			
8/16/2021				<0.0005		
8/17/2021						<0.0005
8/18/2021	<0.0005	<0.0005			0.0002 (J)	
8/19/2021			<0.0005			
2/9/2022	<0.0005	<0.0005				<0.0005
2/10/2022			<0.0005	<0.0005	0.00029 (J)	
8/3/2022	<0.0005	<0.0005	<0.0005		0.00017 (J)	
8/4/2022						<0.0005
8/11/2022				<0.0005		

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.0005	<0.0005		<0.0005	<0.0005
3/14/2019	<0.0005			<0.0005		
4/2/2019		<0.0005				
4/3/2019	<0.0005			<0.0005	<0.0005	
4/4/2019						<0.0005
4/8/2019			<0.0005			
9/25/2019		<0.0005				
9/26/2019			<0.0005		<0.0005	<0.0005
9/27/2019	0.00013 (J)			<0.0005		
3/2/2020		<0.0005				
3/3/2020				<0.0005		
3/4/2020	0.00026 (J)		<0.0005		<0.0005	<0.0005
3/26/2020	0.00019 (J)			<0.0005		
3/27/2020		<0.0005				
3/30/2020			<0.0005			
3/31/2020					<0.0005	
4/2/2020						<0.0005
9/17/2020		<0.0005			<0.0005	
9/18/2020				<0.0005		<0.0005
9/21/2020	0.00018 (J)		<0.0005			
2/11/2021		<0.0005				
2/12/2021	0.0002 (J)			<0.0005		
2/16/2021			<0.0005		<0.0005	<0.0005
3/12/2021						<0.0005
3/15/2021		<0.0005				
3/16/2021				<0.0005		
3/17/2021	0.00016 (J)		<0.0005		<0.0005	
8/17/2021		<0.0005			<0.0005	<0.0005
8/18/2021	0.00027 (J)					
8/19/2021			<0.0005	<0.0005		
2/9/2022	0.0011			<0.0005	<0.0005	
2/10/2022		<0.0005	<0.0005			<0.0005
8/3/2022			<0.0005			<0.0005
8/4/2022	0.00022 (J)	<0.0005		<0.0005	<0.0005	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.0005	<0.0005			
3/13/2019			<0.0005	<0.0005	<0.0005
4/2/2019	<0.0005	<0.0005			
4/3/2019			<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005			
9/25/2019			<0.0005		
9/26/2019	<0.0005			<0.0005	<0.0005
3/2/2020		<0.0005	<0.0005		
3/3/2020				<0.0005	<0.0005
3/4/2020	<0.0005				
3/26/2020			<0.0005		
3/27/2020	<0.0005			<0.0005	
3/30/2020		<0.0005			<0.0005
9/16/2020		<0.0005			
9/17/2020			<0.0005		
9/21/2020	<0.0005			<0.0005	<0.0005
2/10/2021	<0.0005				
2/15/2021		<0.0005			<0.0005
2/16/2021			<0.0005	<0.0005	
3/15/2021	<0.0005	<0.0005			<0.0005
3/16/2021			<0.0005	<0.0005	
8/16/2021		<0.0005			
8/17/2021			<0.0005	<0.0005	<0.0005
8/18/2021	<0.0005				
2/8/2022					<0.0005
2/9/2022			<0.0005	<0.0005	
2/10/2022	<0.0005	<0.0005			
8/3/2022		<0.0005	<0.0005	<0.0005	
8/4/2022	<0.0005				<0.0005

# Time Series

Constituent: Calcium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	138	22.9	76.2			
5/23/2016						167
7/11/2016	97.2	22.3				
7/12/2016			61.5			143
8/30/2016	97.5	26.4	65.1			
9/1/2016						156
10/19/2016	99.2	21.7	73.2			
10/24/2016						156
12/6/2016	105	18.2	74.9			
12/7/2016						183
1/24/2017	95.7	18.5	69.6			
1/26/2017						82.6
3/21/2017	106	18.6	75.7			
3/22/2017						154
5/22/2017	107	17.8	71.5			
5/24/2017						171
10/3/2017	102	20.2	76.3			162
6/4/2018	124	19.1	73.4			
6/5/2018						167
10/1/2018	108	20.5 (J)	80.9			
10/2/2018						144
4/1/2019			80.5			
4/2/2019	132	22.5 (J)				
4/3/2019						137
9/23/2019	118	19.5	71			
9/27/2019						157
3/25/2020	127	23	89.8			
4/1/2020						96.2
6/16/2020	130		85.1			
9/15/2020	103	21.1	73.1			
9/16/2020				56	30	139
11/10/2020				63.3	33.6	
12/15/2020				62.6	28.7	
1/19/2021				60.1	33	
3/10/2021	111				5.9	
3/11/2021		43.8	83.8	59.6		
3/12/2021						146 (M1)
8/11/2021	113			61		
8/12/2021		21.9	84			
8/13/2021					28.9	
8/17/2021						153
2/1/2022	106	27.2	85.1	55.9	24.8	
2/9/2022						76.8
8/2/2022	117	31.2	84.6	54.1	20.9	
8/3/2022						125

# Time Series

Constituent: Calcium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				117	159	
5/23/2016	131	195	133			179
7/12/2016	124	181	101	88.8	127	174
9/1/2016	107	179	120	96.3	135	170
10/20/2016				96.9	134	133
10/24/2016	145	193	127			
12/6/2016				104	142	181
12/7/2016	159	193	113			
1/25/2017				94.5	142	
1/26/2017	121	172	77.9			175
3/21/2017				109	148	
3/22/2017	130	162	85.1			183
5/23/2017				93.3	140	181
5/24/2017	117	158	77.1			
10/3/2017	87.7	130	62	108	158	188
6/5/2018	113		110	99.8		
6/6/2018		136			127	184
10/2/2018				108	118	173
10/3/2018	89	125				
10/5/2018			73.6			
4/2/2019				101		
4/3/2019	112	114			125	164
4/5/2019			77.1			
9/24/2019					113	
9/25/2019				105		
9/26/2019			195			
9/27/2019	113	153				175
3/26/2020		145				
3/27/2020				119	133	
3/30/2020			234			
3/31/2020	124					182
6/16/2020					120	
6/17/2020				112		
9/16/2020				98	119	
9/17/2020						164
9/18/2020	122	163				
9/21/2020			173			
3/15/2021				113	156	
3/16/2021	132	166				182
3/17/2021			184			
8/16/2021				112		
8/17/2021						183
8/18/2021	128	163			147	
8/19/2021			179			
2/9/2022	144	172				183
2/10/2022			206	108	153	
8/3/2022	131	167	237		153	
8/4/2022						196
8/11/2022				119		

# Time Series

Constituent: Calcium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		109				
4/3/2019	74.9			25.4	122	
4/4/2019						26.3
4/8/2019			83			
9/25/2019		113				
9/26/2019			83.1		158	32.1
9/27/2019	90			26.4		
3/26/2020	171			27		
3/27/2020		126				
3/30/2020			84.4			
3/31/2020					155	
4/2/2020						28.4
9/17/2020		110			150	
9/18/2020				25.1		24.8
9/21/2020	135		87.6			
3/12/2021						28
3/15/2021		121				
3/16/2021				24.8		
3/17/2021	130		102		175	
8/17/2021		123			177	28.5
8/18/2021	125					
8/19/2021			99.5	23.8		
2/9/2022	97.6			23.5	176	
2/10/2022		123	110			31.4
8/3/2022			102			30.8
8/4/2022	187	131		22	186	

# Time Series

Constituent: Calcium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	64.6	131			
4/3/2019			82	178	50.2
9/24/2019		140			
9/25/2019			105		
9/26/2019	84			189	83.9
3/26/2020			89.6		
3/27/2020	53			186	
3/30/2020		148			31.1
9/16/2020		126			
9/17/2020			103		
9/21/2020	76.8			173	75.3
3/15/2021	66.1	145			76.9
3/16/2021			71.8	184	
8/16/2021		140			
8/17/2021			73.3	181	90.7
8/18/2021	82.8				
2/8/2022					73.3
2/9/2022			68.1	178	
2/10/2022	58.5	156			
8/3/2022		143	86.6	176	
8/4/2022	76.7				73.1



# Time Series

Constituent: Chloride (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	9.94	6.14	5.93			
5/23/2016						56.1
7/11/2016	6.3	5.9				
7/12/2016			6.2			63
8/30/2016	6	6.2	6.4			
9/1/2016						77
10/19/2016	5.8	6.1	6.5			
10/24/2016						99
12/6/2016	5.4	6	7.2			
12/7/2016						96
1/24/2017	5.2	6.1	6.4			
1/26/2017						7
3/21/2017	4.6	5.9	7.5			
3/22/2017						82
5/22/2017	4.6	5.9	6.5			
5/24/2017						81
10/3/2017	5.6	6.3	6.5			100
6/4/2018	13.1	6.1	6.3			
6/5/2018						66.6
10/1/2018	6.6	6.4	6.4			
10/2/2018						48.3
4/1/2019			6.5			
4/2/2019	20.3	5.8				
4/3/2019						49.3
9/23/2019	17.7	5.1	5.9			
9/27/2019						49.9
3/25/2020	20.4	5.2	6.1			
4/1/2020						5.4
6/16/2020	41.1		5.8			
9/15/2020	13.4	5	6			
9/16/2020				4.1	7.2	39.7
11/10/2020				4.4	7.8	
12/15/2020				4.7	9.4	
1/19/2021				4.1	9.5	
3/10/2021	7.4				12.3	
3/11/2021		5.1	5.9	4.5		
3/12/2021						35
8/11/2021	9.6			3.5		
8/12/2021		5.2	4.8			
8/13/2021					39.9	
8/17/2021						28.3
2/1/2022	7.5	7	5.7	4.1	44.8	
2/9/2022						1.2
8/2/2022	14.1	7.8	5.9	4.3	19.8	
8/3/2022						12.3

# Time Series

Constituent: Chloride (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				50.4	109	
5/23/2016	51.9	160	93.2			152
7/12/2016	100	160	78	50	110	160
9/1/2016	58	140	100	50	110	160
10/20/2016				49	110	110
10/24/2016	220	160	140			
12/6/2016				51	100	150
12/7/2016	180	190	110			
1/25/2017				54	110	
1/26/2017	90	160	70			170
3/21/2017				46	110	
3/22/2017	37	130	59			160
5/23/2017				49	130	150
5/24/2017	69	120	50			
10/3/2017	28	93	29	52	130	160
6/5/2018	56.1		72.3	52.3		
6/6/2018		46.4			44.8	138
10/2/2018				52.6	89.4	142
10/3/2018	24.8	88.4				
10/5/2018			32.3			
4/2/2019				55.5		
4/3/2019	4.6	62.8			91.6	130
4/5/2019			36.4			
9/24/2019					60.2	
9/25/2019				49.8		
9/26/2019			109			
9/27/2019	27.9	81				126
3/26/2020		48				
3/27/2020				48.3	79.8	
3/30/2020			75.1			
3/31/2020	3.2					105
6/16/2020					67.9	
6/17/2020				45.2		
9/16/2020				46.4	74.6	
9/17/2020						105
9/18/2020	34.9	74.6				
9/21/2020			41.2			
3/15/2021				44.5	72.4	
3/16/2021	11.5	56.8				94.7
3/17/2021			31.4			
8/16/2021				40.3		
8/17/2021						88.6
8/18/2021	19.9	47.3			50.9	
8/19/2021			24.4			
2/9/2022	20.4	46.8				84.4
2/10/2022			17.4	39.8	48.2	
8/3/2022	13.8	39.2	13		54.1	
8/4/2022						86.8
8/11/2022				37.7		

# Time Series

Constituent: Chloride (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		27.5				
4/3/2019	19.5			32	90.6	
4/4/2019						26.9
4/8/2019			43.3			
9/25/2019		25.7				
9/26/2019			39.7		118	31.8
9/27/2019	46.2			36.2		
3/26/2020	64			34.6		
3/27/2020		28.8				
3/30/2020			37.4			
3/31/2020					98	
4/2/2020						27.9
9/17/2020		29.7			103	
9/18/2020				33.4		30.4
9/21/2020	35		45.2			
3/12/2021						31.3
3/15/2021		31.1				
3/16/2021				29.2		
3/17/2021	19.8		42.9		95.3	
8/17/2021		28.3			89.2	30
8/18/2021	14.3					
8/19/2021			37.2	30.8		
2/9/2022	10.2			26.5	85.7	
2/10/2022		31.4	38.2			31.4
8/3/2022			39.6			36.7
8/4/2022	11.3	31.4		20.5	88.5	

# Time Series

Constituent: Chloride (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	44	80.9			
4/3/2019			1.8	60.9	5.6
9/24/2019		83.8			
9/25/2019			35.9		
9/26/2019	43.5			64.9	15.6
3/26/2020			0.73 (J)		
3/27/2020	33			48.6	
3/30/2020		71.2			1.5
9/16/2020		75.3			
9/17/2020			28.7		
9/21/2020	42.9			58.1	11.1
3/15/2021	35.8	73.6			6.8
3/16/2021			1.4	49.8	
8/16/2021		68			
8/17/2021			1.4	43.5	8.9
8/18/2021	33.7				
2/8/2022					6.9
2/9/2022			0.74 (J)	37.9	
2/10/2022	29	66			
8/3/2022		63.5	4.4	39.6	
8/4/2022	33.3				4.7

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.005	<0.005	<0.005			
5/23/2016						<0.005
7/11/2016	<0.005	<0.005				
7/12/2016			<0.005			<0.005
8/30/2016	<0.005	<0.005	<0.005			
9/1/2016						<0.005
10/19/2016	<0.005	<0.005	<0.005			
10/24/2016						<0.005
12/6/2016	<0.005	<0.005	<0.005			
12/7/2016						<0.005
1/24/2017	<0.005	<0.005	<0.005			
1/26/2017						<0.005
3/21/2017	0.0005 (J)	<0.005	<0.005			
3/22/2017						<0.005
5/22/2017	<0.005	<0.005	0.0007 (J)			
5/24/2017						<0.005
4/2/2018	<0.005	<0.005				
4/3/2018			<0.005			
4/4/2018						<0.005
3/12/2019	<0.005	<0.005	<0.005			
3/13/2019						<0.005
4/1/2019			<0.005			
4/2/2019	<0.005	0.0079 (J)				
4/3/2019						0.02
9/23/2019	<0.005	0.00058 (J)	<0.005			
9/27/2019						<0.005
3/2/2020	<0.005	0.00041 (J)	<0.005			
3/3/2020						<0.005
3/25/2020	0.00072 (J)	<0.005	<0.005			
4/1/2020						<0.005
9/15/2020	<0.005	<0.005	<0.005			
9/16/2020				<0.005	0.0012 (J)	<0.005
11/10/2020				<0.005	0.00089 (J)	
12/15/2020				<0.005	0.00072 (J)	
1/19/2021				<0.005	0.0011 (J)	
2/8/2021	<0.005					
2/9/2021		<0.005	<0.005	0.00095 (J)	0.00066 (J)	
2/15/2021						<0.005
3/10/2021	<0.005				<0.005	
3/11/2021		<0.005	<0.005	<0.005		
3/12/2021						<0.005
8/11/2021	<0.005			<0.005		
8/12/2021		<0.005	<0.005			
8/13/2021					0.0016 (J)	
8/17/2021						<0.005
2/1/2022	<0.005	<0.005	<0.005	<0.005	0.0013 (J)	
2/9/2022						0.0011 (J)
8/2/2022	<0.005	<0.005	<0.005	<0.005	<0.005	
8/3/2022						<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	<0.005	
5/23/2016	<0.005	<0.005	<0.005			<0.005
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016				<0.005	<0.005	<0.005
10/24/2016	<0.005	<0.005	<0.005			
12/6/2016				<0.005	<0.005	<0.005
12/7/2016	<0.005	<0.005	<0.005			
1/25/2017				<0.005	<0.005	
1/26/2017	<0.005	<0.005	<0.005			<0.005
3/21/2017				<0.005	0.0005 (J)	
3/22/2017	0.0003 (J)	0.0004 (J)	0.0004 (J)			<0.005
5/23/2017				<0.005	<0.005	<0.005
5/24/2017	<0.005	<0.005	<0.005			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005			
3/12/2019					<0.005	
3/13/2019	<0.005		<0.005	<0.005		<0.005
3/14/2019		0.0025 (J)				
4/2/2019				<0.005		
4/3/2019	<0.005	<0.005			<0.005	<0.005
4/5/2019			<0.005			
9/24/2019					<0.005	
9/25/2019				0.071		
9/26/2019			<0.005			
9/27/2019	<0.005	<0.005				<0.005
3/3/2020	0.00061 (J)	<0.005			0.0007 (J)	
3/4/2020			<0.005	0.0016 (J)		<0.005
3/26/2020		<0.005				
3/27/2020				0.0004 (J)	<0.005	
3/30/2020			0.00059 (J)			
3/31/2020	<0.005					0.00052 (J)
9/16/2020				0.00074 (J)	0.0015 (J)	
9/17/2020						<0.005
9/18/2020	<0.005	0.00091 (J)				
9/21/2020			0.00056 (J)			
2/10/2021				0.0014 (J)		
2/12/2021	<0.005	<0.005				
2/16/2021					<0.005	0.00067 (J)
2/22/2021			<0.005			
3/15/2021				0.0021 (J)	0.00082 (J)	
3/16/2021	<0.005	<0.005				<0.005
3/17/2021			<0.005			
8/16/2021				<0.005		
8/17/2021						<0.005
8/18/2021	<0.005	<0.005			<0.005	
8/19/2021			<0.005			
2/9/2022	<0.005	<0.005				0.0011 (J)
2/10/2022			<0.005	<0.005	<0.005	
8/3/2022	<0.005	<0.005	<0.005		<0.005	
8/4/2022						<0.005
8/11/2022				<0.005		

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.005	<0.005		<0.005	<0.005
3/14/2019	<0.005			<0.005		
4/2/2019		<0.005				
4/3/2019	<0.005			<0.005	<0.005	
4/4/2019						<0.005
4/8/2019			<0.005			
9/25/2019		<0.005				
9/26/2019			0.00042 (J)		0.00076 (J)	<0.005
9/27/2019	<0.005			<0.005		
3/2/2020		0.00071 (J)				
3/3/2020				<0.005		
3/4/2020	0.00066 (J)		<0.005		0.0028 (J)	<0.005
3/26/2020	0.00047 (J)			0.00061 (J)		
3/27/2020		0.00051 (J)				
3/30/2020			<0.005			
3/31/2020					0.001 (J)	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		0.0007 (J)
9/21/2020	0.0014 (J)		<0.005			
2/11/2021		<0.005				
2/12/2021	0.00059 (J)			<0.005		
2/16/2021			<0.005		0.001 (J)	0.00082 (J)
3/12/2021						<0.005
3/15/2021		0.00068 (J)				
3/16/2021				<0.005		
3/17/2021	0.0022 (J)		0.0017 (J)		0.0015 (J)	
8/17/2021		<0.005			<0.005	<0.005
8/18/2021	<0.005					
8/19/2021			<0.005	<0.005		
2/9/2022	<0.005			<0.005	<0.005	
2/10/2022		<0.005	<0.005			<0.005
8/3/2022			<0.005			<0.005
8/4/2022	<0.005	<0.005		<0.005	<0.005	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			0.003 (J)	<0.005	<0.005
4/2/2019	<0.005	<0.005			
4/3/2019			0.003 (J)	<0.005	0.0023 (J)
9/24/2019		<0.005			
9/25/2019			0.0052 (J)		
9/26/2019	0.00081 (J)			<0.005	0.0013 (J)
3/2/2020		<0.005	0.0042 (J)		
3/3/2020				0.00044 (J)	0.0015 (J)
3/4/2020	0.0027 (J)				
3/26/2020			0.0044 (J)		
3/27/2020	<0.005			0.00059 (J)	
3/30/2020		0.001 (J)			0.0021 (J)
9/16/2020		<0.005			
9/17/2020			0.0021 (J)		
9/21/2020	0.00085 (J)			<0.005	0.0017 (J)
2/10/2021	0.0014 (J)				
2/15/2021		<0.005			0.0015 (J)
2/16/2021			0.0032 (J)	<0.005	
3/15/2021	0.00078 (J)	<0.005			0.0018 (J)
3/16/2021			0.0024 (J)	<0.005	
8/16/2021		<0.005			
8/17/2021			0.0018 (J)	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					0.0016 (J)
2/9/2022			0.0031 (J)	<0.005	
2/10/2022	0.0011 (J)	<0.005			
8/3/2022		<0.005	0.0015 (J)	<0.005	
8/4/2022	<0.005				0.002 (J)



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.005	0.0293	<0.005			
5/23/2016						<0.005
7/11/2016	0.0004 (J)	0.0267				
7/12/2016			<0.005			0.0006 (J)
8/30/2016	<0.005	0.028	<0.005			
9/1/2016						0.0007 (J)
10/19/2016	<0.005	0.0201	<0.005			
10/24/2016						0.0009 (J)
12/6/2016	<0.005	0.0184	<0.005			
12/7/2016						0.0012 (J)
1/24/2017	<0.005	0.0206	<0.005			
1/26/2017						<0.005
3/21/2017	<0.005	0.0251	<0.005			
3/22/2017						0.0006 (J)
5/22/2017	<0.005	0.0263	<0.005			
5/24/2017						0.0006 (J)
4/2/2018	<0.005	0.019				
4/3/2018			<0.005			
4/4/2018						<0.005
3/12/2019	<0.005	0.017	<0.005			
3/13/2019						<0.005
4/1/2019			<0.005			
4/2/2019	<0.005	0.019				
4/3/2019						<0.005
9/23/2019	<0.005	0.038	<0.005			
9/27/2019						<0.005
3/2/2020	<0.005	0.019	<0.005			
3/3/2020						<0.005
3/25/2020	<0.005	0.02	<0.005			
4/1/2020						<0.005
9/15/2020	<0.005	0.021	<0.005			
9/16/2020				<0.005	<0.005	<0.005
11/10/2020				<0.005	<0.005	
12/15/2020				<0.005	<0.005	
1/19/2021				<0.005	<0.005	
2/8/2021	<0.005					
2/9/2021		0.02	<0.005	<0.005	<0.005	
2/15/2021						<0.005
3/10/2021	<0.005				<0.005	
3/11/2021		0.013	<0.005	<0.005		
3/12/2021						<0.005
8/11/2021	<0.005			<0.005		
8/12/2021		0.022	<0.005			
8/13/2021					<0.005	
8/17/2021						<0.005
2/1/2022	<0.005	0.025	<0.005	<0.005	<0.005	
2/9/2022						<0.005
8/2/2022	0.00054 (J)	0.024	<0.005	<0.005	<0.005	
8/3/2022						<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	0.00207 (J)	
5/23/2016	<0.005	<0.005	0.00361 (J)			<0.005
7/12/2016	0.0021 (J)	0.0018 (J)	0.0032 (J)	0.0003 (J)	0.0019 (J)	0.0006 (J)
9/1/2016	0.0025 (J)	0.0016 (J)	0.0033 (J)	<0.005	0.0023 (J)	0.0007 (J)
10/20/2016				0.0008 (J)	0.002 (J)	0.002 (J)
10/24/2016	0.0032 (J)	0.0017 (J)	0.004 (J)			
12/6/2016				0.0009 (J)	0.0026 (J)	0.0011 (J)
12/7/2016	0.003 (J)	0.0021 (J)	0.0034 (J)			
1/25/2017				0.0005 (J)	0.002 (J)	
1/26/2017	0.0014 (J)	0.0016 (J)	0.0024 (J)			0.0006 (J)
3/21/2017				0.0005 (J)	0.0023 (J)	
3/22/2017	0.0014 (J)	0.0018 (J)	0.0026 (J)			0.0005 (J)
5/23/2017				0.0005 (J)	0.0023 (J)	0.0006 (J)
5/24/2017	0.0008 (J)	0.0015 (J)	0.0022 (J)			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005			
3/12/2019					0.002 (J)	
3/13/2019	0.00098 (J)		0.0022 (J)	0.00067 (J)		0.00065 (J)
3/14/2019		0.0011 (J)				
4/2/2019				0.00069 (J)		
4/3/2019	0.0018 (J)	0.0011 (J)			0.0019 (J)	0.00069 (J)
4/5/2019			0.0017 (J)			
9/24/2019					0.0015 (J)	
9/25/2019				0.0026 (J)		
9/26/2019			0.0042 (J)			
9/27/2019	0.00071 (J)	0.0012 (J)				0.00057 (J)
3/3/2020	0.00087 (J)	0.0013 (J)			0.002 (J)	
3/4/2020			0.0066	0.0011 (J)		0.00053 (J)
3/26/2020		0.0012 (J)				
3/27/2020				0.00074 (J)	0.0018 (J)	
3/30/2020			0.0053			
3/31/2020	0.0014 (J)					0.00051 (J)
9/16/2020				0.00065 (J)	0.0019 (J)	
9/17/2020						0.0007 (J)
9/18/2020	<0.005	0.0014 (J)				
9/21/2020			0.0032 (J)			
2/10/2021				0.00081 (J)		
2/12/2021	<0.005	0.0012 (J)				
2/16/2021					0.002 (J)	0.00061 (J)
2/22/2021			0.003 (J)			
3/15/2021				0.0014 (J)	0.0019 (J)	
3/16/2021	<0.005	0.0012 (J)				0.00069 (J)
3/17/2021			0.0029 (J)			
8/16/2021				0.0012 (J)		
8/17/2021						0.00045 (J)
8/18/2021	<0.005	0.0012 (J)			0.002 (J)	
8/19/2021			0.0024 (J)			
2/9/2022	<0.005	0.0013 (J)				0.00051 (J)
2/10/2022			0.0026 (J)	0.0011 (J)	0.0021 (J)	
8/3/2022	<0.005	0.0012 (J)	0.0041 (J)		0.0024 (J)	
8/4/2022						0.00046 (J)
8/11/2022				0.0018 (J)		

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.0011 (J)	<0.005		<0.005	<0.005
3/14/2019	0.025			<0.005		
4/2/2019		<0.005				
4/3/2019	0.036			<0.005	<0.005	
4/4/2019						9.1E-05 (J)
4/8/2019			0.00025 (J)			
9/25/2019		<0.005				
9/26/2019			0.0011 (J)		0.00053 (J)	<0.005
9/27/2019	0.033			<0.005		
3/2/2020		<0.005				
3/3/2020				<0.005		
3/4/2020	0.048		0.00056 (J)		<0.005	0.00045 (J)
3/26/2020	0.045			<0.005		
3/27/2020		<0.005				
3/30/2020			<0.005			
3/31/2020					0.0003 (J)	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		<0.005
9/21/2020	0.032		<0.005			
2/11/2021		<0.005				
2/12/2021	0.037			<0.005		
2/16/2021			<0.005		0.00045 (J)	0.0004 (J)
3/12/2021						<0.005
3/15/2021		<0.005				
3/16/2021				<0.005		
3/17/2021	0.037		<0.005		0.00044 (J)	
8/17/2021		<0.005			0.00045 (J)	<0.005
8/18/2021	0.039					
8/19/2021			<0.005	<0.005		
2/9/2022	0.03			<0.005	0.00059 (J)	
2/10/2022		<0.005	<0.005			<0.005
8/3/2022			<0.005			<0.005
8/4/2022	0.043	<0.005		<0.005	0.00048 (J)	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	0.00057 (J)			
3/13/2019			<0.005	0.00055 (J)	<0.005
4/2/2019	<0.005	0.00084 (J)			
4/3/2019			<0.005	<0.005	<0.005
9/24/2019		0.0015 (J)			
9/25/2019			<0.005		
9/26/2019	<0.005			0.00036 (J)	<0.005
3/2/2020		0.00067 (J)	<0.005		
3/3/2020				0.00094 (J)	<0.005
3/4/2020	0.00093 (J)				
3/26/2020			<0.005		
3/27/2020	<0.005			0.00059 (J)	
3/30/2020		0.00063 (J)			<0.005
9/16/2020		0.0013 (J)			
9/17/2020			<0.005		
9/21/2020	<0.005			0.00041 (J)	<0.005
2/10/2021	<0.005				
2/15/2021		0.00097 (J)			<0.005
2/16/2021			<0.005	0.00045 (J)	
3/15/2021	<0.005	0.0011 (J)			<0.005
3/16/2021			<0.005	0.00042 (J)	
8/16/2021		0.0014 (J)			
8/17/2021			<0.005	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					<0.005
2/9/2022			<0.005	0.00059 (J)	
2/10/2022	<0.005	0.00089 (J)			
8/3/2022		0.0012 (J)	<0.005	0.00041 (J)	
8/4/2022	<0.005				<0.005

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	0.397 (U)	0.627 (U)	0.342 (U)			
5/23/2016						0.419 (U)
7/11/2016	0.738 (U)	1.38				
7/12/2016			0.499 (U)			0.855
8/30/2016	0.581 (U)	1.05 (U)	0.976 (U)			
9/1/2016						0.844 (U)
10/19/2016	0.213 (U)	1.11 (U)	0.626 (U)			
10/24/2016						0.917 (U)
12/6/2016	0.444 (U)	0.741 (U)	0.805 (U)			
12/7/2016						0.558 (U)
1/24/2017	0.373 (U)	0.908 (U)	0.336 (U)			
1/26/2017						0.922 (U)
3/21/2017	0.816 (U)	0.567 (U)	0.358 (U)			
3/22/2017						0.751 (U)
5/22/2017	0.554 (U)	0.638 (U)	0.744 (U)			
5/24/2017						0.725 (U)
4/2/2018	0.405 (U)	0.761 (U)				
4/3/2018			0.684 (U)			
4/4/2018						0.715 (U)
6/4/2018	1.13 (U)	0.975 (U)	0.0291 (U)			
6/5/2018						0.718 (U)
10/1/2018	0.132 (U)	0.434 (U)	0.781 (U)			
10/2/2018						0.948
3/12/2019	0.327 (U)	0.454 (U)	1.01 (U)			
3/13/2019						1.19 (U)
4/1/2019			0.76 (U)			
4/2/2019	0.739 (U)	0.651 (U)				
4/3/2019						1.82 (U)
9/27/2019						1.16 (U)
9/30/2019	0.306 (U)	1.04 (U)	0.384 (U)			
3/2/2020	0.61 (U)	1.58	0.249 (U)			
3/3/2020						0.667 (U)
3/25/2020	4.36	0.621 (U)	0.833 (U)			
4/1/2020						0.235 (U)
9/15/2020	0.748 (U)	0.124 (U)	0.161 (U)			
9/16/2020				0.531 (U)	0.422 (U)	0 (U)
11/10/2020				0.788 (U)	0.293 (U)	
12/15/2020				1.04 (U)	0.7 (U)	
1/19/2021				0.685 (U)	0.79 (U)	
2/8/2021	0.223 (U)					
2/9/2021		0.721 (U)	0.447 (U)	0.138 (U)	0.486 (U)	
2/15/2021						1.91
3/10/2021	0 (U)				0.811 (U)	
3/11/2021		0.737 (U)	0.128 (U)	1.51 (U)		
3/12/2021						1.12 (U)
8/11/2021	0.115 (U)			0.394 (U)		
8/12/2021		0.746 (U)	0.389 (U)			
8/13/2021					1.2	
8/17/2021						0.595 (U)
2/1/2022	0.143 (U)	0.588 (U)	0.266 (U)	1.12	0.665 (U)	
2/9/2022						0.49 (U)
8/2/2022	0.203 (U)	0.861 (U)	0.4 (U)	0.662 (U)	0.952 (U)	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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8/3/2022	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10 0.454 (U)
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# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.62 (U)	0.56 (U)	
5/23/2016	0.509 (U)	1.12	0.625 (U)			0.826 (U)
7/12/2016	0.784 (U)	1.61	0.478 (U)	0.283 (U)	0.636 (U)	0.511 (U)
9/1/2016	0.261 (U)	1.23	0.595 (U)	0.703 (U)	0.818 (U)	0.762 (U)
10/20/2016				1.97	1.04 (U)	1.17
10/24/2016	1.42	1.98	1.54			
12/6/2016				2	0.771 (U)	0.126 (U)
12/7/2016	0.781 (U)	0.319 (U)	0.657 (U)			
1/25/2017				1.06 (U)	0.859 (U)	
1/26/2017	0.842 (U)	0.54 (U)	1.22			0.515 (U)
3/21/2017				0.668 (U)	0.851 (U)	
3/22/2017	0.318 (U)	0.635 (U)	0.285 (U)			0.451 (U)
5/23/2017				0.621 (U)	0.705 (U)	0.924 (U)
5/24/2017	0.687 (U)	1.01	0.655 (U)			
4/3/2018				0.538 (U)	0.311 (U)	0.732 (U)
4/4/2018	1.5	0.956	0.882 (U)			
6/5/2018	0.549 (U)		1.1 (U)	0.985 (U)		
6/6/2018		0.424 (U)			0.896 (U)	0.813 (U)
10/2/2018				0.837 (U)	1.21	0.61 (U)
10/3/2018	1.48	0.57 (U)				
10/5/2018			0.558 (U)			
3/12/2019					0.544 (U)	
3/13/2019	0.584 (U)		0.39 (U)	0.403 (U)		1 (U)
3/14/2019		0.992 (U)				
4/2/2019				0.865 (U)		
4/3/2019	0.36 (U)	0.734 (U)			0.885 (U)	0.156 (U)
4/5/2019			0.422 (U)			
9/24/2019					1.3	
9/25/2019				0.884 (U)		
9/26/2019			0.939 (U)			
9/27/2019	1.78	0.958 (U)				0.428 (U)
3/3/2020	0.716 (U)	0.971 (U)			0.835 (U)	
3/4/2020			0.708 (U)	0.624 (U)		1.03
3/26/2020		0.209 (U)				
3/27/2020				0.485 (U)	1.04 (U)	
3/30/2020			0.602 (U)			
3/31/2020	1.3 (U)					1.2 (U)
9/16/2020				0.135 (U)	0.526 (U)	
9/17/2020						1.38 (U)
9/18/2020	1.24 (U)	0.916 (U)				
9/21/2020			1.53			
2/10/2021				0.281 (U)		
2/12/2021	1.1	0.236 (U)				
2/16/2021					0.764 (U)	1.17 (U)
2/22/2021			1.02			
3/15/2021				0.666 (U)	1.3 (U)	
3/16/2021	1.71	0.245 (U)				0.446 (U)
3/17/2021			1.45 (U)			
8/16/2021				0.143 (U)		
8/17/2021						0.771 (U)
8/18/2021	0.919 (U)	0.919 (U)			1.02 (U)	
8/19/2021			0.764 (U)			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.444 (U)	0.564 (U)				0.198 (U)
2/10/2022			0.442 (U)	0.175 (U)	0.945 (U)	
8/3/2022	0.823 (U)	0.418 (U)	0.54 (U)		0.455 (U)	
8/4/2022						0.597 (U)
8/11/2022				0.461 (U)		



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.538 (U)	0.311 (U)		0.627 (U)	1.81
3/14/2019	0.347 (U)			1.28 (U)		
4/2/2019		1.02 (U)				
4/3/2019	0.884 (U)			0.662 (U)	0.205 (U)	
4/4/2019						1.33
4/8/2019			0.573 (U)			
9/25/2019		1.35 (U)				
9/26/2019			0.878 (U)		0.912 (U)	0.974 (U)
9/27/2019	0.534 (U)			0.945 (U)		
3/2/2020		0.653 (U)				
3/3/2020				1.36		
3/4/2020	1.04		0.333 (U)		1.27 (U)	1.12
3/26/2020	1.1 (U)			0.793 (U)		
3/27/2020		0.1 (U)				
3/30/2020			0.107 (U)			
3/31/2020					1.65	
4/2/2020						2.48
9/17/2020		0.469 (U)			0.42 (U)	
9/18/2020				1.17 (U)		1.13 (U)
9/21/2020	1.36 (U)		1.23 (U)			
2/11/2021		0.334 (U)				
2/12/2021	0.764 (U)			1.17		
2/16/2021			0.156 (U)		0.505 (U)	1.21
3/12/2021						0.649 (U)
3/15/2021		1.24 (U)				
3/16/2021				0.742 (U)		
3/17/2021	0.466 (U)		0.174 (U)		0.165 (U)	
8/17/2021		0.709 (U)			0.0468 (U)	1.06 (U)
8/18/2021	0.642 (U)					
8/19/2021			0.227 (U)	0.935 (U)		
2/9/2022	0.245 (U)			0.754 (U)	0.0677 (U)	
2/10/2022		0.32 (U)	0.178 (U)			0.809 (U)
8/3/2022			0.263 (U)			0.685 (U)
8/4/2022	0.509 (U)	1.05 (U)		1.65	0.0273 (U)	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.926 (U)	1.37			
3/13/2019			0.621 (U)	2.07	1.23
4/2/2019	0.479 (U)	0.62 (U)			
4/3/2019			0.932 (U)	0.872 (U)	1.05 (U)
9/24/2019		0.675 (U)			
9/25/2019			0.798 (U)		
9/26/2019	0.997 (U)			0.745 (U)	0.947 (U)
3/2/2020		0.413 (U)	0.964 (U)		
3/3/2020				0.757 (U)	1.15
3/4/2020	1.31				
3/26/2020			1.1		
3/27/2020	1.59			0.758 (U)	
3/30/2020		0.885 (U)			0.83 (U)
9/16/2020		0.193 (U)			
9/17/2020			0.618 (U)		
9/21/2020	1.39 (U)			0.796 (U)	1.55 (U)
2/10/2021	0.201 (U)				
2/15/2021		1.17 (U)			0.892 (U)
2/16/2021			0.466 (U)	0.198 (U)	
3/15/2021	0.564 (U)	0.436 (U)			0.386 (U)
3/16/2021			1.22	0.727 (U)	
8/16/2021		0.208 (U)			
8/17/2021			0.304 (U)	0.557 (U)	0.183 (U)
8/18/2021	0.876 (U)				
2/8/2022					0.417 (U)
2/9/2022			0.567 (U)	0.619 (U)	
2/10/2022	1.96 (U)	0.594 (U)			
8/3/2022		0.581 (U)	0.63 (U)	0.543 (U)	
8/4/2022	0.84 (U)				1.18 (U)

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	0.105 (J)	0.0303 (J)	0.0513 (J)			
5/23/2016						0.0394 (J)
7/11/2016	0.16 (J)	0.05 (J)				
7/12/2016			0.12 (J)			0.15 (J)
8/30/2016	0.09 (J)	0.06 (J)	0.09 (J)			
9/1/2016						0.5
10/19/2016	0.1 (J)	0.04 (J)	0.1 (J)			
10/24/2016						0.06 (J)
12/6/2016	0.11 (J)	0.36	0.21 (J)			
12/7/2016						0.44
1/24/2017	0.09 (J)	<0.1	0.06 (J)			
1/26/2017						0.29 (J)
3/21/2017	0.13 (J)	<0.1	0.005 (J)			
3/22/2017						0.34
5/22/2017	0.12 (J)	<0.1	0.05 (J)			
5/24/2017						0.13 (J)
10/3/2017	0.13 (J)	<0.1	0.13 (J)			0.46
4/2/2018	<0.1	<0.1				
4/3/2018			<0.1			
4/4/2018						<0.1
6/4/2018	0.074 (J)	<0.1	<0.1			
6/5/2018						<0.1
10/1/2018	<0.1	<0.1	<0.1			
10/2/2018						0.17 (J)
3/12/2019	0.29 (J)	0.038 (J)	0.072 (J)			
3/13/2019						0.17 (J)
4/1/2019			0.029 (J)			
4/2/2019	0.1 (J)	0.071 (J)				
4/3/2019						0.082 (J)
9/23/2019	0.078 (J)	<0.1	<0.1			
9/27/2019						0.17 (J)
3/2/2020	0.076 (J)	<0.1	<0.1			
3/3/2020						0.11 (J)
3/25/2020	0.098 (J)	<0.1	<0.1			
4/1/2020						0.12 (J)
6/16/2020	0.071 (J)		<0.1			
9/15/2020	0.082 (J)	<0.1	<0.1			
9/16/2020				0.22	0.52	<0.1
11/10/2020				0.19	0.59	
12/15/2020				0.21	0.67	
1/19/2021				0.16	0.74	
2/8/2021	0.078 (J)					
2/9/2021		<0.1	0.074 (J)	0.19	0.44	
2/15/2021						0.08 (J)
3/10/2021	0.079 (J)				0.65	
3/11/2021		0.1	<0.1	0.2		
3/12/2021						0.054 (J)
8/11/2021	0.058 (J)			0.15		
8/12/2021		<0.1	<0.1			
8/13/2021					0.87	
8/17/2021						<0.1
2/1/2022	0.064 (J)	<0.1	<0.1	0.19	0.96	

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
2/9/2022						0.12
8/2/2022	0.09 (J)	0.053 (J)	0.067 (J)	0.22	0.8	
8/3/2022						0.13

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.0828 (J)	0.499	
5/23/2016	0.203 (J)	0.212 (J)	0.2587 (J)			<0.1
7/12/2016	0.44	0.31	0.53	0.2 (J)	0.67	0.24 (J)
9/1/2016	0.67	0.62	0.74	0.51	0.94	0.46
10/20/2016				0.4	0.56	0.56
10/24/2016	0.26 (J)	0.19 (J)	0.31			
12/6/2016				0.26 (J)	0.76	0.31
12/7/2016	0.55	0.73	1			
1/25/2017				0.24 (J)	1.1	
1/26/2017	0.27 (J)	0.12 (J)	0.68			0.004 (J)
3/21/2017				0.13 (J)	0.46	
3/22/2017	0.66	0.44	0.76			0.28 (J)
5/23/2017				0.11 (J)	0.65	0.29 (J)
5/24/2017	0.35	0.34	0.54			
10/3/2017	0.56	0.58	0.83	0.17 (J)	0.66	0.53
4/3/2018				<0.1	0.39	<0.1
4/4/2018	0.39	<0.1	0.65			
6/5/2018	0.24 (J)		0.47	0.099 (J)		
6/6/2018		0.21 (J)			0.46	0.12 (J)
10/2/2018				<0.1	0.51	0.031 (J)
10/3/2018	0.31	0.15 (J)				
10/5/2018			0.77			
3/12/2019					0.58	
3/13/2019	0.51		0.78	0.12 (J)		0.14 (J)
3/14/2019		1.1				
4/2/2019				0.097 (J)		
4/3/2019	0.43	0.3 (J)			0.63	0.14 (J)
4/5/2019			0.83			
9/24/2019					0.49	
9/25/2019				0.1 (J)		
9/26/2019			0.64			
9/27/2019	0.42	0.26 (J)				0.26 (J)
3/3/2020	0.24 (J)	0.21 (J)			0.45	
3/4/2020			0.37	0.077 (J)		0.08 (J)
3/26/2020		0.17 (J)				
3/27/2020				0.059 (J)	0.46	
3/30/2020			0.44			
3/31/2020	0.19 (J)					0.074 (J)
6/16/2020					0.45	
6/17/2020				0.077 (J)		
9/16/2020				0.081 (J)	0.53	
9/17/2020						0.1
9/18/2020	0.15	0.15				
9/21/2020			0.44			
2/10/2021				0.085 (J)		
2/12/2021	0.17	0.19				
2/16/2021					0.47	0.096 (J)
2/22/2021			0.55			
3/15/2021				0.086 (J)	0.51	
3/16/2021	0.21	0.2				0.098 (J)
3/17/2021			0.65			
8/16/2021				0.084 (J)		

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/17/2021						0.095 (J)
8/18/2021	0.21	0.15			0.41	
8/19/2021			0.53			
2/9/2022	0.2	0.2				0.1
2/10/2022			0.53	0.083 (J)	0.42	
8/3/2022	0.22	0.21	0.55		0.44	
8/4/2022						0.13
8/11/2022				0.11		

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.072 (J)	0.074 (J)		0.052 (J)	0.28 (J)
3/14/2019	0.35			2.2		
4/2/2019		<0.1				
4/3/2019	0.19 (J)			1.6	0.044 (J)	
4/4/2019						0.26 (J)
4/8/2019			0.048 (J)			
9/25/2019		<0.1				
9/26/2019			0.18 (J)		0.19 (J)	0.42
9/27/2019	0.53			1.5		
3/2/2020		<0.1				
3/3/2020				1.4		
3/4/2020	0.096 (J)		0.051 (J)		0.052 (J)	0.25 (J)
3/26/2020	0.12 (J)			1.6		
3/27/2020		<0.1				
3/30/2020			0.064 (J)			
3/31/2020					<0.1	
4/2/2020						0.24 (J)
9/17/2020		<0.1			0.069 (J)	
9/18/2020				1.6		0.22
9/21/2020	0.17		<0.1			
2/11/2021		<0.1				
2/12/2021	0.16			1.6		
2/16/2021			<0.1		0.071 (J)	0.25
3/12/2021						0.24
3/15/2021		<0.1				
3/16/2021				1.7		
3/17/2021	0.18		<0.1		0.072 (J)	
8/17/2021		<0.1			0.075 (J)	0.24
8/18/2021	0.12					
8/19/2021			<0.1	1.5		
2/9/2022	0.076 (J)			1.7	0.092 (J)	
2/10/2022		<0.1	0.051 (J)			0.25
8/3/2022			0.075 (J)			0.27
8/4/2022	0.18	0.074 (J)		1.5	0.12	

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.24 (J)	0.07 (J)			
3/13/2019			0.1 (J)	0.19 (J)	0.069 (J)
4/2/2019	0.18 (J)	0.045 (J)			
4/3/2019			0.049 (J)	0.15 (J)	<0.1
9/24/2019		0.18 (J)			
9/25/2019			0.076 (J)		
9/26/2019	0.22 (J)			0.19 (J)	0.17 (J)
3/2/2020		<0.1	0.065 (J)		
3/3/2020				0.062 (J)	<0.1
3/4/2020	0.26 (J)				
3/26/2020			0.082 (J)		
3/27/2020	0.26 (J)			<0.1	
3/30/2020		<0.1			<0.1
9/16/2020		<0.1			
9/17/2020			0.094 (J)		
9/21/2020	0.1			<0.1	<0.1
2/10/2021	0.16				
2/15/2021		<0.1			<0.1
2/16/2021			0.051 (J)	0.059 (J)	
3/15/2021	0.24	<0.1			<0.1
3/16/2021			<0.1	0.06 (J)	
8/16/2021		<0.1			
8/17/2021			<0.1	0.055 (J)	<0.1
8/18/2021	0.14				
2/8/2022					<0.1
2/9/2022			0.056 (J)	0.059 (J)	
2/10/2022	0.22	<0.1			
8/3/2022		0.069 (J)	0.094 (J)	0.085 (J)	
8/4/2022	0.19				0.078 (J)



# Time Series

Constituent: Lead (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.001	<0.001	<0.001			
5/23/2016						<0.001
7/11/2016	<0.001	<0.001				
7/12/2016			0.0001 (J)			<0.001
8/30/2016	<0.001	<0.001	<0.001			
9/1/2016						<0.001
10/19/2016	<0.001	<0.001	<0.001			
10/24/2016						<0.001
12/6/2016	<0.001	<0.001	<0.001			
12/7/2016						<0.001
1/24/2017	<0.001	<0.001	<0.001			
1/26/2017						<0.001
3/21/2017	<0.001	6E-05 (J)	0.0001 (J)			
3/22/2017						<0.001
5/22/2017	<0.001	9E-05 (J)	<0.001			
5/24/2017						<0.001
4/2/2018	<0.001	<0.001				
4/3/2018			<0.001			
4/4/2018						<0.001
3/12/2019	<0.001	<0.001	<0.001			
3/13/2019						<0.001
9/23/2019	7.8E-05 (J)	9.2E-05 (J)	<0.001			
3/2/2020	4.8E-05 (J)	9.5E-05 (J)	<0.001			
3/3/2020						<0.001
3/25/2020	<0.001	0.00011 (J)	<0.001			
4/1/2020						5E-05 (J)
9/15/2020	<0.001	8E-05 (J)	4.2E-05 (J)			
9/16/2020				5E-05 (J)	0.00021 (J)	<0.001
11/10/2020				6.9E-05 (J)	0.0002 (J)	
12/15/2020				8.2E-05 (J)	0.00011 (J)	
1/19/2021				4.4E-05 (J)	0.00019 (J)	
2/8/2021	5.8E-05 (J)					
2/9/2021		9.4E-05 (J)	<0.001	0.00029 (J)	0.0001 (J)	
2/15/2021						<0.001
3/10/2021	<0.001				<0.001	
3/11/2021		7.6E-05 (J)	<0.001	9.4E-05 (J)		
3/12/2021						<0.001
8/11/2021	<0.001			<0.001		
8/12/2021		<0.001	<0.001			
8/13/2021					<0.001	
8/17/2021						<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
2/9/2022						<0.001
8/2/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
8/3/2022						<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.001	<0.001	
5/23/2016	<0.001	<0.001	<0.001			<0.001
7/12/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/1/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/20/2016				<0.001	<0.001	<0.001
10/24/2016	<0.001	<0.001	<0.001			
12/6/2016				0.0001 (J)	<0.001	0.0002 (J)
12/7/2016	<0.001	<0.001	<0.001			
1/25/2017				0.0001 (J)	<0.001	
1/26/2017	<0.001	<0.001	<0.001			0.0001 (J)
3/21/2017				9E-05 (J)	<0.001	
3/22/2017	0.0003 (J)	<0.001	7E-05 (J)			<0.001
5/23/2017				8E-05 (J)	<0.001	0.0001 (J)
5/24/2017	9E-05 (J)	<0.001	<0.001			
4/3/2018				<0.001	<0.001	<0.001
4/4/2018	<0.001	<0.001	<0.001			
3/12/2019					<0.001	
3/13/2019	<0.001		<0.001	<0.001		<0.001
3/14/2019		<0.001				
3/3/2020	0.00021 (J)	5.6E-05 (J)			0.00013 (J)	
3/4/2020			0.00014 (J)	0.00051 (J)		8.4E-05 (J)
3/26/2020		0.00043 (J)				
3/27/2020				5.4E-05 (J)	<0.001	
3/30/2020			0.0001 (J)			
3/31/2020	0.0003 (J)					0.00014 (J)
9/16/2020				0.0002 (J)	0.0002 (J)	
9/17/2020						0.00022 (J)
9/18/2020	6E-05 (J)	9.6E-05 (J)				
9/21/2020			0.00015 (J)			
2/10/2021				0.00056 (J)		
2/12/2021	<0.001	6.7E-05 (J)				
2/16/2021					8.6E-05 (J)	0.0002 (J)
2/22/2021			0.00018 (J)			
3/15/2021				0.0013	0.00011 (J)	
3/16/2021	9.9E-05 (J)	8.9E-05 (J)				0.00027 (J)
3/17/2021			0.00015 (J)			
8/16/2021				<0.001		
8/17/2021						<0.001
8/18/2021	<0.001	<0.001			<0.001	
8/19/2021			<0.001			
2/9/2022	<0.001	<0.001				<0.001
2/10/2022			<0.001	<0.001	<0.001	
8/3/2022	<0.001	<0.001	<0.001		<0.001	
8/4/2022						<0.001
8/11/2022				<0.001		

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.001	<0.001		<0.001	<0.001
3/14/2019	<0.001			<0.001		
3/2/2020		0.00017 (J)				
3/3/2020				<0.001		
3/4/2020	0.00011 (J)		0.00019 (J)		<0.001	<0.001
3/26/2020	<0.001			<0.001		
3/27/2020		0.00013 (J)				
3/30/2020			6.4E-05 (J)			
3/31/2020					0.0001 (J)	
4/2/2020						0.00013 (J)
9/17/2020		<0.001			<0.001	
9/18/2020				<0.001		<0.001
9/21/2020	8.5E-05 (J)		4.2E-05 (J)			
2/11/2021		3.9E-05 (J)				
2/12/2021	7.1E-05 (J)			<0.001		
2/16/2021			0.00012 (J)		8E-05 (J)	0.00043 (J)
3/12/2021						<0.001
3/15/2021		0.0001 (J)				
3/16/2021				<0.001		
3/17/2021	3.8E-05 (J)		4E-05 (J)		<0.001	
8/17/2021		<0.001			<0.001	<0.001
8/18/2021	<0.001					
8/19/2021			<0.001	<0.001		
2/9/2022	<0.001			<0.001	<0.001	
2/10/2022		<0.001	<0.001			<0.001
8/3/2022			<0.001			<0.001
8/4/2022	<0.001	<0.001		<0.001	<0.001	

# Time Series

Constituent: Lead (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.001	<0.001			
3/13/2019			<0.001	<0.001	<0.001
3/2/2020		9E-05 (J)	4.7E-05 (J)		
3/3/2020				0.00013 (J)	6.2E-05 (J)
3/4/2020	0.001 (J)				
3/26/2020			<0.001		
3/27/2020	6.2E-05 (J)			<0.001	
3/30/2020		0.00011 (J)			<0.001
9/16/2020		<0.001			
9/17/2020			<0.001		
9/21/2020	0.00018 (J)			0.00026 (J)	<0.001
2/10/2021	0.00044 (J)				
2/15/2021		5.2E-05 (J)			<0.001
2/16/2021			<0.001	8.4E-05 (J)	
3/15/2021	0.00034 (J)	<0.001			<0.001
3/16/2021			<0.001	3.6E-05 (J)	
8/16/2021		<0.001			
8/17/2021			<0.001	<0.001	<0.001
8/18/2021	<0.001				
2/8/2022					<0.001
2/9/2022			<0.001	<0.001	
2/10/2022	<0.001	<0.001			
8/3/2022		<0.001	<0.001	<0.001	
8/4/2022	<0.001				<0.001

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.03	<0.03	<0.03			
5/23/2016						<0.03
7/11/2016	<0.03	0.0014 (J)				
7/12/2016			0.0024 (J)			<0.03
8/30/2016	<0.03	<0.03	0.0025 (J)			
9/1/2016						<0.03
10/19/2016	<0.03	<0.03	0.003 (J)			
10/24/2016						<0.03
12/6/2016	<0.03	<0.03	0.0033 (J)			
12/7/2016						<0.03
1/24/2017	<0.03	<0.03	0.003 (J)			
1/26/2017						<0.03
3/21/2017	<0.03	0.0012 (J)	0.0034 (J)			
3/22/2017						<0.03
5/22/2017	<0.03	<0.03	0.003 (J)			
5/24/2017						<0.03
4/2/2018	<0.03	0.0015 (J)				
4/3/2018			0.003 (J)			
4/4/2018						<0.03
6/4/2018	0.001 (J)	0.0016 (J)	0.0027 (J)			
6/5/2018						<0.03
10/1/2018	0.00099 (J)	0.0013 (J)	0.0032 (J)			
10/2/2018						<0.03
3/12/2019	0.001 (J)	0.0018 (J)	0.0032 (J)			
3/13/2019						<0.03
4/1/2019			0.0032 (J)			
4/2/2019	0.001 (J)	0.0018 (J)				
4/3/2019						<0.03
9/23/2019	0.0011 (J)	0.0016 (J)	0.0029 (J)			
9/27/2019						<0.03
3/2/2020	0.0012 (J)	0.0017 (J)	0.0037 (J)			
3/3/2020						<0.03
3/25/2020	0.00083 (J)	0.0017 (J)	0.0035 (J)			
4/1/2020						<0.03
9/15/2020	0.00087 (J)	0.0015 (J)	0.0026 (J)			
9/16/2020				0.0018 (J)	0.014 (J)	<0.03
11/10/2020				0.0013 (J)	0.025 (J)	
12/15/2020				0.0019 (J)	0.028 (J)	
1/19/2021				0.0025 (J)	0.034	
2/8/2021	0.00086 (J)					
2/9/2021		0.0012 (J)	0.0032 (J)	0.0026 (J)	0.026 (J)	
2/15/2021						<0.03
3/10/2021	0.0009 (J)				0.03	
3/11/2021		0.0011 (J)	0.0035 (J)	0.0022 (J)		
3/12/2021						<0.03
8/11/2021	0.00078 (J)			0.0024 (J)		
8/12/2021		0.0012 (J)	0.0028 (J)			
8/13/2021					0.032	
8/17/2021						<0.03
2/1/2022	0.0011 (J)	0.0017 (J)	0.0037 (J)	0.0024 (J)	0.048	
2/9/2022						<0.03
8/2/2022	<0.03	0.0013 (J)	0.003 (J)	0.0019 (J)	0.041	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
8/3/2022						<0.03

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.03	<0.03	
5/23/2016	<0.03	0.0107 (J)	0.0422 (J)			<0.03
7/12/2016	<0.03	0.0113 (J)	0.0366 (J)	0.0021 (J)	0.0023 (J)	0.004 (J)
9/1/2016	<0.03	0.0118 (J)	0.04 (J)	0.0025 (J)	0.0029 (J)	0.0044 (J)
10/20/2016				0.0021 (J)	0.0027 (J)	0.0027 (J)
10/24/2016	<0.03	0.0114 (J)	0.0435 (J)			
12/6/2016				0.0026 (J)	0.0032 (J)	0.005 (J)
12/7/2016	<0.03	0.0155 (J)	0.0477 (J)			
1/25/2017				0.0024 (J)	0.0026 (J)	
1/26/2017	<0.03	0.0099 (J)	0.0342 (J)			0.0042 (J)
3/21/2017				0.0026 (J)	0.0029 (J)	
3/22/2017	<0.03	0.0098 (J)	0.0353 (J)			0.0043 (J)
5/23/2017				0.0026 (J)	0.0029 (J)	0.0048 (J)
5/24/2017	<0.03	0.0105 (J)	0.0317 (J)			
4/3/2018				0.0023 (J)	0.0025 (J)	0.0043 (J)
4/4/2018	<0.03	0.008 (J)	0.031 (J)			
6/5/2018	<0.03		0.031 (J)	0.0022 (J)		
6/6/2018		0.0095 (J)			0.0023 (J)	0.0043 (J)
10/2/2018				0.003 (J)	0.0025 (J)	0.004 (J)
10/3/2018	<0.03	0.0083 (J)				
10/5/2018			0.027 (J)			
3/12/2019					0.0025 (J)	
3/13/2019	<0.03		0.029 (J)	0.0024 (J)		0.004 (J)
3/14/2019		0.0058 (J)				
4/2/2019				0.002 (J)		
4/3/2019	<0.03	0.0066 (J)			0.0025 (J)	0.004 (J)
4/5/2019			0.023 (J)			
9/24/2019					0.0024 (J)	
9/25/2019				0.0019 (J)		
9/26/2019			0.035			
9/27/2019	<0.03	0.011 (J)				0.0044 (J)
3/3/2020	<0.03	0.0063 (J)			0.0028 (J)	
3/4/2020			0.041	0.0034 (J)		0.004 (J)
3/26/2020		0.0063 (J)				
3/27/2020				0.002 (J)	0.0026 (J)	
3/30/2020			0.038			
3/31/2020	<0.03					0.0043 (J)
9/16/2020				0.0026 (J)	0.0033 (J)	
9/17/2020						0.004 (J)
9/18/2020	<0.03	0.01 (J)				
9/21/2020			0.028 (J)			
2/10/2021				0.0032 (J)		
2/12/2021	<0.03	0.0094 (J)				
2/16/2021					0.0027 (J)	0.0045 (J)
2/22/2021			0.032			
3/15/2021				0.0038 (J)	0.0029 (J)	
3/16/2021	<0.03	0.0081 (J)				0.0046 (J)
3/17/2021			0.031			
8/16/2021				0.0025 (J)		
8/17/2021						0.004 (J)
8/18/2021	<0.03	0.0099 (J)			0.0029 (J)	
8/19/2021			0.028 (J)			

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	<0.03	0.01 (J)				0.0041 (J)
2/10/2022			0.031	0.0022 (J)	0.003 (J)	
8/3/2022	<0.03	0.0068 (J)	0.029 (J)		0.0026 (J)	
8/4/2022						0.0036 (J)
8/11/2022				0.0019 (J)		



# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.0016 (J)	0.0029 (J)		0.0033 (J)	0.0097 (J)
3/14/2019	0.0089 (J)			0.05		
4/2/2019		0.0015 (J)				
4/3/2019	0.0061 (J)			0.047 (J)	0.0034 (J)	
4/4/2019						0.0069 (J)
4/8/2019			0.0027 (J)			
9/25/2019		<0.03				
9/26/2019			0.003 (J)		0.0041 (J)	0.0055 (J)
9/27/2019	0.013 (J)			0.047		
3/2/2020		0.00082 (J)				
3/3/2020				0.05		
3/4/2020	0.01 (J)		0.0026 (J)		0.03 (J)	0.0047 (J)
3/26/2020	0.013 (J)			0.054		
3/27/2020		0.0012 (J)				
3/30/2020			0.0027 (J)			
3/31/2020					0.0036 (J)	
4/2/2020						0.0068 (J)
9/17/2020		<0.03			0.0032 (J)	
9/18/2020				0.046		0.0084 (J)
9/21/2020	0.013 (J)		0.0024 (J)			
2/11/2021		0.001 (J)				
2/12/2021	0.012 (J)			0.045		
2/16/2021			0.0028 (J)		0.0038 (J)	0.0078 (J)
3/12/2021						0.009 (J)
3/15/2021		0.0011 (J)				
3/16/2021				0.049		
3/17/2021	0.012 (J)		0.0027 (J)		0.004 (J)	
8/17/2021		0.00091 (J)			0.0036 (J)	0.0079 (J)
8/18/2021	0.014 (J)					
8/19/2021			0.0027 (J)	0.046		
2/9/2022	0.0067 (J)			0.048	0.0039 (J)	
2/10/2022		0.00099 (J)	0.0029 (J)			0.0086 (J)
8/3/2022			0.0024 (J)			0.0063 (J)
8/4/2022	0.013 (J)	0.00075 (J)		0.04	0.0033 (J)	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.011 (J)	0.0024 (J)			
3/13/2019			<0.03	<0.03	<0.03
4/2/2019	0.0052 (J)	0.0021 (J)			
4/3/2019			<0.03	<0.03	<0.03
9/24/2019		0.0022 (J)			
9/25/2019			<0.03		
9/26/2019	0.0055 (J)			<0.03	<0.03
3/2/2020		0.0025 (J)	<0.03		
3/3/2020				<0.03	<0.03
3/4/2020	0.015 (J)				
3/26/2020			<0.03		
3/27/2020	0.014 (J)			<0.03	
3/30/2020		0.0023 (J)			<0.03
9/16/2020		0.0021 (J)			
9/17/2020			<0.03		
9/21/2020	0.0053 (J)			<0.03	<0.03
2/10/2021	0.0092 (J)				
2/15/2021		0.0024 (J)			<0.03
2/16/2021			<0.03	<0.03	
3/15/2021	0.013 (J)	0.0022 (J)			<0.03
3/16/2021			<0.03	<0.03	
8/16/2021		0.0021 (J)			
8/17/2021			<0.03	<0.03	<0.03
8/18/2021	0.0086 (J)				
2/8/2022					<0.03
2/9/2022			<0.03	<0.03	
2/10/2022	0.014 (J)	0.0023 (J)			
8/3/2022		0.0018 (J)	<0.03	<0.03	
8/4/2022	0.0088 (J)				<0.03

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.0002	<0.0002	<0.0002			
5/23/2016						<0.0002
7/11/2016	<0.0002	<0.0002				
7/12/2016			<0.0002			<0.0002
8/30/2016	4E-05 (J)	4E-05 (J)	<0.0002			
9/1/2016						<0.0002
10/19/2016	<0.0002	<0.0002	<0.0002			
10/24/2016						<0.0002
12/6/2016	<0.0002	<0.0002	<0.0002			
12/7/2016						<0.0002
1/24/2017	<0.0002	<0.0002	<0.0002			
1/26/2017						5E-05 (J)
3/21/2017	<0.0002	<0.0002	<0.0002			
3/22/2017						<0.0002
5/22/2017	<0.0002	<0.0002	<0.0002			
5/24/2017						<0.0002
4/2/2018	<0.0002	<0.0002				
4/3/2018			<0.0002			
4/4/2018						<0.0002
3/12/2019	<0.0002	<0.0002	<0.0002			
3/13/2019						<0.0002
3/2/2020	<0.0002	<0.0002	<0.0002			
3/3/2020						<0.0002
9/16/2020				<0.0002	<0.0002	
11/10/2020				<0.0002	<0.0002	
12/15/2020				<0.0002	<0.0002	
1/19/2021				<0.0002	<0.0002	
2/8/2021	<0.0002					
2/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	
2/15/2021						<0.0002
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/9/2022						<0.0002
8/2/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/3/2022						<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0002	<0.0002	
5/23/2016	<0.0002	<0.0002	<0.0002			<0.0002
7/12/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/1/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/20/2016				<0.0002	<0.0002	<0.0002
10/24/2016	<0.0002	<0.0002	<0.0002			
12/6/2016				<0.0002	<0.0002	<0.0002
12/7/2016	<0.0002	<0.0002	<0.0002			
1/25/2017				<0.0002	<0.0002	
1/26/2017	5E-05 (J)	<0.0002	4E-05 (J)			4E-05 (J)
3/21/2017				<0.0002	<0.0002	
3/22/2017	<0.0002	<0.0002	<0.0002			<0.0002
5/23/2017				<0.0002	<0.0002	<0.0002
5/24/2017	<0.0002	<0.0002	5E-05 (J)			
4/3/2018				<0.0002	<0.0002	<0.0002
4/4/2018	<0.0002	<0.0002	<0.0002			
3/12/2019					<0.0002	
3/13/2019	<0.0002		<0.0002	<0.0002		<0.0002
3/14/2019		<0.0002				
3/3/2020	<0.0002	<0.0002			<0.0002	
3/4/2020			<0.0002	<0.0002		<0.0002
2/10/2021				<0.0002		
2/12/2021	<0.0002	<0.0002				
2/16/2021					<0.0002	<0.0002
2/22/2021			<0.0002			
2/9/2022	<0.0002	<0.0002				<0.0002
2/10/2022			<0.0002	<0.0002	<0.0002	
8/3/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/4/2022						<0.0002
8/11/2022				<0.0002		

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.0002	<0.0002		<0.0002	<0.0002
3/14/2019	<0.0002			<0.0002		
3/2/2020		<0.0002				
3/3/2020				<0.0002		
3/4/2020	<0.0002		<0.0002		<0.0002	<0.0002
2/11/2021		<0.0002				
2/12/2021	<0.0002			<0.0002		
2/16/2021			<0.0002		<0.0002	<0.0002
2/9/2022	<0.0002			<0.0002	<0.0002	
2/10/2022		<0.0002	<0.0002			<0.0002
8/3/2022			<0.0002			<0.0002
8/4/2022	<0.0002	<0.0002		<0.0002	<0.0002	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.0002	<0.0002			
3/13/2019			<0.0002	<0.0002	<0.0002
3/2/2020		<0.0002	<0.0002		
3/3/2020				<0.0002	<0.0002
3/4/2020	<0.0002				
2/10/2021	<0.0002				
2/15/2021		<0.0002			<0.0002
2/16/2021			<0.0002	<0.0002	
2/8/2022					<0.0002
2/9/2022			<0.0002	<0.0002	
2/10/2022	<0.0002	<0.0002			
8/3/2022		<0.0002	<0.0002	<0.0002	
8/4/2022	<0.0002				<0.0002

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.01	<0.01	<0.01			
5/23/2016						<0.01
7/11/2016	<0.01	<0.01				
7/12/2016			<0.01			0.0013 (J)
8/30/2016	<0.01	<0.01	<0.01			
9/1/2016						<0.01
10/19/2016	<0.01	<0.01	<0.01			
10/24/2016						<0.01
12/6/2016	<0.01	<0.01	<0.01			
12/7/2016						<0.01
1/24/2017	<0.01	<0.01	<0.01			
1/26/2017						<0.01
3/21/2017	<0.01	<0.01	<0.01			
3/22/2017						0.0013 (J)
5/22/2017	<0.01	<0.01	<0.01			
5/24/2017						0.0014 (J)
4/2/2018	<0.01	<0.01				
4/3/2018			<0.01			
4/4/2018						<0.01
6/4/2018	<0.01	<0.01	<0.01			
6/5/2018						<0.01
10/1/2018	<0.01	<0.01	<0.01			
10/2/2018						<0.01
3/12/2019	<0.01	<0.01	<0.01			
3/13/2019						<0.01
4/1/2019			<0.01			
4/2/2019	<0.01	<0.01				
4/3/2019						0.0021 (J)
9/23/2019	<0.01	<0.01	<0.01			
9/27/2019						0.0014 (J)
3/2/2020	<0.01	<0.01	<0.01			
3/3/2020						<0.01
3/25/2020	<0.01	<0.01	<0.01			
4/1/2020						<0.01
6/16/2020	<0.01		<0.01			
9/15/2020	<0.01	<0.01	<0.01			
9/16/2020				0.0044 (J)	0.0019 (J)	0.0014 (J)
11/10/2020				0.0072 (J)	0.0018 (J)	
12/15/2020				0.0044 (J)	0.0019 (J)	
1/19/2021				0.0038 (J)	0.0035 (J)	
2/8/2021	<0.01					
2/9/2021		<0.01	<0.01	0.0045 (J)	0.0038 (J)	
2/15/2021						<0.01
3/10/2021	<0.01				0.0019 (J)	
3/11/2021		<0.01	<0.01	0.0064 (J)		
3/12/2021						0.0007 (J)
8/11/2021	<0.01			0.0034 (J)		
8/12/2021		<0.01	<0.01			
8/13/2021					0.0051 (J)	
8/17/2021						0.0012 (J)
2/1/2022	<0.01	<0.01	<0.01	0.0036 (J)	0.0055 (J)	
2/9/2022						<0.01

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
8/2/2022	<0.01	<0.01	<0.01	0.0042 (J)	0.002 (J)	
8/3/2022						0.00079 (J)



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.028	0.446	
5/23/2016	0.0164	0.0413 (J)	0.027			0.0187
7/12/2016	0.0251	0.0484	0.0316	0.0273	0.455	0.0229
9/1/2016	0.0259	0.0474	0.0336	0.0274	0.481	0.0239
10/20/2016				0.036	0.472	0.477
10/24/2016	0.0293	0.047	0.0352			
12/6/2016				0.0365	0.52	0.0236
12/7/2016	0.0209	0.0432	0.0383			
1/25/2017				0.0317	0.478	
1/26/2017	0.0277	0.0484	0.041			0.0234
3/21/2017				0.0346	0.547	
3/22/2017	0.011	0.0494	0.0426			0.0219
5/23/2017				0.0336	0.482	0.0242
5/24/2017	0.0373	0.047	0.04			
4/3/2018				0.032	0.44	0.025
4/4/2018	0.013	0.052	0.027			
6/5/2018	0.029		0.027	0.036		
6/6/2018		0.054			0.49	0.027
10/2/2018				0.039	0.47	0.028
10/3/2018	0.02	0.054				
10/5/2018			0.033			
3/12/2019					0.5	
3/13/2019	0.012		0.033	0.04		0.028
3/14/2019		0.046				
4/2/2019				0.041		
4/3/2019	0.01	0.049			0.5	0.03
4/5/2019			0.03			
9/24/2019					0.54	
9/25/2019				0.047		
9/26/2019			0.026			
9/27/2019	0.016	0.052				0.033
3/3/2020	0.011	0.045			0.44	
3/4/2020			0.03	0.045		0.031
3/26/2020		0.045				
3/27/2020				0.044	0.42	
3/30/2020			0.029			
3/31/2020	0.0074 (J)					0.031
6/16/2020					0.45	
6/17/2020				0.048		
9/16/2020				0.046	0.43	
9/17/2020						0.03
9/18/2020	0.032	0.046				
9/21/2020			0.032			
2/10/2021				0.051		
2/12/2021	0.023	0.048				
2/16/2021					0.46	0.035
2/22/2021			0.036			
3/15/2021				0.047	0.41	
3/16/2021	0.015	0.044				0.035
3/17/2021			0.035			
8/16/2021				0.045		
8/17/2021						0.035

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/18/2021	0.038	0.045			0.48	
8/19/2021			0.032			
2/9/2022	0.03	0.042				0.034
2/10/2022			0.033	0.045	0.34	
8/3/2022	0.027	0.047	0.035		0.29	
8/4/2022						0.033
8/11/2022				0.044		

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.01	<0.01		<0.01	<0.01
3/14/2019	0.057			0.0022 (J)		
4/2/2019		<0.01				
4/3/2019	0.04			<0.01	0.0083 (J)	
4/4/2019						0.0018 (J)
4/8/2019			0.00027 (J)			
9/25/2019		<0.01				
9/26/2019			<0.01		0.017	0.0042 (J)
9/27/2019	0.063			<0.01		
11/25/2019					0.02	
3/2/2020		<0.01				
3/3/2020				<0.01		
3/4/2020	0.032		<0.01		0.0074 (J)	0.0058 (J)
3/26/2020	0.033			<0.01		
3/27/2020		<0.01				
3/30/2020			<0.01			
3/31/2020					0.0093 (J)	
4/2/2020						0.003 (J)
9/17/2020		<0.01			0.014	
9/18/2020				0.00094 (J)		0.0018 (J)
9/21/2020	0.064		0.00099 (J)			
2/11/2021		<0.01				
2/12/2021	0.046			<0.01		
2/16/2021			0.00096 (J)		0.022	0.0019 (J)
3/12/2021						0.0008 (J)
3/15/2021		<0.01				
3/16/2021				<0.01		
3/17/2021	0.043		0.001 (J)		0.023	
8/17/2021		<0.01			0.024	0.0016 (J)
8/18/2021	0.032					
8/19/2021			0.00087 (J)	<0.01		
2/9/2022	0.011			<0.01	0.028	
2/10/2022		<0.01	0.0008 (J)			0.0017 (J)
8/3/2022			0.00095 (J)			0.002 (J)
8/4/2022	0.039	<0.01		<0.01	0.028	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.013	0.0038 (J)			
3/13/2019			<0.01	0.0021 (J)	<0.01
4/2/2019	0.028	0.0028 (J)			
4/3/2019			<0.01	0.0021 (J)	<0.01
9/24/2019		0.0021 (J)			
9/25/2019			<0.01		
9/26/2019	0.017			0.0026 (J)	0.0033 (J)
3/2/2020		0.0025 (J)	<0.01		
3/3/2020				0.0022 (J)	<0.01
3/4/2020	0.009 (J)				
3/26/2020			<0.01		
3/27/2020	0.0068 (J)			0.0026 (J)	
3/30/2020		0.0029 (J)			<0.01
9/16/2020		0.0021 (J)			
9/17/2020			<0.01		
9/21/2020	0.018			0.0025 (J)	0.0015 (J)
2/10/2021	0.02				
2/15/2021		0.0029 (J)			0.0015 (J)
2/16/2021			<0.01	0.0025 (J)	
3/15/2021	0.013	0.0031 (J)			0.0015 (J)
3/16/2021			<0.01	0.0023 (J)	
8/16/2021		0.0027 (J)			
8/17/2021			<0.01	0.0027 (J)	0.003 (J)
8/18/2021	0.022				
2/8/2022					0.0012 (J)
2/9/2022			<0.01	0.0026 (J)	
2/10/2022	0.0031 (J)	0.0036 (J)			
8/3/2022		0.0032 (J)	<0.01	0.0028 (J)	
8/4/2022	0.011				0.0014 (J)

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	7.27	5.81	7.45			
5/23/2016						6.83
7/11/2016	7.06	5.68				
7/12/2016			7.32			6.58
8/30/2016	7.28	5.63	7.43			
9/1/2016						6.54
10/19/2016	7.02	5.46	7.03			
10/24/2016						6.59
12/6/2016	7.09	5.38	7.08			
12/7/2016						6.56
1/24/2017	7.2	5.37	7.39			
1/26/2017						6.83
3/21/2017	7.01	4.9	6.83			
3/22/2017						6.66
5/22/2017	7.11	5.2	7.02			
5/24/2017						6.67
10/3/2017	7.21	5.3	7.47			6.54
4/2/2018	7.1	5.4				
4/3/2018			7.38			
4/4/2018						6.61
6/4/2018	7.06	5.27	7.38			
6/5/2018						6.65
10/1/2018	7.09	5.31	7.13			
10/2/2018						6.55
3/12/2019	7.03	5.42	7.29			
3/13/2019						6.7
4/1/2019			7.16			
4/2/2019	6.86	5.41				
4/3/2019						6.55
9/23/2019	7.02	5.33	7.3			
9/27/2019						6.64
3/2/2020	7.1	5.43	7.12			
3/3/2020						6.67
3/25/2020	6.95	5.36	7.4			
4/1/2020						6.84
6/16/2020	6.97 (D)		7.31 (D)			
9/15/2020	7.15	5.22	7.29			
9/16/2020				7.52	7.83	6.66
11/10/2020				7.27	7.84	
12/15/2020				7.39	7.87	
1/19/2021				7.39	7.86	
2/8/2021	7.11					
2/9/2021		5.42	7.23	7.44	7.84	
2/15/2021						6.83
3/10/2021	6.95				7.92	
3/11/2021		5.8	7.33	7.46		
3/12/2021						6.76
8/11/2021	6.98			7.4		
8/12/2021		5.05	7.31			
8/13/2021					7.77	
8/17/2021						6.75
2/1/2022	7.19	5.24	7.45	7.52	8.25	

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
2/9/2022						7
8/2/2022	7.03	4.57	7.02	7.15	7.9	
8/3/2022						6.73

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				7.14	6.99	
5/23/2016	6.22	7.15	7.14			7.23
7/12/2016	6.04	6.87	7.04	7.13	6.88	6.87
9/1/2016	6.26	7.2	7.24	7.29	6.73	7.15
10/20/2016				7.1	6.9	7.05
10/24/2016	6.46	7.1	6.9			
12/6/2016				7.15	6.98	7.15
12/7/2016	6.29	6.92	6.91			
1/25/2017				7.11	7.04	
1/26/2017	6.46	7.05	7.08			6.99
3/21/2017				7.12	6.87	
3/22/2017	5.81	7.08	7.13			7.03
5/23/2017				7.08	6.87	7.05
5/24/2017	6.51	7.11	7.15			
10/3/2017	6.25	7.01	7.32	7.21	6.72	7.07
4/3/2018				7.14	6.87	6.99
4/4/2018	5.86	7.12	7.27			
6/5/2018	6.27		7.2	7.13		
6/6/2018		7.12			6.9	7.02
10/2/2018				7.12	6.9	7.05
10/3/2018	5.97	7.08				
10/5/2018			7.24			
3/12/2019					6.91	
3/13/2019	5.92		7.24	7.27		7.06
3/14/2019		7.09				
4/2/2019				7.27		
4/3/2019	5.69	6.96			6.85	6.88
4/5/2019			7.24			
9/24/2019					6.95	
9/25/2019				7.11		
9/26/2019			6.94			
9/27/2019	5.75	7.07				7.01
3/3/2020	5.95	6.95			7.06	
3/4/2020			7.16	7.17		6.97
3/26/2020		6.99				
3/27/2020				7.05	6.95	
3/30/2020			6.91			
3/31/2020	5.7					7.07
6/16/2020					6.97 (D)	
6/17/2020				7.2 (D)		
9/16/2020				7.3	6.92	
9/17/2020						6.99
9/18/2020	6.42	7.15				
9/21/2020			7.34			
2/10/2021				7.29		
2/12/2021	7.27	6.23				
2/16/2021					7.16	7.26
2/22/2021			7.27			
3/15/2021				7.19	7.09	
3/16/2021	5.95	7.15				7.1
3/17/2021			7.33			
8/16/2021				7.12		

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/17/2021						7.1
8/18/2021	6.1	6.89			7.02	
8/19/2021			7.38			
2/9/2022	6.55	7.23				7.3
2/10/2022			7.54	7.22	6.99	
8/3/2022	6.23	7.13	7.09		6.84	
8/4/2022						7.03
8/11/2022				7.07		



# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		6.75	7.58		7.4	7.78
3/14/2019	6.48			7.67		
4/2/2019		6.7				
4/3/2019	6.14			7.56	7.25	
4/4/2019						7.63
4/8/2019			7.47			
9/25/2019		6.75				
9/26/2019			7.5		7.16	7.46
9/27/2019	6.33			7.57		
3/2/2020		6.98				
3/3/2020				7.59		
3/4/2020	6.29		7.47		7.14	8.33
3/26/2020	6.28			7.57		
3/27/2020		6.75				
3/30/2020			7.49			
3/31/2020					7.2	
4/2/2020						8.11
9/17/2020		6.78			7.08	
9/18/2020				7.64		7.51
9/21/2020	6.41		7.65			
2/11/2021		6.93				
2/12/2021	6.36			7.77		
2/16/2021			7.69		7.27	7.96
3/12/2021						7.88
3/15/2021		6.97				
3/16/2021				7.76		
3/17/2021	6.34		7.66		7.14	
8/17/2021		7.05			7.14	7.75
8/18/2021	6.28					
8/19/2021			7.61	7.69		
2/9/2022	6.28			7.82	7.32	
2/10/2022		7.19	7.82			7.96
8/3/2022			7.59			7.4
8/4/2022	6.32	6.96		7.66	7.08	

# Time Series

Constituent: pH, Field (SU) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	7.46	7.2			
3/13/2019			6.16	6.86	6.37
4/2/2019	7.4	6.91			
4/3/2019			5.96	6.77	6.19
9/24/2019		6.86			
9/25/2019			6.37		
9/26/2019	7.4			6.76	6.5
3/2/2020		7.13	6.12		
3/3/2020				6.78	6.1
3/4/2020	7.55				
3/26/2020			6.14		
3/27/2020	7.42			6.82	
3/30/2020		7.07			6.06
9/16/2020		6.88			
9/17/2020			6.48		
9/21/2020	7.46			6.88	6.5
2/10/2021	7.54				
2/15/2021		7.09			6.77
2/16/2021			5.95	7	
3/15/2021	7.61	7.05			6.66
3/16/2021			5.78	6.96	
8/16/2021		7.08			
8/17/2021			5.99	6.86	6.88
8/18/2021	7.16				
2/8/2022					6.73
2/9/2022			6.13	7.01	
2/10/2022	7.59	7.27			
8/3/2022		6.87	5.96	6.41	
8/4/2022	7.38				6.47

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.005	<0.005	<0.005			
5/23/2016						<0.005
7/11/2016	<0.005	<0.005				
7/12/2016			<0.005			<0.005
8/30/2016	<0.005	<0.005	<0.005			
9/1/2016						<0.005
10/19/2016	<0.005	<0.005	<0.005			
10/24/2016						<0.005
12/6/2016	<0.005	<0.005	<0.005			
12/7/2016						<0.005
1/24/2017	<0.005	<0.005	<0.005			
1/26/2017						0.0041 (J)
3/21/2017	<0.005	<0.005	<0.005			
3/22/2017						<0.005
5/22/2017	<0.005	<0.005	<0.005			
5/24/2017						<0.005
4/2/2018	<0.005	<0.005				
4/3/2018			<0.005			
4/4/2018						<0.005
6/4/2018	<0.005	<0.005	<0.005			
6/5/2018						<0.005
10/1/2018	<0.005	<0.005	<0.005			
10/2/2018						0.0023 (J)
3/12/2019	<0.005	<0.005	<0.005			
3/13/2019						0.0015 (J)
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005				
4/3/2019						<0.005
9/23/2019	<0.005	<0.005	<0.005			
9/27/2019						<0.005
3/2/2020	<0.005	<0.005	<0.005			
3/3/2020						<0.005
3/25/2020	<0.005	<0.005	<0.005			
4/1/2020						0.002 (J)
9/15/2020	<0.005	<0.005	<0.005			
9/16/2020				<0.005	<0.005	<0.005
11/10/2020				<0.005	<0.005	
12/15/2020				<0.005	<0.005	
1/19/2021				<0.005	<0.005	
2/8/2021	<0.005					
2/9/2021		<0.005	<0.005	<0.005	<0.005	
2/15/2021						0.0028 (J)
3/10/2021	0.0047 (J)				<0.005	
3/11/2021		<0.005	<0.005	<0.005		
3/12/2021						<0.005
8/11/2021	<0.005			<0.005		
8/12/2021		<0.005	<0.005			
8/13/2021					<0.005	
8/17/2021						<0.005
2/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005	
2/9/2022						0.0031 (J)
8/2/2022	<0.005	0.0014 (J)	<0.005	<0.005	<0.005	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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8/3/2022	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
						0.0017 (J)

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	<0.005	
5/23/2016	0.0106	<0.005	<0.005			<0.005
7/12/2016	0.0057 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	0.0057 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016				<0.005	<0.005	<0.005
10/24/2016	0.0021 (J)	<0.005	<0.005			
12/6/2016				<0.005	0.0024 (J)	0.0037 (J)
12/7/2016	0.0015 (J)	0.0011 (J)	<0.005			
1/25/2017				<0.005	<0.005	
1/26/2017	0.0062 (J)	<0.005	<0.005			<0.005
3/21/2017				<0.005	<0.005	
3/22/2017	0.0263	<0.005	<0.005			<0.005
5/23/2017				<0.005	<0.005	<0.005
5/24/2017	0.0038 (J)	<0.005	<0.005			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	0.021	<0.005	<0.005			
6/5/2018	0.0062 (J)		<0.005	<0.005		
6/6/2018		<0.005			<0.005	<0.005
10/2/2018				<0.005	<0.005	<0.005
10/3/2018	0.009 (J)	<0.005				
10/5/2018			<0.005			
3/12/2019					<0.005	
3/13/2019	0.023		<0.005	<0.005		<0.005
3/14/2019		<0.005				
4/2/2019				<0.005		
4/3/2019	0.016	<0.005			<0.005	<0.005
4/5/2019			0.00018 (J)			
9/24/2019					<0.005	
9/25/2019				<0.005		
9/26/2019			<0.005			
9/27/2019	0.013	<0.005				<0.005
3/3/2020	0.016	<0.005			<0.005	
3/4/2020			<0.005	<0.005		<0.005
3/26/2020		<0.005				
3/27/2020				<0.005	<0.005	
3/30/2020			<0.005			
3/31/2020	0.019					<0.005
9/16/2020				<0.005	<0.005	
9/17/2020						<0.005
9/18/2020	0.0042 (J)	<0.005				
9/21/2020			0.0016 (J)			
2/10/2021				<0.005		
2/12/2021	0.0079 (J)	<0.005				
2/16/2021					<0.005	<0.005
2/22/2021			<0.005			
3/15/2021				<0.005	<0.005	
3/16/2021	0.015	<0.005				<0.005
3/17/2021			<0.005			
8/16/2021				<0.005		
8/17/2021						<0.005
8/18/2021	0.0033 (J)	<0.005			<0.005	
8/19/2021			<0.005			

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.0035 (J)	<0.005				<0.005
2/10/2022			<0.005	<0.005	<0.005	
8/3/2022	0.0057	<0.005	<0.005		<0.005	
8/4/2022						<0.005
8/11/2022				<0.005		

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.005	<0.005		<0.005	<0.005
3/14/2019	<0.005			<0.005		
4/2/2019		<0.005				
4/3/2019	0.007 (J)			<0.005	<0.005	
4/4/2019						0.00012 (J)
4/8/2019			<0.005			
9/25/2019		<0.005				
9/26/2019			<0.005		<0.005	<0.005
9/27/2019	0.0013 (J)			<0.005		
3/2/2020		<0.005				
3/3/2020				<0.005		
3/4/2020	0.0044 (J)		<0.005		<0.005	<0.005
3/26/2020	0.0053 (J)			<0.005		
3/27/2020		<0.005				
3/30/2020			<0.005			
3/31/2020					<0.005	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		<0.005
9/21/2020	0.0033 (J)		<0.005			
2/11/2021		<0.005				
2/12/2021	0.0021 (J)			<0.005		
2/16/2021			<0.005		<0.005	<0.005
3/12/2021						<0.005
3/15/2021		<0.005				
3/16/2021				<0.005		
3/17/2021	<0.005		<0.005		<0.005	
8/17/2021		<0.005			<0.005	<0.005
8/18/2021	0.0026 (J)					
8/19/2021			<0.005	<0.005		
2/9/2022	0.0036 (J)			<0.005	<0.005	
2/10/2022		<0.005	<0.005			<0.005
8/3/2022			<0.005			<0.005
8/4/2022	0.0022 (J)	<0.005		<0.005	<0.005	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			0.0033 (J)	<0.005	0.0016 (J)
4/2/2019	<0.005	<0.005			
4/3/2019			0.0027 (J)	<0.005	<0.005
9/24/2019		<0.005			
9/25/2019			0.0021 (J)		
9/26/2019	<0.005			<0.005	0.0014 (J)
3/2/2020		<0.005	0.0041 (J)		
3/3/2020				<0.005	<0.005
3/4/2020	<0.005				
3/26/2020			0.0039 (J)		
3/27/2020	<0.005			<0.005	
3/30/2020		<0.005			0.0014 (J)
9/16/2020		<0.005			
9/17/2020			0.0028 (J)		
9/21/2020	<0.005			<0.005	0.0026 (J)
2/10/2021	<0.005				
2/15/2021		<0.005			<0.005
2/16/2021			0.0035 (J)	<0.005	
3/15/2021	<0.005	<0.005			0.0021 (J)
3/16/2021			0.0026 (J)	<0.005	
8/16/2021		<0.005			
8/17/2021			0.0017 (J)	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					0.0015 (J)
2/9/2022			0.0027 (J)	<0.005	
2/10/2022	<0.005	<0.005			
8/3/2022		<0.005	0.0032 (J)	<0.005	
8/4/2022	<0.005				<0.005



# Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	66.9	48.6	42.3			
5/23/2016						175
7/11/2016	41	45				
7/12/2016			44			190
8/30/2016	36	42	40			
9/1/2016						190
10/19/2016	46	44	43			
10/24/2016						190
12/6/2016	59	44	43			
12/7/2016						200
1/24/2017	46	46	48			
1/26/2017						90
3/21/2017	63	46	45			
3/22/2017						170
5/22/2017	77	48	46			
5/24/2017						190
10/3/2017	42	47	48			200
6/4/2018	71.8	47.8	46.6			
6/5/2018						205
10/1/2018	49.1	48.1	48.6			
10/2/2018						178
4/1/2019			50.4			
4/2/2019	84.3	48.7				
4/3/2019						159
9/23/2019	70.2	47.2	43.9			
9/27/2019						181
3/25/2020	85.9	46.3	50.5			
4/1/2020						59
6/16/2020	88.2		49.5			
9/15/2020	47.3	51.5	44.7			
9/16/2020				43	6.9	169
11/10/2020				39	6.3	
12/15/2020				38.8	6.7	
1/19/2021				37.3	7.4	
3/10/2021	49.6				<1	
3/11/2021		52.9	50.4	38.6		
3/12/2021						120
8/11/2021	48.9			30.5		
8/12/2021		47.4	38.6			
8/13/2021					56.1	
8/17/2021						156
2/1/2022	43.7	67.1	46	37.5	56.3	
2/9/2022						49.2
8/2/2022	58.1	86.9	43.5	37	13.2	
8/3/2022						119

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				96	219	
5/23/2016	260	288	215			207
7/12/2016	390	320	210	100	230	230
9/1/2016	240	300	190	100	230	230
10/20/2016				110	240	240
10/24/2016	370	270	180			
12/6/2016				110	250	240
12/7/2016	260	280	120			
1/25/2017				110	260	
1/26/2017	230	260	83			270
3/21/2017				110	240	
3/22/2017	330	220	100			240
5/23/2017				110	270	240
5/24/2017	230	210	110			
10/3/2017	230	190	67	120	230	240
6/5/2018	204		187	117		
6/6/2018		162			190	214
10/2/2018				120	193	218
10/3/2018	233	191				
10/5/2018			78.3			
4/2/2019				127		
4/3/2019	298	176			194	214
4/5/2019			105			
9/24/2019					133	
9/25/2019				109		
9/26/2019			444			
9/27/2019	<1	198				214
3/26/2020		182				
3/27/2020				109	173	
3/30/2020			393			
3/31/2020	283					185
6/16/2020					157	
6/17/2020				102		
9/16/2020				109	194	
9/17/2020						209
9/18/2020	272	266				
9/21/2020			359			
3/15/2021				107	272	
3/16/2021	291	248				211
3/17/2021			384			
8/16/2021				98.1		
8/17/2021						207
8/18/2021	237	226			245	
8/19/2021			339			
2/9/2022	276	252				224
2/10/2022			371	97.5	224	
8/3/2022	254	236	451		241	
8/4/2022						243
8/11/2022				121		

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		122				
4/3/2019	105			53	131	
4/4/2019						11.8
4/8/2019			97.3			
9/25/2019		112				
9/26/2019			91		189	15.6
9/27/2019	170			48		
3/26/2020	310			32.3		
3/27/2020		114				
3/30/2020			84.9			
3/31/2020					129	
4/2/2020						13.3
9/17/2020		110			174	
9/18/2020				27.4		7.5
9/21/2020	305		114			
3/12/2021						7.4
3/15/2021		109				
3/16/2021				9.4		
3/17/2021	260		137		212	
8/17/2021		98.6			194	8.2
8/18/2021	219					
8/19/2021			130	4.1		
2/9/2022	221			1.7	224	
2/10/2022		95.9	127			13.2
8/3/2022			135			9.5
8/4/2022	412	110		0.97 (J)	239	

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	67.7	151			
4/3/2019			218	228	75.3
9/24/2019		154			
9/25/2019			134		
9/26/2019	96.2			225	129
3/26/2020			176		
3/27/2020	36			204	
3/30/2020		130			46.2
9/16/2020		143			
9/17/2020			153		
9/21/2020	84.2			221	114
3/15/2021	50.1	148			92.1
3/16/2021			162	189	
8/16/2021		136			
8/17/2021			154	194	105
8/18/2021	82.1				
2/8/2022					80.4
2/9/2022			123	197	
2/10/2022	32.5	141			
8/3/2022		140	135	190	
8/4/2022	80.5				76

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.001	<0.001	<0.001			
5/23/2016						<0.001
7/11/2016	<0.001	<0.001				
7/12/2016			<0.001			<0.001
8/30/2016	<0.001	<0.001	<0.001			
9/1/2016						<0.001
10/19/2016	<0.001	<0.001	<0.001			
10/24/2016						<0.001
12/6/2016	<0.001	<0.001	<0.001			
12/7/2016						<0.001
1/24/2017	<0.001	<0.001	<0.001			
1/26/2017						<0.001
3/21/2017	<0.001	3E-05 (J)	<0.001			
3/22/2017						<0.001
5/22/2017	<0.001	<0.001	<0.001			
5/24/2017						<0.001
4/2/2018	<0.001	<0.001				
4/3/2018			<0.001			
4/4/2018						<0.001
6/4/2018	<0.001	<0.001	<0.001			
6/5/2018						<0.001
10/1/2018	<0.001	<0.001	<0.001			
10/2/2018						<0.001
3/12/2019	<0.001	<0.001	<0.001			
3/13/2019						<0.001
4/1/2019			<0.001			
4/2/2019	<0.001	<0.001				
4/3/2019						<0.001
9/23/2019	<0.001	<0.001	<0.001			
9/27/2019						<0.001
3/2/2020	<0.001	<0.001	<0.001			
3/3/2020						<0.001
3/25/2020	<0.001	<0.001	<0.001			
4/1/2020						<0.001
9/15/2020	<0.001	<0.001	<0.001			
9/16/2020				<0.001	<0.001	<0.001
11/10/2020				<0.001	<0.001	
12/15/2020				<0.001	<0.001	
1/19/2021				<0.001	<0.001	
2/8/2021	<0.001					
2/9/2021		<0.001	<0.001	<0.001	<0.001	
2/15/2021						<0.001
3/10/2021	<0.001				<0.001	
3/11/2021		<0.001	<0.001	<0.001		
3/12/2021						<0.001
8/11/2021	<0.001			<0.001		
8/12/2021		<0.001	<0.001			
8/13/2021					<0.001	
8/17/2021						<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
2/9/2022						<0.001
8/2/2022	<0.001	<0.001	<0.001	<0.001	<0.001	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
8/3/2022						<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.001	<0.001	
5/23/2016	<0.001	<0.001	0.000378 (J)			<0.001
7/12/2016	8E-05 (J)	0.0002 (J)	0.0004 (J)	<0.001	7E-05 (J)	<0.001
9/1/2016	<0.001	<0.001	0.0004 (J)	<0.001	<0.001	<0.001
10/20/2016				<0.001	<0.001	<0.001
10/24/2016	<0.001	<0.001	0.0005 (J)			
12/6/2016				<0.001	<0.001	<0.001
12/7/2016	<0.001	<0.001	0.0004 (J)			
1/25/2017				<0.001	<0.001	
1/26/2017	<0.001	<0.001	0.0004 (J)			<0.001
3/21/2017				<0.001	9E-05 (J)	
3/22/2017	<0.001	0.0001 (J)	0.0004 (J)			<0.001
5/23/2017				<0.001	8E-05 (J)	<0.001
5/24/2017	8E-05 (J)	9E-05 (J)	0.0003 (J)			
4/3/2018				<0.001	<0.001	<0.001
4/4/2018	<0.001	<0.001	0.00032 (J)			
6/5/2018	<0.001		0.00035 (J)	<0.001		
6/6/2018		<0.001			<0.001	<0.001
10/2/2018				<0.001	<0.001	<0.001
10/3/2018	<0.001	<0.001				
10/5/2018			0.00025 (J)			
3/12/2019					<0.001	
3/13/2019	<0.001		0.00039 (J)	<0.001		<0.001
3/14/2019		<0.001				
4/2/2019				<0.001		
4/3/2019	<0.001	<0.001			<0.001	<0.001
4/5/2019			0.00034 (J)			
9/24/2019					0.00011 (J)	
9/25/2019				<0.001		
9/26/2019			0.00039 (J)			
9/27/2019	<0.001	8.8E-05 (J)				<0.001
3/3/2020	<0.001	6.6E-05 (J)			6.1E-05 (J)	
3/4/2020			0.00056 (J)	<0.001		<0.001
3/26/2020		8E-05 (J)				
3/27/2020				<0.001	7.7E-05 (J)	
3/30/2020			0.00048 (J)			
3/31/2020	<0.001					<0.001
9/16/2020				<0.001	<0.001	
9/17/2020						<0.001
9/18/2020	<0.001	<0.001				
9/21/2020			0.00036 (J)			
2/10/2021				<0.001		
2/12/2021	<0.001	<0.001				
2/16/2021					<0.001	<0.001
2/22/2021			0.0003 (J)			
3/15/2021				<0.001	<0.001	
3/16/2021	<0.001	<0.001				<0.001
3/17/2021			0.00037 (J)			
8/16/2021				<0.001		
8/17/2021						<0.001
8/18/2021	<0.001	<0.001			<0.001	
8/19/2021			0.0002 (J)			

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	<0.001	<0.001				<0.001
2/10/2022			<0.001	<0.001	<0.001	
8/3/2022	<0.001	<0.001	<0.001		0.00018 (J)	
8/4/2022						<0.001
8/11/2022				<0.001		



# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.001	<0.001		<0.001	<0.001
3/14/2019	<0.001			<0.001		
4/2/2019		<0.001				
4/3/2019	<0.001			<0.001	<0.001	
4/4/2019						<0.001
4/8/2019			<0.001			
9/25/2019		<0.001				
9/26/2019			<0.001		<0.001	<0.001
9/27/2019	0.00027 (J)			<0.001		
3/2/2020		<0.001				
3/3/2020				<0.001		
3/4/2020	0.00026 (J)		<0.001		<0.001	<0.001
3/26/2020	0.00026 (J)			<0.001		
3/27/2020		<0.001				
3/30/2020			<0.001			
3/31/2020					<0.001	
4/2/2020						<0.001
9/17/2020		<0.001			<0.001	
9/18/2020				<0.001		<0.001
9/21/2020	0.0003 (J)		<0.001			
2/11/2021		<0.001				
2/12/2021	0.00019 (J)			<0.001		
2/16/2021			<0.001		<0.001	<0.001
3/12/2021						<0.001
3/15/2021		<0.001				
3/16/2021				<0.001		
3/17/2021	0.00026 (J)		<0.001		<0.001	
8/17/2021		<0.001			<0.001	<0.001
8/18/2021	0.00023 (J)					
8/19/2021			<0.001	<0.001		
2/9/2022	<0.001			<0.001	<0.001	
2/10/2022		<0.001	<0.001			<0.001
8/3/2022			<0.001			<0.001
8/4/2022	0.00026 (J)	<0.001		<0.001	<0.001	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.001	<0.001			
3/13/2019			<0.001	<0.001	<0.001
4/2/2019	<0.001	<0.001			
4/3/2019			<0.001	<0.001	<0.001
9/24/2019		6.4E-05 (J)			
9/25/2019			<0.001		
9/26/2019	<0.001			<0.001	<0.001
3/2/2020		<0.001	<0.001		
3/3/2020				8.2E-05 (J)	<0.001
3/4/2020	9.2E-05 (J)				
3/26/2020			<0.001		
3/27/2020	<0.001			<0.001	
3/30/2020		<0.001			<0.001
9/16/2020		<0.001			
9/17/2020			<0.001		
9/21/2020	<0.001			<0.001	<0.001
2/10/2021	<0.001				
2/15/2021		<0.001			<0.001
2/16/2021			<0.001	<0.001	
3/15/2021	<0.001	<0.001			<0.001
3/16/2021			<0.001	<0.001	
8/16/2021		<0.001			
8/17/2021			<0.001	<0.001	<0.001
8/18/2021	<0.001				
2/8/2022					<0.001
2/9/2022			<0.001	<0.001	
2/10/2022	<0.001	<0.001			
8/3/2022		<0.001	<0.001	<0.001	
8/4/2022	<0.001				<0.001

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	421	143	267			
5/23/2016						629
7/11/2016	363	125				
7/12/2016			249			661
8/30/2016	330	168	254			
9/1/2016						769
10/19/2016	380	176	357			
10/24/2016						643
12/6/2016	377	145	285			
12/7/2016						697
1/24/2017	342	129	300			
1/26/2017						368
3/21/2017	340	103	288			
3/22/2017						683
5/22/2017	338	92	263			
5/24/2017						696
10/3/2017	343	127	300			746
6/4/2018	415	140	266			
6/5/2018						679
10/1/2018	354	135	291			
10/2/2018						572
4/1/2019			284			
4/2/2019	452	133				
4/3/2019						525
9/23/2019	442	129	268			
9/27/2019						624
3/25/2020	496	138	284			
4/1/2020						290
6/16/2020	632		448			
9/15/2020	265	124	258			
9/16/2020				272	270	490
11/10/2020				307	287	
12/15/2020				289	295	
1/19/2021				270	278	
3/10/2021	348				289	
3/11/2021		169	267	279		
3/12/2021						490 (H1)
8/11/2021	366			277		
8/12/2021		118	265			
8/13/2021					436	
8/17/2021						496
2/1/2022	270	156	350	156	444	
2/9/2022						250
8/2/2022	400	196	287	278	311	
8/3/2022						433

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				427	711	
5/23/2016	564	1060	683			984
7/12/2016	627	909	563	410	704	887
9/1/2016	656	1480	702	484	763	956
10/20/2016				393	644	642
10/24/2016	836	868	647			
12/6/2016				492	733	899
12/7/2016	748	811	465			
1/25/2017				461	744	
1/26/2017	571	846	411			869
3/21/2017				415	818	
3/22/2017	597	804	427			936
5/23/2017				450	765	939
5/24/2017	566	803	377			
10/3/2017	443	608	268	464	812	1040
6/5/2018	489		528	459		
6/6/2018		535			611	810
10/2/2018				426	597	693
10/3/2018	449	607				
10/5/2018			322			
4/2/2019				428		
4/3/2019	483	462			543	673
4/5/2019			331			
9/24/2019					457	
9/25/2019				503		
9/26/2019			1010			
9/27/2019	528	653				730
3/26/2020		533				
3/27/2020				413	541	
3/30/2020			895			
3/31/2020	565					1010
6/16/2020					573	
6/17/2020				423		
9/16/2020				392	552	
9/17/2020						680
9/18/2020	626	704				
9/21/2020			732			
3/15/2021				370	614	
3/16/2021	558	614				672
3/17/2021			716			
8/16/2021				407		
8/17/2021						704
8/18/2021	566	600			620	
8/19/2021			726			
2/9/2022	544	678				756
2/10/2022			814	414	578	
8/3/2022	572	650	958		648	
8/4/2022						760
8/11/2022				445		

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		435				
4/3/2019	310			15 (J)	493	
4/4/2019						203
4/8/2019			323			
9/25/2019		461				
9/26/2019			360		643	265
9/27/2019	442			409		
3/26/2020	626			385		
3/27/2020		429				
3/30/2020			280			
3/31/2020					623	
4/2/2020						224
9/17/2020		460			732	
9/18/2020				382		211
9/21/2020	608		391			
3/12/2021						215
3/15/2021		406				
3/16/2021				347		
3/17/2021	543		420		738	
8/17/2021		437			746	239
8/18/2021	464					
8/19/2021			420	373		
2/9/2022	503			364	734	
2/10/2022		459	412			242
8/3/2022			415			230
8/4/2022	762	431		302	788	

# Time Series

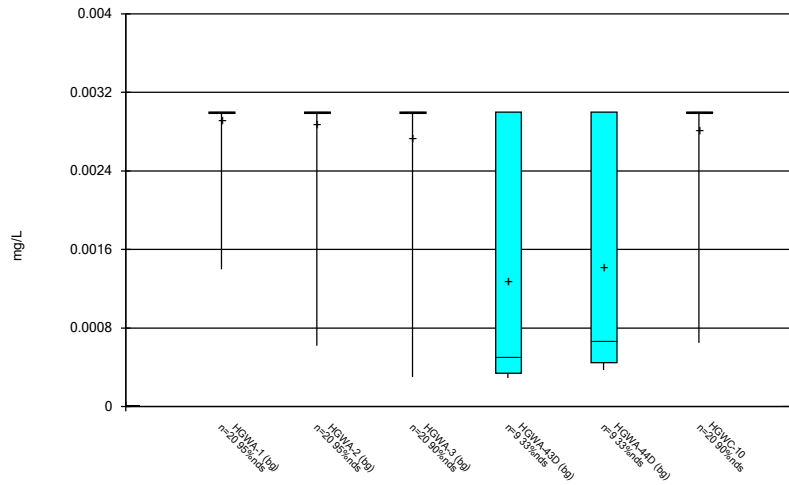
Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/8/2022 12:11 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	350	548			
4/3/2019			396	437	213
9/24/2019		603			
9/25/2019			460		
9/26/2019	418			735	383
3/26/2020			385		
3/27/2020	287			676	
3/30/2020		552			142
9/16/2020		547			
9/17/2020			486		
9/21/2020	393			656	326
3/15/2021	293	555			293
3/16/2021			333	600	
8/16/2021		512			
8/17/2021			339	656	344
8/18/2021	396				
2/8/2022					290
2/9/2022			314	652	
2/10/2022	299	508			
8/3/2022		538	391	666	
8/4/2022	378				246

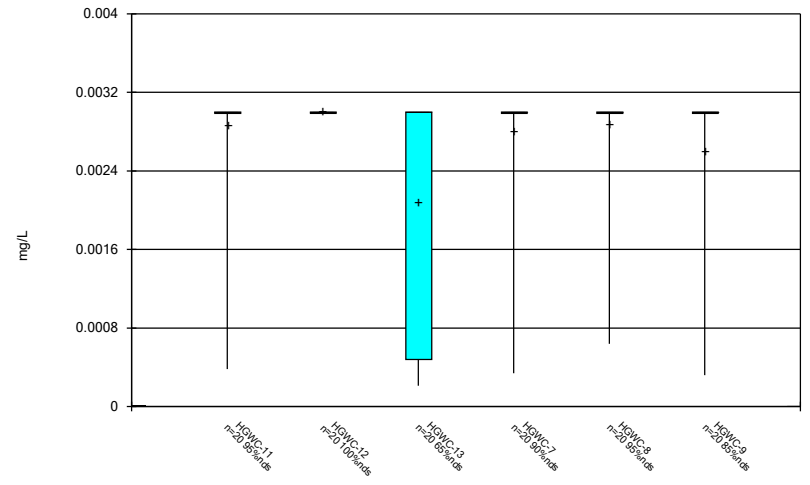
FIGURE B.

Box & Whiskers Plot



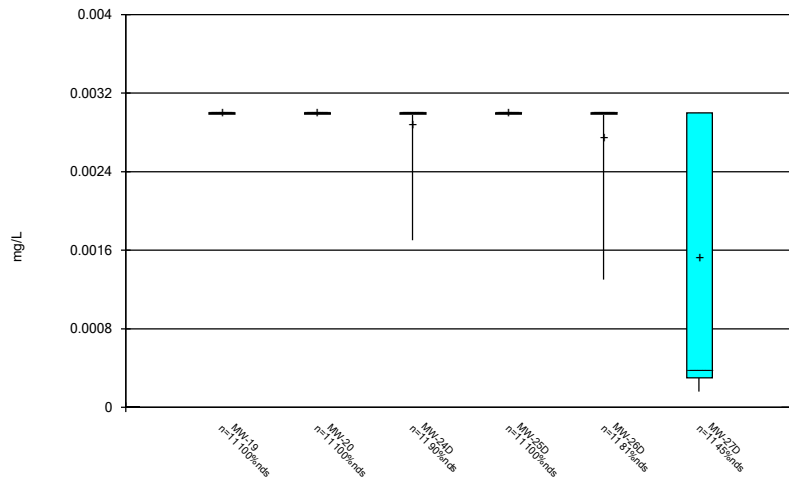
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



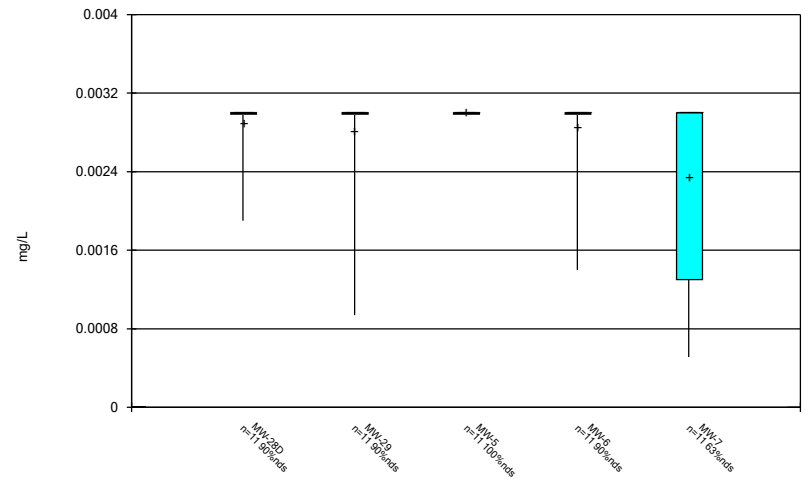
Constituent: Antimony Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

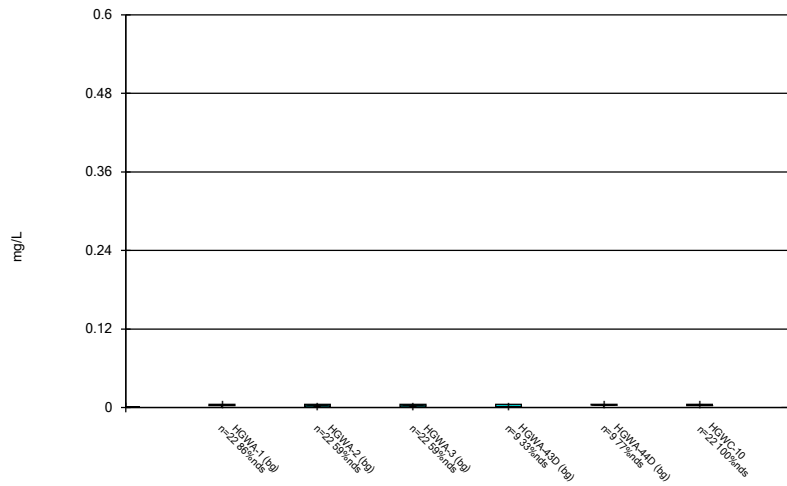
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

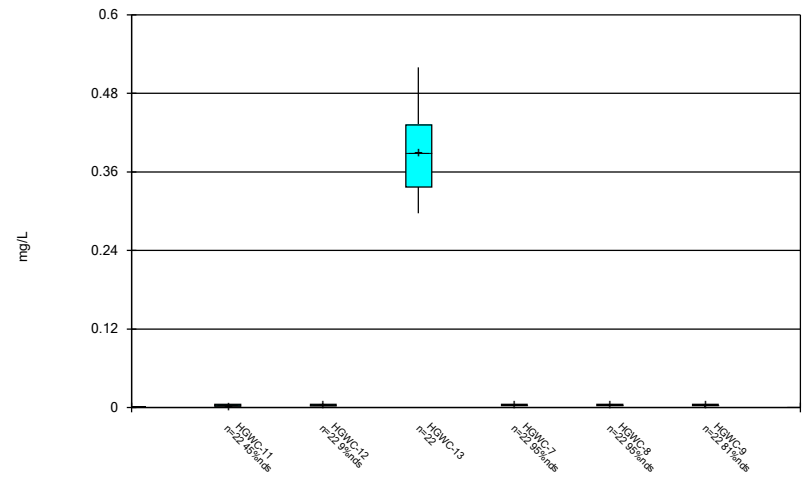


Box & Whiskers Plot



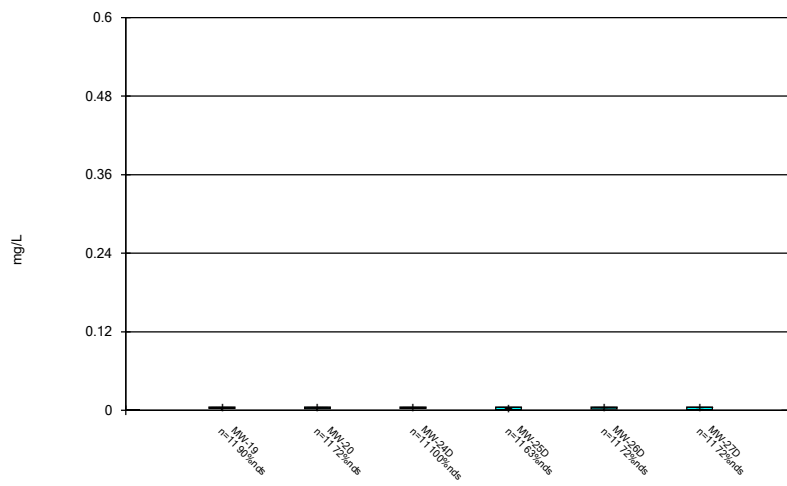
Constituent: Arsenic Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



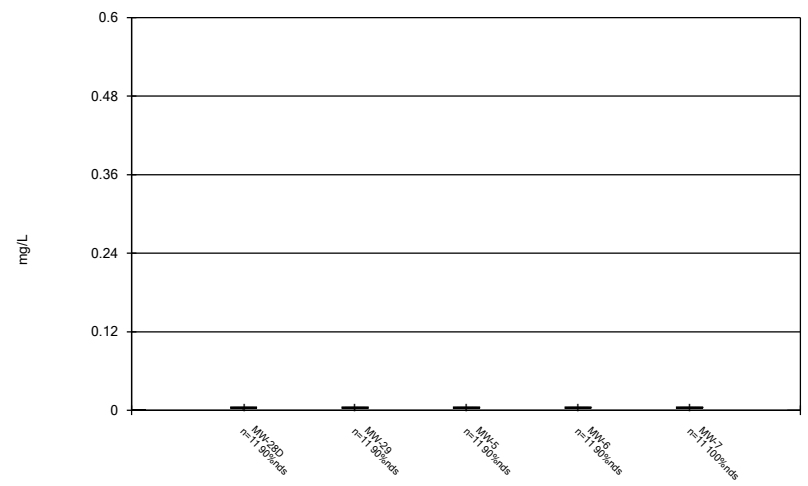
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



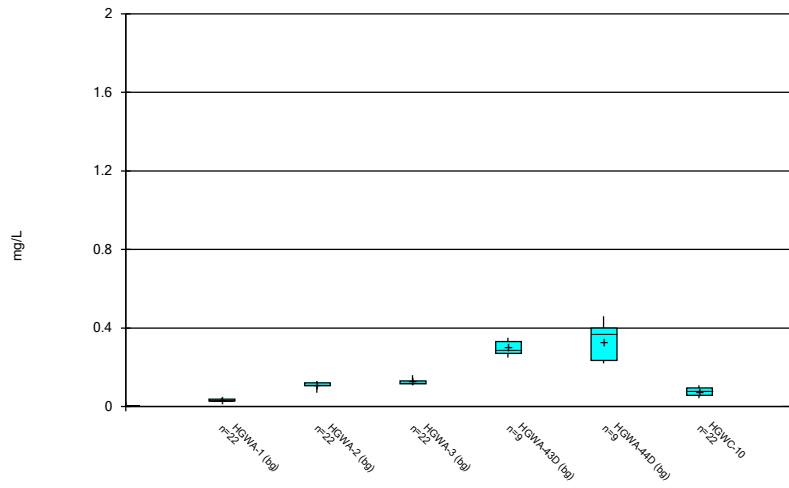
Constituent: Arsenic Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



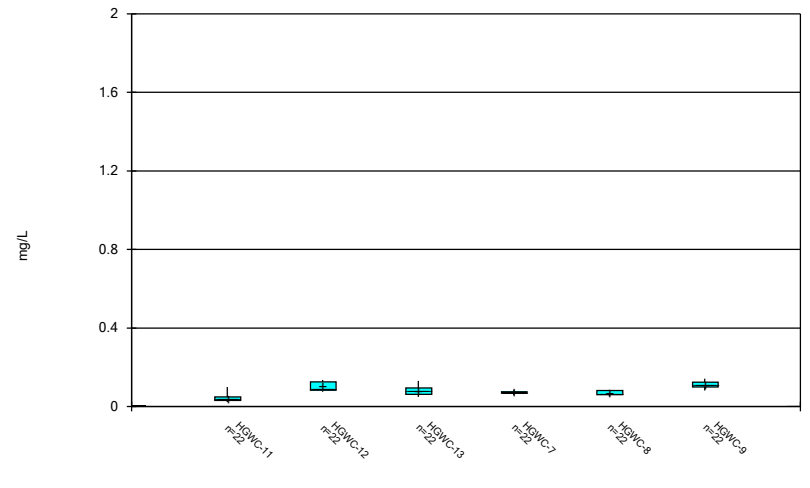
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



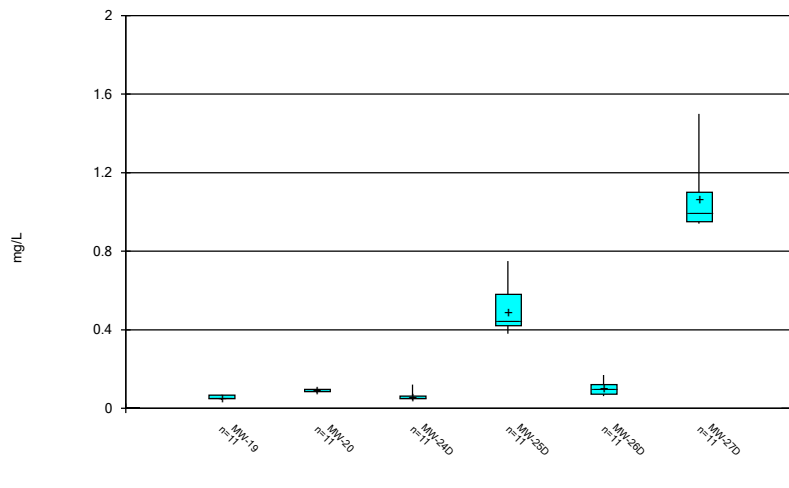
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



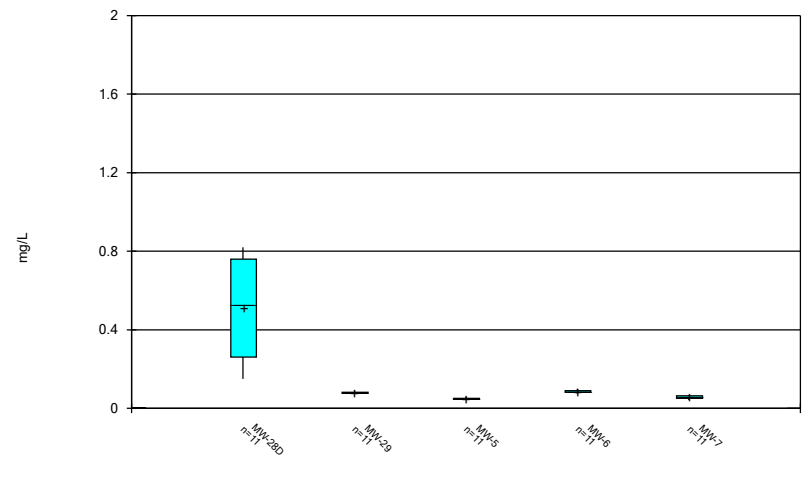
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



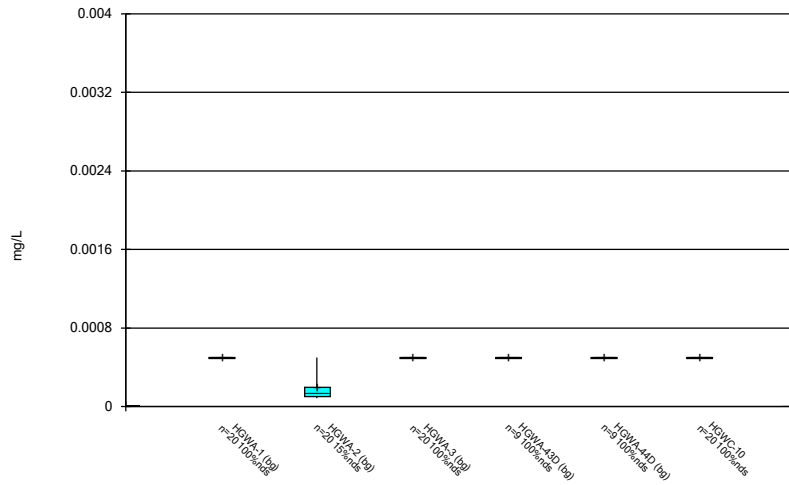
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



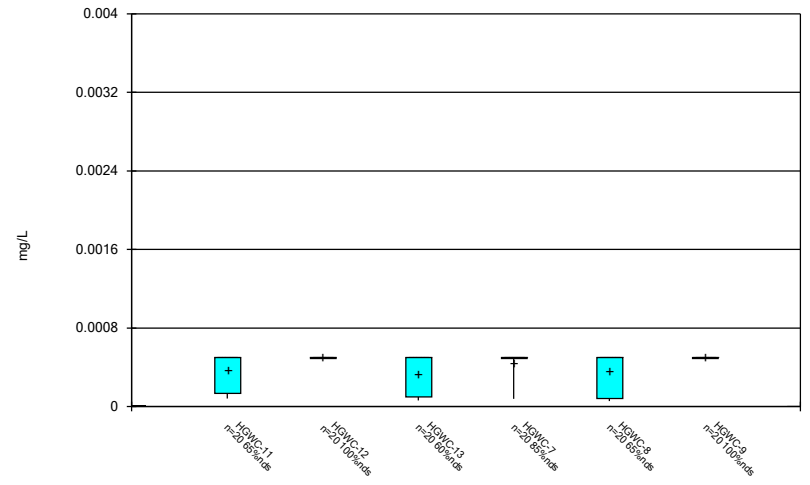
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



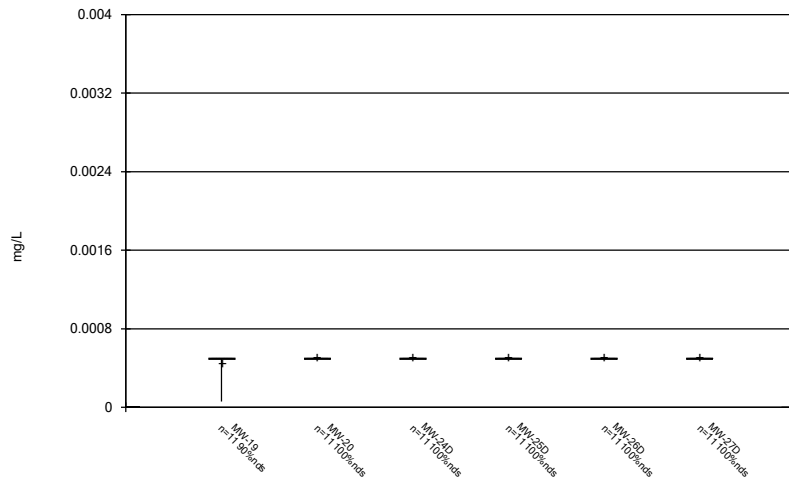
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



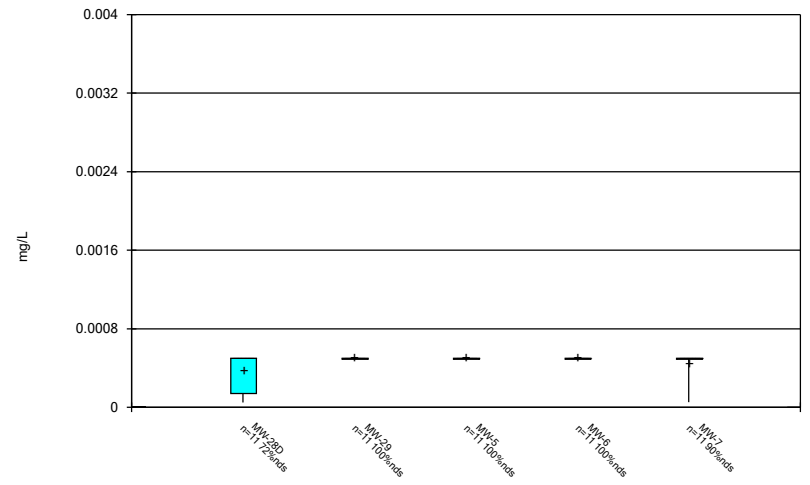
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



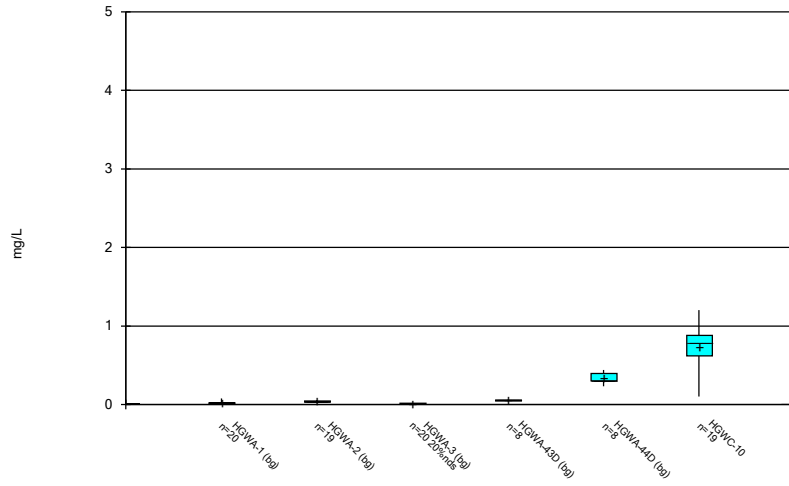
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



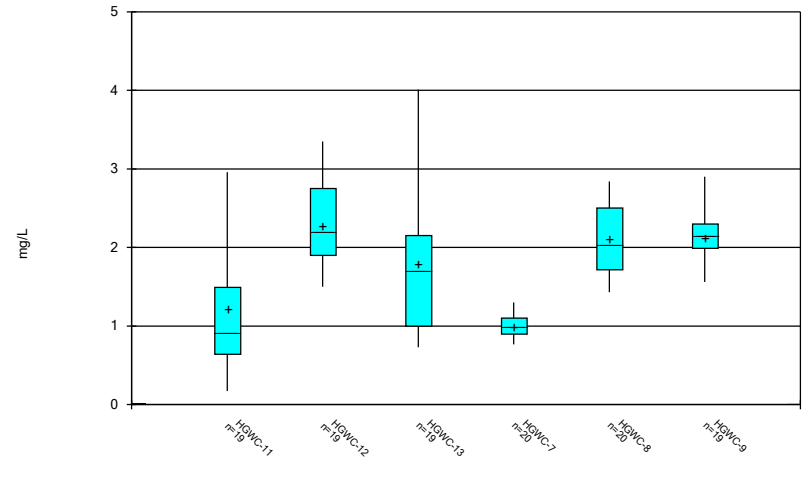
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



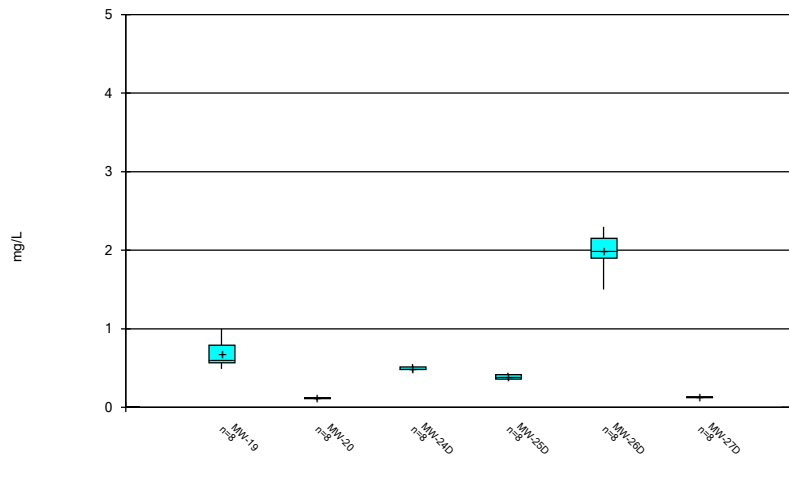
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



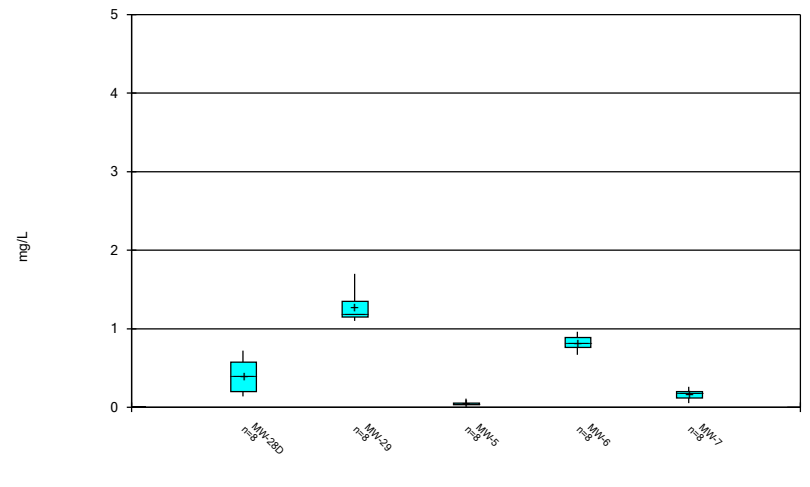
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



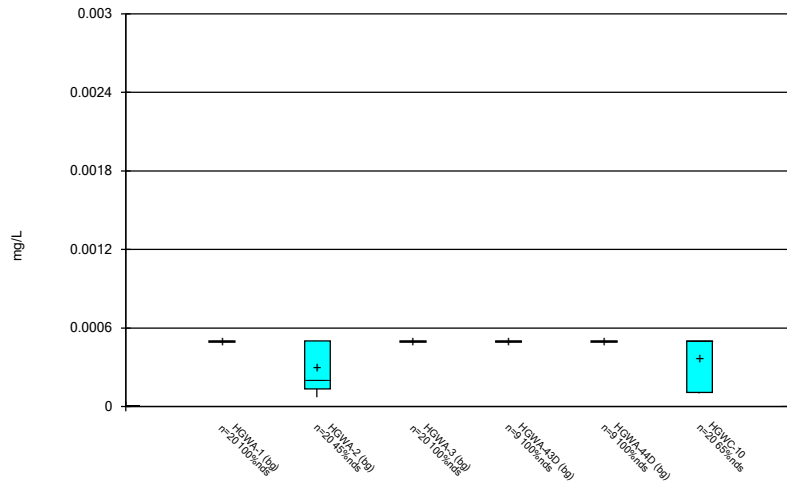
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



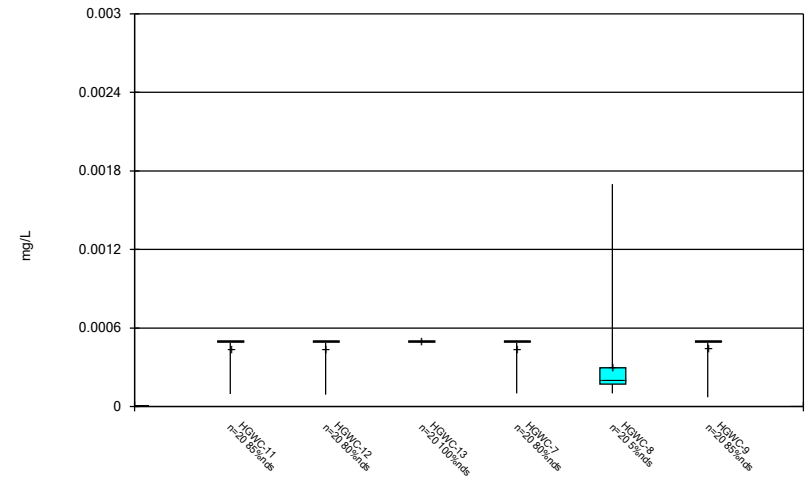
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



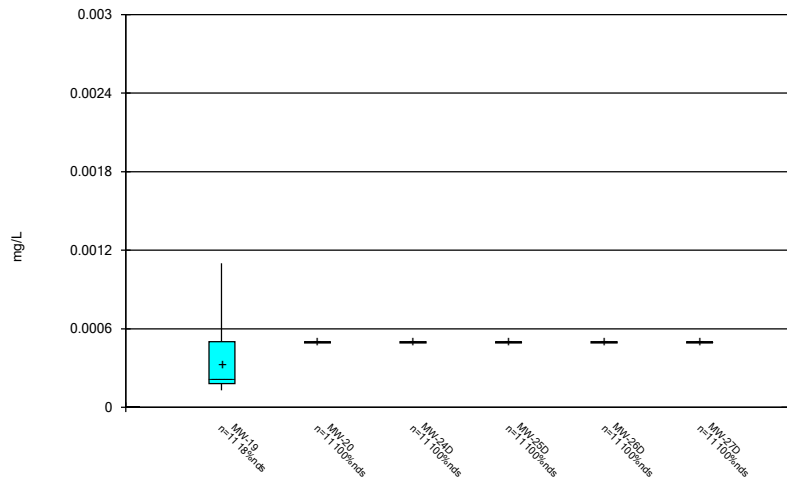
Constituent: Cadmium Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



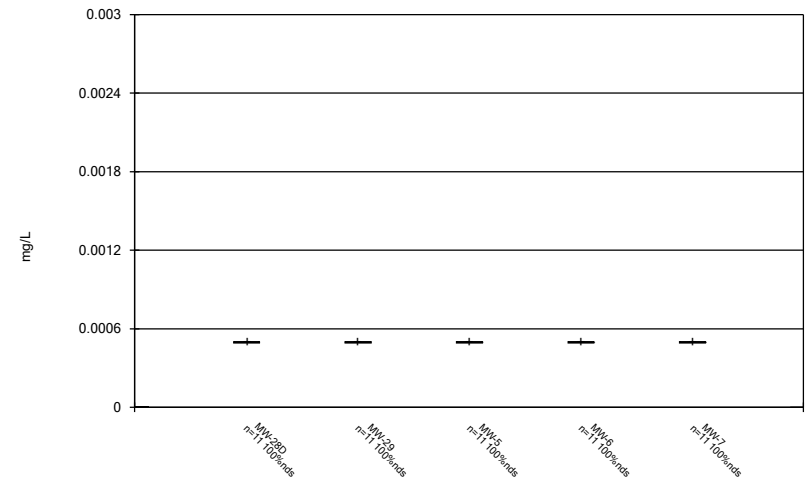
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



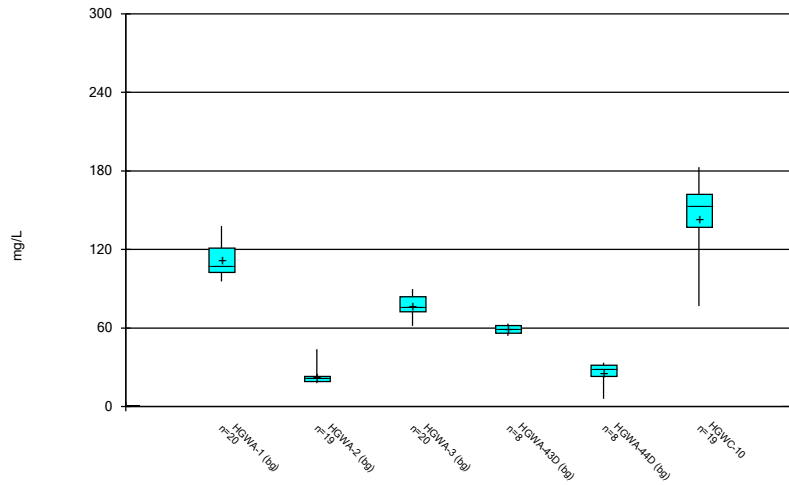
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



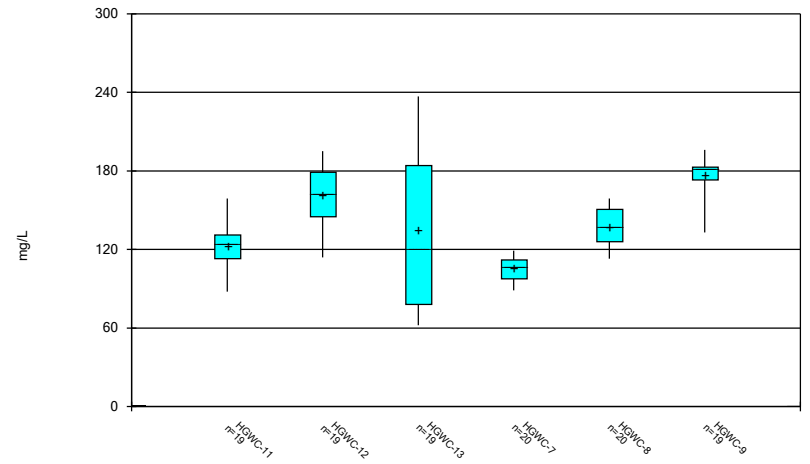
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



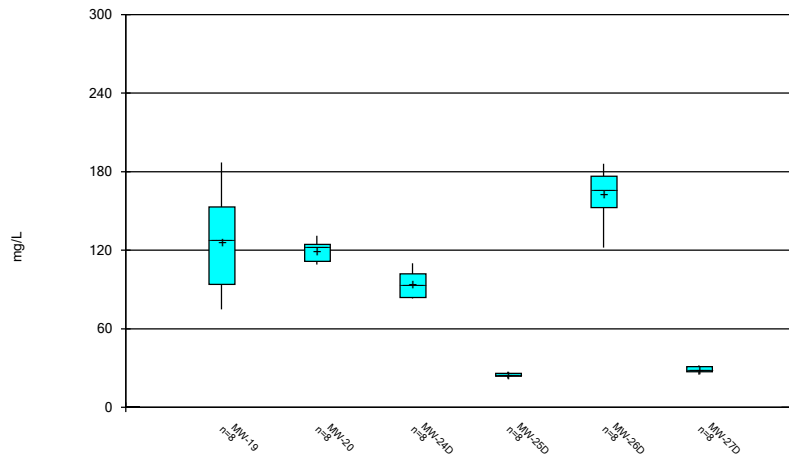
Constituent: Calcium Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



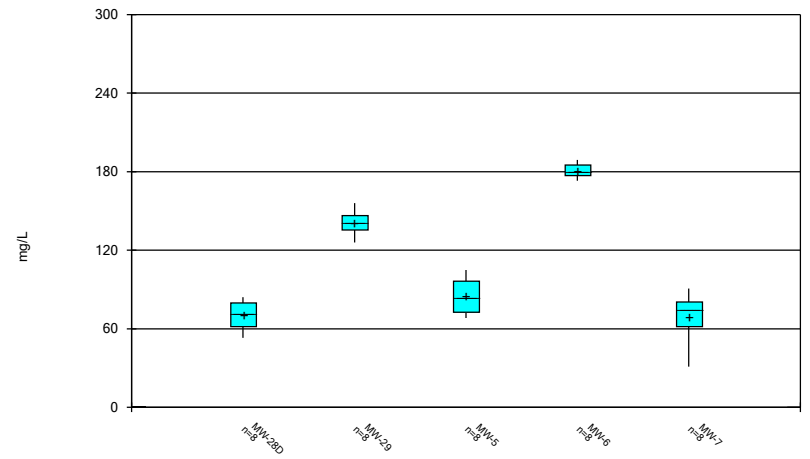
Constituent: Calcium Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



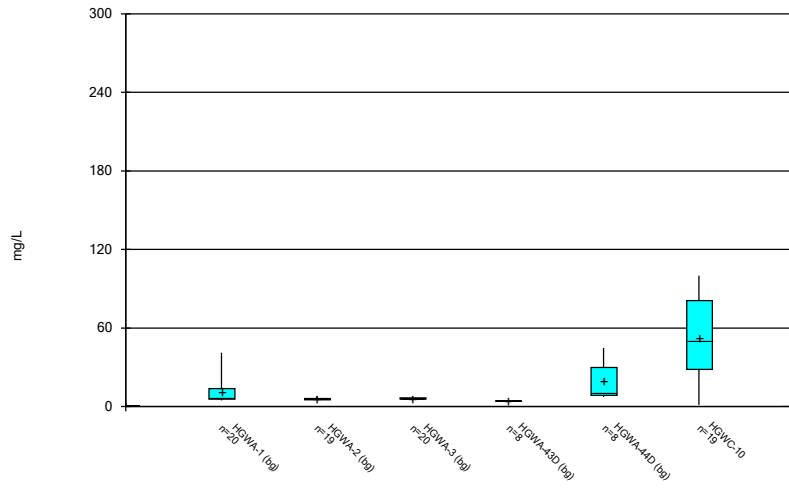
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



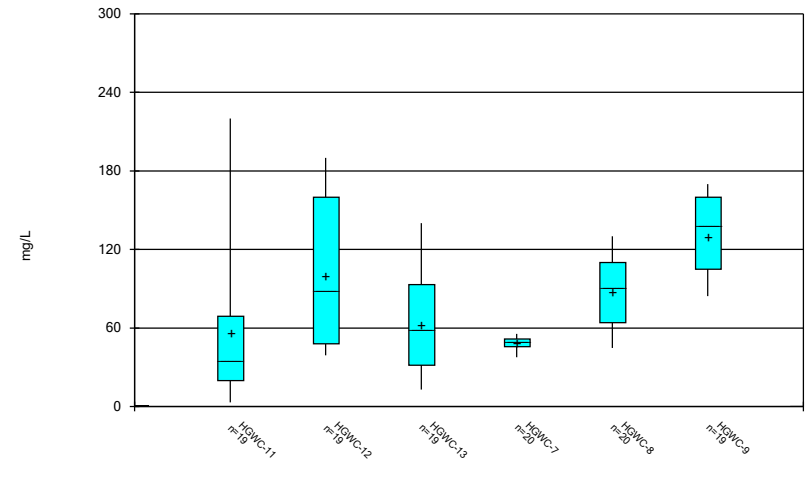
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



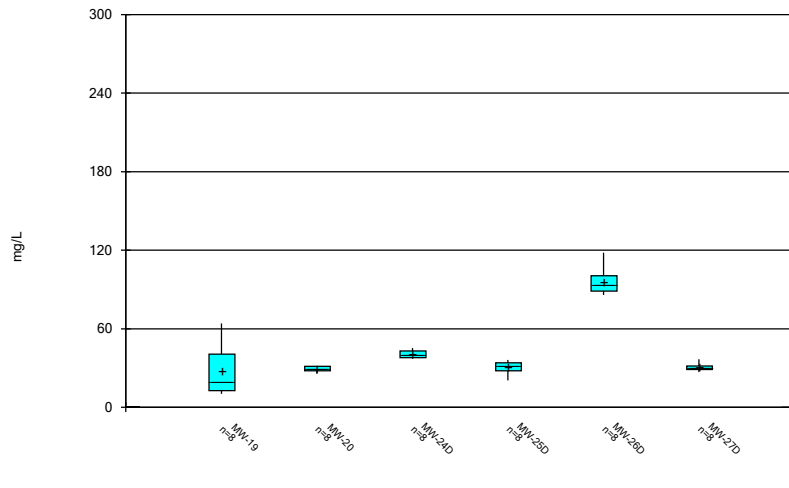
Constituent: Chloride Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



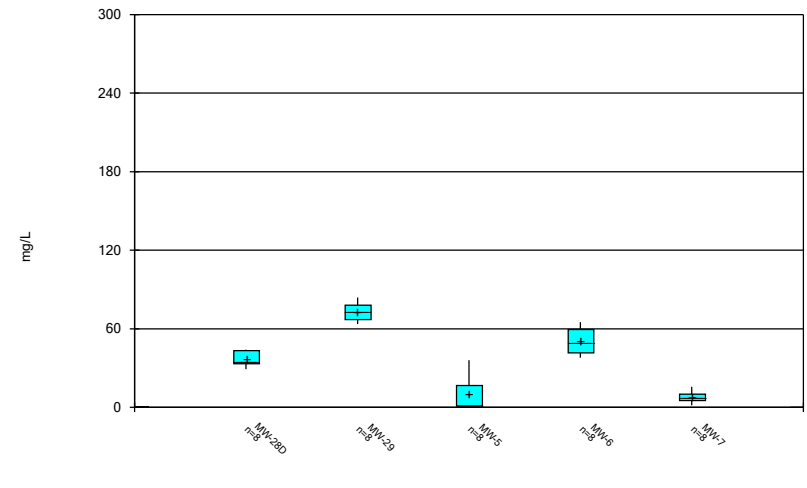
Constituent: Chloride Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



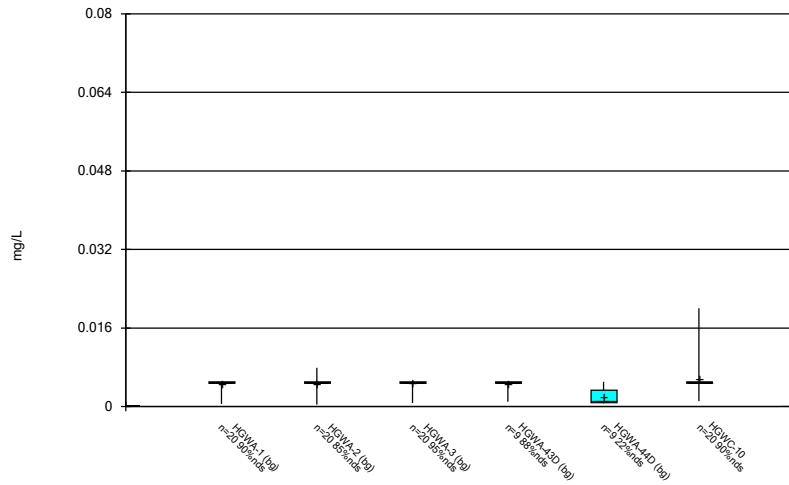
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



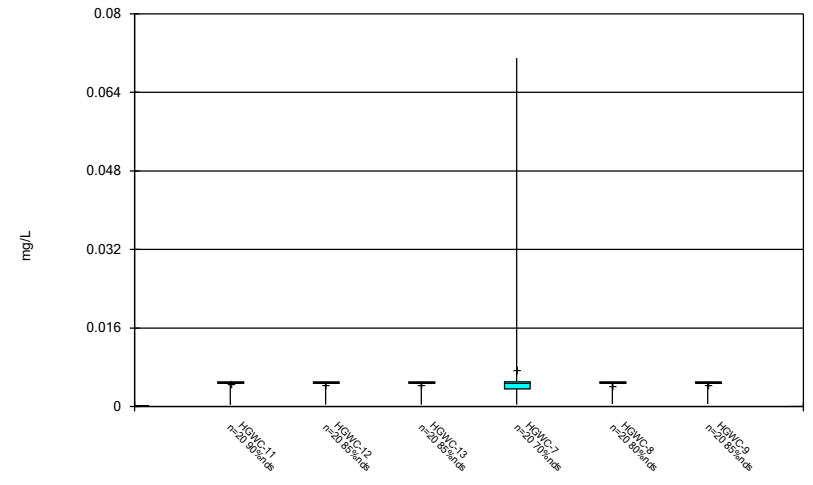
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



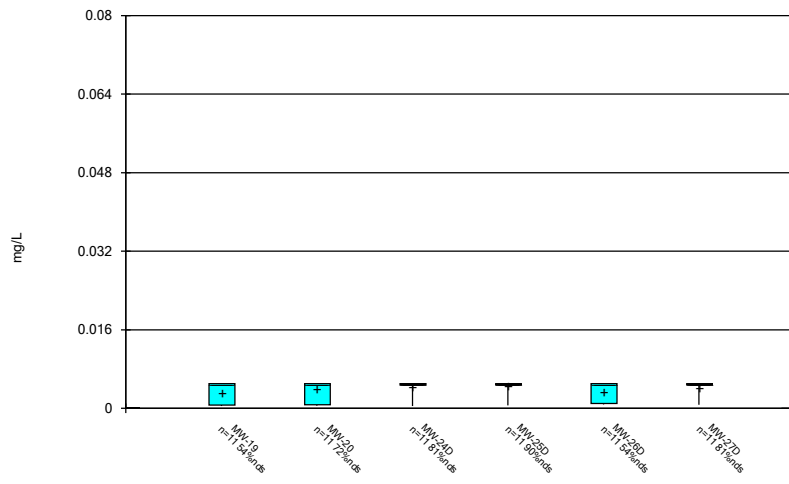
Constituent: Chromium Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



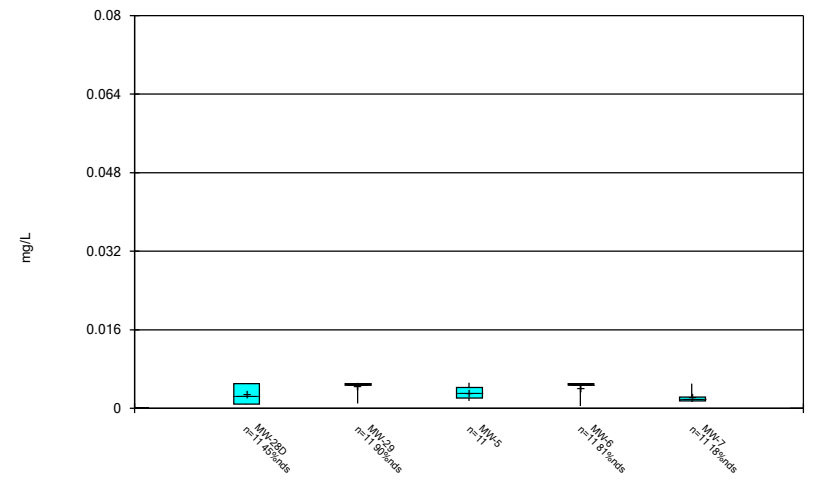
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

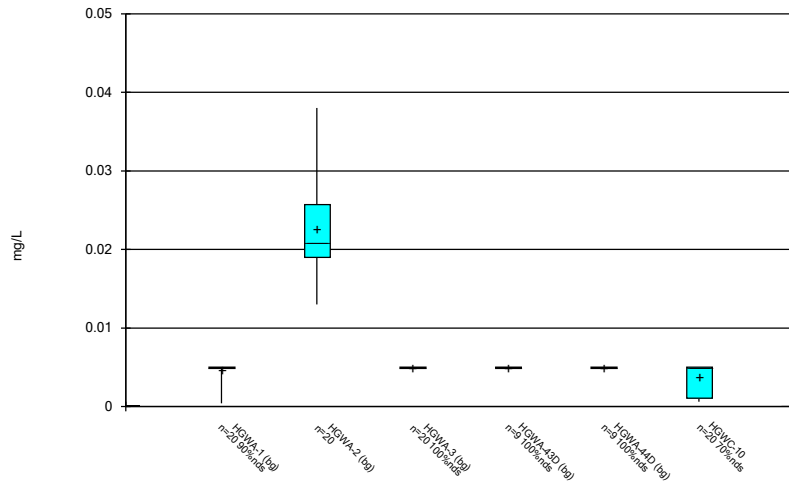
### Box & Whiskers Plot



Constituent: Chromium Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

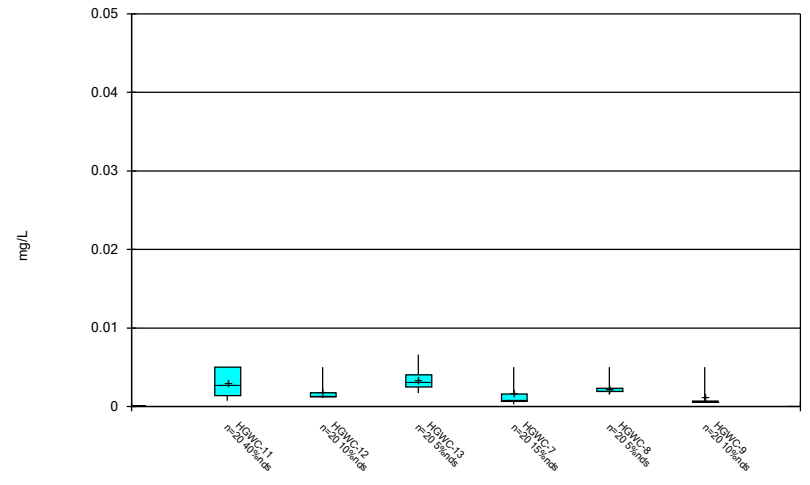


Box & Whiskers Plot



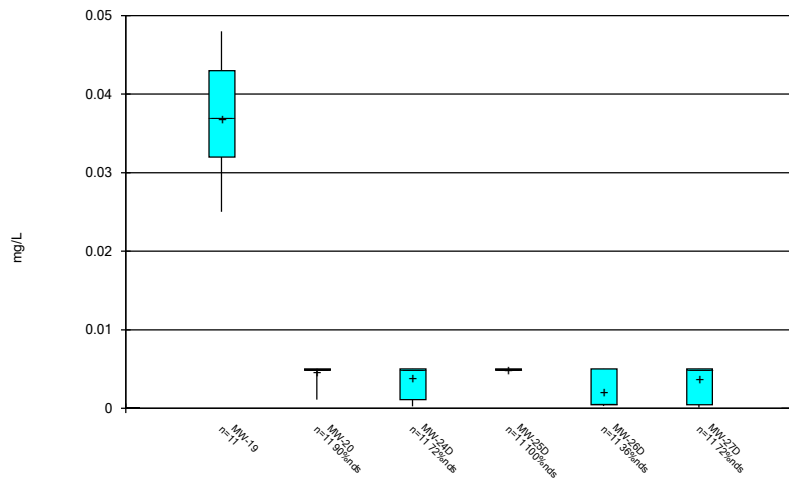
Constituent: Cobalt Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



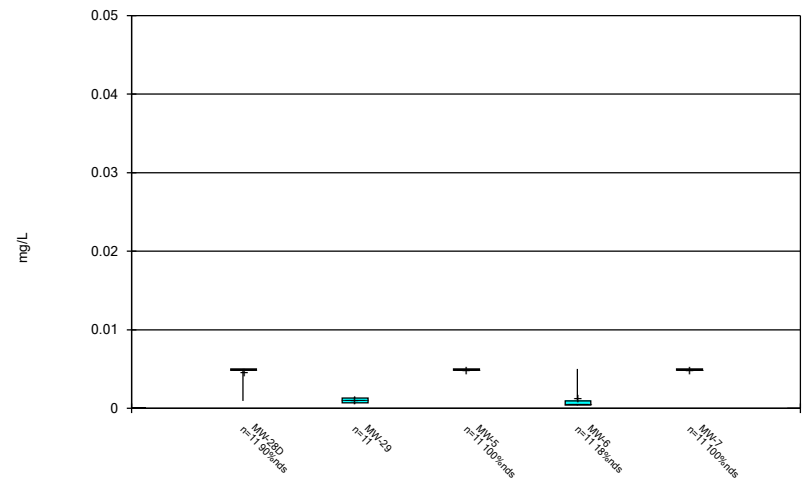
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



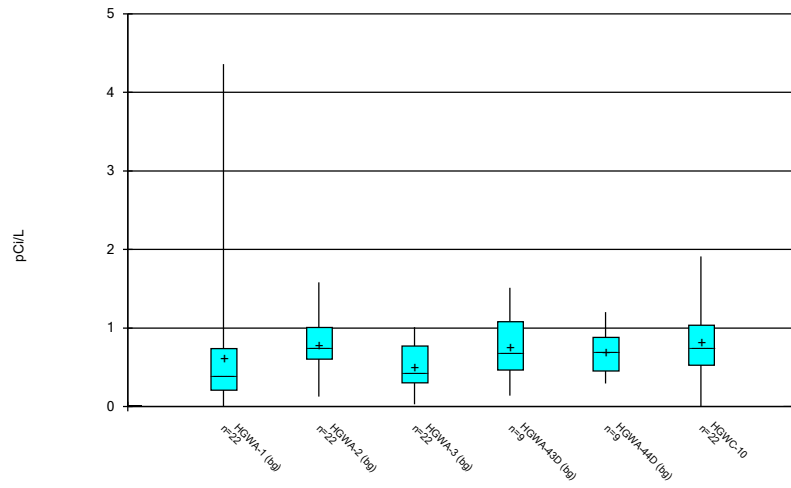
Constituent: Cobalt Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



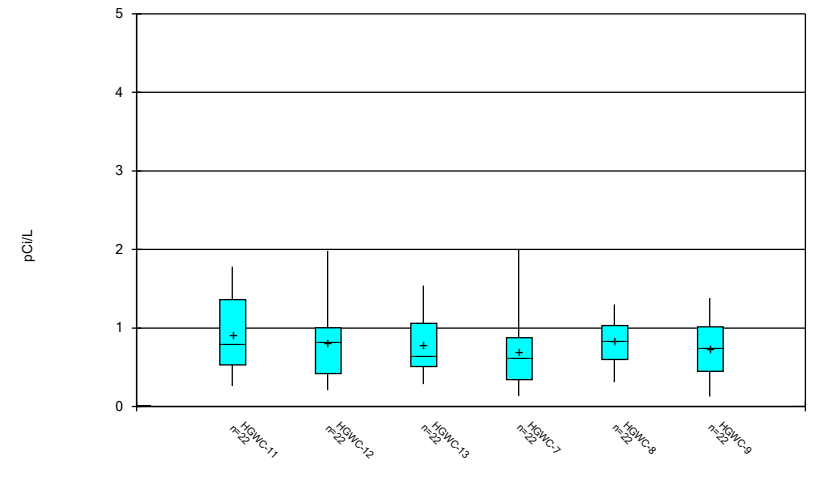
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



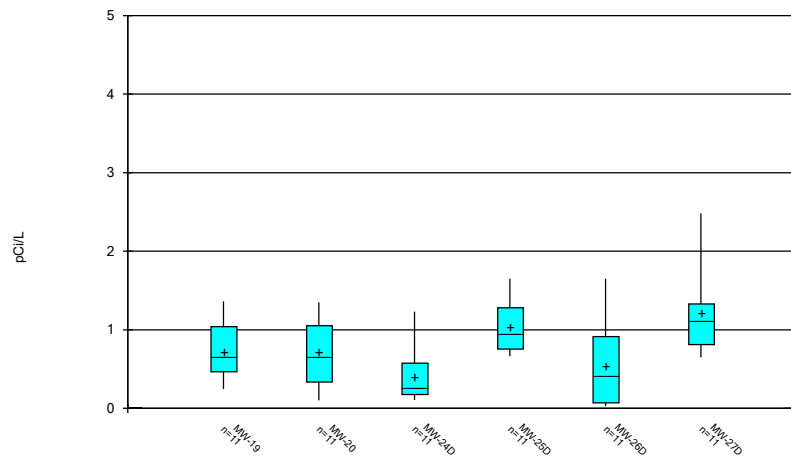
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



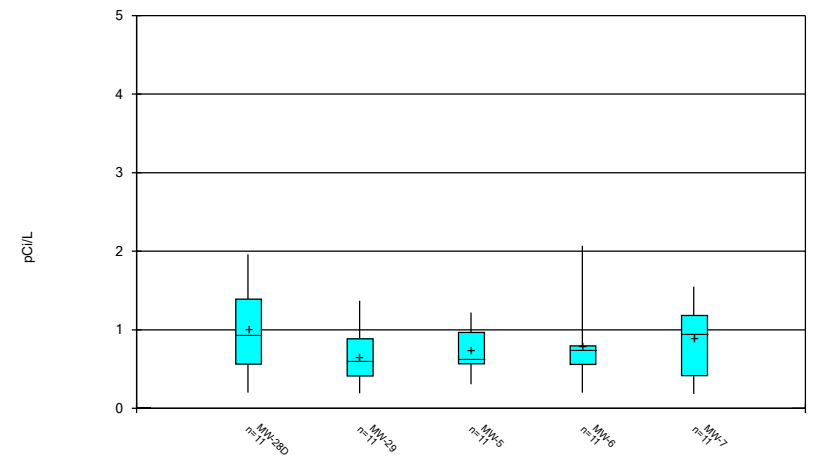
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



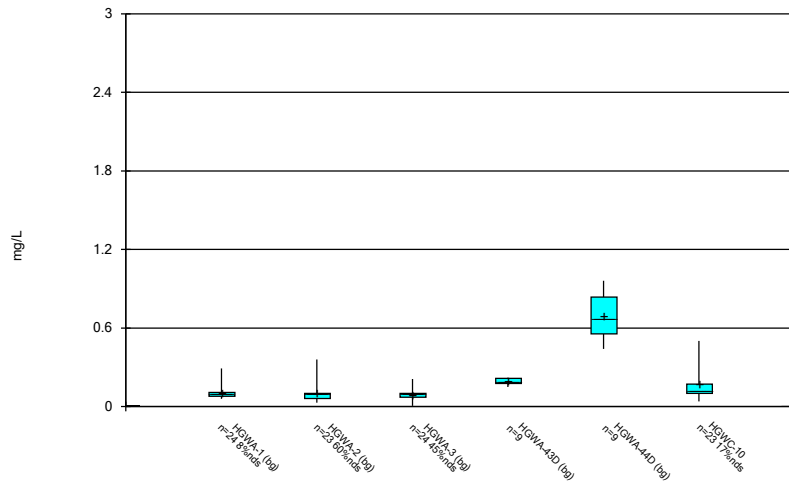
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



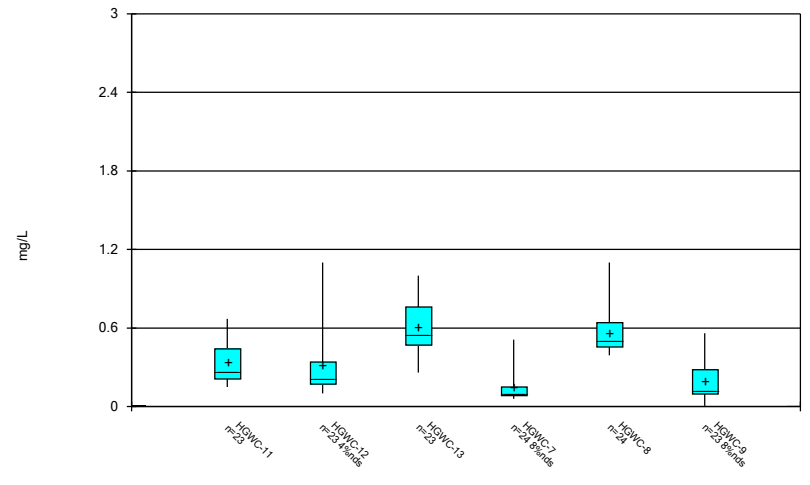
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



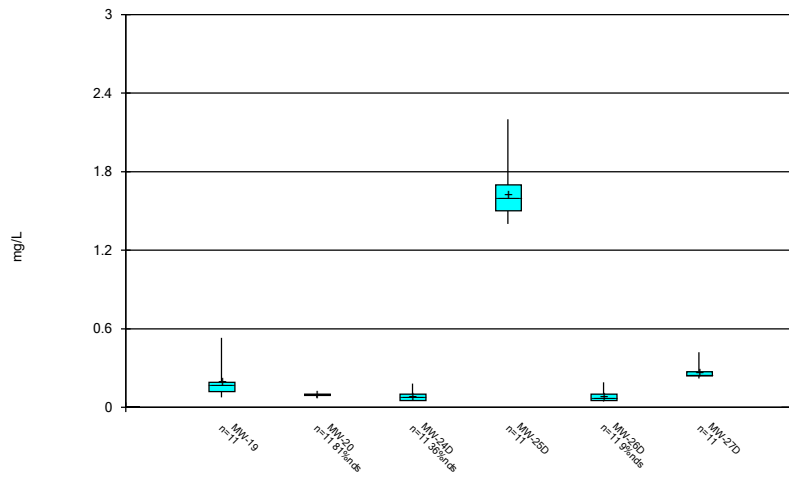
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



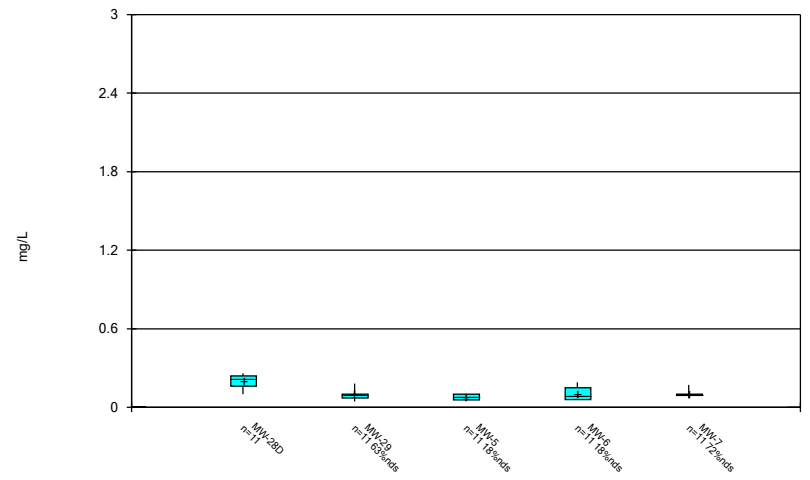
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



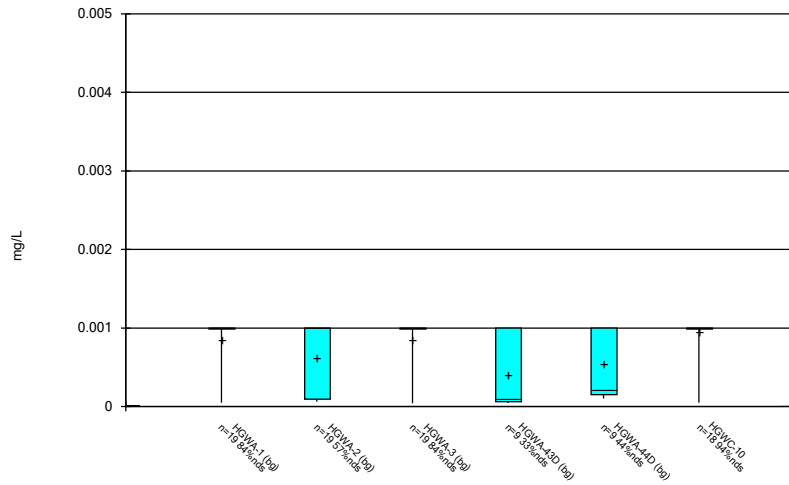
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



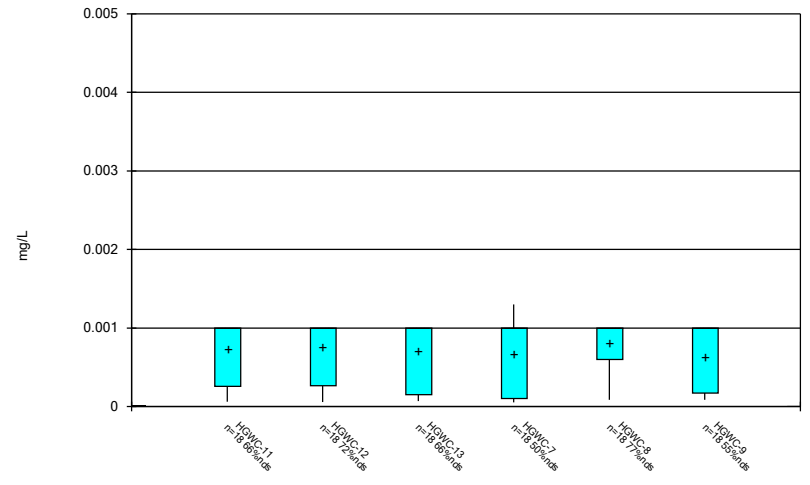
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Box & Whiskers Plot



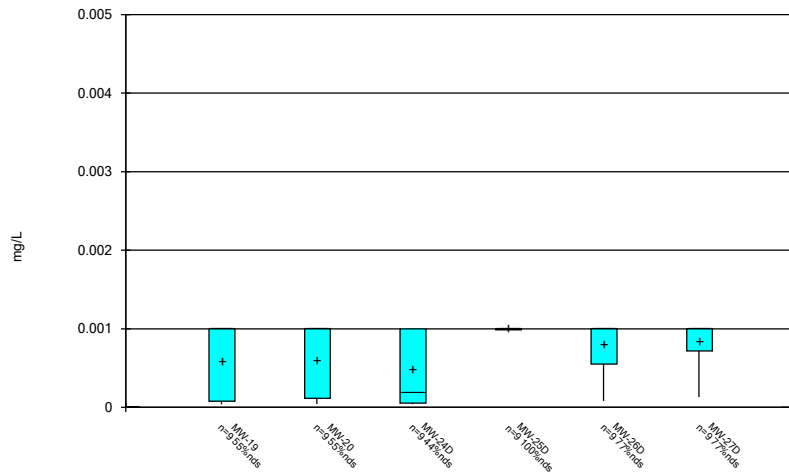
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



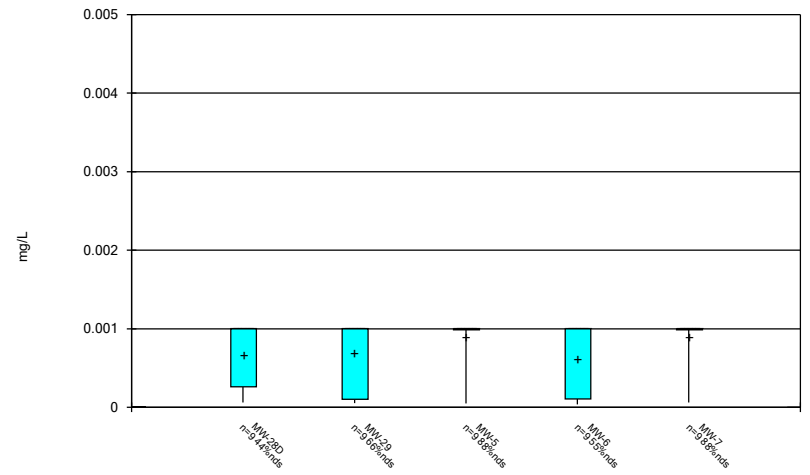
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



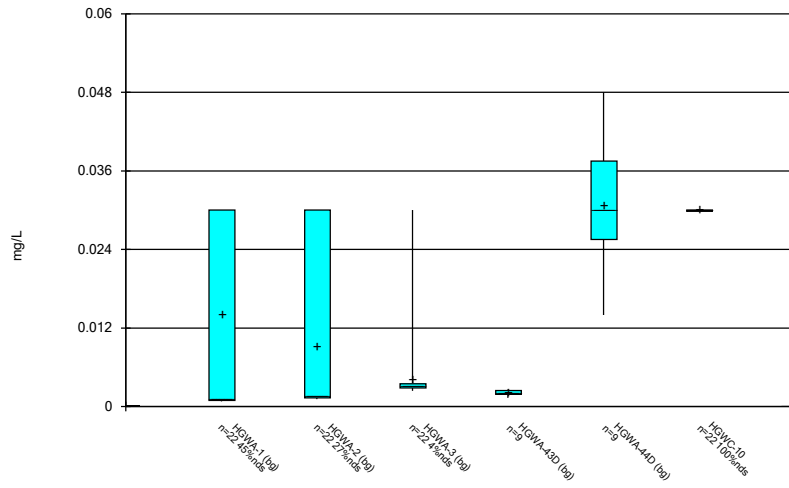
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



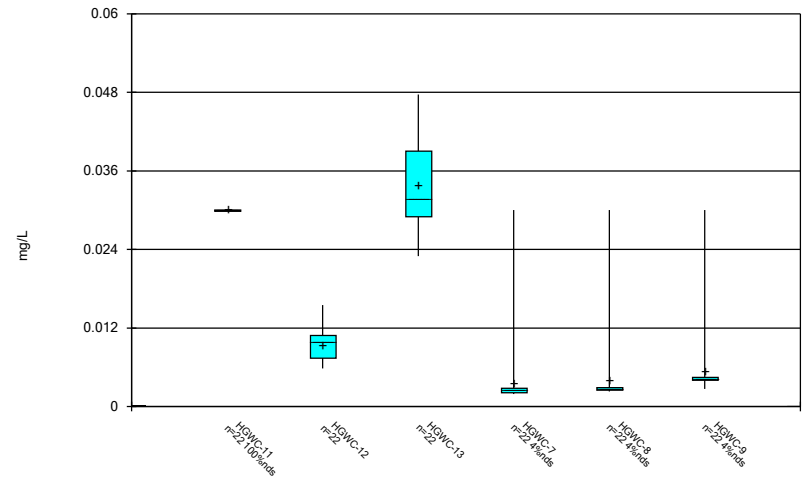
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



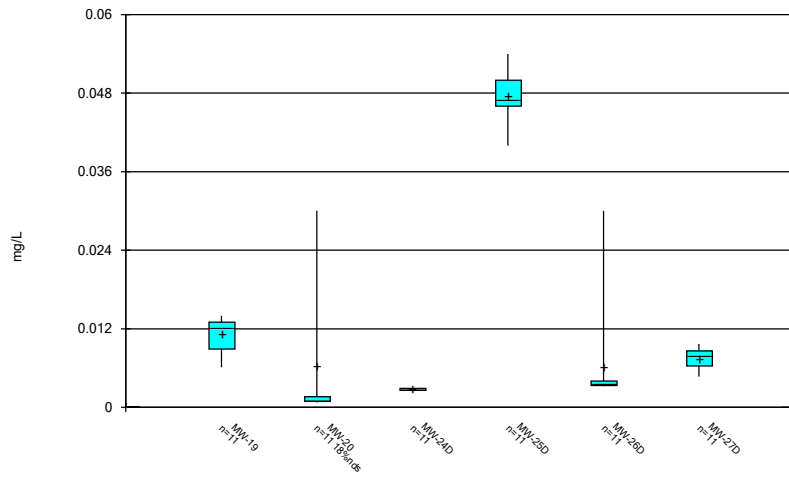
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



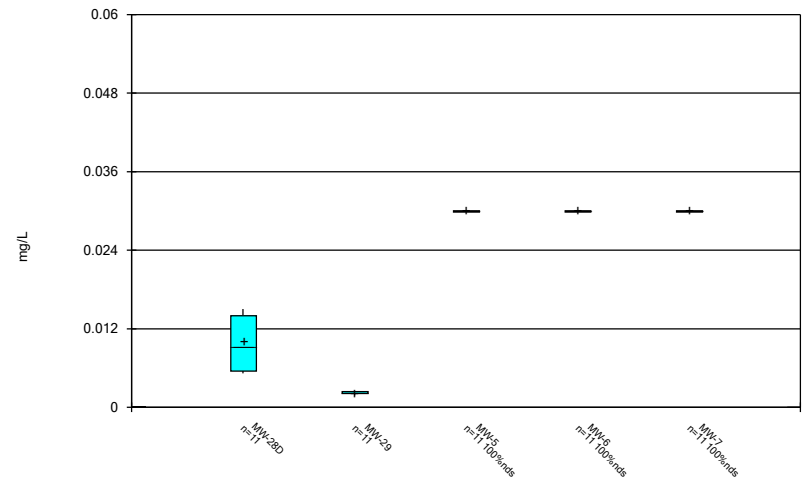
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Box & Whiskers Plot



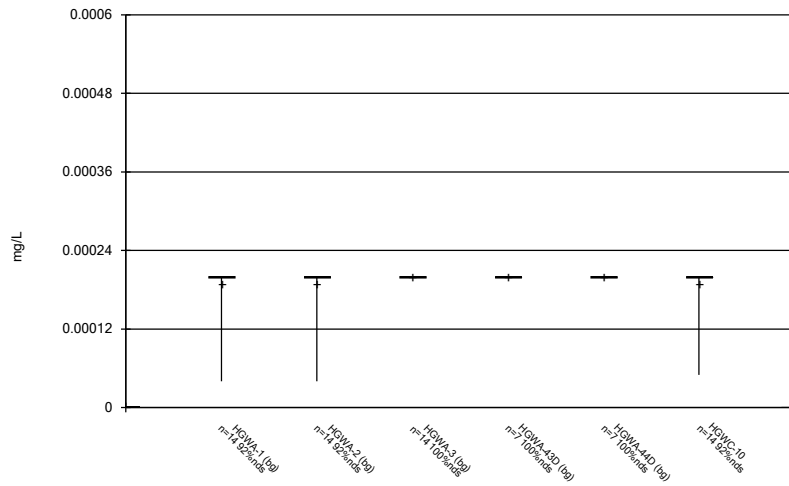
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Box & Whiskers Plot



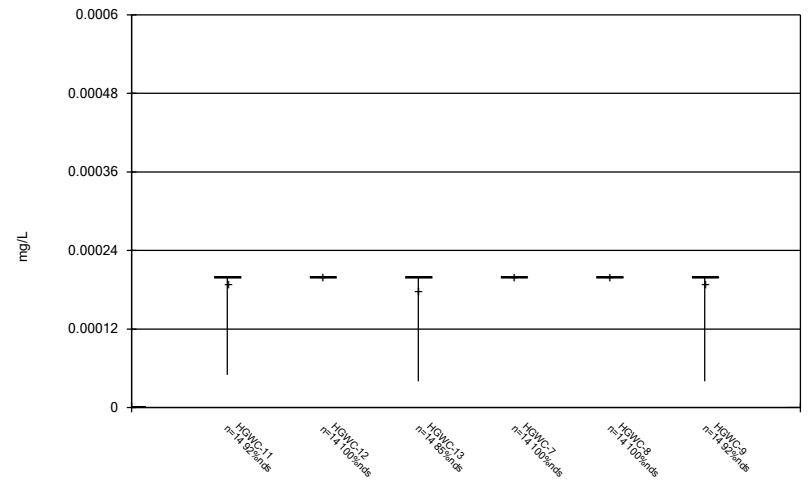
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### Box & Whiskers Plot



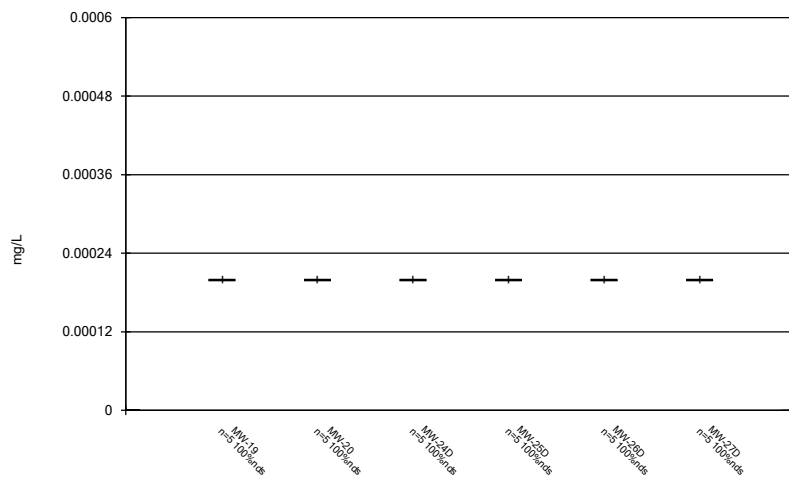
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



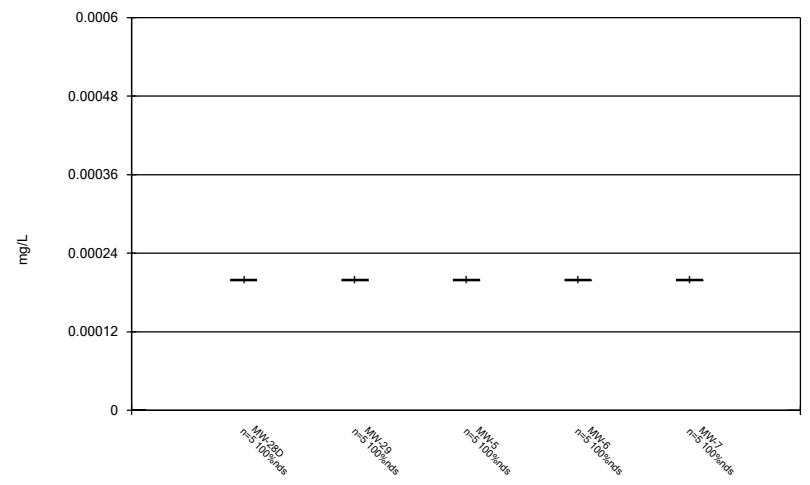
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



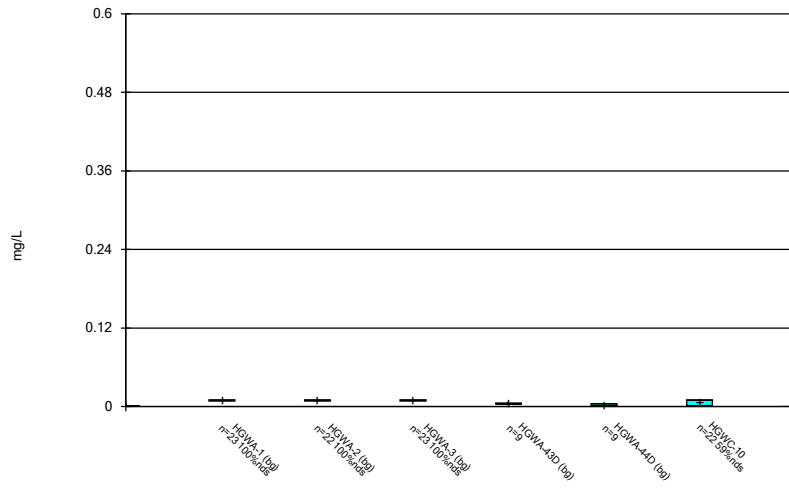
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



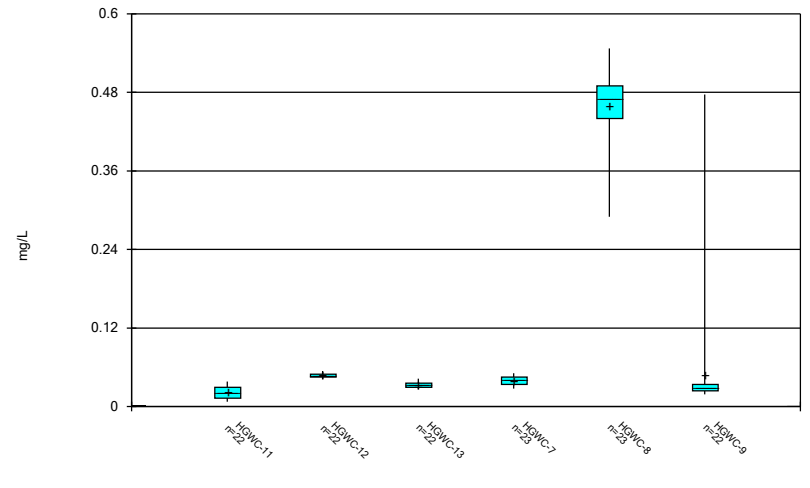
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



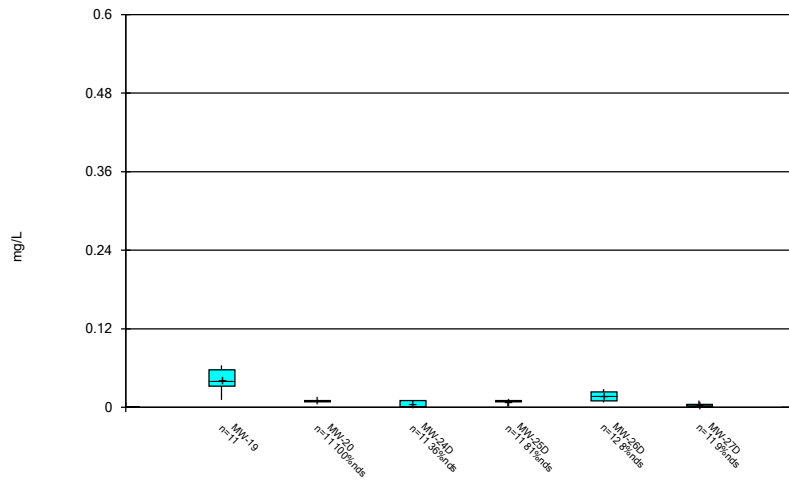
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



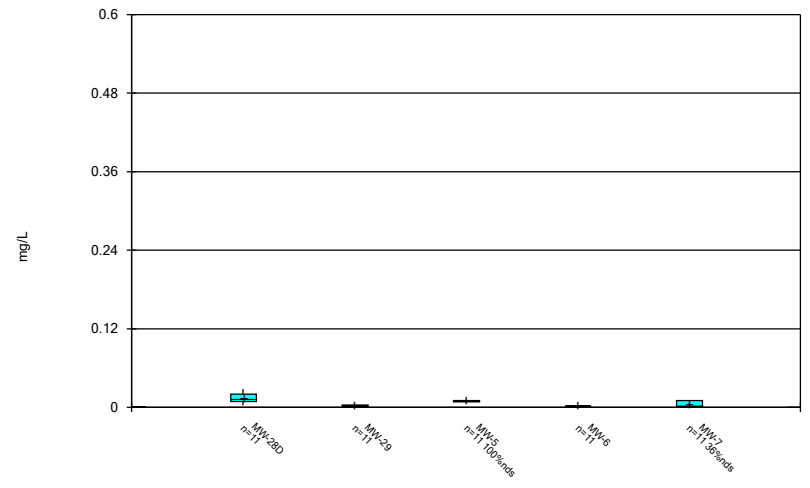
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



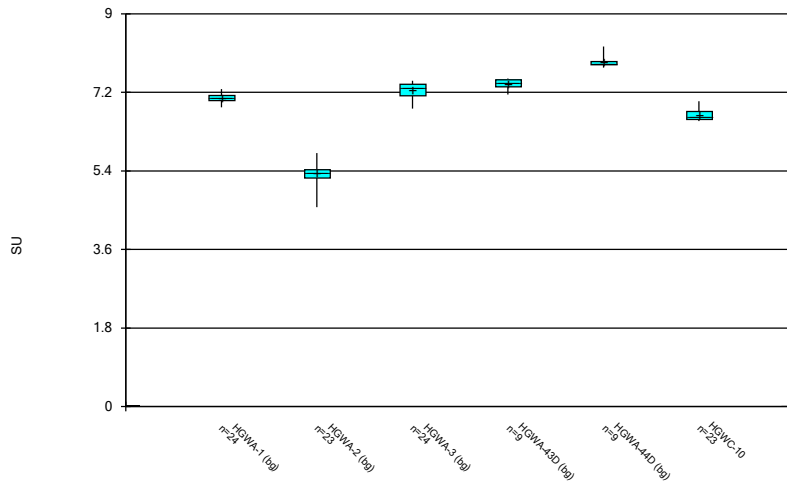
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



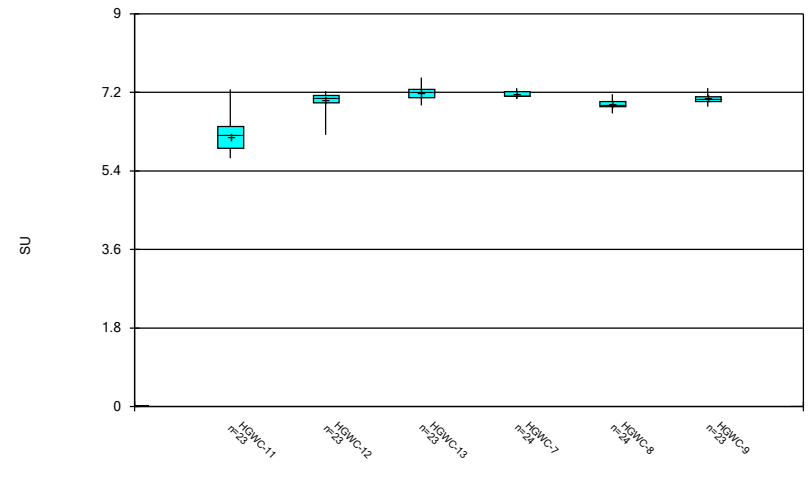
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



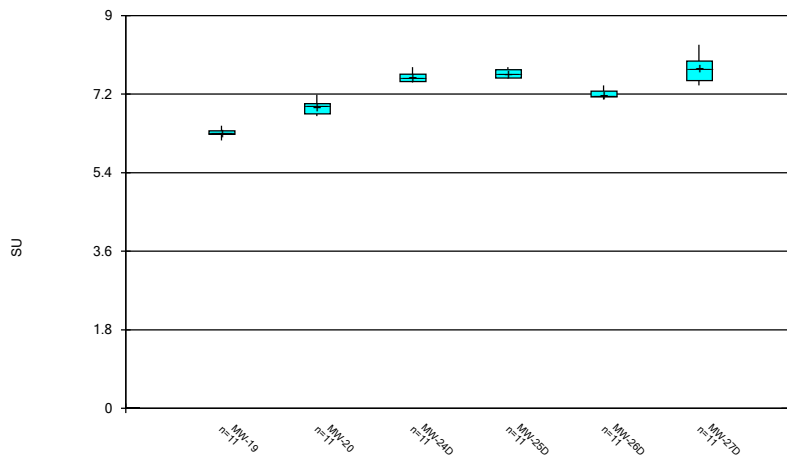
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



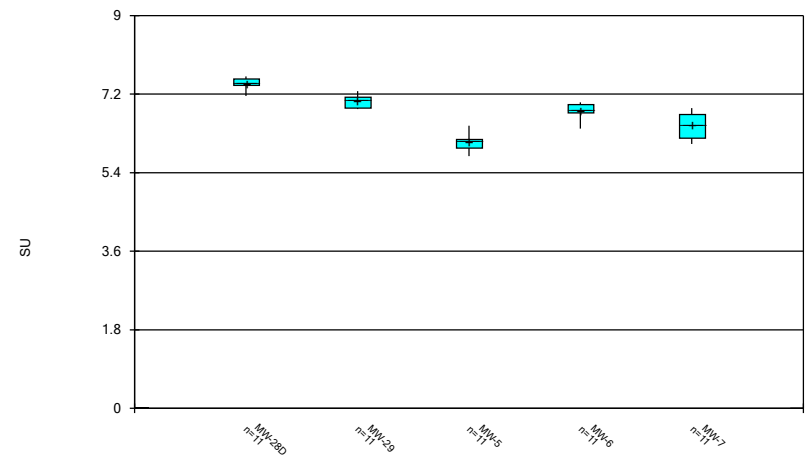
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



Constituent: pH, Field Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

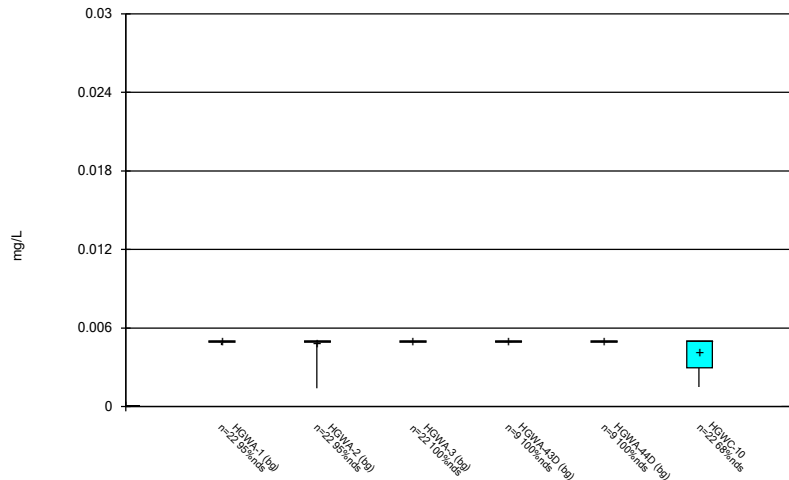
### Box & Whiskers Plot



Constituent: pH, Field Analysis Run 11/8/2022 12:12 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

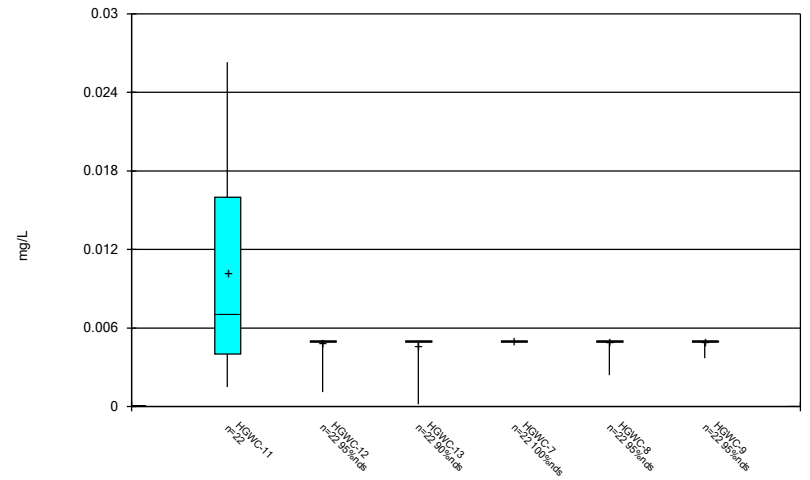


Box & Whiskers Plot



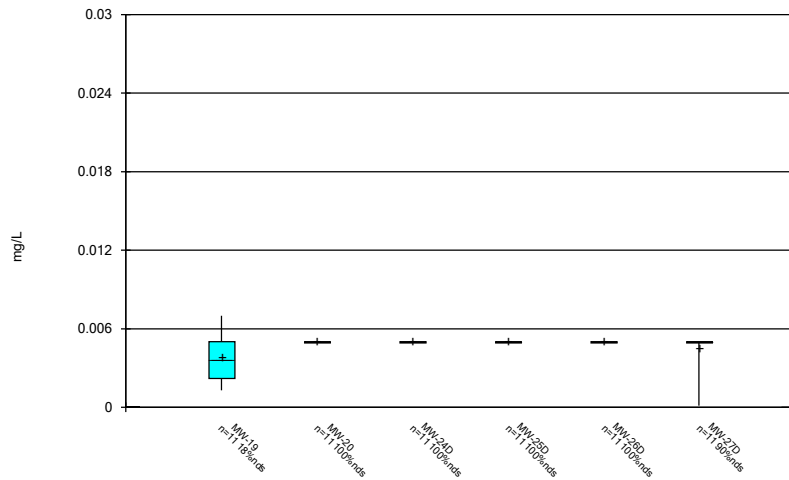
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



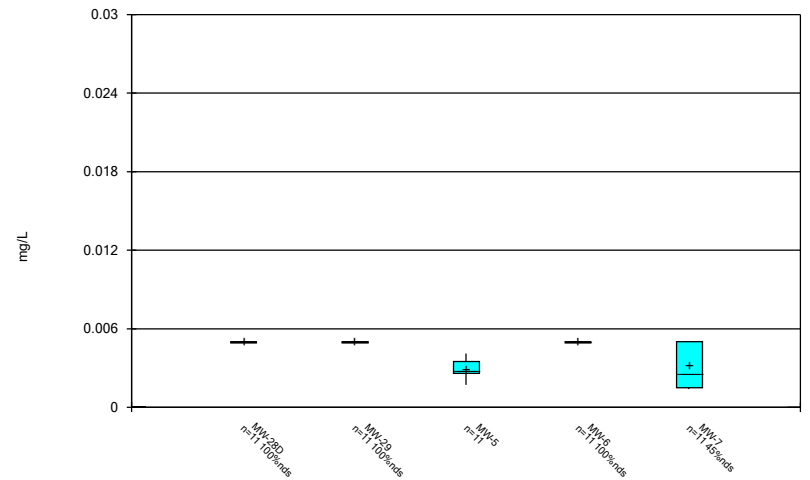
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



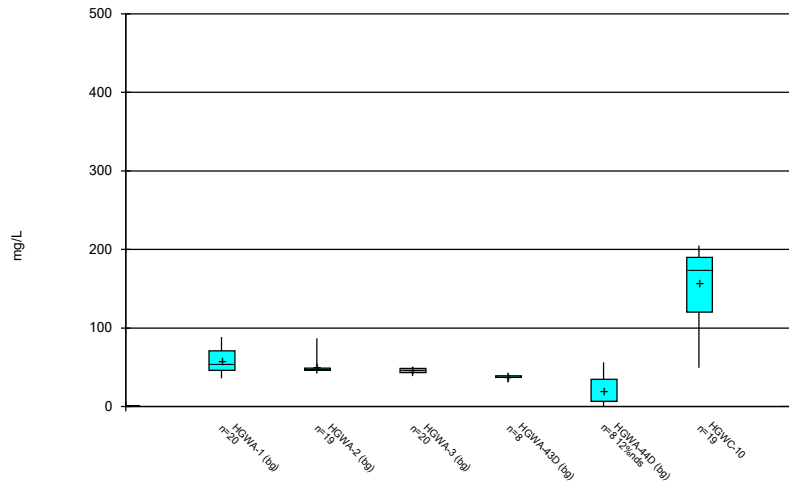
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



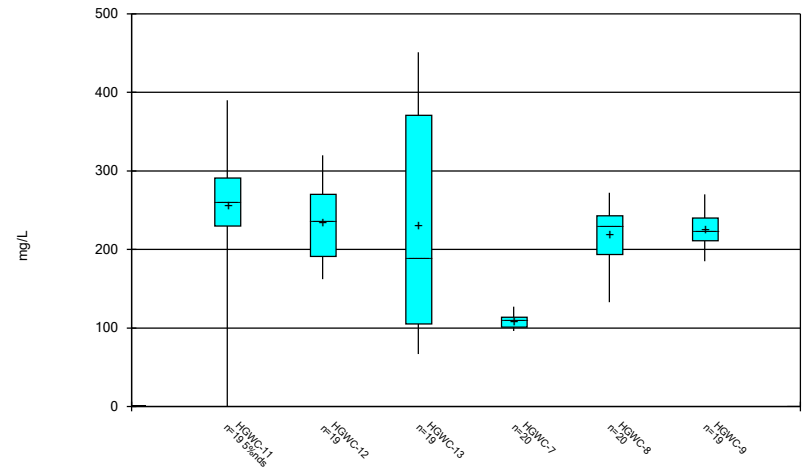
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



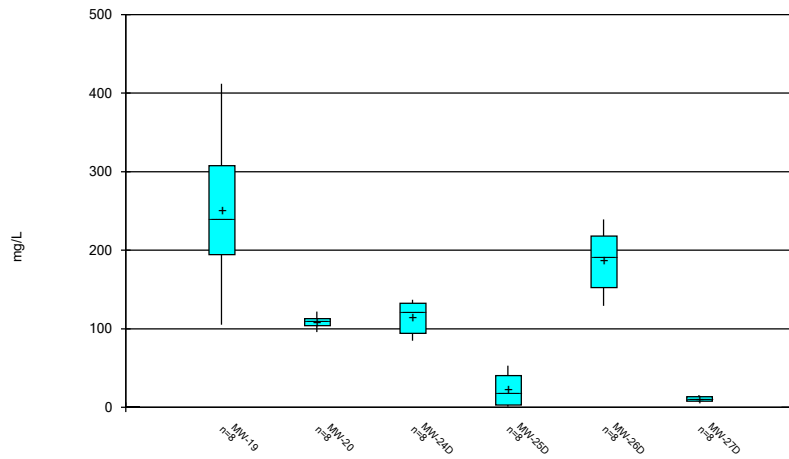
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



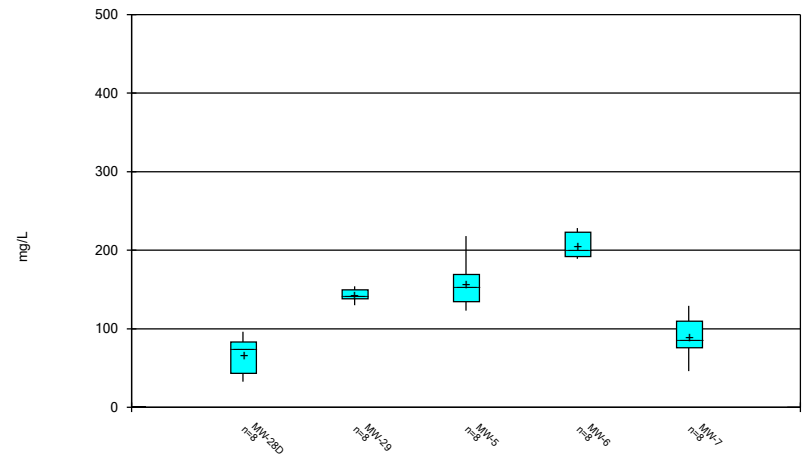
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



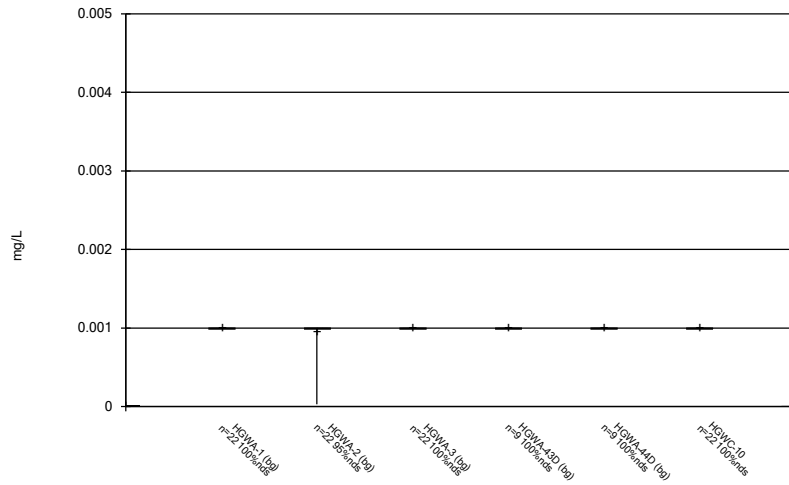
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



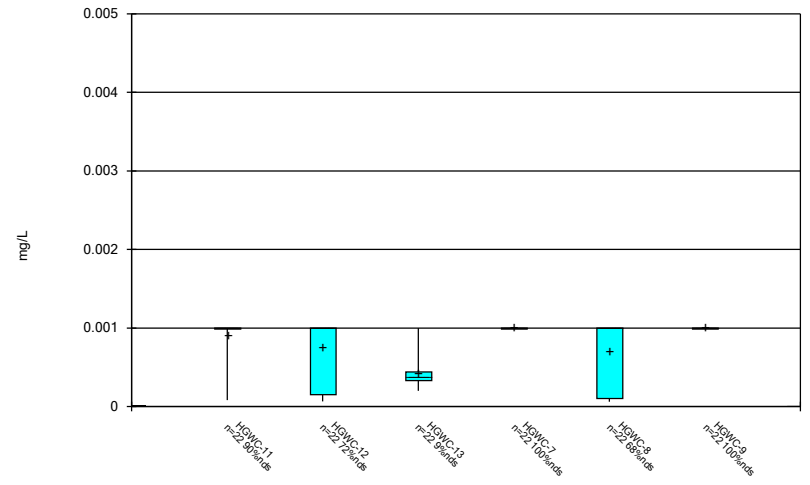
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



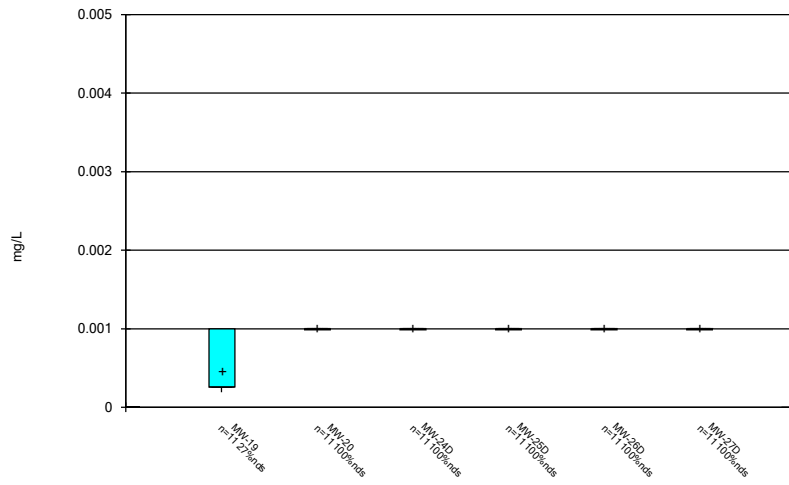
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



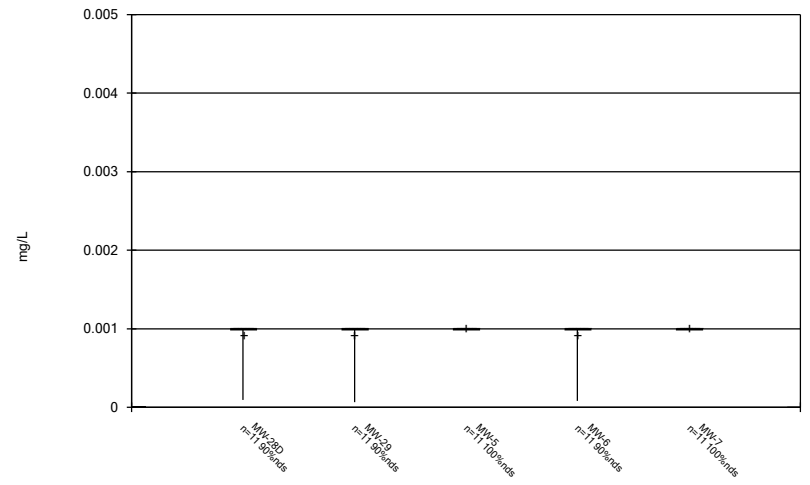
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



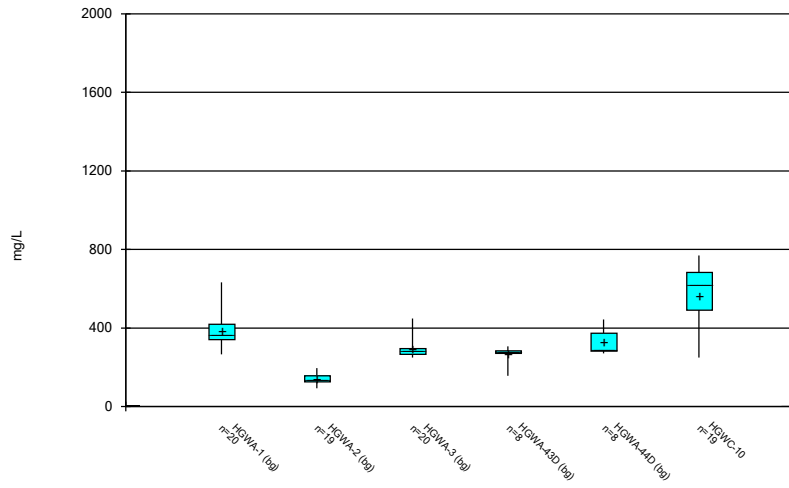
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



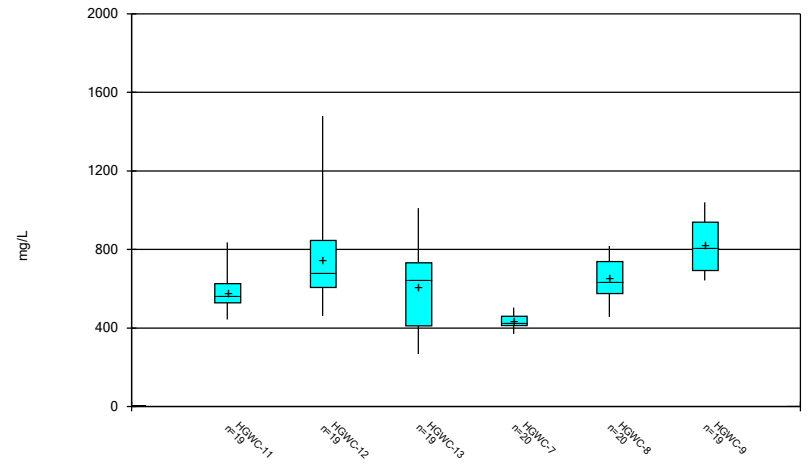
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Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



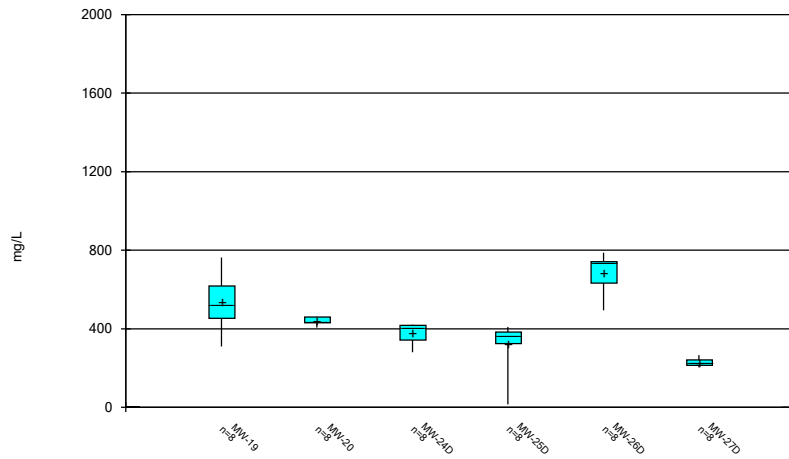
Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:13 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



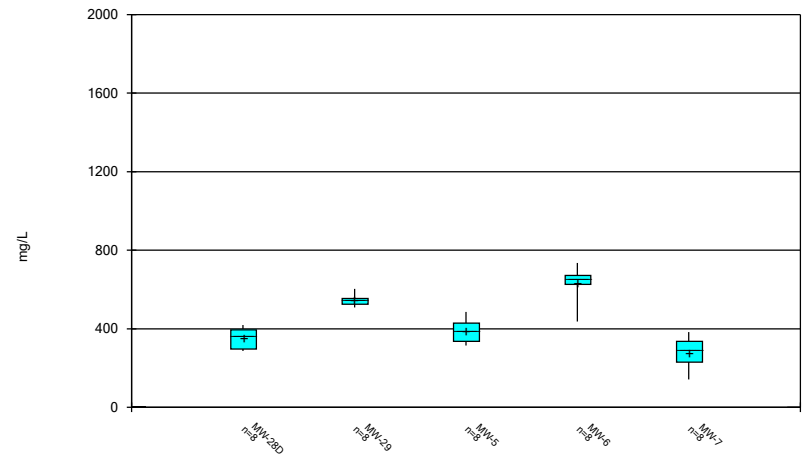
Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:13 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:13 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:13 PM View: Time Series & Box Plot  
Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE C.

# Outlier Summary

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 12:01 PM

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None

FIGURE D.

# Appendix III Interwell Prediction Limit - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 12:15 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-10	0.44	n/a	8/3/2022	0.53	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-11	0.44	n/a	8/3/2022	0.64	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.44	n/a	8/3/2022	1.5	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	8/3/2022	0.76	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-7	0.44	n/a	8/11/2022	1.1	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.44	n/a	8/3/2022	1.5	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	8/4/2022	2	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	8/3/2022	167	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	8/3/2022	237	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	8/3/2022	153	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	8/4/2022	196	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	8/3/2022	54.1	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	8/4/2022	86.8	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-10	88.2	n/a	8/3/2022	119	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	88.2	n/a	8/3/2022	254	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	88.2	n/a	8/3/2022	236	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	88.2	n/a	8/3/2022	451	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	88.2	n/a	8/11/2022	121	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	88.2	n/a	8/3/2022	241	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	88.2	n/a	8/4/2022	243	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-12	632	n/a	8/3/2022	650	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-13	632	n/a	8/3/2022	958	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-8	632	n/a	8/3/2022	648	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-9	632	n/a	8/4/2022	760	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2



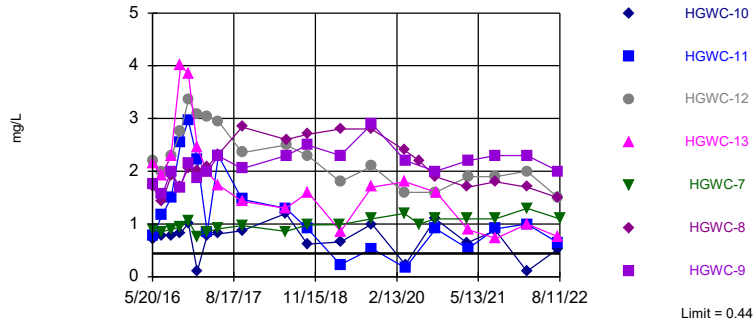
# Appendix III Interwell Prediction Limit - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 12:15 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-10	0.44	n/a	8/3/2022	0.53	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-11	0.44	n/a	8/3/2022	0.64	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.44	n/a	8/3/2022	1.5	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	8/3/2022	0.76	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-7	0.44	n/a	8/11/2022	1.1	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.44	n/a	8/3/2022	1.5	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	8/4/2022	2	Yes	75	5.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-10	138	n/a	8/3/2022	125	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	8/3/2022	131	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	8/3/2022	167	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	8/3/2022	237	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-7	138	n/a	8/11/2022	119	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	8/3/2022	153	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	8/4/2022	196	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-10	44.8	n/a	8/3/2022	12.3	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-11	44.8	n/a	8/3/2022	13.8	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-12	44.8	n/a	8/3/2022	39.2	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-13	44.8	n/a	8/3/2022	13	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-7	44.8	n/a	8/11/2022	37.7	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	8/3/2022	54.1	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	8/4/2022	86.8	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-10	0.96	n/a	8/3/2022	0.13	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-11	0.96	n/a	8/3/2022	0.22	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-12	0.96	n/a	8/3/2022	0.21	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-13	0.96	n/a	8/3/2022	0.55	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-7	0.96	n/a	8/11/2022	0.11	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-8	0.96	n/a	8/3/2022	0.44	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-9	0.96	n/a	8/4/2022	0.13	No	89	30.34	n/a	n/a	0.0002432	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-10	8.25	4.57	8/3/2022	6.73	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-11	8.25	4.57	8/3/2022	6.23	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-12	8.25	4.57	8/3/2022	7.13	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-13	8.25	4.57	8/3/2022	7.09	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-7	8.25	4.57	8/11/2022	7.07	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-8	8.25	4.57	8/3/2022	6.84	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-9	8.25	4.57	8/4/2022	7.03	No	89	0	n/a	n/a	0.0004864	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-10	88.2	n/a	8/3/2022	119	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	88.2	n/a	8/3/2022	254	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	88.2	n/a	8/3/2022	236	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	88.2	n/a	8/3/2022	451	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	88.2	n/a	8/11/2022	121	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	88.2	n/a	8/3/2022	241	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	88.2	n/a	8/4/2022	243	Yes	75	1.333	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-10	632	n/a	8/3/2022	433	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-11	632	n/a	8/3/2022	572	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-12	632	n/a	8/3/2022	650	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-13	632	n/a	8/3/2022	958	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-7	632	n/a	8/11/2022	445	No	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-8	632	n/a	8/3/2022	648	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-9	632	n/a	8/4/2022	760	Yes	75	0	n/a	n/a	0.0003425	NP Inter (normality) 1 of 2

Exceeds Limit: HGWC-10, HGWC-11, HGWC-12, HGWC-13, HGWC-7, HGWC-8, HGWC-9

### Prediction Limit Interwell Non-parametric

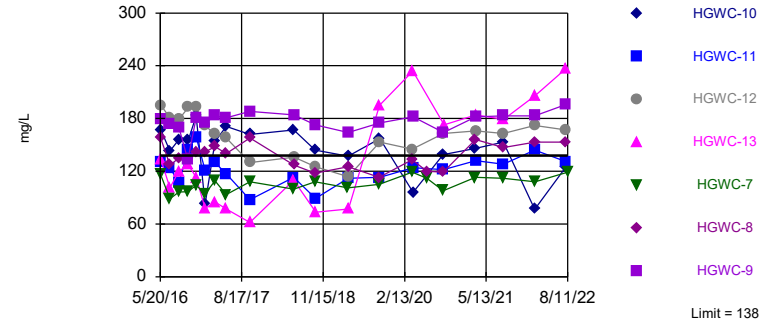


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 75 background values. 5.333% NDs. Annual per-constituent alpha = 0.004784. Individual comparison alpha = 0.0003425 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 11/8/2022 12:13 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-12, HGWC-13, HGWC-8, HGWC-9

### Prediction Limit Interwell Non-parametric

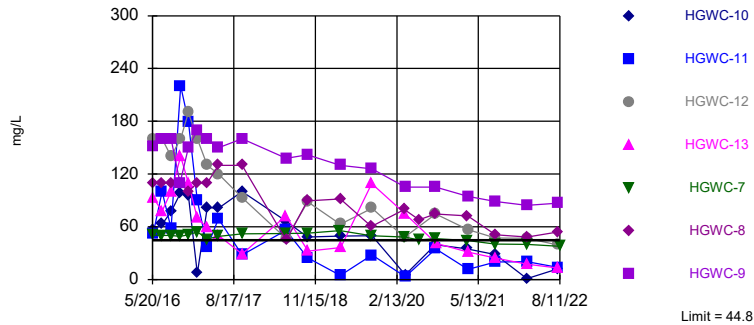


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 75 background values. Annual per-constituent alpha = 0.004784. Individual comparison alpha = 0.0003425 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 11/8/2022 12:13 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-8, HGWC-9

### Prediction Limit Interwell Non-parametric



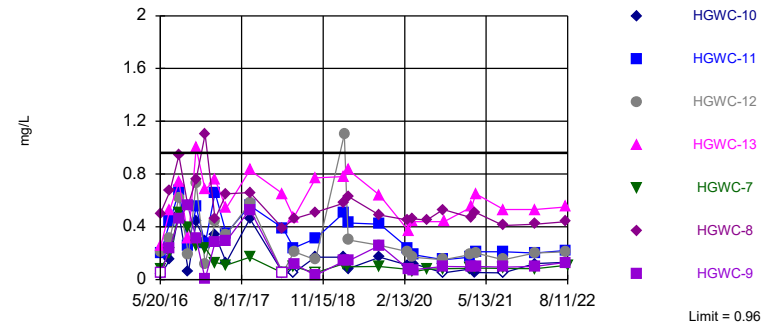
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 75 background values. Annual per-constituent alpha = 0.004784. Individual comparison alpha = 0.0003425 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 11/8/2022 12:13 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.

Within Limit

### Prediction Limit Interwell Non-parametric

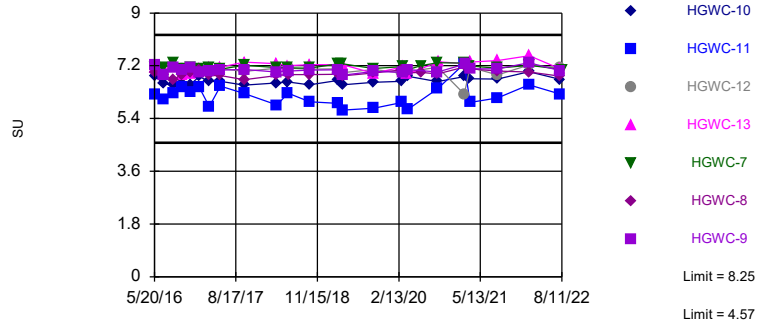


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 89 background values. 30.34% NDs. Annual per-constituent alpha = 0.00034. Individual comparison alpha = 0.0002432 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 11/8/2022 12:13 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Within Limits

Prediction Limit  
Interwell Non-parametric



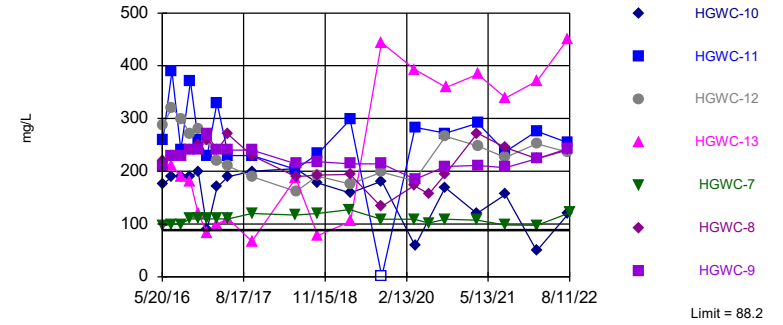
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 89 background values. Annual per-constituent alpha = 0.0068. Individual comparison alpha = 0.0004864 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 11/8/2022 12:13 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.

Exceeds Limit: HGWC-10, HGWC-11, HGWC-12, HGWC-13, HGWC-7, HGWC-8, HGWC-9

Prediction Limit  
Interwell Non-parametric

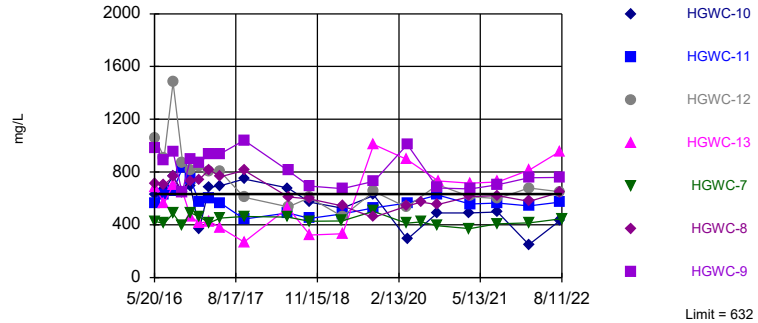


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 75 background values. 1.333% NDs. Annual per-constituent alpha = 0.004784. Individual comparison alpha = 0.0003425 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 11/8/2022 12:13 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-12, HGWC-13, HGWC-8, HGWC-9

Prediction Limit  
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 75 background values. 1.333% NDs. Annual per-constituent alpha = 0.004784. Individual comparison alpha = 0.0003425 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:13 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
1/19/2021									
3/10/2021	0.015 (J)								
3/11/2021		0.015 (J)	0.056						
3/12/2021								0.64	
3/15/2021				1.1	1.7				
3/16/2021						0.53			2.2
3/17/2021							0.89		
8/11/2021	0.02 (J)								
8/12/2021		<0.04	0.044						
8/13/2021									
8/16/2021				1.1					
8/17/2021								0.88	2.3
8/18/2021					1.8	0.91			
8/19/2021							0.73		
2/1/2022	0.016 (J)	0.011 (J)	0.056						
2/9/2022						1		0.1	2.3
2/10/2022				1.3	1.7		1		
8/2/2022	0.012 (J)	<0.04	0.047						
8/3/2022					1.5	0.64	0.76	0.53	
8/4/2022									2
8/11/2022				1.1					

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	2.2		
7/11/2016			
7/12/2016	1.98		
8/30/2016			
9/1/2016	2.28		
10/19/2016			
10/20/2016			
10/24/2016	2.75		
12/6/2016			
12/7/2016	3.35		
1/24/2017			
1/25/2017			
1/26/2017	3.07		
3/21/2017			
3/22/2017	3.04		
5/22/2017			
5/23/2017			
5/24/2017	2.95		
10/3/2017	2.35		
6/4/2018			
6/5/2018			
6/6/2018	2.5		
10/1/2018			
10/2/2018			
10/3/2018	2.3		
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	1.8		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	2.1		
3/25/2020			
3/26/2020	1.6		
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		0.061 (J)	0.23
9/17/2020			
9/18/2020	1.6		
9/21/2020			
11/10/2020		0.057 (J)	0.29
12/15/2020		0.052 (J)	0.31

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-12	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		0.049 (J)	0.4
3/10/2021			0.39
3/11/2021		0.06	
3/12/2021			
3/15/2021			
3/16/2021	1.9		
3/17/2021			
8/11/2021		0.042	
8/12/2021			
8/13/2021			0.31
8/16/2021			
8/17/2021			
8/18/2021	1.9		
8/19/2021			
2/1/2022		0.05	0.44
2/9/2022	2		
2/10/2022			
8/2/2022		0.043	0.31
8/3/2022	1.5		
8/4/2022			
8/11/2022			





# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
1/19/2021									
3/10/2021	111								
3/11/2021		83.8	43.8						
3/12/2021								146 (M1)	
3/15/2021				113	156				
3/16/2021						132			182
3/17/2021							184		
8/11/2021	113								
8/12/2021		84	21.9						
8/13/2021									
8/16/2021				112					
8/17/2021								153	183
8/18/2021					147	128			
8/19/2021							179		
2/1/2022	106	85.1	27.2						
2/9/2022						144		76.8	183
2/10/2022				108	153		206		
8/2/2022	117	84.6	31.2						
8/3/2022					153	131	237	125	
8/4/2022									196
8/11/2022				119					

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	195		
7/11/2016			
7/12/2016	181		
8/30/2016			
9/1/2016	179		
10/19/2016			
10/20/2016			
10/24/2016	193		
12/6/2016			
12/7/2016	193		
1/24/2017			
1/25/2017			
1/26/2017	172		
3/21/2017			
3/22/2017	162		
5/22/2017			
5/23/2017			
5/24/2017	158		
10/3/2017	130		
6/4/2018			
6/5/2018			
6/6/2018	136		
10/1/2018			
10/2/2018			
10/3/2018	125		
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	114		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	153		
3/25/2020			
3/26/2020	145		
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		56	30
9/17/2020			
9/18/2020	163		
9/21/2020			
11/10/2020		63.3	33.6
12/15/2020		62.6	28.7

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-12	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		60.1	33
3/10/2021			5.9
3/11/2021		59.6	
3/12/2021			
3/15/2021			
3/16/2021	166		
3/17/2021			
8/11/2021		61	
8/12/2021			
8/13/2021			28.9
8/16/2021			
8/17/2021			
8/18/2021	163		
8/19/2021			
2/1/2022		55.9	24.8
2/9/2022	172		
2/10/2022			
8/2/2022		54.1	20.9
8/3/2022	167		
8/4/2022			
8/11/2022			



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
1/19/2021									
3/10/2021	7.4								
3/11/2021		5.9	5.1						
3/12/2021								35	
3/15/2021				44.5	72.4				
3/16/2021						11.5			94.7
3/17/2021							31.4		
8/11/2021	9.6								
8/12/2021		4.8	5.2						
8/13/2021									
8/16/2021				40.3					
8/17/2021								28.3	88.6
8/18/2021					50.9	19.9			
8/19/2021							24.4		
2/1/2022	7.5	5.7	7						
2/9/2022						20.4		1.2	84.4
2/10/2022				39.8	48.2		17.4		
8/2/2022	14.1	5.9	7.8						
8/3/2022					54.1	13.8	13	12.3	
8/4/2022									86.8
8/11/2022				37.7					

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	160		
7/11/2016			
7/12/2016	160		
8/30/2016			
9/1/2016	140		
10/19/2016			
10/20/2016			
10/24/2016	160		
12/6/2016			
12/7/2016	190		
1/24/2017			
1/25/2017			
1/26/2017	160		
3/21/2017			
3/22/2017	130		
5/22/2017			
5/23/2017			
5/24/2017	120		
10/3/2017	93		
6/4/2018			
6/5/2018			
6/6/2018	46.4		
10/1/2018			
10/2/2018			
10/3/2018	88.4		
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	62.8		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	81		
3/25/2020			
3/26/2020	48		
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		4.1	7.2
9/17/2020			
9/18/2020	74.6		
9/21/2020			
11/10/2020		4.4	7.8
12/15/2020		4.7	9.4

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-12	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		4.1	9.5
3/10/2021			12.3
3/11/2021		4.5	
3/12/2021			
3/15/2021			
3/16/2021	56.8		
3/17/2021			
8/11/2021		3.5	
8/12/2021			
8/13/2021			39.9
8/16/2021			
8/17/2021			
8/18/2021	47.3		
8/19/2021			
2/1/2022		4.1	44.8
2/9/2022	46.8		
2/10/2022			
8/2/2022		4.3	19.8
8/3/2022	39.2		
8/4/2022			
8/11/2022			

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 12:15 PM View: Interwell PL

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-10	HGWC-12
5/19/2016	0.105 (J)	0.0513 (J)	0.0303 (J)						
5/20/2016				0.499	0.0828 (J)				
5/23/2016						0.203 (J)	0.2587 (J)	0.0394 (J)	0.212 (J)
7/11/2016	0.16 (J)		0.05 (J)						
7/12/2016		0.12 (J)		0.67	0.2 (J)	0.44	0.53	0.15 (J)	0.31
8/30/2016	0.09 (J)	0.09 (J)	0.06 (J)						
9/1/2016				0.94	0.51	0.67	0.74	0.5	0.62
10/19/2016	0.1 (J)	0.1 (J)	0.04 (J)						
10/20/2016				0.56	0.4				
10/24/2016						0.26 (J)	0.31	0.06 (J)	0.19 (J)
12/6/2016	0.11 (J)	0.21 (J)	0.36	0.76	0.26 (J)				
12/7/2016						0.55	1	0.44	0.73
1/24/2017	0.09 (J)	0.06 (J)	<0.1						
1/25/2017				1.1	0.24 (J)				
1/26/2017						0.27 (J)	0.68	0.29 (J)	0.12 (J)
3/21/2017	0.13 (J)	0.005 (J)	<0.1	0.46	0.13 (J)				
3/22/2017						0.66	0.76	0.34	0.44
5/22/2017	0.12 (J)	0.05 (J)	<0.1						
5/23/2017				0.65	0.11 (J)				
5/24/2017						0.35	0.54	0.13 (J)	0.34
10/3/2017	0.13 (J)	0.13 (J)	<0.1	0.66	0.17 (J)	0.56	0.83	0.46	0.58
4/2/2018	<0.1		<0.1						
4/3/2018		<0.1		0.39	<0.1				
4/4/2018						0.39	0.65	<0.1	<0.1
6/4/2018	0.074 (J)	<0.1	<0.1						
6/5/2018					0.099 (J)	0.24 (J)	0.47	<0.1	
6/6/2018				0.46					0.21 (J)
10/1/2018	<0.1	<0.1	<0.1						
10/2/2018				0.51	<0.1			0.17 (J)	
10/3/2018						0.31			0.15 (J)
10/5/2018							0.77		
3/12/2019	0.29 (J)	0.072 (J)	0.038 (J)	0.58					
3/13/2019					0.12 (J)	0.51	0.78	0.17 (J)	
3/14/2019									1.1
4/1/2019		0.029 (J)							
4/2/2019	0.1 (J)		0.071 (J)		0.097 (J)				
4/3/2019				0.63		0.43		0.082 (J)	0.3 (J)
4/5/2019							0.83		
9/23/2019	0.078 (J)	<0.1	<0.1						
9/24/2019				0.49					
9/25/2019					0.1 (J)				
9/26/2019							0.64		
9/27/2019						0.42		0.17 (J)	0.26 (J)
3/2/2020	0.076 (J)	<0.1	<0.1						
3/3/2020				0.45		0.24 (J)		0.11 (J)	0.21 (J)
3/4/2020					0.077 (J)		0.37		
3/25/2020	0.098 (J)	<0.1	<0.1						
3/26/2020									0.17 (J)
3/27/2020				0.46	0.059 (J)				
3/30/2020							0.44		
3/31/2020						0.19 (J)			
4/1/2020								0.12 (J)	



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-10	HGWC-12
6/16/2020	0.071 (J)	<0.1		0.45					
6/17/2020					0.077 (J)				
9/15/2020	0.082 (J)	<0.1	<0.1						
9/16/2020				0.53	0.081 (J)			<0.1	
9/17/2020									
9/18/2020						0.15			0.15
9/21/2020							0.44		
11/10/2020									
12/15/2020									
1/19/2021									
2/8/2021	0.078 (J)								
2/9/2021		0.074 (J)	<0.1						
2/10/2021					0.085 (J)				
2/12/2021						0.17			0.19
2/15/2021								0.08 (J)	
2/16/2021				0.47					
2/22/2021							0.55		
3/10/2021	0.079 (J)								
3/11/2021		<0.1	0.1						
3/12/2021								0.054 (J)	
3/15/2021				0.51	0.086 (J)				
3/16/2021						0.21			0.2
3/17/2021							0.65		
8/11/2021	0.058 (J)								
8/12/2021		<0.1	<0.1						
8/13/2021									
8/16/2021					0.084 (J)				
8/17/2021								<0.1	
8/18/2021				0.41		0.21			0.15
8/19/2021							0.53		
2/1/2022	0.064 (J)	<0.1	<0.1						
2/9/2022						0.2		0.12	0.2
2/10/2022				0.42	0.083 (J)		0.53		
8/2/2022	0.09 (J)	0.067 (J)	0.053 (J)						
8/3/2022				0.44		0.22	0.55	0.13	0.21
8/4/2022									
8/11/2022					0.11				

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	<0.1		
7/11/2016			
7/12/2016	0.24 (J)		
8/30/2016			
9/1/2016	0.46		
10/19/2016			
10/20/2016	0.56		
10/24/2016			
12/6/2016	0.31		
12/7/2016			
1/24/2017			
1/25/2017			
1/26/2017	0.004 (J)		
3/21/2017			
3/22/2017	0.28 (J)		
5/22/2017			
5/23/2017	0.29 (J)		
5/24/2017			
10/3/2017	0.53		
4/2/2018			
4/3/2018	<0.1		
4/4/2018			
6/4/2018			
6/5/2018			
6/6/2018	0.12 (J)		
10/1/2018			
10/2/2018	0.031 (J)		
10/3/2018			
10/5/2018			
3/12/2019			
3/13/2019	0.14 (J)		
3/14/2019			
4/1/2019			
4/2/2019			
4/3/2019	0.14 (J)		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	0.26 (J)		
3/2/2020			
3/3/2020			
3/4/2020	0.08 (J)		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	0.074 (J)		
4/1/2020			

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		0.22	0.52
9/17/2020	0.1		
9/18/2020			
9/21/2020			
11/10/2020		0.19	0.59
12/15/2020		0.21	0.67
1/19/2021		0.16	0.74
2/8/2021			
2/9/2021		0.19	0.44
2/10/2021			
2/12/2021			
2/15/2021			
2/16/2021	0.096 (J)		
2/22/2021			
3/10/2021			0.65
3/11/2021		0.2	
3/12/2021			
3/15/2021			
3/16/2021	0.098 (J)		
3/17/2021			
8/11/2021		0.15	
8/12/2021			
8/13/2021			0.87
8/16/2021			
8/17/2021	0.095 (J)		
8/18/2021			
8/19/2021			
2/1/2022		0.19	0.96
2/9/2022	0.1		
2/10/2022			
8/2/2022		0.22	0.8
8/3/2022			
8/4/2022	0.13		
8/11/2022			



# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-10	HGWC-12
6/16/2020	6.97 (D)	7.31 (D)		6.97 (D)					
6/17/2020					7.2 (D)				
9/15/2020	7.15	7.29	5.22						
9/16/2020				6.92	7.3			6.66	
9/17/2020									
9/18/2020						6.42			7.15
9/21/2020							7.34		
11/10/2020									
12/15/2020									
1/19/2021									
2/8/2021	7.11								
2/9/2021		7.23	5.42						
2/10/2021					7.29				
2/12/2021						7.27			6.23
2/15/2021								6.83	
2/16/2021				7.16					
2/22/2021							7.27		
3/10/2021	6.95								
3/11/2021		7.33	5.8						
3/12/2021								6.76	
3/15/2021				7.09	7.19				
3/16/2021						5.95			7.15
3/17/2021							7.33		
8/11/2021	6.98								
8/12/2021		7.31	5.05						
8/13/2021									
8/16/2021					7.12				
8/17/2021								6.75	
8/18/2021				7.02		6.1			6.89
8/19/2021							7.38		
2/1/2022	7.19	7.45	5.24						
2/9/2022						6.55		7	7.23
2/10/2022				6.99	7.22		7.54		
8/2/2022	7.03	7.02	4.57						
8/3/2022				6.84		6.23	7.09	6.73	7.13
8/4/2022									
8/11/2022					7.07				

# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	7.23		
7/11/2016			
7/12/2016	6.87		
8/30/2016			
9/1/2016	7.15		
10/19/2016			
10/20/2016	7.05		
10/24/2016			
12/6/2016	7.15		
12/7/2016			
1/24/2017			
1/25/2017			
1/26/2017	6.99		
3/21/2017			
3/22/2017	7.03		
5/22/2017			
5/23/2017	7.05		
5/24/2017			
10/3/2017	7.07		
4/2/2018			
4/3/2018	6.99		
4/4/2018			
6/4/2018			
6/5/2018			
6/6/2018	7.02		
10/1/2018			
10/2/2018	7.05		
10/3/2018			
10/5/2018			
3/12/2019			
3/13/2019	7.06		
3/14/2019			
4/1/2019			
4/2/2019			
4/3/2019	6.88		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	7.01		
3/2/2020			
3/3/2020			
3/4/2020	6.97		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	7.07		
4/1/2020			

# Prediction Limit

Constituent: pH, Field (SU) Analysis Run 11/8/2022 12:15 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		7.52	7.83
9/17/2020	6.99		
9/18/2020			
9/21/2020			
11/10/2020		7.27	7.84
12/15/2020		7.39	7.87
1/19/2021		7.39	7.86
2/8/2021			
2/9/2021		7.44	7.84
2/10/2021			
2/12/2021			
2/15/2021			
2/16/2021	7.26		
2/22/2021			
3/10/2021			7.92
3/11/2021		7.46	
3/12/2021			
3/15/2021			
3/16/2021	7.1		
3/17/2021			
8/11/2021		7.4	
8/12/2021			
8/13/2021			7.77
8/16/2021			
8/17/2021	7.1		
8/18/2021			
8/19/2021			
2/1/2022		7.52	8.25
2/9/2022	7.3		
2/10/2022			
8/2/2022		7.15	7.9
8/3/2022			
8/4/2022	7.03		
8/11/2022			





# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/8/2022 12:16 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
1/19/2021									
3/10/2021	49.6								
3/11/2021		50.4	52.9						
3/12/2021								120	
3/15/2021				107	272				
3/16/2021						291			211
3/17/2021							384		
8/11/2021	48.9								
8/12/2021		38.6	47.4						
8/13/2021									
8/16/2021				98.1					
8/17/2021								156	207
8/18/2021					245	237			
8/19/2021							339		
2/1/2022	43.7	46	67.1						
2/9/2022						276		49.2	224
2/10/2022				97.5	224		371		
8/2/2022	58.1	43.5	86.9						
8/3/2022					241	254	451	119	
8/4/2022									243
8/11/2022				121					

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/8/2022 12:16 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	288		
7/11/2016			
7/12/2016	320		
8/30/2016			
9/1/2016	300		
10/19/2016			
10/20/2016			
10/24/2016	270		
12/6/2016			
12/7/2016	280		
1/24/2017			
1/25/2017			
1/26/2017	260		
3/21/2017			
3/22/2017	220		
5/22/2017			
5/23/2017			
5/24/2017	210		
10/3/2017	190		
6/4/2018			
6/5/2018			
6/6/2018	162		
10/1/2018			
10/2/2018			
10/3/2018	191		
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	176		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	198		
3/25/2020			
3/26/2020	182		
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		43	6.9
9/17/2020			
9/18/2020	266		
9/21/2020			
11/10/2020		39	6.3
12/15/2020		38.8	6.7

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/8/2022 12:16 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-12	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		37.3	7.4
3/10/2021			<1
3/11/2021		38.6	
3/12/2021			
3/15/2021			
3/16/2021	248		
3/17/2021			
8/11/2021		30.5	
8/12/2021			
8/13/2021			56.1
8/16/2021			
8/17/2021			
8/18/2021	226		
8/19/2021			
2/1/2022		37.5	56.3
2/9/2022	252		
2/10/2022			
8/2/2022		37	13.2
8/3/2022	236		
8/4/2022			
8/11/2022			



# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/8/2022 12:16 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
1/19/2021									
3/10/2021	348								
3/11/2021		267	169						
3/12/2021								490 (H1)	
3/15/2021				370	614				
3/16/2021						558			672
3/17/2021							716		
8/11/2021	366								
8/12/2021		265	118						
8/13/2021									
8/16/2021				407					
8/17/2021								496	704
8/18/2021					620	566			
8/19/2021							726		
2/1/2022	270	350	156						
2/9/2022						544		250	756
2/10/2022				414	578		814		
8/2/2022	400	287	196						
8/3/2022					648	572	958	433	
8/4/2022									760
8/11/2022				445					

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/8/2022 12:16 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	1060		
7/11/2016			
7/12/2016	909		
8/30/2016			
9/1/2016	1480		
10/19/2016			
10/20/2016			
10/24/2016	868		
12/6/2016			
12/7/2016	811		
1/24/2017			
1/25/2017			
1/26/2017	846		
3/21/2017			
3/22/2017	804		
5/22/2017			
5/23/2017			
5/24/2017	803		
10/3/2017	608		
6/4/2018			
6/5/2018			
6/6/2018	535		
10/1/2018			
10/2/2018			
10/3/2018	607		
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	462		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	653		
3/25/2020			
3/26/2020	533		
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		272	270
9/17/2020			
9/18/2020	704		
9/21/2020			
11/10/2020		307	287
12/15/2020		289	295

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/8/2022 12:16 PM View: Interwell PL  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-12	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		270	278
3/10/2021			289
3/11/2021		279	
3/12/2021			
3/15/2021			
3/16/2021	614		
3/17/2021			
8/11/2021		277	
8/12/2021			
8/13/2021			436
8/16/2021			
8/17/2021			
8/18/2021	600		
8/19/2021			
2/1/2022		156	444
2/9/2022	678		
2/10/2022			
8/2/2022		278	311
8/3/2022	650		
8/4/2022			
8/11/2022			

FIGURE E.



# Appendix III Trend Test - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 12:22 PM

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-12	-0.1758	-79	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-13	-0.2708	-106	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-7	0.04806	121	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.07977	75	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.436	99	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.126	-84	-81	Yes	20	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)	HGWC-8	-9.592	-99	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-9	-12.93	-119	-74	Yes	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
Total Dissolved Solids (mg/L)	HGWC-12	-63.04	-95	-74	Yes	19	0	n/a	n/a	0.01	NP

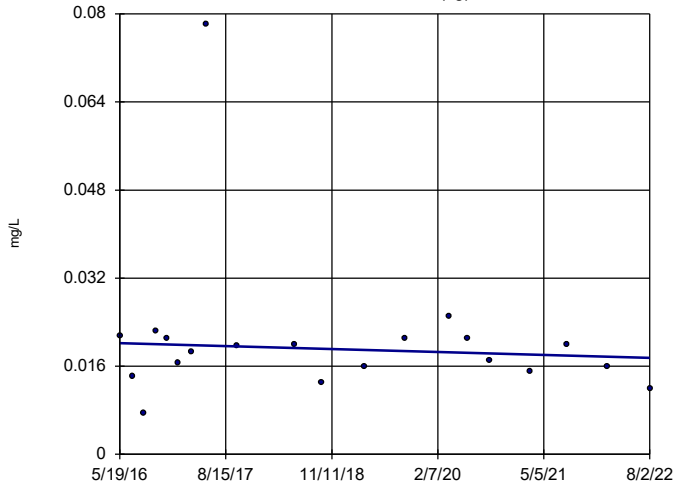
# Appendix III Trend Test - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 11/8/2022, 12:22 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	-0.0004303	-27	-81	No	20	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>HGWA-2 (bg)</b>	<b>0.002545</b>	<b>111</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	HGWA-3 (bg)	0.0003378	22	81	No	20	20	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)	HGWC-10	-0.02345	-11	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-11	-0.1599	-59	-74	No	19	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>HGWC-12</b>	<b>-0.1758</b>	<b>-79</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>HGWC-13</b>	<b>-0.2708</b>	<b>-106</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>HGWC-7</b>	<b>0.04806</b>	<b>121</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	HGWC-8	0.005773	2	81	No	20	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>HGWC-9</b>	<b>0.07977</b>	<b>75</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium (mg/L)	HGWA-1 (bg)	2.653	61	81	No	20	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
<b>Calcium (mg/L)</b>	<b>HGWA-3 (bg)</b>	<b>2.436</b>	<b>99</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
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)	HGWC-12	-4.576	-48	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-13	16.77	50	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-8	-0.4257	-7	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-9	1.692	52	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.716	61	81	No	20	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
<b>Chloride (mg/L)</b>	<b>HGWA-3 (bg)</b>	<b>-0.126</b>	<b>-84</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	HGWA-43D (bg)	-0.02897	-3	-21	No	8	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>HGWA-44D (bg)</b>	<b>11.55</b>	<b>24</b>	<b>21</b>	<b>Yes</b>	<b>8</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>HGWC-8</b>	<b>-9.592</b>	<b>-99</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>HGWC-9</b>	<b>-12.93</b>	<b>-119</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	HGWA-1 (bg)	1.779	35	81	No	20	0	n/a	n/a	0.01	NP
<b>Sulfate (mg/L)</b>	<b>HGWA-2 (bg)</b>	<b>1.619</b>	<b>101</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate (mg/L)	HGWA-3 (bg)	0.673	52	81	No	20	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)	HGWC-10	-9.032	-70	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-11	-4.895	-19	-74	No	19	5.263	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-12	-11.49	-59	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-13	39.75	43	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-7	0	5	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-8	-1.483	-13	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-9	-3.088	-38	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	3.538	14	81	No	20	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
Total Dissolved Solids (mg/L)	HGWA-3 (bg)	1.162	17	81	No	20	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
<b>Total Dissolved Solids (mg/L)</b>	<b>HGWC-12</b>	<b>-63.04</b>	<b>-95</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids (mg/L)	HGWC-13	42.19	39	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-8	-27.5	-58	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-9	-36.19	-47	-74	No	19	0	n/a	n/a	0.01	NP

### Sen's Slope Estimator

HGWA-1 (bg)

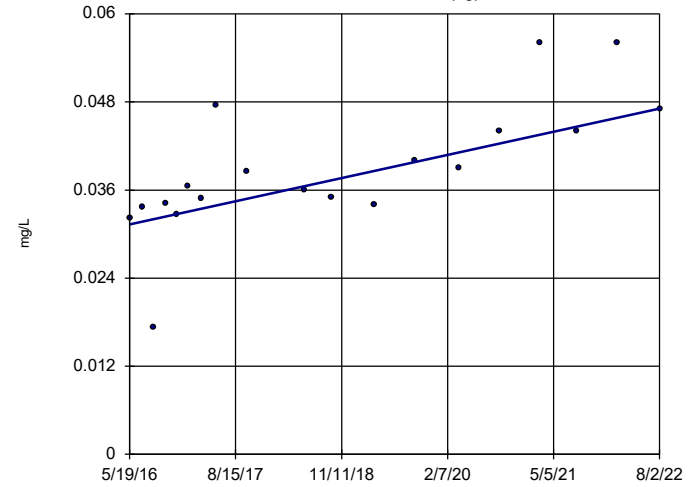


n = 20  
 Slope = -0.0004303  
 units per year.  
 Mann-Kendall  
 statistic = -27  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-2 (bg)

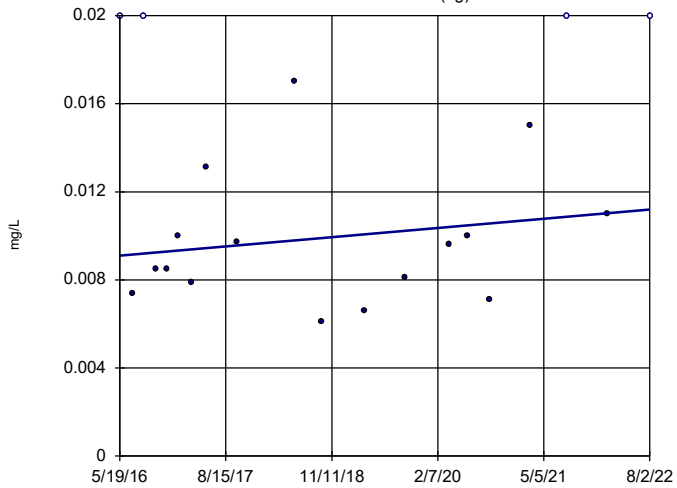


n = 19  
 Slope = 0.002545  
 units per year.  
 Mann-Kendall  
 statistic = 111  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-3 (bg)

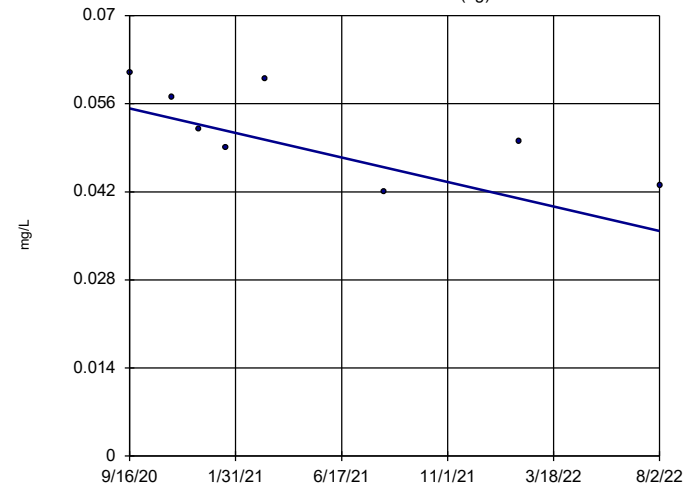


n = 20  
 Slope = 0.0003378  
 units per year.  
 Mann-Kendall  
 statistic = 22  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-43D (bg)

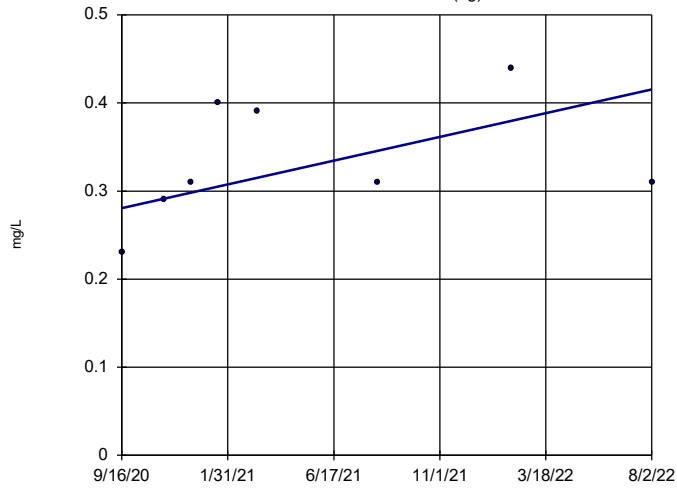


n = 8  
 Slope = -0.01038  
 units per year.  
 Mann-Kendall  
 statistic = -16  
 critical = -21  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-44D (bg)

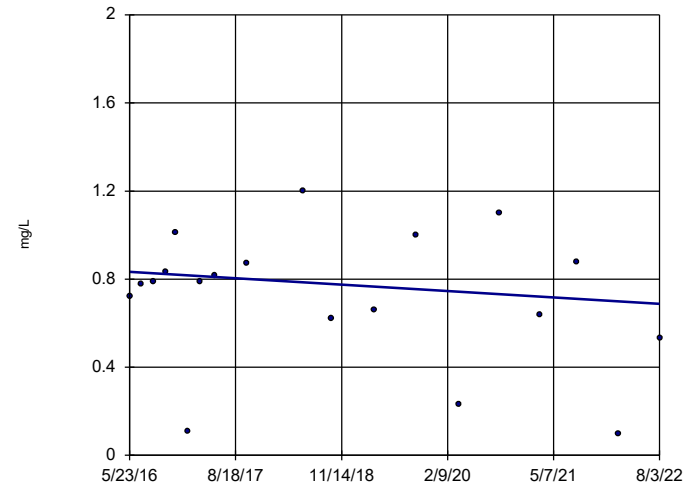


n = 8  
 Slope = 0.07193 units per year.  
 Mann-Kendall statistic = 13  
 critical = 21  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-10

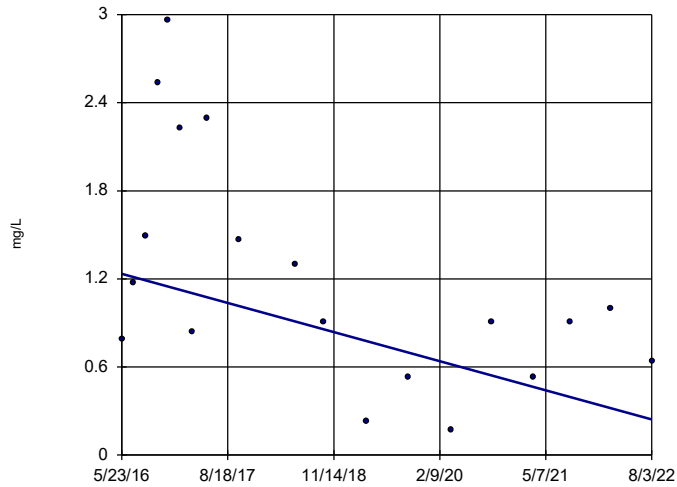


n = 19  
 Slope = -0.02345 units per year.  
 Mann-Kendall statistic = -11  
 critical = -74  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-11

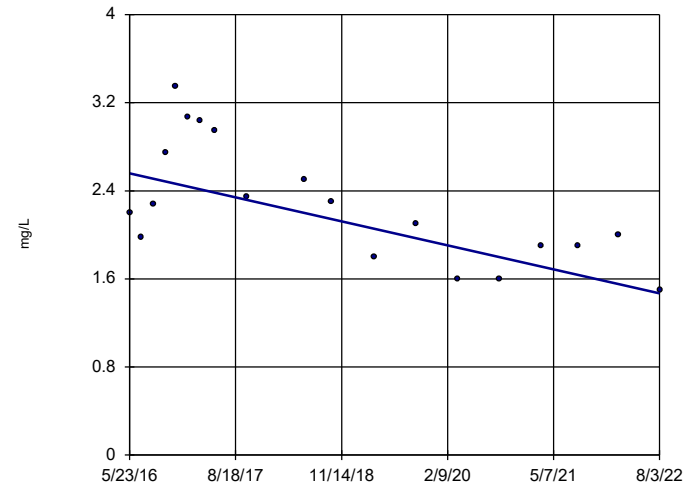


n = 19  
 Slope = -0.1599 units per year.  
 Mann-Kendall statistic = -59  
 critical = -74  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

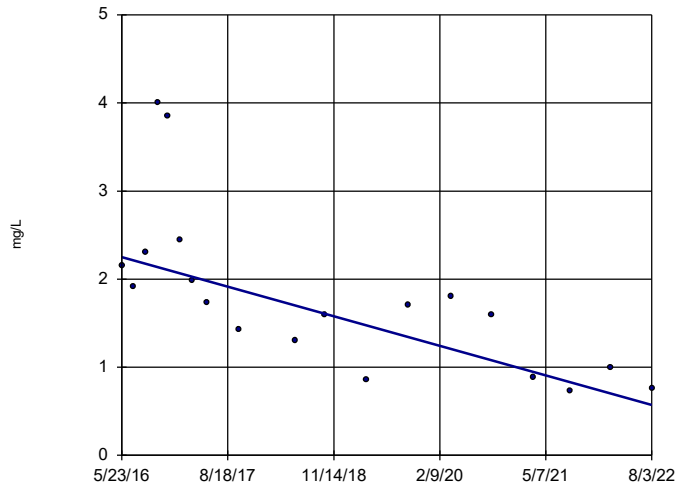
HGWC-12



n = 19  
 Slope = -0.1758 units per year.  
 Mann-Kendall statistic = -79  
 critical = -74  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

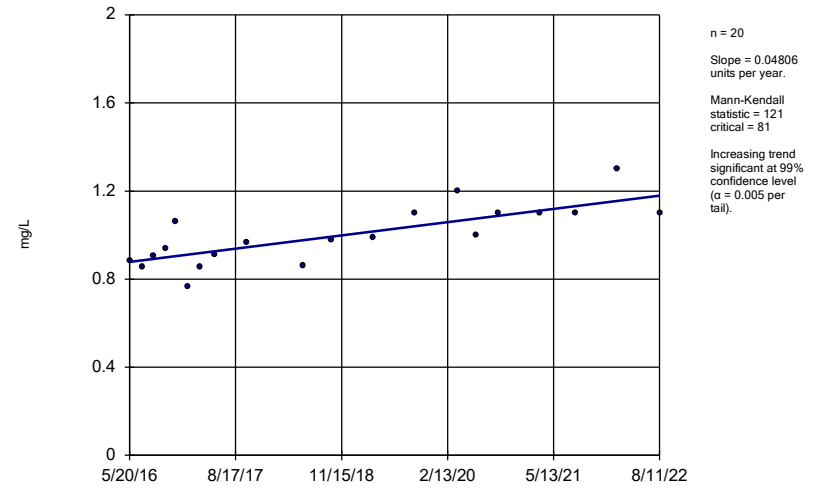
Constituent: Boron Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-13



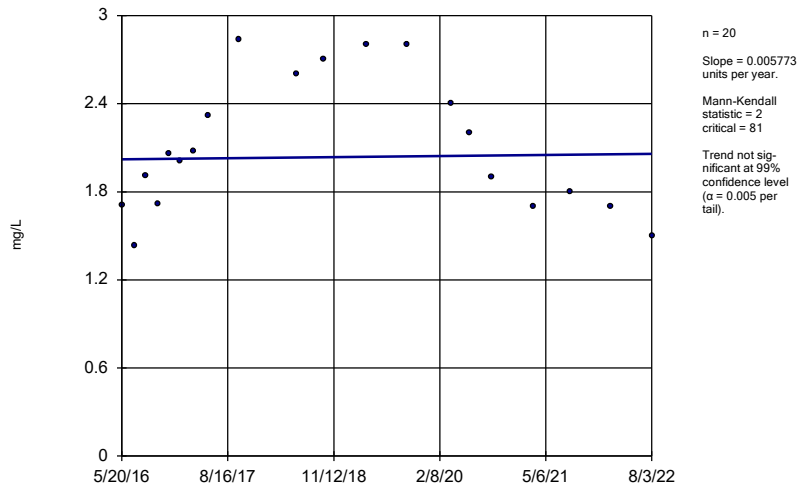
Constituent: Boron Analysis Run 11/8/2022 12:21 PM View: Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-7



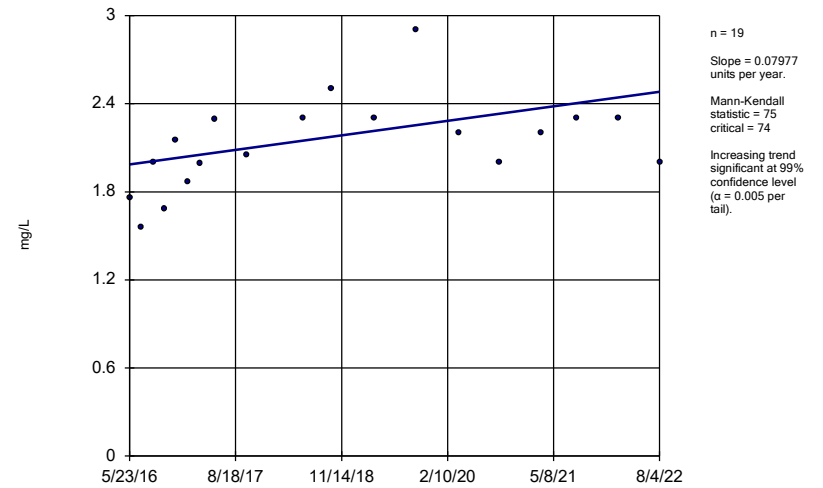
Constituent: Boron Analysis Run 11/8/2022 12:21 PM View: Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-8



Constituent: Boron Analysis Run 11/8/2022 12:21 PM View: Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

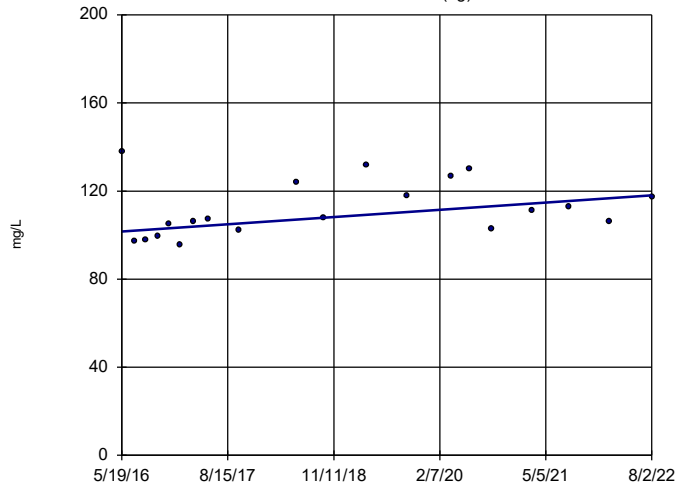
### Sen's Slope Estimator HGWC-9



Constituent: Boron Analysis Run 11/8/2022 12:21 PM View: Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-1 (bg)

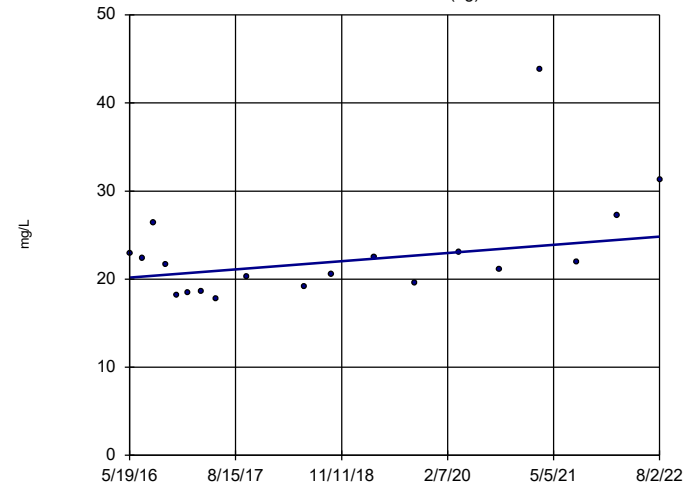


n = 20  
 Slope = 2.653  
 units per year.  
 Mann-Kendall  
 statistic = 61  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-2 (bg)

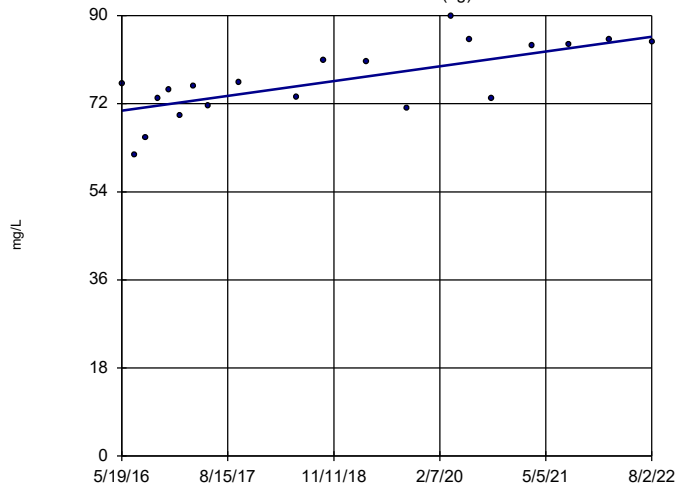


n = 19  
 Slope = 0.7505  
 units per year.  
 Mann-Kendall  
 statistic = 51  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-3 (bg)

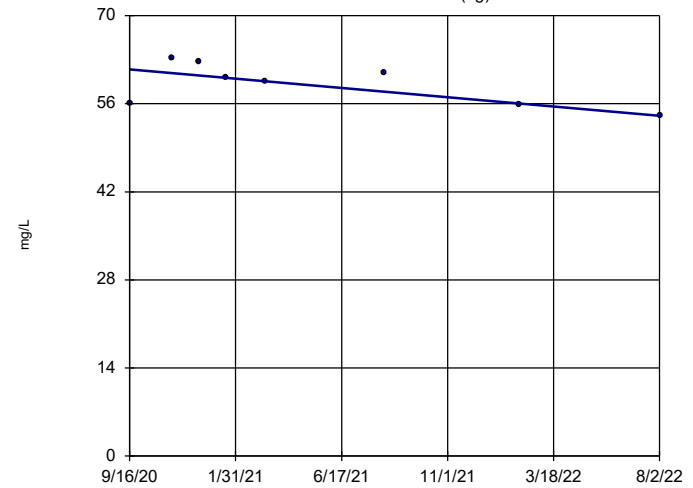


n = 20  
 Slope = 2.436  
 units per year.  
 Mann-Kendall  
 statistic = 99  
 critical = 81  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-43D (bg)

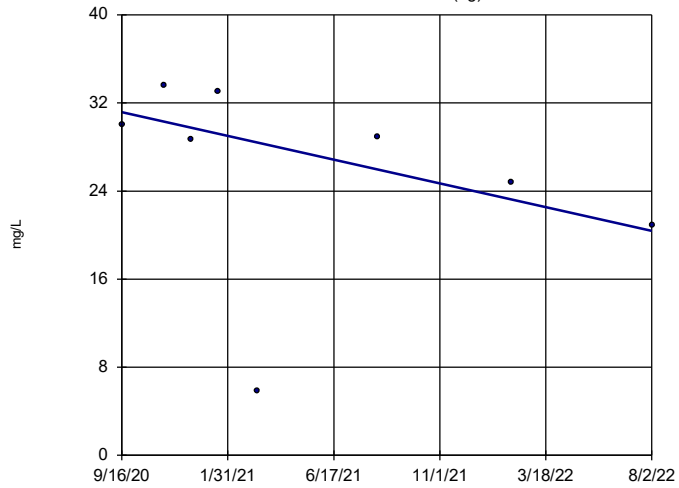


n = 8  
 Slope = -3.927  
 units per year.  
 Mann-Kendall  
 statistic = -14  
 critical = -21  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-44D (bg)

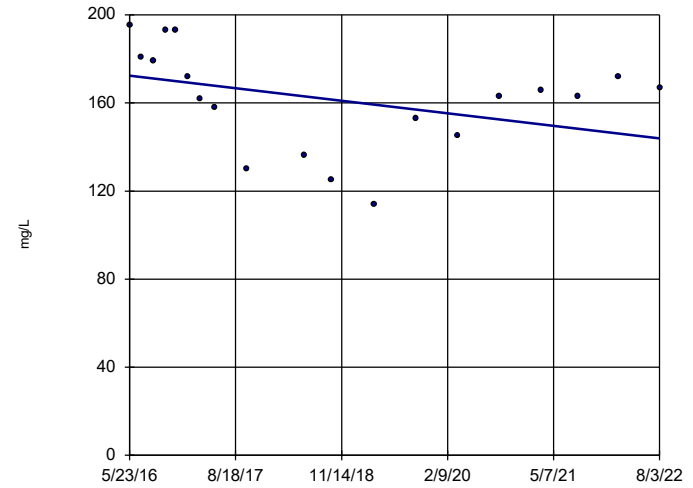


n = 8  
 Slope = -5.744  
 units per year.  
 Mann-Kendall  
 statistic = -14  
 critical = -21  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-12

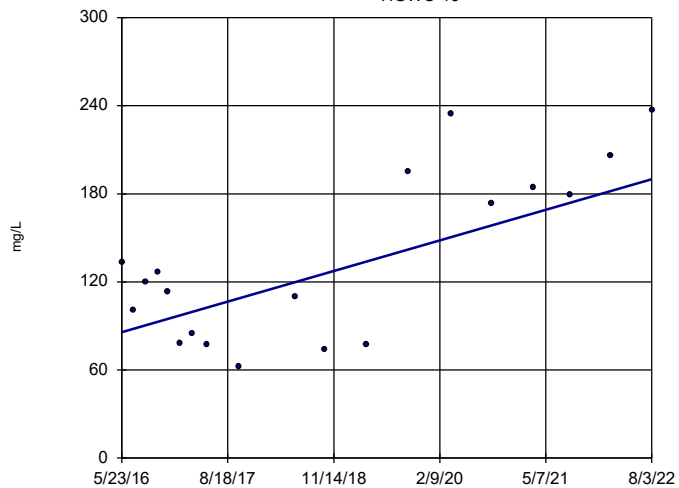


n = 19  
 Slope = -4.576  
 units per year.  
 Mann-Kendall  
 statistic = -48  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-13

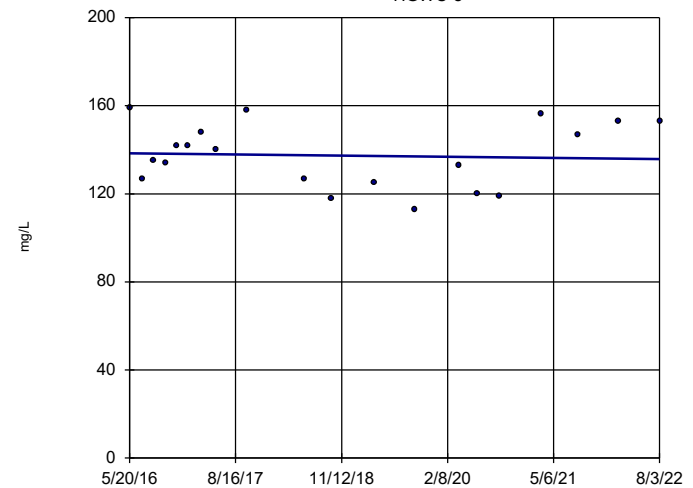


n = 19  
 Slope = 16.77  
 units per year.  
 Mann-Kendall  
 statistic = 50  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-8

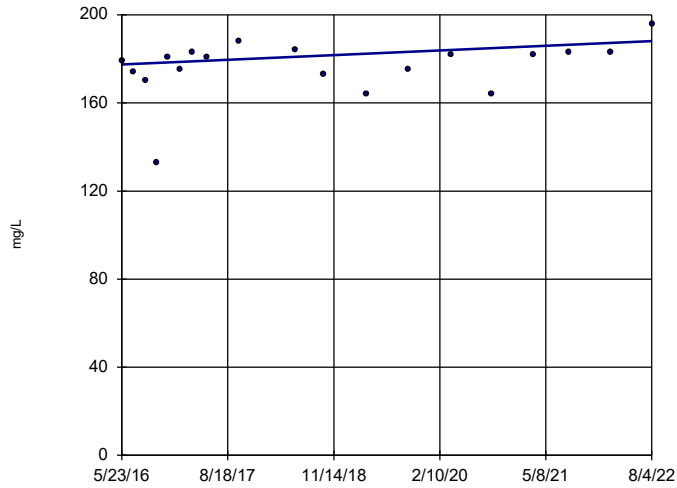


n = 20  
 Slope = -0.4257  
 units per year.  
 Mann-Kendall  
 statistic = -7  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-9

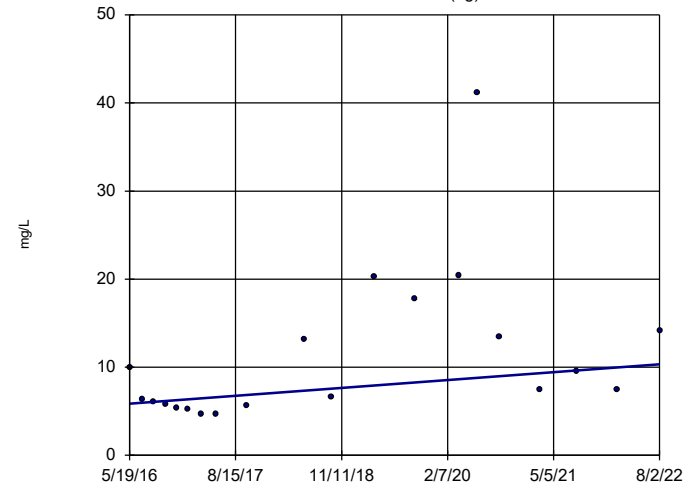


n = 19  
 Slope = 1.692  
 units per year.  
 Mann-Kendall  
 statistic = 52  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-1 (bg)

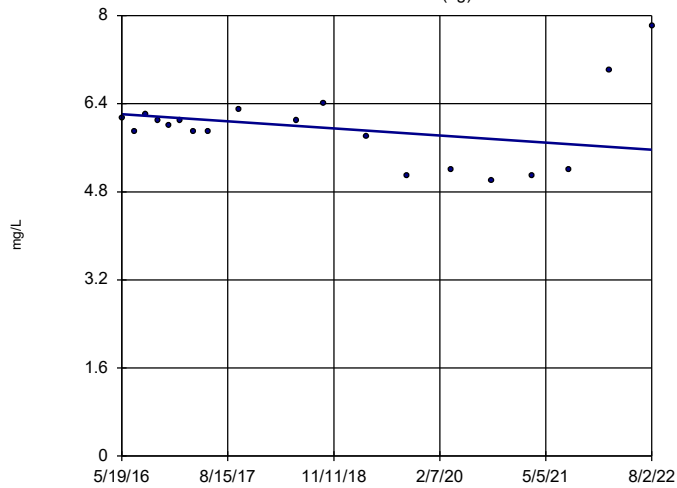


n = 20  
 Slope = 0.716  
 units per year.  
 Mann-Kendall  
 statistic = 61  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-2 (bg)

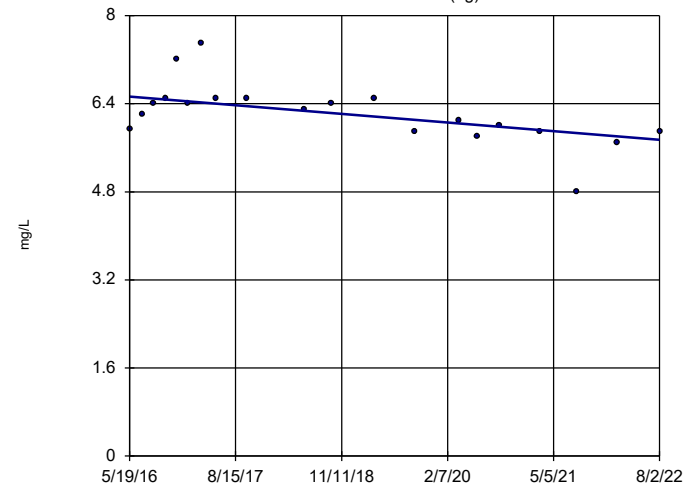


n = 19  
 Slope = -0.104  
 units per year.  
 Mann-Kendall  
 statistic = -27  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-3 (bg)



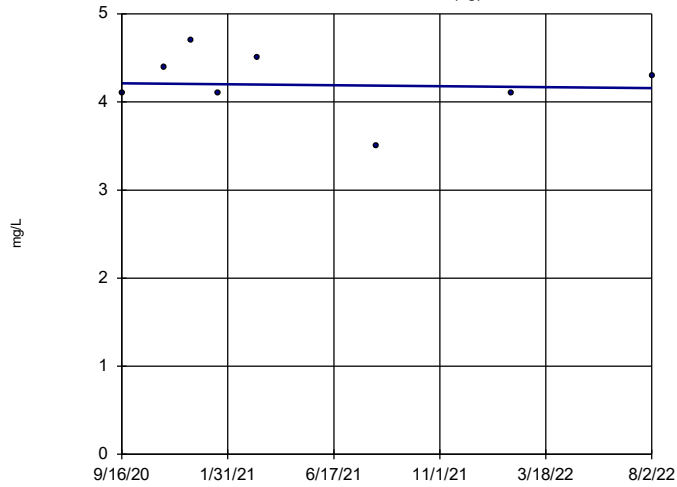
n = 20  
 Slope = -0.126  
 units per year.  
 Mann-Kendall  
 statistic = -84  
 critical = -81  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1



### Sen's Slope Estimator

HGWA-43D (bg)

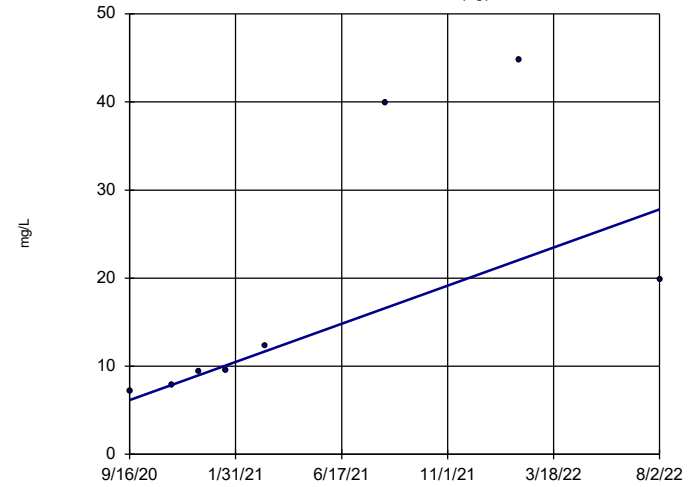


n = 8  
 Slope = -0.02897  
 units per year.  
 Mann-Kendall  
 statistic = -3  
 critical = -21  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-44D (bg)

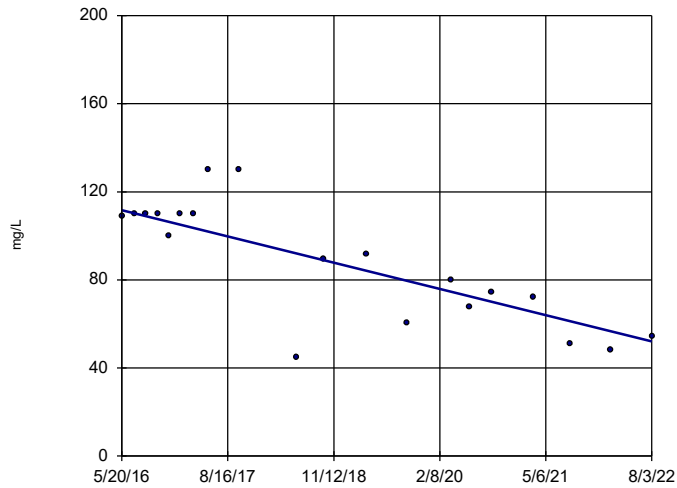


n = 8  
 Slope = 11.55  
 units per year.  
 Mann-Kendall  
 statistic = 24  
 critical = 21  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-8

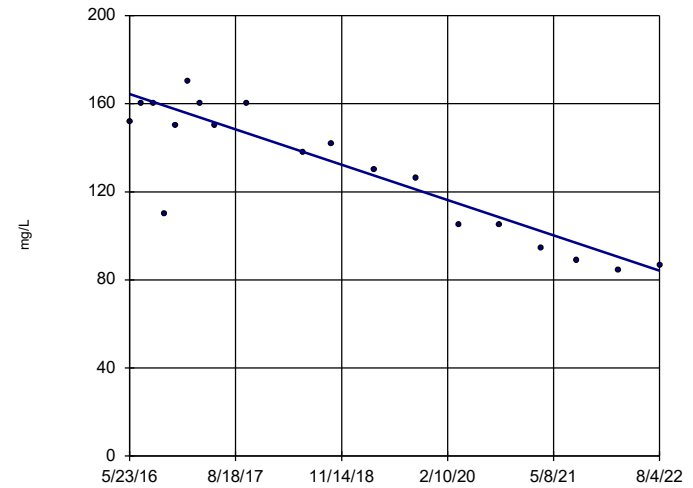


n = 20  
 Slope = -9.592  
 units per year.  
 Mann-Kendall  
 statistic = -99  
 critical = -81  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-9

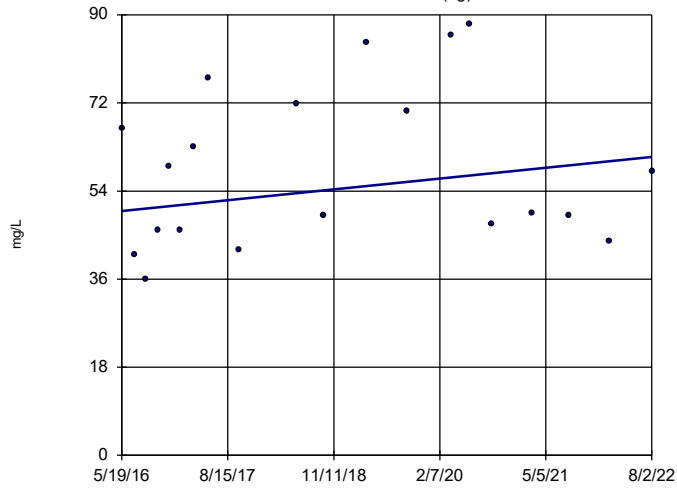


n = 19  
 Slope = -12.93  
 units per year.  
 Mann-Kendall  
 statistic = -119  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-1 (bg)

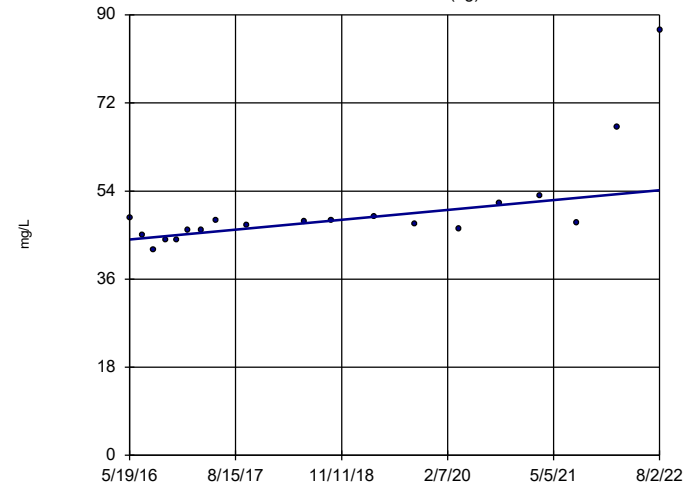


n = 20  
 Slope = 1.779  
 units per year.  
 Mann-Kendall  
 statistic = 35  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-2 (bg)

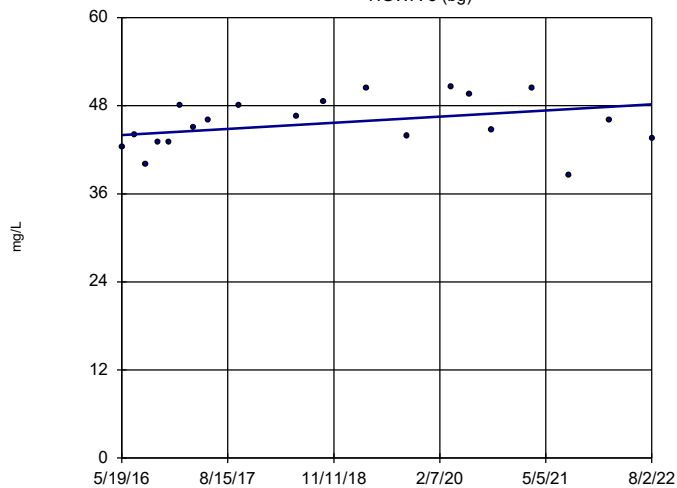


n = 19  
 Slope = 1.619  
 units per year.  
 Mann-Kendall  
 statistic = 101  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-3 (bg)

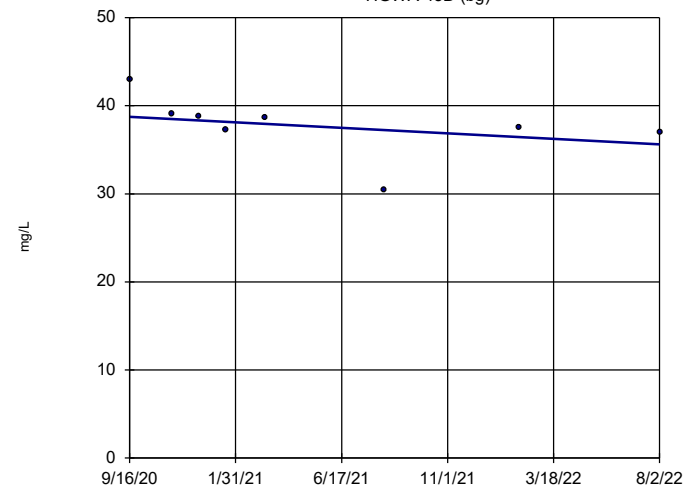


n = 20  
 Slope = 0.673  
 units per year.  
 Mann-Kendall  
 statistic = 52  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-43D (bg)

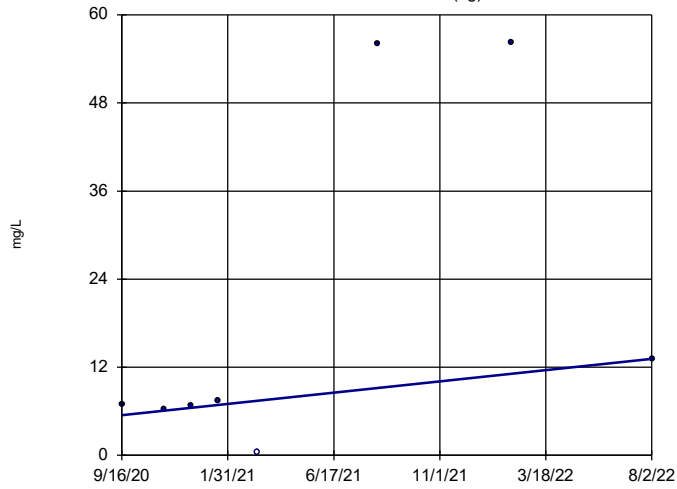


n = 8  
 Slope = -1.657  
 units per year.  
 Mann-Kendall  
 statistic = -20  
 critical = -21  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-44D (bg)

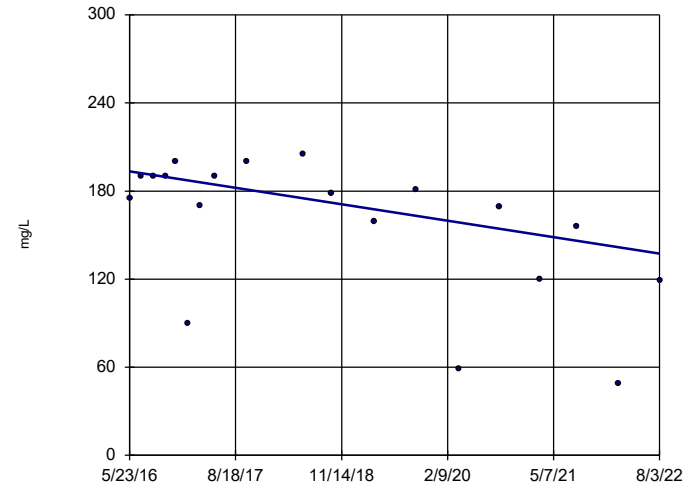


n = 8  
Slope = 4.085  
units per year.  
Mann-Kendall  
statistic = 12  
critical = 21  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 11/8/2022 12:21 PM View: Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-10

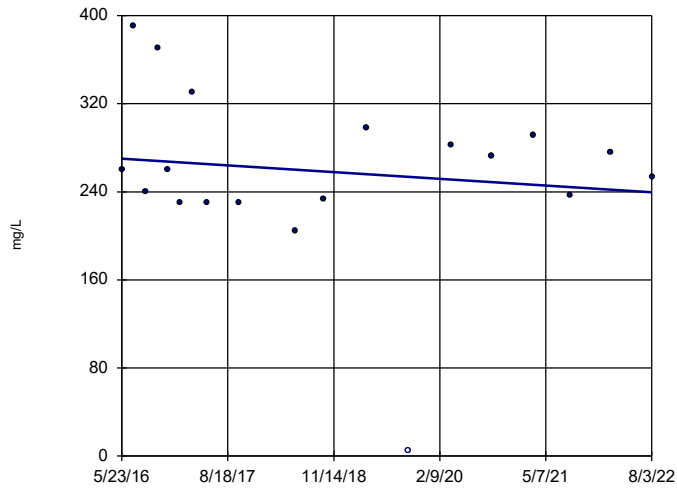


n = 19  
Slope = -9.032  
units per year.  
Mann-Kendall  
statistic = -70  
critical = -74  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 11/8/2022 12:21 PM View: Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-11

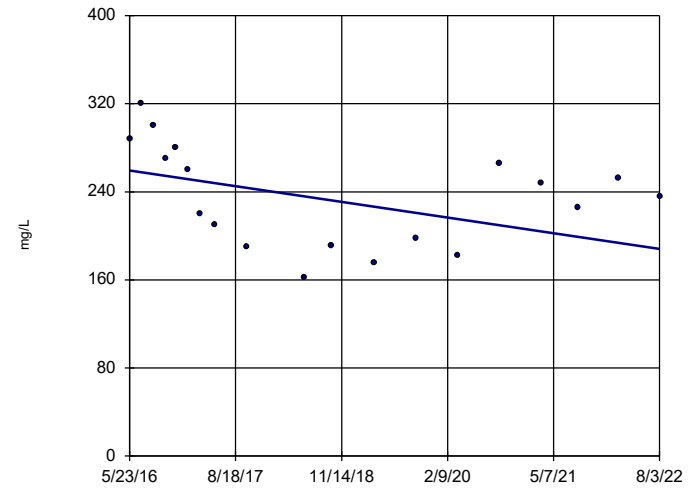


n = 19  
Slope = -4.895  
units per year.  
Mann-Kendall  
statistic = -19  
critical = -74  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Sulfate Analysis Run 11/8/2022 12:21 PM View: Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

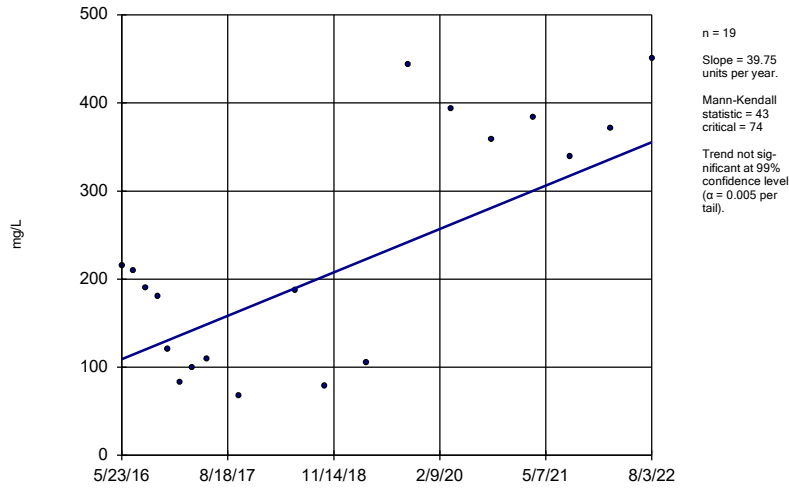
HGWC-12



n = 19  
Slope = -11.49  
units per year.  
Mann-Kendall  
statistic = -59  
critical = -74  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

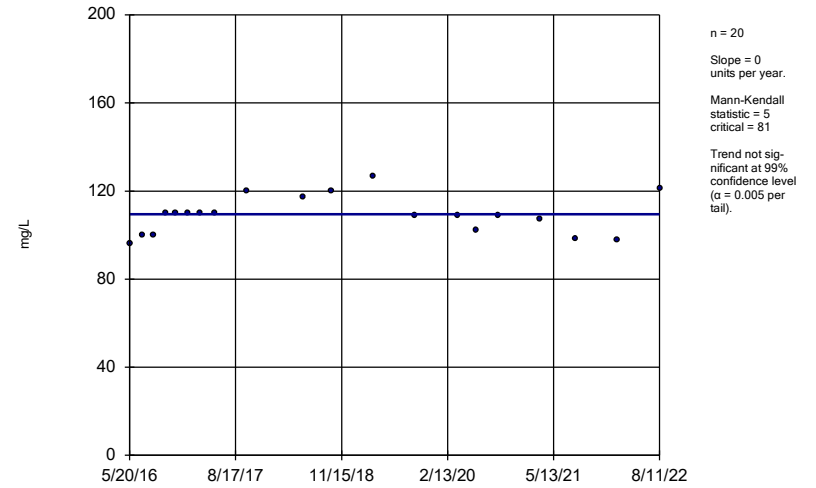
Constituent: Sulfate Analysis Run 11/8/2022 12:21 PM View: Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-13



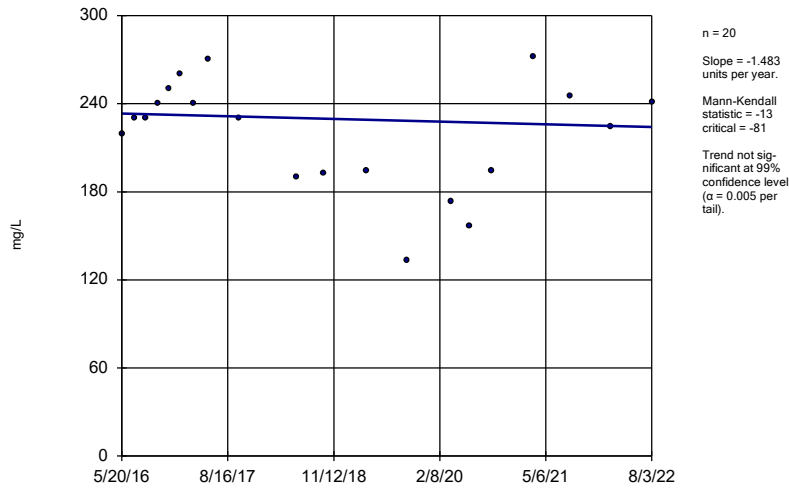
Constituent: Sulfate Analysis Run 11/8/2022 12:21 PM View: Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-7



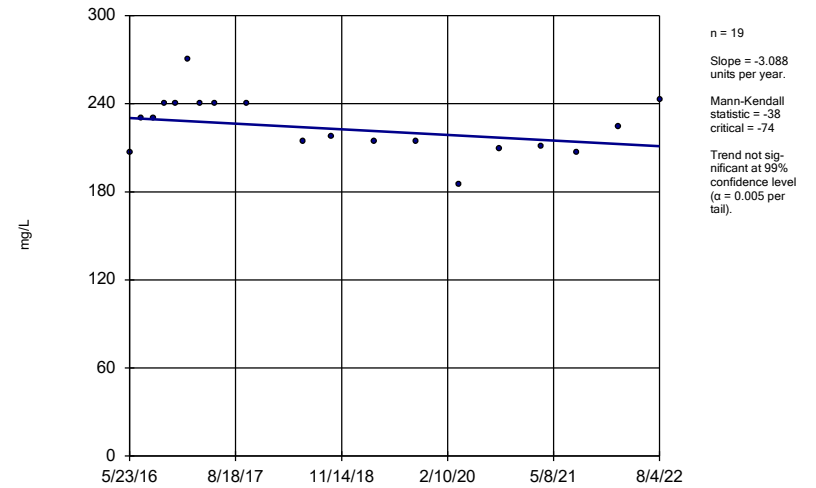
Constituent: Sulfate Analysis Run 11/8/2022 12:21 PM View: Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator HGWC-8



Constituent: Sulfate Analysis Run 11/8/2022 12:21 PM View: Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

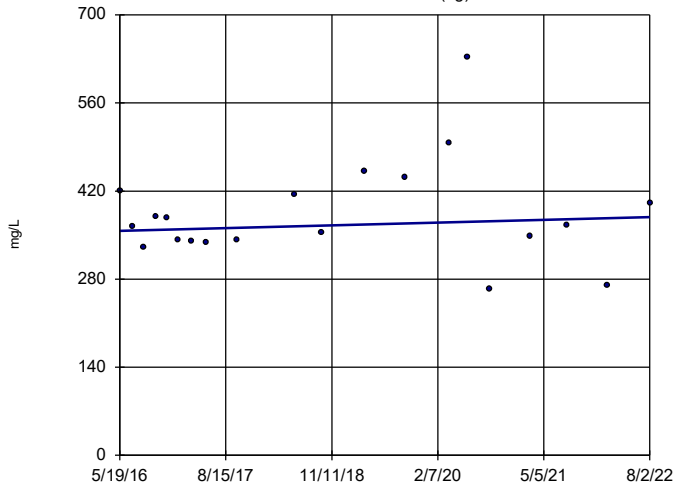
### Sen's Slope Estimator HGWC-9



Constituent: Sulfate Analysis Run 11/8/2022 12:21 PM View: Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-1 (bg)

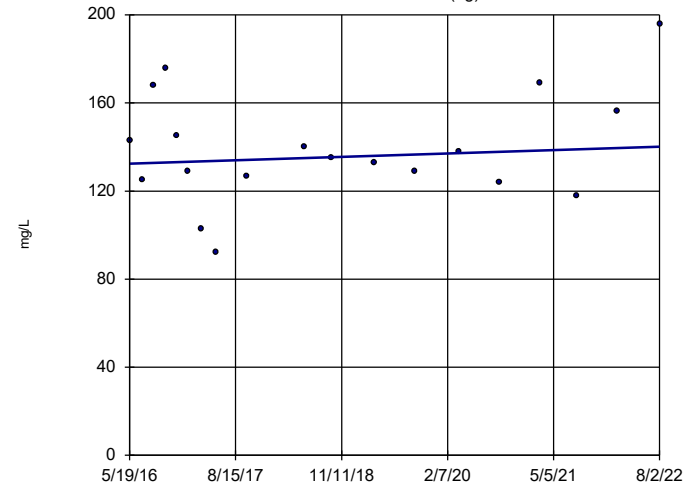


n = 20  
 Slope = 3.538  
 units per year.  
 Mann-Kendall  
 statistic = 14  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-2 (bg)

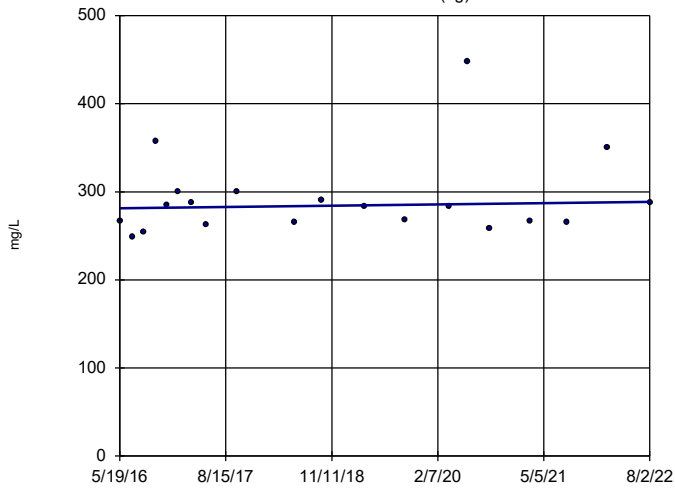


n = 19  
 Slope = 1.249  
 units per year.  
 Mann-Kendall  
 statistic = 6  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-3 (bg)

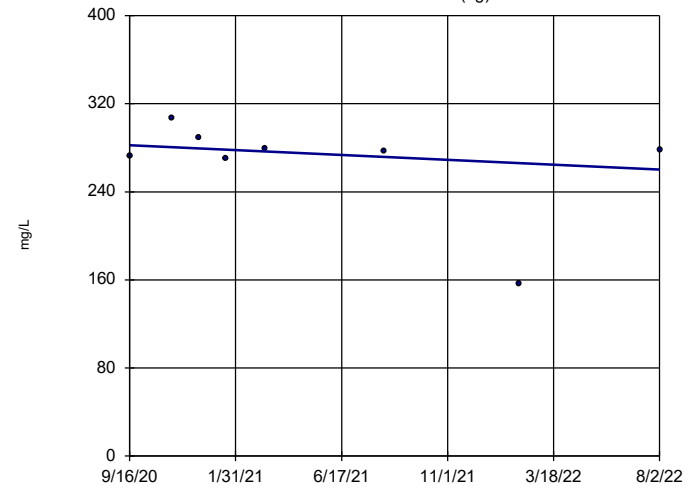


n = 20  
 Slope = 1.162  
 units per year.  
 Mann-Kendall  
 statistic = 17  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWA-43D (bg)

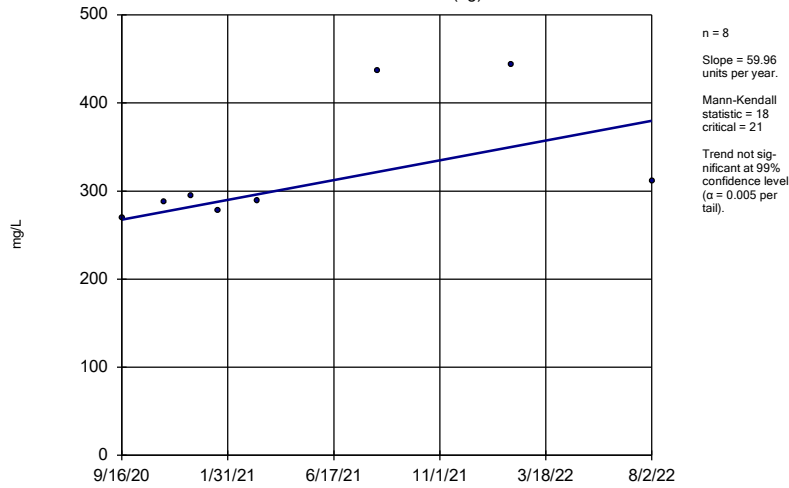


n = 8  
 Slope = -11.77  
 units per year.  
 Mann-Kendall  
 statistic = -8  
 critical = -21  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

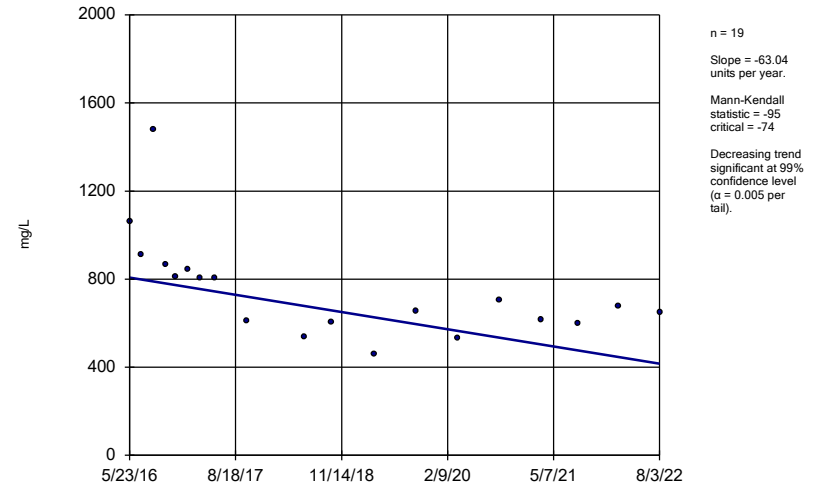
HGWA-44D (bg)



Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

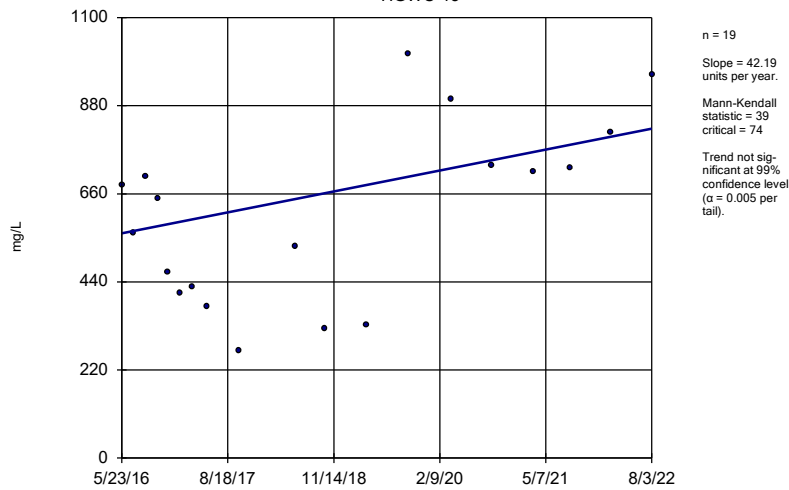
HGWC-12



Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

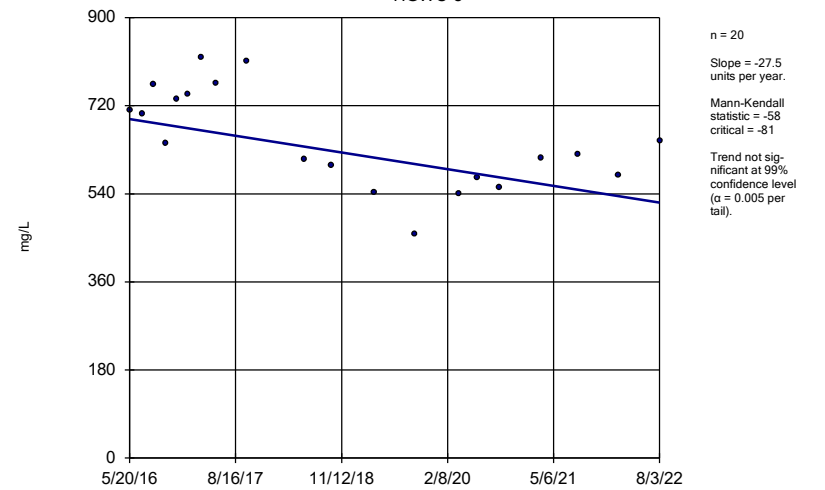
HGWC-13



Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

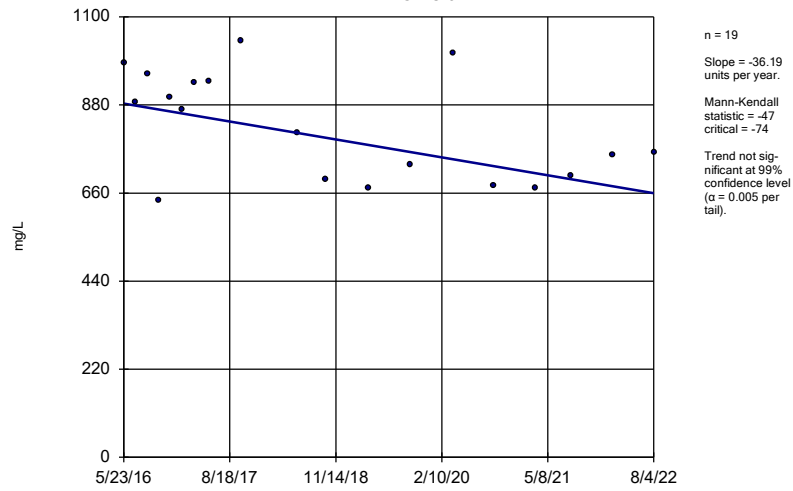
HGWC-8



Constituent: Total Dissolved Solids Analysis Run 11/8/2022 12:21 PM View: Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-9



Constituent: Total Dissolved Solids    Analysis Run 11/8/2022 12:21 PM    View: Trend Test  
Plant Hammond    Client: Southern Company    Data: Hammond AP-1

FIGURE F.



# Upper Tolerance Limits Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 12:27 PM

Constituent	Well	Upper 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	78	n/a	n/a	79.49	n/a	n/a	0.0183	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	84	n/a	n/a	65.48	n/a	n/a	0.01345	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	84	n/a	n/a	0	n/a	n/a	0.01345	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	78	n/a	n/a	78.21	n/a	n/a	0.0183	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	78	n/a	n/a	85.9	n/a	n/a	0.0183	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0079	n/a	n/a	n/a	78	n/a	n/a	82.05	n/a	n/a	0.0183	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	78	n/a	n/a	71.79	n/a	n/a	0.0183	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.36	n/a	n/a	n/a	84	n/a	n/a	0	n/a	n/a	0.01345	NP Inter(normality)
Fluoride (mg/L)	n/a	0.96	n/a	n/a	n/a	89	n/a	n/a	30.34	n/a	n/a	0.01041	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	75	n/a	n/a	66.67	n/a	n/a	0.02134	NP Inter(NDs)
Lithium (mg/L)	n/a	0.048	n/a	n/a	n/a	84	n/a	n/a	20.24	n/a	n/a	0.01345	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	56	n/a	n/a	96.43	n/a	n/a	0.05656	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	86	n/a	n/a	79.07	n/a	n/a	0.01214	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	84	n/a	n/a	97.62	n/a	n/a	0.01345	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	84	n/a	n/a	98.81	n/a	n/a	0.01345	NP Inter(NDs)

FIGURE G.

<b>PLANT HAMMOND AP-1 GWPS</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
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		0.0079	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		4.36	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 - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 4:25 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	HGWC-13	0.423	0.3588	0.01	Yes	22	0	No	0.01	Param.
Molybdenum (mg/L)	HGWC-8	0.4884	0.4282	0.1	Yes	23	0	No	0.01	Param.

# Confidence Interval - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 11/8/2022, 4:25 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	HGWC-10	0.003	0.0018	0.006	No	20	90	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-11	0.003	0.00038	0.006	No	20	95	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-13	0.003	0.00047	0.006	No	20	65	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-7	0.003	0.0017	0.006	No	20	90	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-8	0.003	0.00064	0.006	No	20	95	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-9	0.003	0.00043	0.006	No	20	85	No	0.01	NP (NDs)
Antimony (mg/L)	MW-24D	0.003	0.003	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	MW-26D	0.003	0.002	0.006	No	11	81.82	No	0.006	NP (NDs)
Antimony (mg/L)	MW-27D	0.003	0.0003	0.006	No	11	45.45	No	0.006	NP (normality)
Antimony (mg/L)	MW-28D	0.003	0.003	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	MW-29	0.003	0.003	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	MW-6	0.003	0.003	0.006	No	11	90.91	No	0.006	NP (NDs)
Antimony (mg/L)	MW-7	0.003	0.00086	0.006	No	11	63.64	No	0.006	NP (NDs)
Arsenic (mg/L)	HGWC-11	0.005	0.0018	0.01	No	22	45.45	No	0.01	NP (normality)
Arsenic (mg/L)	HGWC-12	0.004485	0.003134	0.01	No	22	9.091	No	0.01	Param.
<b>Arsenic (mg/L)</b>	<b>HGWC-13</b>	<b>0.423</b>	<b>0.3588</b>	<b>0.01</b>	<b>Yes</b>	<b>22</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Arsenic (mg/L)	HGWC-7	0.005	0.0019	0.01	No	22	95.45	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-8	0.005	0.002	0.01	No	22	95.45	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-9	0.005	0.0021	0.01	No	22	81.82	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-19	0.005	0.005	0.01	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-20	0.005	0.00094	0.01	No	11	72.73	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.001	0.01	No	11	63.64	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-26D	0.005	0.0008	0.01	No	11	72.73	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-27D	0.005	0.00069	0.01	No	11	72.73	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-28D	0.005	0.005	0.01	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-29	0.005	0.005	0.01	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-5	0.005	0.005	0.01	No	11	90.91	No	0.006	NP (NDs)
Arsenic (mg/L)	MW-6	0.005	0.005	0.01	No	11	90.91	No	0.006	NP (NDs)
Barium (mg/L)	HGWC-10	0.08534	0.06369	2	No	22	0	No	0.01	Param.
Barium (mg/L)	HGWC-11	0.05145	0.0329	2	No	22	0	sqrt(x)	0.01	Param.
Barium (mg/L)	HGWC-12	0.123	0.084	2	No	22	0	No	0.01	NP (normality)
Barium (mg/L)	HGWC-13	0.08872	0.06697	2	No	22	0	No	0.01	Param.
Barium (mg/L)	HGWC-7	0.07442	0.0683	2	No	22	0	No	0.01	Param.
Barium (mg/L)	HGWC-8	0.07435	0.06247	2	No	22	0	No	0.01	Param.
Barium (mg/L)	HGWC-9	0.1196	0.1039	2	No	22	0	No	0.01	Param.
Barium (mg/L)	MW-19	0.06311	0.04725	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-20	0.0954	0.08515	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-24D	0.081	0.048	2	No	11	0	No	0.006	NP (normality)
Barium (mg/L)	MW-25D	0.585	0.4005	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-26D	0.1258	0.07508	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-27D	1.2	0.95	2	No	11	0	No	0.006	NP (normality)
Barium (mg/L)	MW-28D	0.7166	0.3071	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-29	0.08416	0.07548	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-5	0.05236	0.044	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-6	0.09128	0.08017	2	No	11	0	No	0.01	Param.
Barium (mg/L)	MW-7	0.06273	0.04999	2	No	11	0	No	0.01	Param.
Beryllium (mg/L)	HGWC-11	0.0005	0.00012	0.004	No	20	65	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-13	0.0005	0.000097	0.004	No	20	60	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-7	0.0005	0.00019	0.004	No	20	85	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-8	0.0005	0.000078	0.004	No	20	65	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-19	0.0005	0.0005	0.004	No	11	90.91	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-28D	0.0005	0.000054	0.004	No	11	72.73	No	0.006	NP (NDs)
Beryllium (mg/L)	MW-7	0.0005	0.0005	0.004	No	11	90.91	No	0.006	NP (NDs)
Cadmium (mg/L)	HGWC-10	0.0005	0.000115	0.005	No	20	65	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-11	0.0005	0.0001	0.005	No	20	85	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-12	0.0005	0.0003	0.005	No	20	80	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-7	0.0005	0.0002	0.005	No	20	80	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-8	0.0003	0.00017	0.005	No	20	5	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-9	0.0005	0.0002	0.005	No	20	85	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-19	0.0003602	0.0001462	0.005	No	11	18.18	ln(x)	0.01	Param.
Chromium (mg/L)	HGWC-10	0.02	0.0011	0.1	No	20	90	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-11	0.005	0.00061	0.1	No	20	90	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-12	0.005	0.0025	0.1	No	20	85	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-13	0.005	0.00059	0.1	No	20	85	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-7	0.005	0.0021	0.1	No	20	70	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-8	0.005	0.0015	0.1	No	20	80	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-9	0.005	0.0011	0.1	No	20	85	No	0.01	NP (NDs)
Chromium (mg/L)	MW-19	0.005	0.00059	0.1	No	11	54.55	No	0.006	NP (NDs)

# Confidence Interval - All Results

Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 11/8/2022, 4:25 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Chromium (mg/L)	MW-20	0.005	0.00068	0.1	No	11	72.73	No	0.006	NP (NDs)
Chromium (mg/L)	MW-24D	0.005	0.0017	0.1	No	11	81.82	No	0.006	NP (NDs)
Chromium (mg/L)	MW-25D	0.005	0.005	0.1	No	11	90.91	No	0.006	NP (NDs)
Chromium (mg/L)	MW-26D	0.005	0.001	0.1	No	11	54.55	No	0.006	NP (NDs)
Chromium (mg/L)	MW-27D	0.005	0.00082	0.1	No	11	81.82	No	0.006	NP (NDs)
Chromium (mg/L)	MW-28D	0.005	0.00081	0.1	No	11	45.45	No	0.006	NP (normality)
Chromium (mg/L)	MW-29	0.005	0.005	0.1	No	11	90.91	No	0.006	NP (NDs)
Chromium (mg/L)	MW-5	0.004035	0.002129	0.1	No	11	0	No	0.01	Param.
Chromium (mg/L)	MW-6	0.005	0.00059	0.1	No	11	81.82	No	0.006	NP (NDs)
Chromium (mg/L)	MW-7	0.005	0.0015	0.1	No	11	18.18	No	0.006	NP (normality)
Cobalt (mg/L)	HGWC-10	0.005	0.0009	0.038	No	20	70	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-11	0.005	0.00098	0.038	No	20	40	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-12	0.0018	0.0012	0.038	No	20	10	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-13	0.004079	0.002712	0.038	No	20	5	No	0.01	Param.
Cobalt (mg/L)	HGWC-7	0.001734	0.0006874	0.038	No	20	15	ln(x)	0.01	Param.
Cobalt (mg/L)	HGWC-8	0.0023	0.0019	0.038	No	20	5	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-9	0.0007	0.00051	0.038	No	20	10	No	0.01	NP (normality)
Cobalt (mg/L)	MW-19	0.04247	0.03117	0.038	No	11	0	No	0.01	Param.
Cobalt (mg/L)	MW-20	0.005	0.005	0.038	No	11	90.91	No	0.006	NP (NDs)
Cobalt (mg/L)	MW-24D	0.005	0.00056	0.038	No	11	72.73	No	0.006	NP (NDs)
Cobalt (mg/L)	MW-26D	0.005	0.00044	0.038	No	11	36.36	No	0.006	NP (normality)
Cobalt (mg/L)	MW-27D	0.005	0.0004	0.038	No	11	72.73	No	0.006	NP (NDs)
Cobalt (mg/L)	MW-28D	0.005	0.005	0.038	No	11	90.91	No	0.006	NP (NDs)
Cobalt (mg/L)	MW-29	0.001272	0.0007404	0.038	No	11	0	No	0.01	Param.
Cobalt (mg/L)	MW-6	0.005	0.00041	0.038	No	11	18.18	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	HGWC-10	1.058	0.5797	5	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-11	1.161	0.6669	5	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-12	1.039	0.5572	5	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-13	0.9918	0.5902	5	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-7	0.8841	0.4153	5	No	22	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-8	0.9716	0.6894	5	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-9	0.9078	0.53	5	No	22	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-19	1.006	0.4287	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	1.047	0.3682	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	0.6312	0.1484	5	No	11	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	1.3	0.7837	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26D	0.9854	0.08658	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-27D	1.649	0.7618	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-28D	1.442	0.5821	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-29	0.9568	0.3423	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5	0.9809	0.5136	5	No	11	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	0.872	0.543	5	No	11	0	No	0.006	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-7	1.237	0.5474	5	No	11	0	No	0.01	Param.
Fluoride (mg/L)	HGWC-10	0.1868	0.0772	4	No	23	17.39	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-11	0.4253	0.2575	4	No	23	0	No	0.01	Param.
Fluoride (mg/L)	HGWC-12	0.3731	0.1799	4	No	23	4.348	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-13	0.6974	0.5068	4	No	23	0	No	0.01	Param.
Fluoride (mg/L)	HGWC-7	0.1549	0.08395	4	No	24	8.333	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-8	0.6197	0.4753	4	No	24	0	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-9	0.2355	0.0904	4	No	23	8.696	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-19	0.2861	0.1015	4	No	11	0	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-20	0.072	0.05	4	No	11	81.82	No	0.006	NP (NDs)
Fluoride (mg/L)	MW-24D	0.075	0.05	4	No	11	36.36	No	0.006	NP (normality)
Fluoride (mg/L)	MW-25D	1.7	1.5	4	No	11	0	No	0.006	NP (normality)
Fluoride (mg/L)	MW-26D	0.1083	0.05013	4	No	11	9.091	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-27D	0.28	0.24	4	No	11	0	No	0.006	NP (normality)
Fluoride (mg/L)	MW-28D	0.2441	0.1577	4	No	11	0	No	0.01	Param.
Fluoride (mg/L)	MW-29	0.07	0.05	4	No	11	63.64	No	0.006	NP (NDs)
Fluoride (mg/L)	MW-5	0.08558	0.05579	4	No	11	18.18	No	0.01	Param.
Fluoride (mg/L)	MW-6	0.19	0.05	4	No	11	18.18	No	0.006	NP (normality)
Fluoride (mg/L)	MW-7	0.078	0.05	4	No	11	72.73	No	0.006	NP (NDs)
Lead (mg/L)	HGWC-10	0.001	0.00005	0.015	No	18	94.44	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-11	0.001	0.00021	0.015	No	18	66.67	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-12	0.001	0.000096	0.015	No	18	72.22	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-13	0.001	0.00015	0.015	No	18	66.67	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-7	0.001	0.0001	0.015	No	18	50	No	0.01	NP (normality)
Lead (mg/L)	HGWC-8	0.001	0.0002	0.015	No	18	77.78	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-9	0.001	0.00014	0.015	No	18	55.56	No	0.01	NP (NDs)

# Confidence Interval - All Results

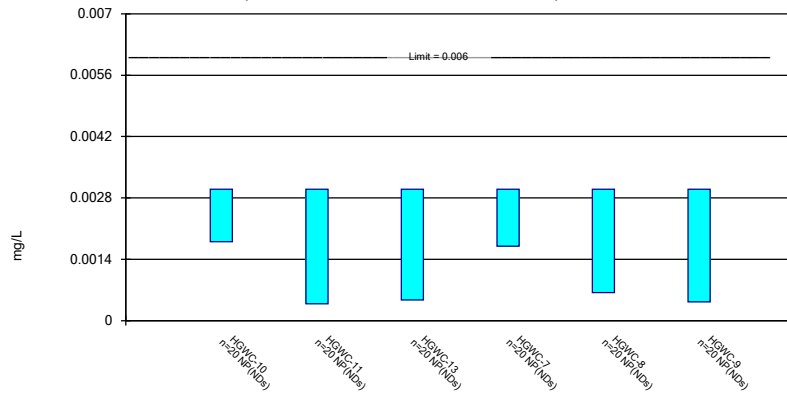
Plant Hammond    Client: Southern Company    Data: Hammond AP-1    Printed 11/8/2022, 4:25 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Lead (mg/L)	MW-19	0.001	0.000038	0.015	No	9	55.56	No	0.002	NP (NDs)
Lead (mg/L)	MW-20	0.001	0.000039	0.015	No	9	55.56	No	0.002	NP (NDs)
Lead (mg/L)	MW-24D	0.001	0.00004	0.015	No	9	44.44	No	0.002	NP (normality)
Lead (mg/L)	MW-26D	0.001	0.00008	0.015	No	9	77.78	No	0.002	NP (NDs)
Lead (mg/L)	MW-27D	0.001	0.00013	0.015	No	9	77.78	No	0.002	NP (NDs)
Lead (mg/L)	MW-28D	0.001	0.000062	0.015	No	9	44.44	No	0.002	NP (normality)
Lead (mg/L)	MW-29	0.001	0.000052	0.015	No	9	66.67	No	0.002	NP (NDs)
Lead (mg/L)	MW-5	0.001	0.000047	0.015	No	9	88.89	No	0.002	NP (NDs)
Lead (mg/L)	MW-6	0.001	0.000036	0.015	No	9	55.56	No	0.002	NP (NDs)
Lead (mg/L)	MW-7	0.001	0.000062	0.015	No	9	88.89	No	0.002	NP (NDs)
Lithium (mg/L)	HGWC-12	0.01063	0.008181	0.048	No	22	0	No	0.01	Param.
Lithium (mg/L)	HGWC-13	0.03717	0.03058	0.048	No	22	0	No	0.01	Param.
Lithium (mg/L)	HGWC-7	0.003	0.0021	0.048	No	22	4.545	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-8	0.0029	0.0025	0.048	No	22	4.545	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-9	0.0045	0.004	0.048	No	22	4.545	No	0.01	NP (normality)
Lithium (mg/L)	MW-19	0.01323	0.009135	0.048	No	11	0	x^2	0.01	Param.
Lithium (mg/L)	MW-20	0.015	0.00082	0.048	No	11	18.18	No	0.006	NP (normality)
Lithium (mg/L)	MW-24D	0.002869	0.002549	0.048	No	11	0	No	0.01	Param.
Lithium (mg/L)	MW-25D	0.0504	0.04451	0.048	No	11	0	No	0.01	Param.
Lithium (mg/L)	MW-26D	0.0041	0.0033	0.048	No	11	0	No	0.006	NP (normality)
Lithium (mg/L)	MW-27D	0.008693	0.006143	0.048	No	11	0	No	0.01	Param.
Lithium (mg/L)	MW-28D	0.01304	0.006886	0.048	No	11	0	No	0.01	Param.
Lithium (mg/L)	MW-29	0.00238	0.002057	0.048	No	11	0	No	0.01	Param.
Mercury (mg/L)	HGWC-10	0.0002	0.00005	0.002	No	14	92.86	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-11	0.0002	0.00005	0.002	No	14	92.86	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-13	0.0002	0.00005	0.002	No	14	85.71	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-9	0.0002	0.00004	0.002	No	14	92.86	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-10	0.005	0.0013	0.1	No	22	59.09	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-11	0.02657	0.0168	0.1	No	22	0	No	0.01	Param.
Molybdenum (mg/L)	HGWC-12	0.04919	0.04545	0.1	No	22	0	No	0.01	Param.
Molybdenum (mg/L)	HGWC-13	0.03554	0.03057	0.1	No	22	0	No	0.01	Param.
Molybdenum (mg/L)	HGWC-7	0.0431	0.0356	0.1	No	23	0	No	0.01	Param.
<b>Molybdenum (mg/L)</b>	<b>HGWC-8</b>	<b>0.4884</b>	<b>0.4282</b>	<b>0.1</b>	<b>Yes</b>	<b>23</b>	<b>0</b>	<b>No</b>	<b>0.01</b>	<b>Param.</b>
Molybdenum (mg/L)	HGWC-9	0.034	0.0239	0.1	No	22	0	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-19	0.05479	0.02885	0.1	No	11	0	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.005	0.0008	0.1	No	11	36.36	No	0.006	NP (normality)
Molybdenum (mg/L)	MW-25D	0.005	0.0022	0.1	No	11	81.82	No	0.006	NP (NDs)
Molybdenum (mg/L)	MW-26D	0.02361	0.01073	0.1	No	12	8.333	No	0.01	Param.
Molybdenum (mg/L)	MW-27D	0.003874	0.001413	0.1	No	11	9.091	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MW-28D	0.02066	0.008599	0.1	No	11	0	No	0.01	Param.
Molybdenum (mg/L)	MW-29	0.003332	0.002432	0.1	No	11	0	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.002656	0.002253	0.1	No	11	0	No	0.01	Param.
Molybdenum (mg/L)	MW-7	0.005	0.0014	0.1	No	11	36.36	No	0.006	NP (normality)
Selenium (mg/L)	HGWC-10	0.005	0.0031	0.05	No	22	68.18	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-11	0.01414	0.006284	0.05	No	22	0	No	0.01	Param.
Selenium (mg/L)	HGWC-12	0.005	0.0011	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-13	0.005	0.0016	0.05	No	22	90.91	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-8	0.005	0.0024	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-9	0.005	0.0037	0.05	No	22	95.45	No	0.01	NP (NDs)
Selenium (mg/L)	MW-19	0.004737	0.002058	0.05	No	11	18.18	No	0.01	Param.
Selenium (mg/L)	MW-27D	0.005	0.005	0.05	No	11	90.91	No	0.006	NP (NDs)
Selenium (mg/L)	MW-5	0.003568	0.002359	0.05	No	11	0	No	0.01	Param.
Selenium (mg/L)	MW-7	0.005	0.0014	0.05	No	11	45.45	No	0.006	NP (normality)
Thallium (mg/L)	HGWC-11	0.001	0.00008	0.002	No	22	90.91	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-12	0.001	0.0002	0.002	No	22	72.73	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-13	0.00048	0.00034	0.002	No	22	9.091	No	0.01	NP (normality)
Thallium (mg/L)	HGWC-8	0.001	0.00011	0.002	No	22	68.18	No	0.01	NP (NDs)
Thallium (mg/L)	MW-19	0.001	0.00023	0.002	No	11	27.27	No	0.006	NP (normality)
Thallium (mg/L)	MW-28D	0.001	0.001	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	MW-29	0.001	0.001	0.002	No	11	90.91	No	0.006	NP (NDs)
Thallium (mg/L)	MW-6	0.001	0.001	0.002	No	11	90.91	No	0.006	NP (NDs)



### Non-Parametric Confidence Interval

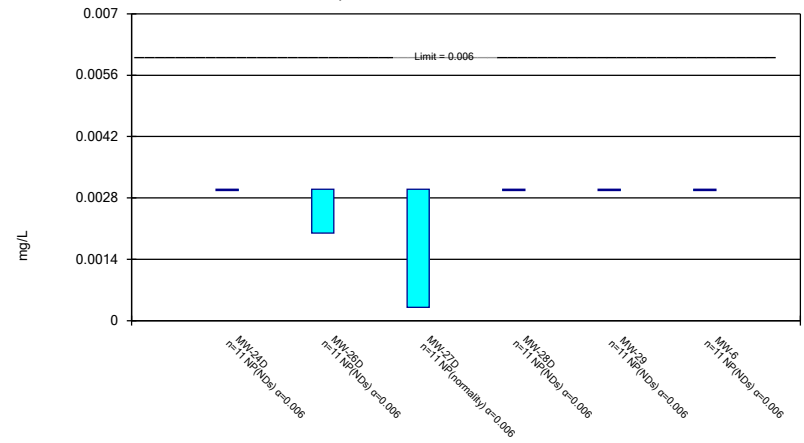
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

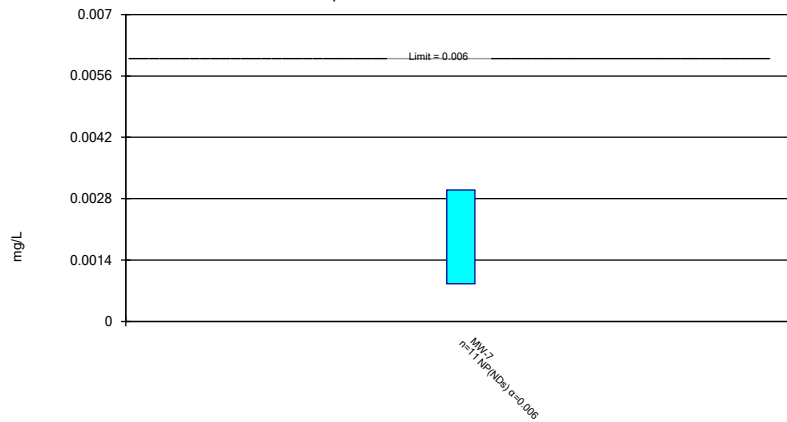
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

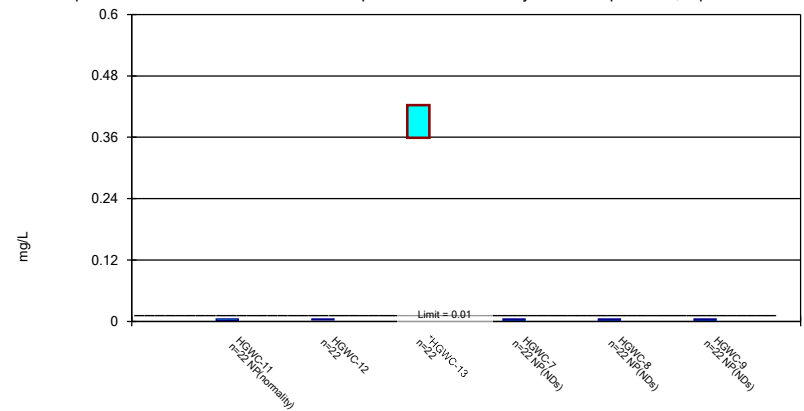
Compliance Limit is not exceeded.



Constituent: Antimony Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

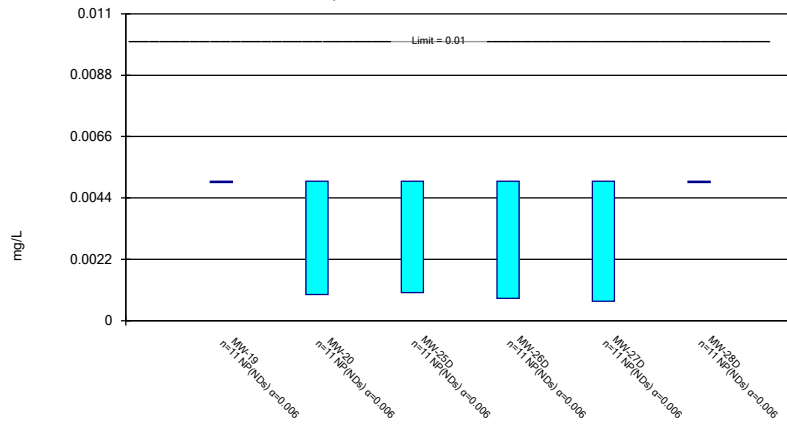
### Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



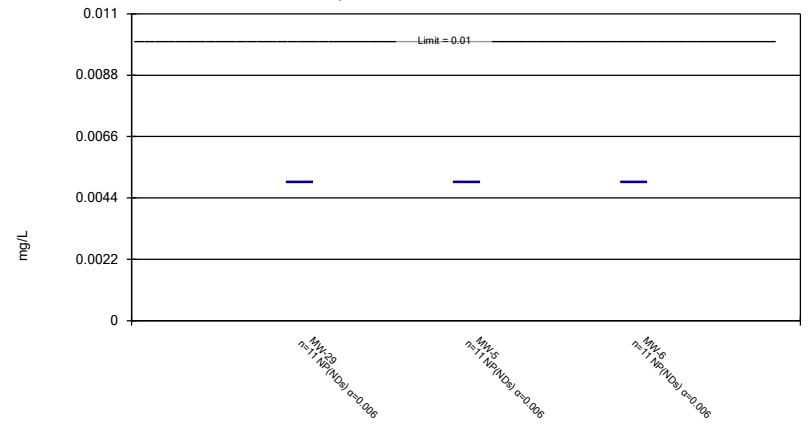
Constituent: Arsenic Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.



Constituent: Arsenic Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

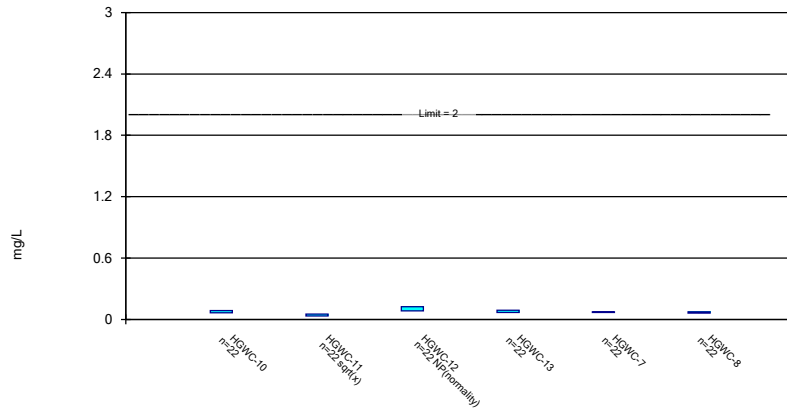
Non-Parametric Confidence Interval  
Compliance Limit is not exceeded.



Constituent: Arsenic Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

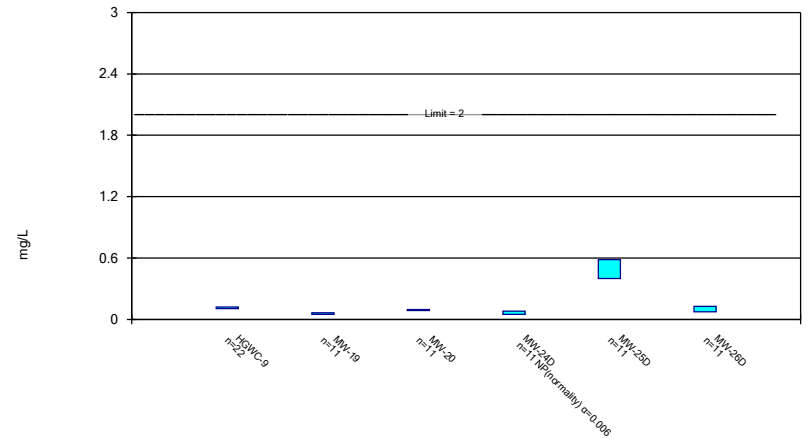
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

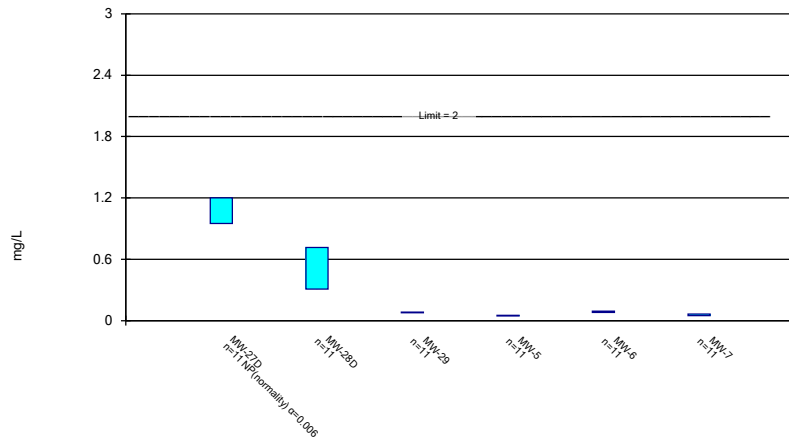
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

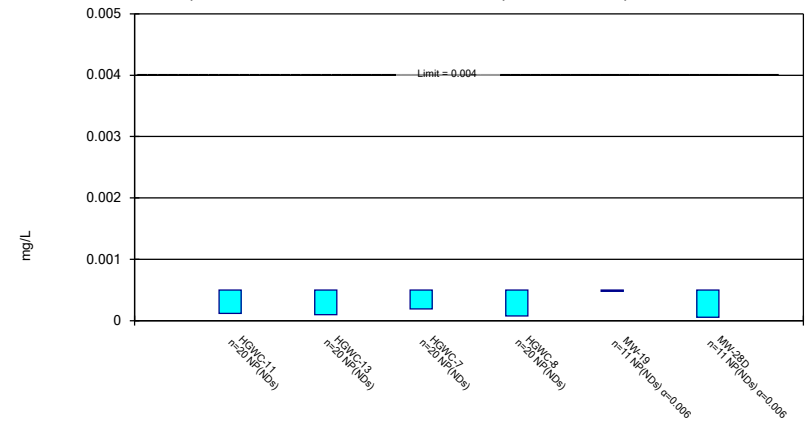
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

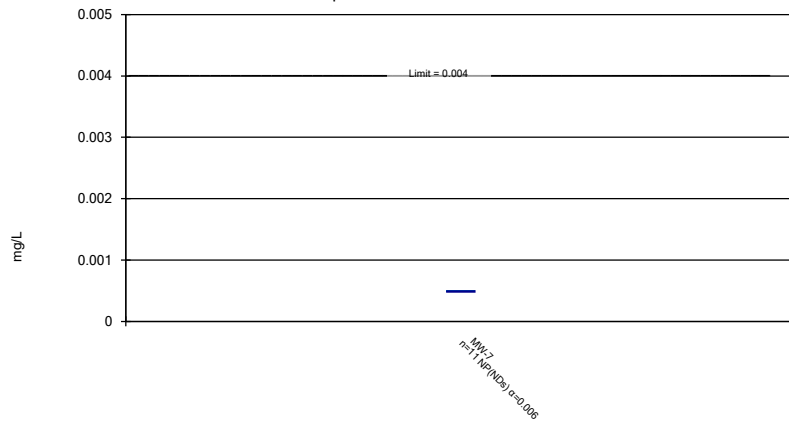
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Beryllium Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

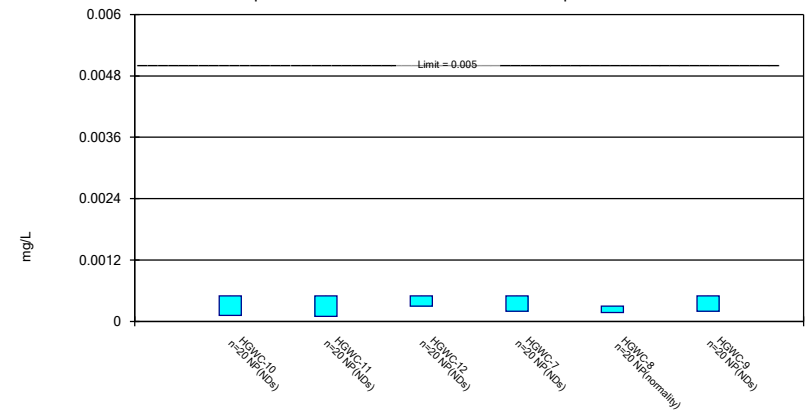
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

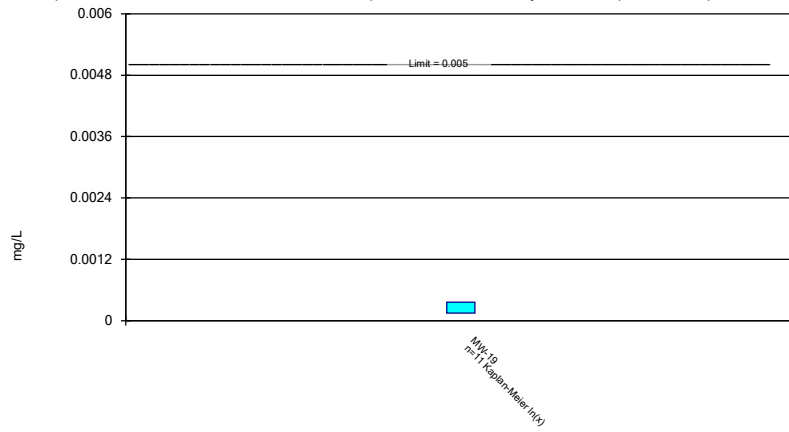
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric Confidence Interval

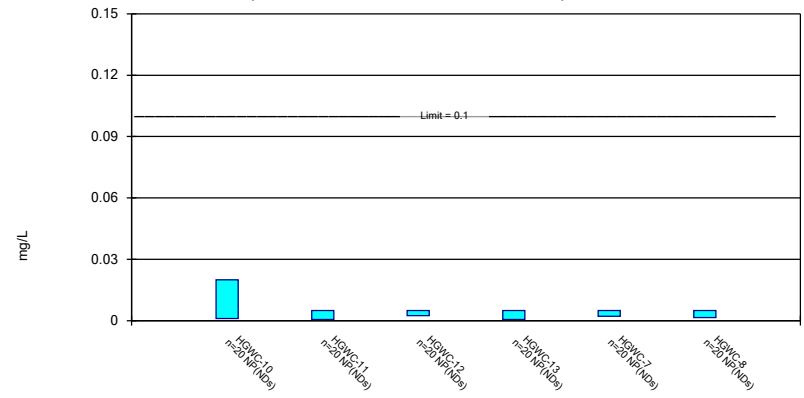
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

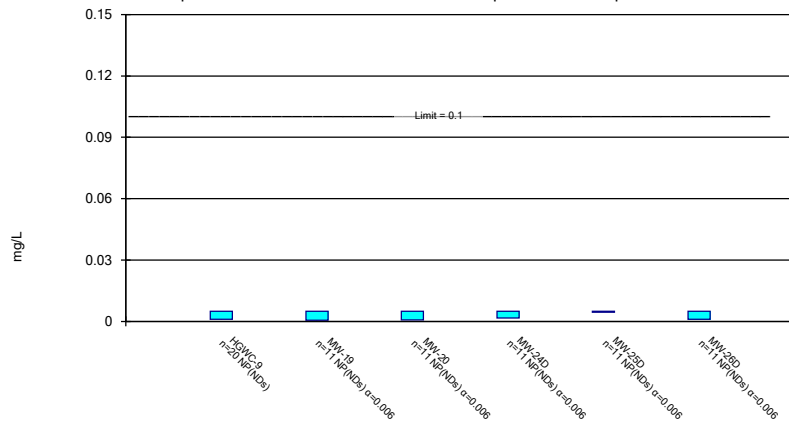
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

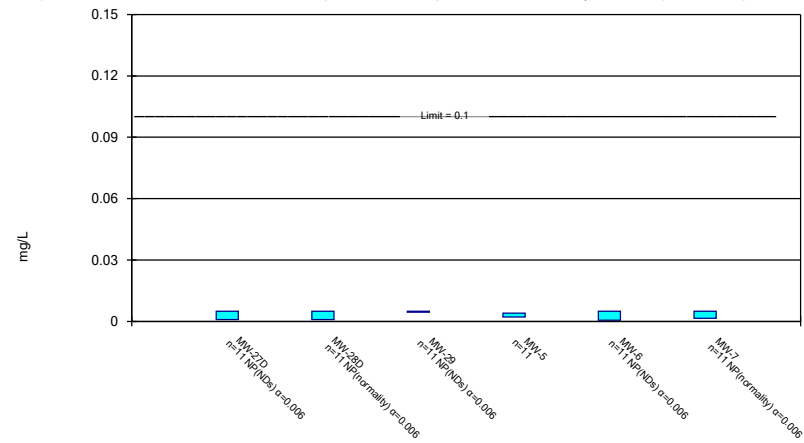
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

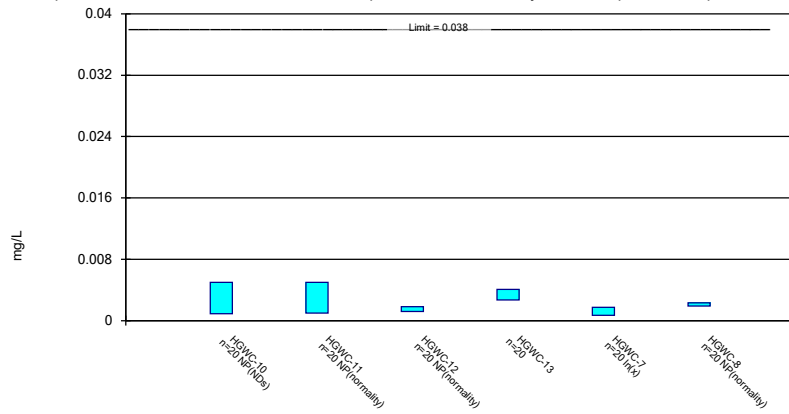
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

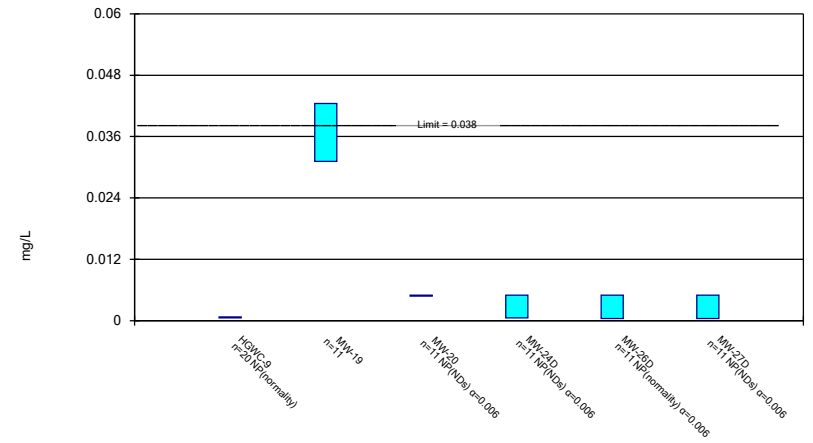
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

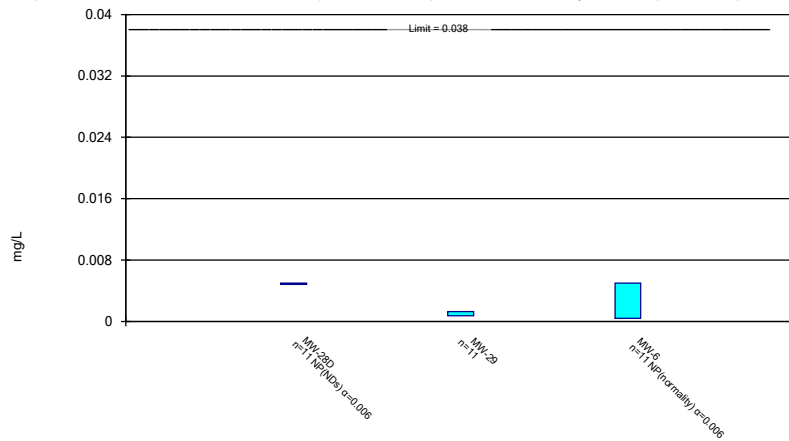
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

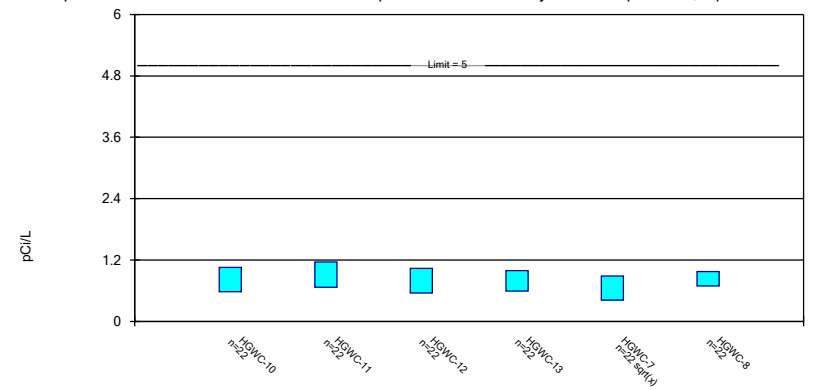
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric Confidence Interval

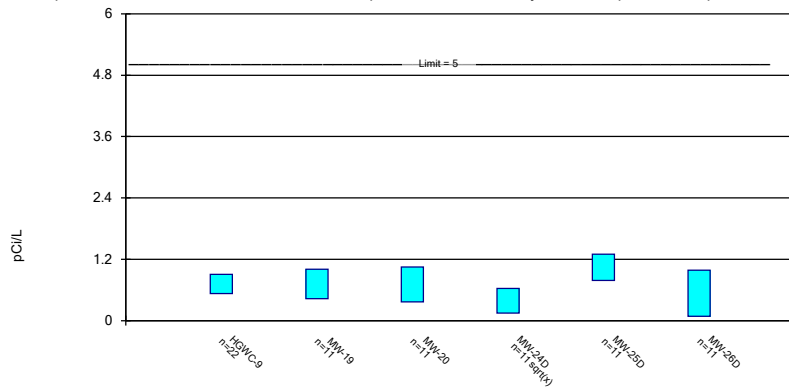
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric Confidence Interval

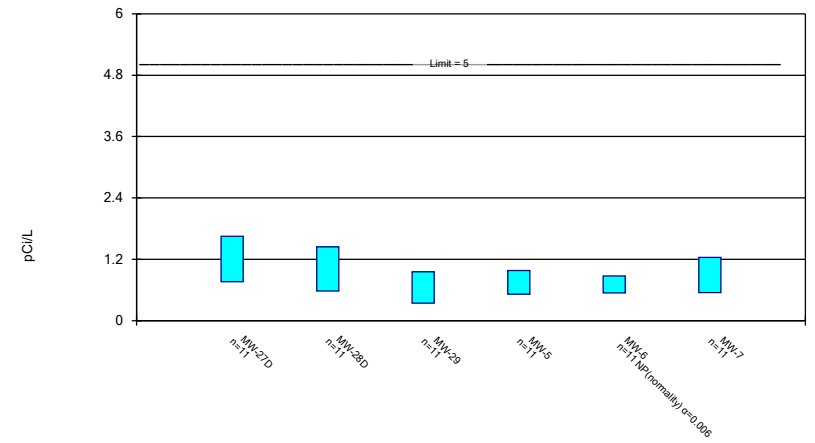
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

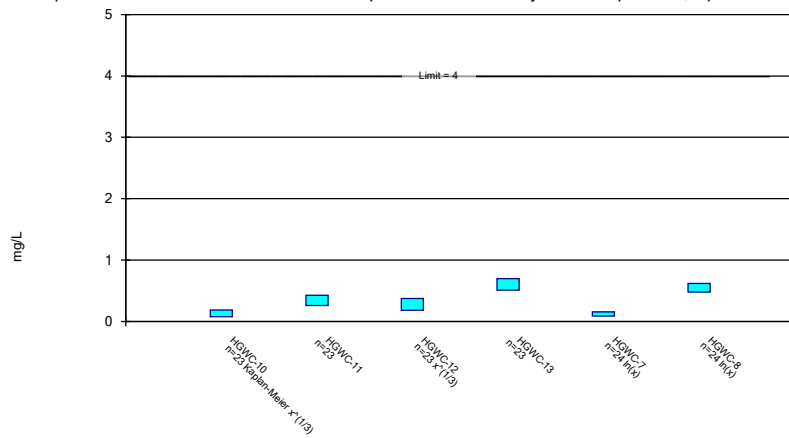
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric Confidence Interval

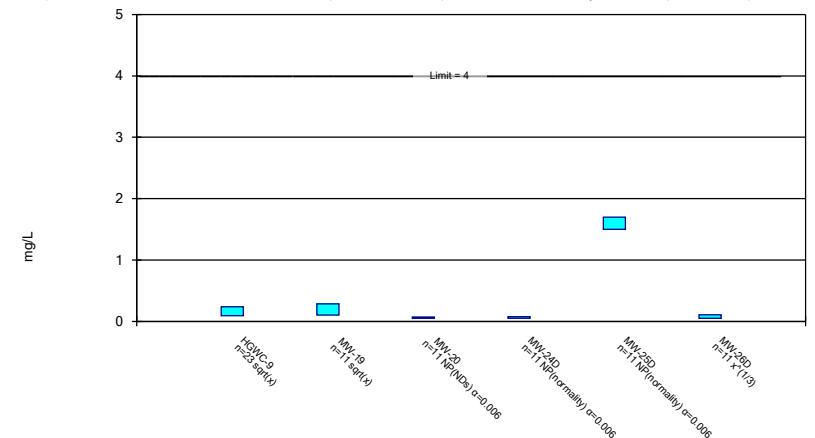
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

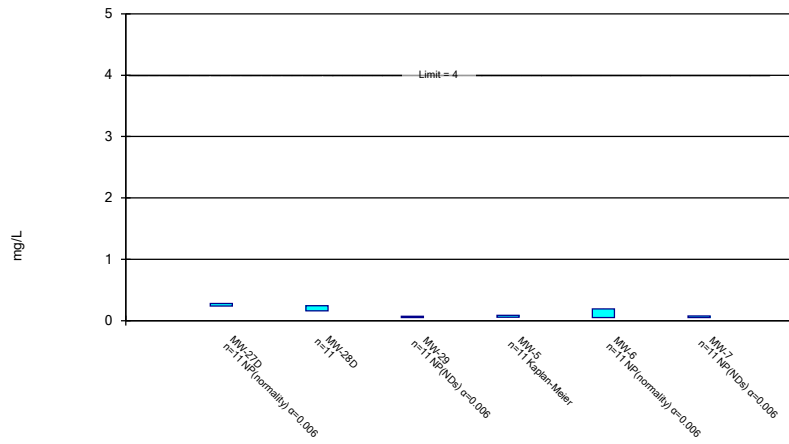
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

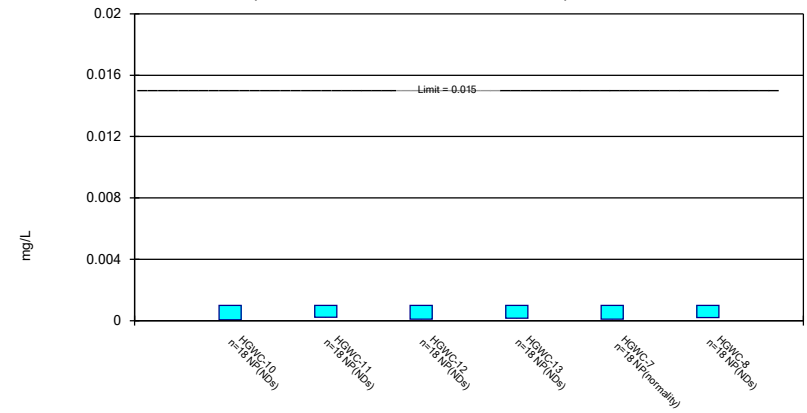
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

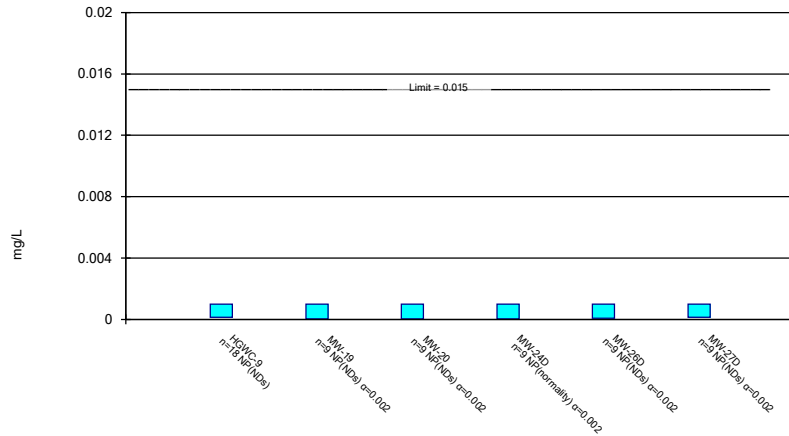
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

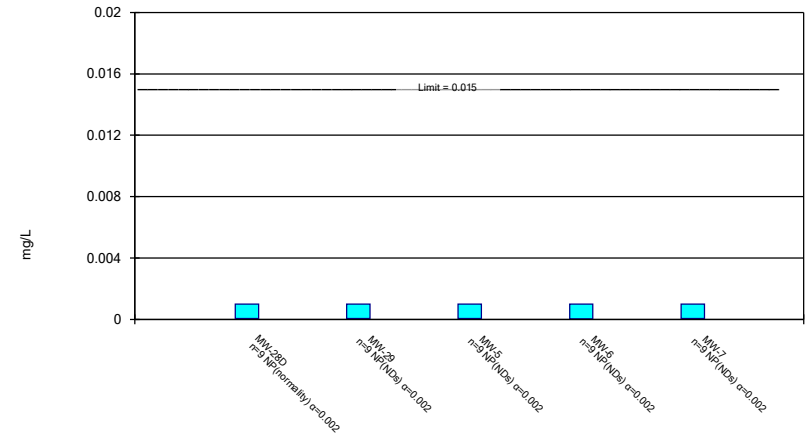
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

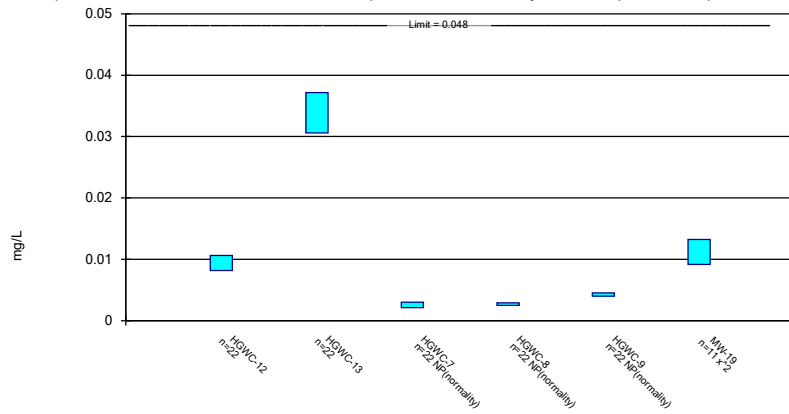
Compliance Limit is not exceeded.



Constituent: Lead Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

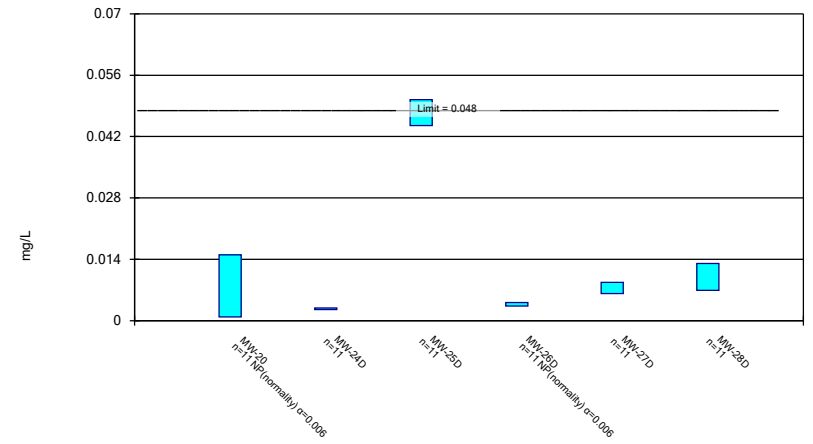
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

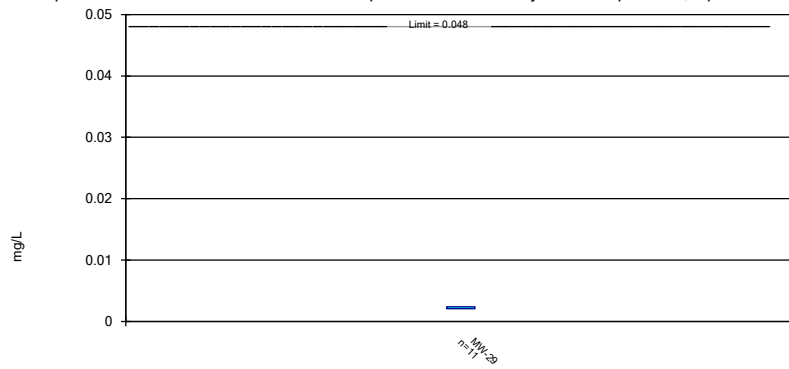
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric Confidence Interval

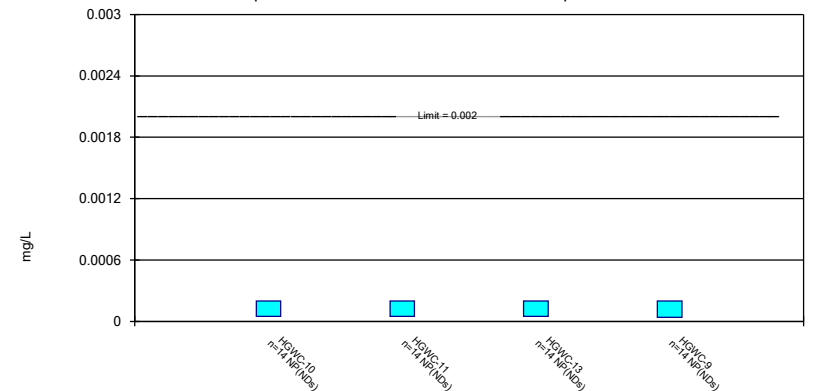
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

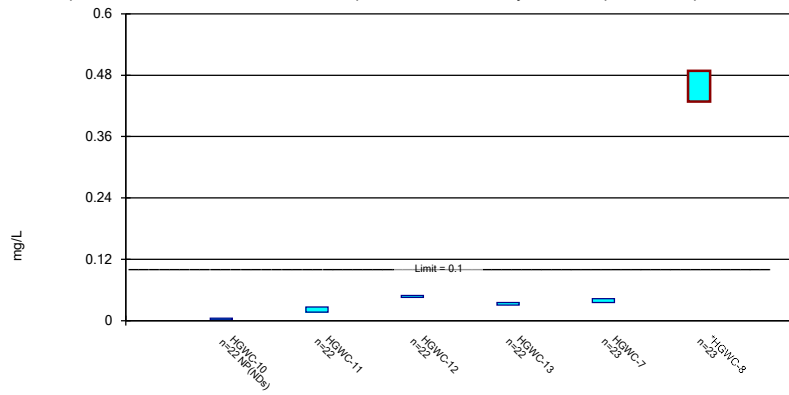


Constituent: Mercury Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1



### Parametric and Non-Parametric (NP) Confidence Interval

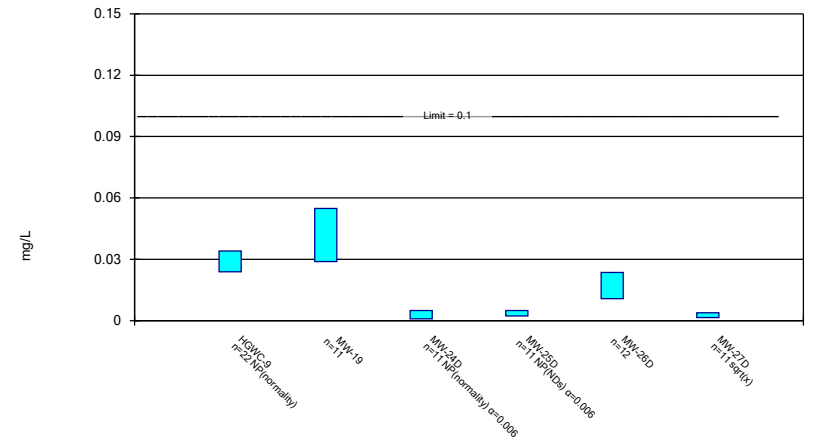
Compliance limit is exceeded.\* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

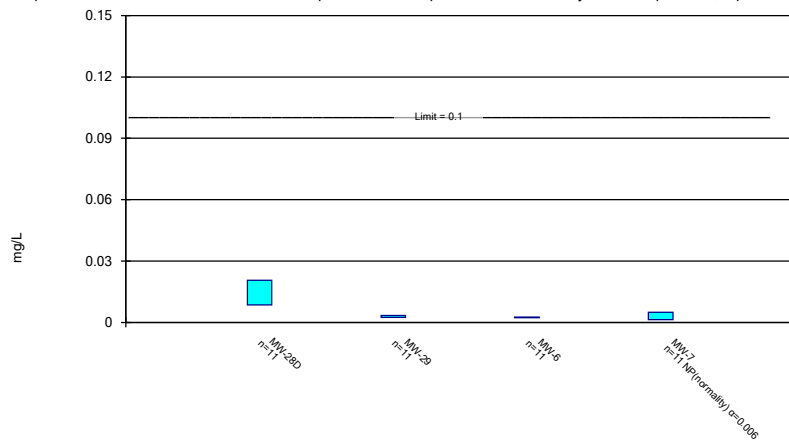
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/8/2022 4:23 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

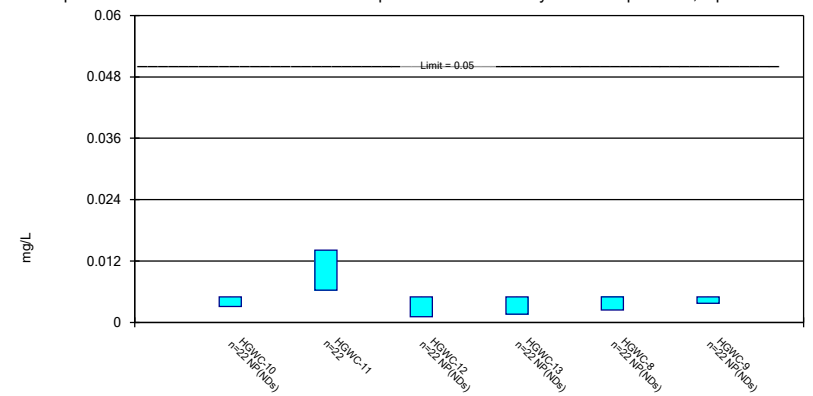
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/8/2022 4:24 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

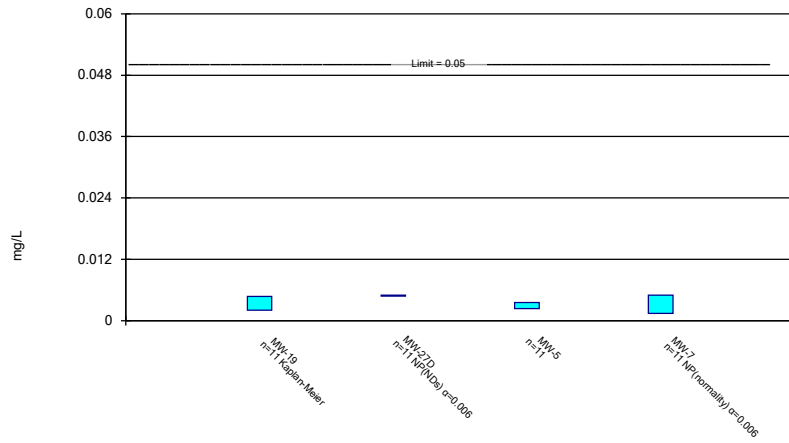
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2022 4:24 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

### Parametric and Non-Parametric (NP) Confidence Interval

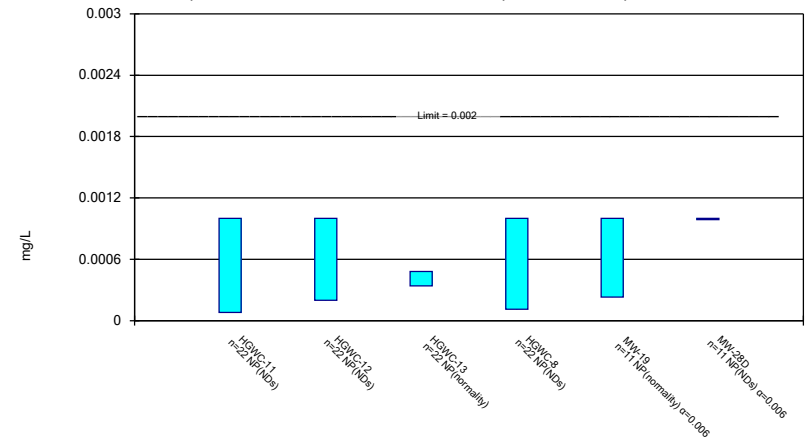
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 11/8/2022 4:24 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

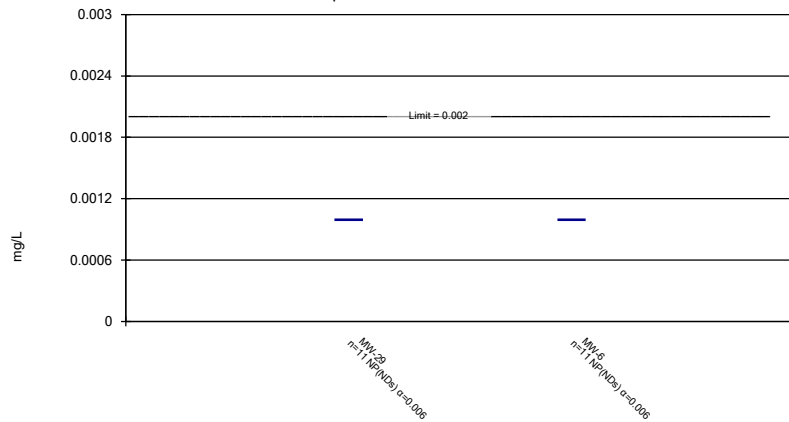
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Thallium Analysis Run 11/8/2022 4:24 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 11/8/2022 4:24 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.003	<0.003	
5/23/2016	<0.003	<0.003	<0.003			<0.003
7/12/2016	<0.003	<0.003	0.0003 (J)	<0.003	<0.003	<0.003
9/1/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/20/2016				<0.003	<0.003	<0.003
10/24/2016	<0.003	<0.003	<0.003			
12/6/2016				<0.003	<0.003	<0.003
12/7/2016	<0.003	<0.003	<0.003			
1/25/2017				<0.003	<0.003	
1/26/2017	<0.003	<0.003	<0.003			<0.003
3/21/2017				<0.003	<0.003	
3/22/2017	<0.003	<0.003	<0.003			<0.003
5/23/2017				<0.003	<0.003	<0.003
5/24/2017	<0.003	<0.003	<0.003			
4/3/2018				<0.003	<0.003	<0.003
4/4/2018	<0.003	<0.003	<0.003			
3/12/2019					<0.003	
3/13/2019	<0.003	<0.003	<0.003	<0.003		<0.003
4/2/2019				<0.003		
4/3/2019	<0.003	<0.003			<0.003	<0.003
4/5/2019			0.00021 (J)			
9/24/2019					<0.003	
9/25/2019				<0.003		
9/26/2019			<0.003			
9/27/2019	<0.003	<0.003				<0.003
3/3/2020	<0.003	<0.003			<0.003	
3/4/2020			0.00061 (J)	<0.003		0.00032 (J)
3/27/2020				<0.003	<0.003	
3/30/2020			0.00036 (J)			
3/31/2020		<0.003				0.00042 (J)
4/1/2020	<0.003					
9/16/2020	<0.003			0.00034 (J)	<0.003	
9/17/2020						<0.003
9/18/2020		0.00038 (J)				
9/21/2020			0.00029 (J)			
2/10/2021				<0.003		
2/12/2021		<0.003				
2/15/2021	0.00065 (J)					
2/16/2021					0.00064 (J)	0.00043 (J)
2/22/2021			0.00047 (J)			
3/12/2021	<0.003					
3/15/2021				<0.003	<0.003	
3/16/2021		<0.003				<0.003
3/17/2021			0.00049 (J)			
8/16/2021				0.0017 (J)		
8/17/2021	<0.003					<0.003
8/18/2021		<0.003			<0.003	
8/19/2021			<0.003			
2/9/2022	<0.003	<0.003				<0.003
2/10/2022			<0.003	<0.003	<0.003	
8/3/2022	0.0018 (J)	<0.003	<0.003		<0.003	
8/4/2022						<0.003

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/11/2022				<0.003		
Mean	0.002823	0.002869	0.002087	0.002802	0.002882	0.002609
Std. Dev.	0.0005773	0.0005858	0.00128	0.0006481	0.0005277	0.0009564
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0018	0.00038	0.00047	0.0017	0.00064	0.00043

# Confidence Interval

Constituent: Antimony (mg/L)    Analysis Run 11/8/2022 4:25 PM    View: Confidence Interval  
 Plant Hammond    Client: Southern Company    Data: Hammond AP-1

	MW-24D	MW-26D	MW-27D	MW-28D	MW-29	MW-6
3/12/2019				<0.003	<0.003	
3/13/2019	<0.003	<0.003	<0.003			<0.003
4/2/2019				<0.003	<0.003	
4/3/2019		<0.003				<0.003
4/4/2019			0.00016 (J)			
4/8/2019	<0.003					
9/24/2019					<0.003	
9/26/2019	<0.003	<0.003	0.0003 (J)	<0.003		<0.003
3/2/2020					<0.003	
3/3/2020						<0.003
3/4/2020	0.0017 (J)	0.002 (J)	0.00037 (J)	<0.003		
3/27/2020				<0.003		<0.003
3/30/2020	<0.003				<0.003	
3/31/2020		0.0013 (J)				
4/2/2020			0.0003 (J)			
9/16/2020					<0.003	
9/17/2020		<0.003				
9/18/2020			0.00031 (J)			
9/21/2020	<0.003			<0.003		0.0014 (J)
2/10/2021				0.0019 (J)		
2/15/2021					0.00094 (J)	
2/16/2021	<0.003	<0.003	0.00038 (J)			<0.003
3/12/2021			<0.003			
3/15/2021				<0.003	<0.003	
3/16/2021						<0.003
3/17/2021	<0.003	<0.003				
8/16/2021					<0.003	
8/17/2021		<0.003	<0.003			<0.003
8/18/2021				<0.003		
8/19/2021	<0.003					
2/9/2022		<0.003				<0.003
2/10/2022	<0.003		<0.003	<0.003	<0.003	
8/3/2022	<0.003		<0.003		<0.003	<0.003
8/4/2022		<0.003		<0.003		
Mean	0.002882	0.002755	0.001529	0.0029	0.002813	0.002855
Std. Dev.	0.000392	0.0005681	0.001409	0.0003317	0.0006211	0.0004824
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.003	0.002	0.0003	0.003	0.003	0.003

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-7
3/13/2019	0.00086 (J)
4/3/2019	<0.003
9/26/2019	<0.003
3/3/2020	0.0013 (J)
3/30/2020	<0.003
9/21/2020	0.00051 (J)
2/15/2021	0.0021 (J)
3/15/2021	<0.003
8/17/2021	<0.003
2/8/2022	<0.003
8/4/2022	<0.003
Mean	0.002343
Std. Dev.	0.0009863
Upper Lim.	0.003
Lower Lim.	0.00086

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	<0.005	
5/23/2016	<0.005	0.0046 (J)	0.329			<0.005
7/12/2016	0.0015 (J)	0.005	0.297	<0.005	<0.005	<0.005
9/1/2016	<0.005	0.0043 (J)	0.314	<0.005	<0.005	<0.005
10/20/2016				<0.005	<0.005	<0.005
10/24/2016	<0.005	0.0049 (J)	0.334			
12/6/2016				<0.005	<0.005	<0.005
12/7/2016	<0.005	0.0046 (J)	0.35			
1/25/2017				<0.005	<0.005	
1/26/2017	<0.005	<0.005	0.424			<0.005
3/21/2017				<0.005	<0.005	
3/22/2017	0.0053	0.0019 (J)	0.419			0.0008 (J)
5/23/2017				<0.005	<0.005	<0.005
5/24/2017	<0.005	0.0022 (J)	0.393			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	0.49			
6/5/2018	0.0012 (J)		0.38	<0.005		
6/6/2018		0.0048 (J)			<0.005	<0.005
10/2/2018				0.0019 (J)	<0.005	<0.005
10/3/2018	<0.005	0.0037 (J)				
10/5/2018			0.34			
3/12/2019					<0.005	
3/13/2019	0.0024 (J)		0.42	<0.005		0.00075 (J)
3/14/2019		0.0026 (J)				
4/2/2019				<0.005		
4/3/2019	0.00094 (J)	0.0022 (J)			<0.005	<0.005
4/5/2019			0.36			
9/24/2019					<0.005	
9/25/2019				<0.005		
9/26/2019			0.44			
9/27/2019	0.0018 (J)	0.0061				0.00037 (J)
3/3/2020	0.0022 (J)	0.0023 (J)			<0.005	
3/4/2020			0.52	<0.005		<0.005
3/26/2020		0.0028 (J)				
3/27/2020				<0.005	<0.005	
3/30/2020			0.47			
3/31/2020	0.0022 (J)					<0.005
9/16/2020				<0.005	<0.005	
9/17/2020						<0.005
9/18/2020	0.00081 (J)	0.0031 (J)				
9/21/2020			0.39			
2/10/2021				<0.005		
2/12/2021	0.002 (J)	0.0045 (J)				
2/16/2021					<0.005	<0.005
2/22/2021			0.45			
3/15/2021				<0.005	<0.005	
3/16/2021	0.0017 (J)	0.0038 (J)				<0.005
3/17/2021			0.39			
8/16/2021				<0.005		
8/17/2021						<0.005
8/18/2021	<0.005	0.0028 (J)			<0.005	
8/19/2021			0.31			

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.0047 (J)	0.0053				0.0021 (J)
2/10/2022			0.38	<0.005	0.002 (J)	
8/3/2022	<0.005	0.0023 (J)	0.4		<0.005	
8/4/2022						<0.005
8/11/2022				<0.005		
Mean	0.003489	0.003809	0.3909	0.004859	0.004864	0.004274
Std. Dev.	0.001735	0.001258	0.05987	0.0006609	0.0006396	0.001603
Upper Lim.	0.005	0.004485	0.423	0.005	0.005	0.005
Lower Lim.	0.0018	0.003134	0.3588	0.0019	0.002	0.0021



# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-25D	MW-26D	MW-27D	MW-28D
3/12/2019						<0.005
3/13/2019		0.0023 (J)		<0.005	<0.005	
3/14/2019	<0.005		0.0019 (J)			
4/2/2019		<0.005				<0.005
4/3/2019	<0.005		<0.005	<0.005		
4/4/2019					0.0002 (J)	
9/25/2019		<0.005				
9/26/2019				<0.005	<0.005	<0.005
9/27/2019	<0.005		0.0011 (J)			
3/2/2020		0.00038 (J)				
3/3/2020			0.001 (J)			
3/4/2020	0.00045 (J)			0.0006 (J)	0.00069 (J)	<0.005
3/26/2020	<0.005		0.00075 (J)			
3/27/2020		<0.005				<0.005
3/31/2020				<0.005		
4/2/2020					<0.005	
9/17/2020		<0.005		<0.005		
9/18/2020			<0.005		<0.005	
9/21/2020	<0.005					<0.005
2/10/2021						0.0011 (J)
2/11/2021		0.00094 (J)				
2/12/2021	<0.005		<0.005			
2/16/2021				0.0008 (J)	0.001 (J)	
3/12/2021					<0.005	
3/15/2021		<0.005				<0.005
3/16/2021			<0.005			
3/17/2021	<0.005			<0.005		
8/17/2021		<0.005		<0.005	<0.005	
8/18/2021	<0.005					<0.005
8/19/2021			<0.005			
2/9/2022	<0.005		<0.005	0.0017 (J)		
2/10/2022		<0.005			<0.005	<0.005
8/3/2022					<0.005	
8/4/2022	<0.005	<0.005	<0.005	<0.005		<0.005
Mean	0.004586	0.003965	0.003614	0.003918	0.003808	0.004645
Std. Dev.	0.001372	0.001826	0.001943	0.001871	0.002049	0.001176
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.005	0.00094	0.001	0.0008	0.00069	0.005

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-29	MW-5	MW-6
3/12/2019	<0.005		
3/13/2019		<0.005	<0.005
4/2/2019	<0.005		
4/3/2019		<0.005	<0.005
9/24/2019	<0.005		
9/25/2019		<0.005	
9/26/2019			<0.005
3/2/2020	<0.005	<0.005	
3/3/2020			<0.005
3/26/2020		<0.005	
3/27/2020			<0.005
3/30/2020	0.00037 (J)		
9/16/2020	<0.005		
9/17/2020		<0.005	
9/21/2020			<0.005
2/15/2021	<0.005		
2/16/2021		<0.005	<0.005
3/15/2021	<0.005		
3/16/2021		<0.005	<0.005
8/16/2021	<0.005		
8/17/2021		<0.005	<0.005
2/9/2022		0.0013 (J)	0.0034 (J)
2/10/2022	<0.005		
8/3/2022	<0.005	<0.005	<0.005
Mean	0.004579	0.004664	0.004855
Std. Dev.	0.001396	0.001116	0.0004824
Upper Lim.	0.005	0.005	0.005
Lower Lim.	0.005	0.005	0.005

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					0.0687	0.0808
5/23/2016	0.0877	0.0466	0.133	0.0779		
7/12/2016	0.0926	0.0616	0.135	0.0697	0.0731	0.083
9/1/2016	0.0994	0.0497	0.123	0.07	0.0747	0.0829
10/20/2016					0.072	0.0811
10/24/2016	0.101	0.0794	0.135	0.0882		
12/6/2016					0.0752	0.0845
12/7/2016	0.107	0.1	0.13	0.0798		
1/25/2017					0.0747	0.078
1/26/2017	0.0538	0.0696	0.127	0.0738		
3/21/2017					0.0722	0.0791
3/22/2017	0.0962	0.0346	0.112	0.0755		
5/23/2017					0.0794	0.0846
5/24/2017	0.0996	0.0437	0.106	0.0627		
4/3/2018					0.075	0.065
4/4/2018	0.084	0.029	0.083	0.099		
6/5/2018	0.086	0.039		0.13	0.071	
6/6/2018			0.09			0.063
10/2/2018	0.076				0.078	0.061
10/3/2018		0.033	0.087			
10/5/2018				0.076		
3/12/2019						0.062
3/13/2019	0.044	0.024		0.1	0.083	
3/14/2019			0.081			
4/2/2019					0.072	
4/3/2019	0.076	0.023	0.077			0.066
4/5/2019				0.079		
9/24/2019						0.053
9/25/2019					0.061	
9/26/2019				0.11		
9/27/2019	0.078	0.033	0.096			
3/3/2020	0.048	0.022	0.092			0.052
3/4/2020				0.1	0.068	
3/26/2020			0.089			
3/27/2020					0.059	0.059
3/30/2020				0.08		
3/31/2020		0.026				
4/1/2020	0.058					
9/16/2020	0.068				0.068	0.06
9/18/2020		0.043	0.086			
9/21/2020				0.052		
2/10/2021					0.069	
2/12/2021		0.039	0.09			
2/15/2021	0.06					
2/16/2021						0.069
2/22/2021				0.061		
3/12/2021	0.058					
3/15/2021					0.074	0.063
3/16/2021		0.035	0.084			
3/17/2021				0.056		
8/16/2021					0.068	
8/17/2021	0.055					

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/18/2021		0.04	0.083			0.062
8/19/2021				0.049		
2/9/2022	0.042	0.042	0.075			
2/10/2022				0.053	0.063	0.056
8/3/2022	0.069	0.041	0.086	0.07		0.06
8/11/2022					0.071	
Mean	0.07451	0.04337	0.1	0.07785	0.07136	0.06841
Std. Dev.	0.02017	0.01921	0.02092	0.02026	0.005702	0.01106
Upper Lim.	0.08534	0.05145	0.123	0.08872	0.07442	0.07435
Lower Lim.	0.06369	0.0329	0.084	0.06697	0.0683	0.06247

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 11/8/2022 4:25 PM    View: Confidence Interval  
 Plant Hammond    Client: Southern Company    Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	0.117					
7/12/2016	0.13					
9/1/2016	0.13					
10/20/2016	0.0806					
12/6/2016	0.128					
1/26/2017	0.142					
3/22/2017	0.122					
5/23/2017	0.127					
4/3/2018	0.1					
6/6/2018	0.11					
10/2/2018	0.11					
3/13/2019	0.1		0.087	0.053		0.099
3/14/2019		0.06			0.44	
4/2/2019			0.08			
4/3/2019	0.12	0.05			0.38	0.12
4/8/2019				0.043		
9/25/2019			0.085			
9/26/2019				0.12		0.12
9/27/2019	0.11	0.068			0.39	
3/2/2020			0.099			
3/3/2020					0.42	
3/4/2020	0.11	0.069		0.081		0.17
3/26/2020		0.067			0.45	
3/27/2020			0.093			
3/30/2020				0.056		
3/31/2020	0.11					0.11
9/17/2020	0.11		0.096			0.099
9/18/2020					0.44	
9/21/2020		0.056		0.053		
2/11/2021			0.093			
2/12/2021		0.051			0.46	
2/16/2021	0.11			0.062		0.093
3/15/2021			0.096			
3/16/2021	0.11				0.51	
3/17/2021		0.049		0.055		0.094
8/17/2021	0.095		0.089			0.072
8/18/2021		0.045				
8/19/2021				0.048	0.58	
2/9/2022	0.096	0.042			0.6	0.066
2/10/2022			0.082	0.048		
8/3/2022				0.053		
8/4/2022	0.091	0.05	0.093		0.75	0.062
Mean	0.1118	0.05518	0.09027	0.06109	0.4927	0.1005
Std. Dev.	0.01465	0.009516	0.00615	0.0219	0.1107	0.03044
Upper Lim.	0.1196	0.06311	0.0954	0.081	0.585	0.1258
Lower Lim.	0.1039	0.04725	0.08515	0.048	0.4005	0.07508

# Confidence Interval

Constituent: Barium (mg/L)    Analysis Run 11/8/2022 4:25 PM    View: Confidence Interval  
 Plant Hammond    Client: Southern Company    Data: Hammond AP-1

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		0.82	0.089			
3/13/2019	1.5			0.056	0.1	0.063
4/2/2019		0.37	0.078			
4/3/2019				0.049	0.09	0.058
4/4/2019	1.2					
9/24/2019			0.081			
9/25/2019				0.046		
9/26/2019	0.95	0.15			0.089	0.066
3/2/2020			0.088	0.049		
3/3/2020					0.09	0.043
3/4/2020	0.95	0.77				
3/26/2020				0.046		
3/27/2020		0.64			0.086	
3/30/2020			0.08			0.05
4/2/2020	1					
9/16/2020			0.076			
9/17/2020				0.043		
9/18/2020	1					
9/21/2020		0.18			0.083	0.065
2/10/2021		0.26				
2/15/2021			0.081			0.048
2/16/2021	1			0.05	0.085	
3/12/2021	1.1					
3/15/2021		0.45	0.078			0.053
3/16/2021				0.046	0.081	
8/16/2021			0.074			
8/17/2021	1.1			0.045	0.081	0.057
8/18/2021		0.53				
2/8/2022						0.053
2/9/2022				0.042	0.074	
2/10/2022	0.99	0.76	0.072			
8/3/2022	0.94		0.081	0.058	0.084	
8/4/2022		0.7				0.064
Mean	1.066	0.5118	0.07982	0.04818	0.08573	0.05636
Std. Dev.	0.1644	0.2457	0.005212	0.005016	0.006665	0.007646
Upper Lim.	1.2	0.7166	0.08416	0.05236	0.09128	0.06273
Lower Lim.	0.95	0.3071	0.07548	0.044	0.08017	0.04999

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-13	HGWC-7	HGWC-8	MW-19	MW-28D
5/20/2016			<0.0005	<0.0005		
5/23/2016	<0.0005	<0.0005				
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005		
9/1/2016	<0.0005	<0.0005	<0.0005	<0.0005		
10/20/2016			<0.0005	<0.0005		
10/24/2016	<0.0005	<0.0005				
12/6/2016			<0.0005	<0.0005		
12/7/2016	<0.0005	<0.0005				
1/25/2017			<0.0005	<0.0005		
1/26/2017	<0.0005	<0.0005				
3/21/2017			<0.0005	<0.0005		
3/22/2017	9E-05 (J)	<0.0005				
5/23/2017			<0.0005	<0.0005		
5/24/2017	<0.0005	<0.0005				
4/3/2018			<0.0005	<0.0005		
4/4/2018	<0.0005	<0.0005				
3/12/2019				<0.0005		<0.0005
3/13/2019	0.0001 (J)	6.2E-05 (J)	<0.0005			
3/14/2019				<0.0005		
4/2/2019			<0.0005			<0.0005
4/3/2019	0.00017 (J)			7.4E-05 (J)	<0.0005	
4/5/2019		<0.0005				
9/24/2019				<0.0005		
9/25/2019			<0.0005			
9/26/2019		0.00011 (J)				<0.0005
9/27/2019	8.6E-05 (J)				<0.0005	
3/3/2020	0.00012 (J)			<0.0005		
3/4/2020		9.3E-05 (J)	7.7E-05 (J)		<0.0005	0.00014 (J)
3/26/2020					<0.0005	
3/27/2020			<0.0005	<0.0005		<0.0005
3/30/2020		9.9E-05 (J)				
3/31/2020	0.00015 (J)					
9/16/2020			<0.0005	0.0001 (J)		
9/18/2020	<0.0005					
9/21/2020		0.00011 (J)		<0.0005		<0.0005
2/10/2021			8.1E-05 (J)			5.4E-05 (J)
2/12/2021	<0.0005				<0.0005	
2/16/2021				7.1E-05 (J)		
2/22/2021		9.7E-05 (J)				
3/15/2021			0.00019 (J)	7.8E-05 (J)		4.8E-05 (J)
3/16/2021	8.1E-05 (J)					
3/17/2021		9E-05 (J)			<0.0005	
8/16/2021			<0.0005			
8/18/2021	<0.0005			8.7E-05 (J)	5.8E-05 (J)	<0.0005
8/19/2021		7.3E-05 (J)				
2/9/2022	<0.0005				<0.0005	
2/10/2022		<0.0005	<0.0005	7.1E-05 (J)		<0.0005
8/3/2022	<0.0005	<0.0005		5.6E-05 (J)		
8/4/2022					<0.0005	<0.0005
8/11/2022			<0.0005			
Mean	0.0003649	0.0003367	0.0004424	0.0003519	0.0004598	0.0003856
Std. Dev.	0.00019	0.0002055	0.0001422	0.0002073	0.0001333	0.0001972

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-13	HGWC-7	HGWC-8	MW-19	MW-28D
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.00012	9.7E-05	0.00019	7.8E-05	0.0005	5.4E-05



# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-7
3/13/2019	<0.0005
4/3/2019	5.1E-05 (J)
9/26/2019	<0.0005
3/3/2020	<0.0005
3/30/2020	<0.0005
9/21/2020	<0.0005
2/15/2021	<0.0005
3/15/2021	<0.0005
8/17/2021	<0.0005
2/8/2022	<0.0005
8/4/2022	<0.0005
Mean	0.0004592
Std. Dev.	0.0001354
Upper Lim.	0.0005
Lower Lim.	0.0005

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0005	0.00024 (J)	
5/23/2016	0.000115 (J)	<0.0005	<0.0005			<0.0005
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005	0.0002 (J)	<0.0005
9/1/2016	0.0001 (J)	<0.0005	<0.0005	<0.0005	0.0001 (J)	<0.0005
10/20/2016				<0.0005	0.0001 (J)	0.0002 (J)
10/24/2016	0.0001 (J)	<0.0005	<0.0005			
12/6/2016				0.0002 (J)	0.0017	0.0001 (J)
12/7/2016	0.0001 (J)	0.0001 (J)	0.0002 (J)			
1/25/2017				0.0002 (J)	0.0002 (J)	
1/26/2017	<0.0005	<0.0005	<0.0005			<0.0005
3/21/2017				0.0002 (J)	0.0002 (J)	
3/22/2017	0.0001 (J)	0.0001 (J)	0.0003 (J)			7E-05 (J)
5/23/2017				0.0001 (J)	0.0003 (J)	<0.0005
5/24/2017	0.0002 (J)	<0.0005	9E-05 (J)			
4/3/2018				<0.0005	<0.0005	<0.0005
4/4/2018	<0.0005	<0.0005	<0.0005			
3/12/2019					0.0002 (J)	
3/13/2019	<0.0005	<0.0005		<0.0005		<0.0005
3/14/2019			<0.0005			
4/2/2019				<0.0005		
4/3/2019	0.0001 (J)	9.6E-05 (J)	<0.0005		0.00032 (J)	<0.0005
9/24/2019					0.0002 (J)	
9/25/2019				<0.0005		
9/27/2019	<0.0005	<0.0005	<0.0005			<0.0005
3/3/2020	<0.0005	<0.0005	0.00015 (J)		0.00017 (J)	
3/4/2020				<0.0005		<0.0005
3/26/2020			<0.0005			
3/27/2020				<0.0005	0.00014 (J)	
3/31/2020		<0.0005				<0.0005
4/1/2020	<0.0005					
9/16/2020	<0.0005			<0.0005	0.00023 (J)	
9/17/2020						<0.0005
9/18/2020		<0.0005	<0.0005			
2/10/2021				<0.0005		
2/12/2021		<0.0005	<0.0005			
2/15/2021	<0.0005					
2/16/2021					0.00037 (J)	<0.0005
3/12/2021	<0.0005					
3/15/2021				<0.0005	0.00017 (J)	
3/16/2021		<0.0005	<0.0005			<0.0005
8/16/2021				<0.0005		
8/17/2021	<0.0005					<0.0005
8/18/2021		<0.0005	<0.0005		0.0002 (J)	
2/9/2022	<0.0005	<0.0005	<0.0005			<0.0005
2/10/2022				<0.0005	0.00029 (J)	
8/3/2022	<0.0005	<0.0005	<0.0005		0.00017 (J)	
8/4/2022						<0.0005
8/11/2022				<0.0005		
Mean	0.0003658	0.0004398	0.000437	0.000435	0.0003	0.0004435
Std. Dev.	0.0001889	0.000147	0.000134	0.0001348	0.0003426	0.0001397
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0003	0.0005
Lower Lim.	0.000115	0.0001	0.0003	0.0002	0.00017	0.0002

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-19
3/14/2019	<0.0005
4/3/2019	<0.0005
9/27/2019	0.00013 (J)
3/4/2020	0.00026 (J)
3/26/2020	0.00019 (J)
9/21/2020	0.00018 (J)
2/12/2021	0.0002 (J)
3/17/2021	0.00016 (J)
8/18/2021	0.00027 (J)
2/9/2022	0.0011
8/4/2022	0.00022 (J)
Mean	0.0003373
Std. Dev.	0.0002826
Upper Lim.	0.0003602
Lower Lim.	0.0001462

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					<0.005	<0.005
5/23/2016	<0.005	<0.005	<0.005	<0.005		
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016					<0.005	<0.005
10/24/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016					<0.005	<0.005
12/7/2016	<0.005	<0.005	<0.005	<0.005		
1/25/2017					<0.005	<0.005
1/26/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017					<0.005	0.0005 (J)
3/22/2017	<0.005	0.0003 (J)	0.0004 (J)	0.0004 (J)		
5/23/2017					<0.005	<0.005
5/24/2017	<0.005	<0.005	<0.005	<0.005		
4/3/2018					<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005	<0.005		
3/12/2019						<0.005
3/13/2019	<0.005	<0.005		<0.005	<0.005	
3/14/2019			0.0025 (J)			
4/2/2019					<0.005	
4/3/2019	0.02	<0.005	<0.005			<0.005
4/5/2019				<0.005		
9/24/2019						<0.005
9/25/2019					0.071	
9/26/2019				<0.005		
9/27/2019	<0.005	<0.005	<0.005			
3/3/2020	<0.005	0.00061 (J)	<0.005			0.0007 (J)
3/4/2020				<0.005	0.0016 (J)	
3/26/2020			<0.005			
3/27/2020					0.0004 (J)	<0.005
3/30/2020				0.00059 (J)		
3/31/2020		<0.005				
4/1/2020	<0.005					
9/16/2020	<0.005				0.00074 (J)	0.0015 (J)
9/18/2020		<0.005	0.00091 (J)			
9/21/2020				0.00056 (J)		
2/10/2021					0.0014 (J)	
2/12/2021		<0.005	<0.005			
2/15/2021	<0.005					
2/16/2021						<0.005
2/22/2021				<0.005		
3/12/2021	<0.005					
3/15/2021					0.0021 (J)	0.00082 (J)
3/16/2021		<0.005	<0.005			
3/17/2021				<0.005		
8/16/2021					<0.005	
8/17/2021	<0.005					
8/18/2021		<0.005	<0.005			<0.005
8/19/2021				<0.005		
2/9/2022	0.0011 (J)	<0.005	<0.005			
2/10/2022				<0.005	<0.005	<0.005
8/3/2022	<0.005	<0.005	<0.005	<0.005		<0.005

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/11/2022					<0.005	
Mean	0.005555	0.004545	0.00444	0.004327	0.007362	0.004176
Std. Dev.	0.00351	0.0014	0.001412	0.001643	0.01507	0.0017
Upper Lim.	0.02	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0011	0.00061	0.0025	0.00059	0.0021	0.0015

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	<0.005					
7/12/2016	<0.005					
9/1/2016	<0.005					
10/20/2016	<0.005					
12/6/2016	<0.005					
1/26/2017	<0.005					
3/22/2017	<0.005					
5/23/2017	<0.005					
4/3/2018	<0.005					
3/13/2019	<0.005		<0.005	<0.005		<0.005
3/14/2019		<0.005			<0.005	
4/2/2019			<0.005			
4/3/2019	<0.005	<0.005			<0.005	<0.005
4/8/2019				<0.005		
9/25/2019			<0.005			
9/26/2019				0.00042 (J)		0.00076 (J)
9/27/2019	<0.005	<0.005			<0.005	
3/2/2020			0.00071 (J)			
3/3/2020					<0.005	
3/4/2020	<0.005	0.00066 (J)		<0.005		0.0028 (J)
3/26/2020		0.00047 (J)			0.00061 (J)	
3/27/2020			0.00051 (J)			
3/30/2020				<0.005		
3/31/2020	0.00052 (J)					0.001 (J)
9/17/2020	<0.005		<0.005			<0.005
9/18/2020					<0.005	
9/21/2020		0.0014 (J)		<0.005		
2/11/2021			<0.005			
2/12/2021		0.00059 (J)			<0.005	
2/16/2021	0.00067 (J)			<0.005		0.001 (J)
3/15/2021			0.00068 (J)			
3/16/2021	<0.005				<0.005	
3/17/2021		0.0022 (J)		0.0017 (J)		0.0015 (J)
8/17/2021	<0.005		<0.005			<0.005
8/18/2021		<0.005				
8/19/2021				<0.005	<0.005	
2/9/2022	0.0011 (J)	<0.005			<0.005	<0.005
2/10/2022			<0.005	<0.005		
8/3/2022				<0.005		
8/4/2022	<0.005	<0.005	<0.005		<0.005	<0.005
Mean	0.004364	0.003211	0.003809	0.004284	0.004601	0.003369
Std. Dev.	0.001555	0.002107	0.00204	0.001619	0.001324	0.001944
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0011	0.00059	0.00068	0.0017	0.005	0.001

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		<0.005	<0.005			
3/13/2019	<0.005			0.003 (J)	<0.005	<0.005
4/2/2019		<0.005	<0.005			
4/3/2019				0.003 (J)	<0.005	0.0023 (J)
4/4/2019	<0.005					
9/24/2019			<0.005			
9/25/2019				0.0052 (J)		
9/26/2019	<0.005	0.00081 (J)			<0.005	0.0013 (J)
3/2/2020			<0.005	0.0042 (J)		
3/3/2020					0.00044 (J)	0.0015 (J)
3/4/2020	<0.005	0.0027 (J)				
3/26/2020				0.0044 (J)		
3/27/2020		<0.005			0.00059 (J)	
3/30/2020			0.001 (J)			0.0021 (J)
4/2/2020	<0.005					
9/16/2020			<0.005			
9/17/2020				0.0021 (J)		
9/18/2020	0.0007 (J)					
9/21/2020		0.00085 (J)			<0.005	0.0017 (J)
2/10/2021		0.0014 (J)				
2/15/2021			<0.005			0.0015 (J)
2/16/2021	0.00082 (J)			0.0032 (J)	<0.005	
3/12/2021	<0.005					
3/15/2021		0.00078 (J)	<0.005			0.0018 (J)
3/16/2021				0.0024 (J)	<0.005	
8/16/2021			<0.005			
8/17/2021	<0.005			0.0018 (J)	<0.005	<0.005
8/18/2021		<0.005				
2/8/2022						0.0016 (J)
2/9/2022				0.0031 (J)	<0.005	
2/10/2022	<0.005	0.0011 (J)	<0.005			
8/3/2022	<0.005		<0.005	0.0015 (J)	<0.005	
8/4/2022		<0.005				0.002 (J)
Mean	0.004229	0.002967	0.004636	0.003082	0.004185	0.002345
Std. Dev.	0.001715	0.002015	0.001206	0.001144	0.001815	0.001344
Upper Lim.	0.005	0.005	0.005	0.004035	0.005	0.005
Lower Lim.	0.00082	0.00081	0.005	0.002129	0.00059	0.0015

# Confidence Interval

Constituent: Cobalt (mg/L)    Analysis Run 11/8/2022 4:25 PM    View: Confidence Interval

Plant Hammond    Client: Southern Company    Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					<0.005	0.00207 (J)
5/23/2016	<0.005	<0.005	<0.005	0.00361 (J)		
7/12/2016	0.0006 (J)	0.0021 (J)	0.0018 (J)	0.0032 (J)	0.0003 (J)	0.0019 (J)
9/1/2016	0.0007 (J)	0.0025 (J)	0.0016 (J)	0.0033 (J)	<0.005	0.0023 (J)
10/20/2016					0.0008 (J)	0.002 (J)
10/24/2016	0.0009 (J)	0.0032 (J)	0.0017 (J)	0.004 (J)		
12/6/2016					0.0009 (J)	0.0026 (J)
12/7/2016	0.0012 (J)	0.003 (J)	0.0021 (J)	0.0034 (J)		
1/25/2017					0.0005 (J)	0.002 (J)
1/26/2017	<0.005	0.0014 (J)	0.0016 (J)	0.0024 (J)		
3/21/2017					0.0005 (J)	0.0023 (J)
3/22/2017	0.0006 (J)	0.0014 (J)	0.0018 (J)	0.0026 (J)		
5/23/2017					0.0005 (J)	0.0023 (J)
5/24/2017	0.0006 (J)	0.0008 (J)	0.0015 (J)	0.0022 (J)		
4/3/2018					<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005	<0.005		
3/12/2019						0.002 (J)
3/13/2019	<0.005	0.00098 (J)		0.0022 (J)	0.00067 (J)	
3/14/2019			0.0011 (J)			
4/2/2019					0.00069 (J)	
4/3/2019	<0.005	0.0018 (J)	0.0011 (J)			0.0019 (J)
4/5/2019				0.0017 (J)		
9/24/2019						0.0015 (J)
9/25/2019					0.0026 (J)	
9/26/2019				0.0042 (J)		
9/27/2019	<0.005	0.00071 (J)	0.0012 (J)			
3/3/2020	<0.005	0.00087 (J)	0.0013 (J)			0.002 (J)
3/4/2020				0.0066	0.0011 (J)	
3/26/2020			0.0012 (J)			
3/27/2020					0.00074 (J)	0.0018 (J)
3/30/2020				0.0053		
3/31/2020		0.0014 (J)				
4/1/2020	<0.005					
9/16/2020	<0.005				0.00065 (J)	0.0019 (J)
9/18/2020		<0.005	0.0014 (J)			
9/21/2020				0.0032 (J)		
2/10/2021					0.00081 (J)	
2/12/2021		<0.005	0.0012 (J)			
2/15/2021	<0.005					
2/16/2021						0.002 (J)
2/22/2021				0.003 (J)		
3/12/2021	<0.005					
3/15/2021					0.0014 (J)	0.0019 (J)
3/16/2021		<0.005	0.0012 (J)			
3/17/2021				0.0029 (J)		
8/16/2021					0.0012 (J)	
8/17/2021	<0.005					
8/18/2021		<0.005	0.0012 (J)			0.002 (J)
8/19/2021				0.0024 (J)		
2/9/2022	<0.005	<0.005	0.0013 (J)			
2/10/2022				0.0026 (J)	0.0011 (J)	0.0021 (J)
8/3/2022	<0.005	<0.005	0.0012 (J)	0.0041 (J)		0.0024 (J)



# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/11/2022					0.0018 (J)	
Mean	0.00373	0.003008	0.001775	0.003395	0.001563	0.002198
Std. Dev.	0.001994	0.001791	0.001136	0.001203	0.001569	0.0007014
Upper Lim.	0.005	0.005	0.0018	0.004079	0.001734	0.0023
Lower Lim.	0.0009	0.00098	0.0012	0.002712	0.0006874	0.0019

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-26D	MW-27D
5/23/2016	<0.005					
7/12/2016	0.0006 (J)					
9/1/2016	0.0007 (J)					
10/20/2016	0.002 (J)					
12/6/2016	0.0011 (J)					
1/26/2017	0.0006 (J)					
3/22/2017	0.0005 (J)					
5/23/2017	0.0006 (J)					
4/3/2018	<0.005					
3/13/2019	0.00065 (J)		0.0011 (J)	<0.005	<0.005	<0.005
3/14/2019		0.025				
4/2/2019			<0.005			
4/3/2019	0.00069 (J)	0.036			<0.005	
4/4/2019						9.1E-05 (J)
4/8/2019				0.00025 (J)		
9/25/2019			<0.005			
9/26/2019				0.0011 (J)	0.00053 (J)	<0.005
9/27/2019	0.00057 (J)	0.033				
3/2/2020			<0.005			
3/4/2020	0.00053 (J)	0.048		0.00056 (J)	<0.005	0.00045 (J)
3/26/2020		0.045				
3/27/2020			<0.005			
3/30/2020				<0.005		
3/31/2020	0.00051 (J)				0.0003 (J)	
4/2/2020						<0.005
9/17/2020	0.0007 (J)		<0.005		<0.005	
9/18/2020						<0.005
9/21/2020		0.032		<0.005		
2/11/2021			<0.005			
2/12/2021		0.037				
2/16/2021	0.00061 (J)			<0.005	0.00045 (J)	0.0004 (J)
3/12/2021						<0.005
3/15/2021			<0.005			
3/16/2021	0.00069 (J)					
3/17/2021		0.037		<0.005	0.00044 (J)	
8/17/2021	0.00045 (J)		<0.005		0.00045 (J)	<0.005
8/18/2021		0.039				
8/19/2021				<0.005		
2/9/2022	0.00051 (J)	0.03			0.00059 (J)	
2/10/2022			<0.005	<0.005		<0.005
8/3/2022				<0.005		<0.005
8/4/2022	0.00046 (J)	0.043	<0.005		0.00048 (J)	
Mean	0.001123	0.03682	0.004645	0.00381	0.002113	0.003722
Std. Dev.	0.001368	0.00678	0.001176	0.002047	0.00229	0.002191
Upper Lim.	0.0007	0.04247	0.005	0.005	0.005	0.005
Lower Lim.	0.00051	0.03117	0.005	0.00056	0.00044	0.0004

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-6
3/12/2019	<0.005	0.00057 (J)	
3/13/2019			0.00055 (J)
4/2/2019	<0.005	0.00084 (J)	
4/3/2019			<0.005
9/24/2019		0.0015 (J)	
9/26/2019	<0.005		0.00036 (J)
3/2/2020		0.00067 (J)	
3/3/2020			0.00094 (J)
3/4/2020	0.00093 (J)		
3/27/2020	<0.005		0.00059 (J)
3/30/2020		0.00063 (J)	
9/16/2020		0.0013 (J)	
9/21/2020	<0.005		0.00041 (J)
2/10/2021	<0.005		
2/15/2021		0.00097 (J)	
2/16/2021			0.00045 (J)
3/15/2021	<0.005	0.0011 (J)	
3/16/2021			0.00042 (J)
8/16/2021		0.0014 (J)	
8/17/2021			<0.005
8/18/2021	<0.005		
2/9/2022			0.00059 (J)
2/10/2022	<0.005	0.00089 (J)	
8/3/2022		0.0012 (J)	0.00041 (J)
8/4/2022	<0.005		
Mean	0.00463	0.001006	0.001338
Std. Dev.	0.001227	0.0003192	0.001817
Upper Lim.	0.005	0.001272	0.005
Lower Lim.	0.005	0.0007404	0.00041

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					0.62 (U)	0.56 (U)
5/23/2016	0.419 (U)	0.509 (U)	1.12	0.625 (U)		
7/12/2016	0.855	0.784 (U)	1.61	0.478 (U)	0.283 (U)	0.636 (U)
9/1/2016	0.844 (U)	0.261 (U)	1.23	0.595 (U)	0.703 (U)	0.818 (U)
10/20/2016					1.97	1.04 (U)
10/24/2016	0.917 (U)	1.42	1.98	1.54		
12/6/2016					2	0.771 (U)
12/7/2016	0.558 (U)	0.781 (U)	0.319 (U)	0.657 (U)		
1/25/2017					1.06 (U)	0.859 (U)
1/26/2017	0.922 (U)	0.842 (U)	0.54 (U)	1.22		
3/21/2017					0.668 (U)	0.851 (U)
3/22/2017	0.751 (U)	0.318 (U)	0.635 (U)	0.285 (U)		
5/23/2017					0.621 (U)	0.705 (U)
5/24/2017	0.725 (U)	0.687 (U)	1.01	0.655 (U)		
4/3/2018					0.538 (U)	0.311 (U)
4/4/2018	0.715 (U)	1.5	0.956	0.882 (U)		
6/5/2018	0.718 (U)	0.549 (U)		1.1 (U)	0.985 (U)	
6/6/2018			0.424 (U)			0.896 (U)
10/2/2018	0.948				0.837 (U)	1.21
10/3/2018		1.48	0.57 (U)			
10/5/2018				0.558 (U)		
3/12/2019						0.544 (U)
3/13/2019	1.19 (U)	0.584 (U)		0.39 (U)	0.403 (U)	
3/14/2019			0.992 (U)			
4/2/2019					0.865 (U)	
4/3/2019	1.82 (U)	0.36 (U)	0.734 (U)			0.885 (U)
4/5/2019				0.422 (U)		
9/24/2019						1.3
9/25/2019					0.884 (U)	
9/26/2019				0.939 (U)		
9/27/2019	1.16 (U)	1.78	0.958 (U)			
3/3/2020	0.667 (U)	0.716 (U)	0.971 (U)			0.835 (U)
3/4/2020				0.708 (U)	0.624 (U)	
3/26/2020			0.209 (U)			
3/27/2020					0.485 (U)	1.04 (U)
3/30/2020				0.602 (U)		
3/31/2020		1.3 (U)				
4/1/2020	0.235 (U)					
9/16/2020	0 (U)				0.135 (U)	0.526 (U)
9/18/2020		1.24 (U)	0.916 (U)			
9/21/2020				1.53		
2/10/2021					0.281 (U)	
2/12/2021		1.1	0.236 (U)			
2/15/2021	1.91					
2/16/2021						0.764 (U)
2/22/2021				1.02		
3/12/2021	1.12 (U)					
3/15/2021					0.666 (U)	1.3 (U)
3/16/2021		1.71	0.245 (U)			
3/17/2021				1.45 (U)		
8/16/2021					0.143 (U)	
8/17/2021	0.595 (U)					

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/18/2021		0.919 (U)	0.919 (U)			1.02 (U)
8/19/2021				0.764 (U)		
2/9/2022	0.49 (U)	0.444 (U)	0.564 (U)			
2/10/2022				0.442 (U)	0.175 (U)	0.945 (U)
8/3/2022	0.454 (U)	0.823 (U)	0.418 (U)	0.54 (U)		0.455 (U)
8/11/2022					0.461 (U)	
Mean	0.8188	0.914	0.798	0.791	0.7003	0.8305
Std. Dev.	0.4453	0.4602	0.4485	0.3741	0.4922	0.2628
Upper Lim.	1.058	1.161	1.039	0.9918	0.8841	0.9716
Lower Lim.	0.5797	0.6669	0.5572	0.5902	0.4153	0.6894

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	0.826 (U)					
7/12/2016	0.511 (U)					
9/1/2016	0.762 (U)					
10/20/2016	1.17					
12/6/2016	0.126 (U)					
1/26/2017	0.515 (U)					
3/22/2017	0.451 (U)					
5/23/2017	0.924 (U)					
4/3/2018	0.732 (U)					
6/6/2018	0.813 (U)					
10/2/2018	0.61 (U)					
3/13/2019	1 (U)		0.538 (U)	0.311 (U)		0.627 (U)
3/14/2019		0.347 (U)			1.28 (U)	
4/2/2019			1.02 (U)			
4/3/2019	0.156 (U)	0.884 (U)			0.662 (U)	0.205 (U)
4/8/2019				0.573 (U)		
9/25/2019			1.35 (U)			
9/26/2019				0.878 (U)		0.912 (U)
9/27/2019	0.428 (U)	0.534 (U)			0.945 (U)	
3/2/2020			0.653 (U)			
3/3/2020					1.36	
3/4/2020	1.03	1.04		0.333 (U)		1.27 (U)
3/26/2020		1.1 (U)			0.793 (U)	
3/27/2020			0.1 (U)			
3/30/2020				0.107 (U)		
3/31/2020	1.2 (U)					1.65
9/17/2020	1.38 (U)		0.469 (U)			0.42 (U)
9/18/2020					1.17 (U)	
9/21/2020		1.36 (U)		1.23 (U)		
2/11/2021			0.334 (U)			
2/12/2021		0.764 (U)			1.17	
2/16/2021	1.17 (U)			0.156 (U)		0.505 (U)
3/15/2021			1.24 (U)			
3/16/2021	0.446 (U)				0.742 (U)	
3/17/2021		0.466 (U)		0.174 (U)		0.165 (U)
8/17/2021	0.771 (U)		0.709 (U)			0.0468 (U)
8/18/2021		0.642 (U)				
8/19/2021				0.227 (U)	0.935 (U)	
2/9/2022	0.198 (U)	0.245 (U)			0.754 (U)	0.0677 (U)
2/10/2022			0.32 (U)	0.178 (U)		
8/3/2022				0.263 (U)		
8/4/2022	0.597 (U)	0.509 (U)	1.05 (U)		1.65	0.0273 (U)
Mean	0.7189	0.7174	0.7075	0.4027	1.042	0.536
Std. Dev.	0.3519	0.3464	0.4073	0.3541	0.3099	0.5393
Upper Lim.	0.9078	1.006	1.047	0.6312	1.3	0.9854
Lower Lim.	0.53	0.4287	0.3682	0.1484	0.7837	0.08658

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		0.926 (U)	1.37			
3/13/2019	1.81			0.621 (U)	2.07	1.23
4/2/2019		0.479 (U)	0.62 (U)			
4/3/2019				0.932 (U)	0.872 (U)	1.05 (U)
4/4/2019	1.33					
9/24/2019			0.675 (U)			
9/25/2019				0.798 (U)		
9/26/2019	0.974 (U)	0.997 (U)			0.745 (U)	0.947 (U)
3/2/2020			0.413 (U)	0.964 (U)		
3/3/2020					0.757 (U)	1.15
3/4/2020	1.12	1.31				
3/26/2020				1.1		
3/27/2020		1.59			0.758 (U)	
3/30/2020			0.885 (U)			0.83 (U)
4/2/2020	2.48					
9/16/2020			0.193 (U)			
9/17/2020				0.618 (U)		
9/18/2020	1.13 (U)					
9/21/2020		1.39 (U)			0.796 (U)	1.55 (U)
2/10/2021		0.201 (U)				
2/15/2021			1.17 (U)			0.892 (U)
2/16/2021	1.21			0.466 (U)	0.198 (U)	
3/12/2021	0.649 (U)					
3/15/2021		0.564 (U)	0.436 (U)			0.386 (U)
3/16/2021				1.22	0.727 (U)	
8/16/2021			0.208 (U)			
8/17/2021	1.06 (U)			0.304 (U)	0.557 (U)	0.183 (U)
8/18/2021		0.876 (U)				
2/8/2022						0.417 (U)
2/9/2022				0.567 (U)	0.619 (U)	
2/10/2022	0.809 (U)	1.96 (U)	0.594 (U)			
8/3/2022	0.685 (U)		0.581 (U)	0.63 (U)	0.543 (U)	
8/4/2022		0.84 (U)				1.18 (U)
Mean	1.205	1.012	0.6495	0.7473	0.7856	0.8923
Std. Dev.	0.5321	0.516	0.3687	0.2804	0.4635	0.4139
Upper Lim.	1.649	1.442	0.9568	0.9809	0.872	1.237
Lower Lim.	0.7618	0.5821	0.3423	0.5136	0.543	0.5474

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					0.0828 (J)	0.499
5/23/2016	0.0394 (J)	0.203 (J)	0.212 (J)	0.2587 (J)		
7/12/2016	0.15 (J)	0.44	0.31	0.53	0.2 (J)	0.67
9/1/2016	0.5	0.67	0.62	0.74	0.51	0.94
10/20/2016					0.4	0.56
10/24/2016	0.06 (J)	0.26 (J)	0.19 (J)	0.31		
12/6/2016					0.26 (J)	0.76
12/7/2016	0.44	0.55	0.73	1		
1/25/2017					0.24 (J)	1.1
1/26/2017	0.29 (J)	0.27 (J)	0.12 (J)	0.68		
3/21/2017					0.13 (J)	0.46
3/22/2017	0.34	0.66	0.44	0.76		
5/23/2017					0.11 (J)	0.65
5/24/2017	0.13 (J)	0.35	0.34	0.54		
10/3/2017	0.46	0.56	0.58	0.83	0.17 (J)	0.66
4/3/2018					<0.1	0.39
4/4/2018	<0.1	0.39	<0.1	0.65		
6/5/2018	<0.1	0.24 (J)		0.47	0.099 (J)	
6/6/2018			0.21 (J)			0.46
10/2/2018	0.17 (J)				<0.1	0.51
10/3/2018		0.31	0.15 (J)			
10/5/2018				0.77		
3/12/2019						0.58
3/13/2019	0.17 (J)	0.51		0.78	0.12 (J)	
3/14/2019			1.1			
4/2/2019					0.097 (J)	
4/3/2019	0.082 (J)	0.43	0.3 (J)			0.63
4/5/2019				0.83		
9/24/2019						0.49
9/25/2019					0.1 (J)	
9/26/2019				0.64		
9/27/2019	0.17 (J)	0.42	0.26 (J)			
3/3/2020	0.11 (J)	0.24 (J)	0.21 (J)			0.45
3/4/2020				0.37	0.077 (J)	
3/26/2020			0.17 (J)			
3/27/2020					0.059 (J)	0.46
3/30/2020				0.44		
3/31/2020		0.19 (J)				
4/1/2020	0.12 (J)					
6/16/2020						0.45
6/17/2020					0.077 (J)	
9/16/2020	<0.1				0.081 (J)	0.53
9/18/2020		0.15	0.15			
9/21/2020				0.44		
2/10/2021					0.085 (J)	
2/12/2021		0.17	0.19			
2/15/2021	0.08 (J)					
2/16/2021						0.47
2/22/2021				0.55		
3/12/2021	0.054 (J)					
3/15/2021					0.086 (J)	0.51
3/16/2021		0.21	0.2			



# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
3/17/2021				0.65		
8/16/2021					0.084 (J)	
8/17/2021	<0.1					
8/18/2021		0.21	0.15			0.41
8/19/2021				0.53		
2/9/2022	0.12	0.2	0.2			
2/10/2022				0.53	0.083 (J)	0.42
8/3/2022	0.13	0.22	0.21	0.55		0.44
8/11/2022					0.11	
Mean	0.1659	0.3414	0.3083	0.6021	0.14	0.5625
Std. Dev.	0.1409	0.1604	0.2414	0.1822	0.1124	0.1711
Upper Lim.	0.1868	0.4253	0.3731	0.6974	0.1549	0.6197
Lower Lim.	0.0772	0.2575	0.1799	0.5068	0.08395	0.4753

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	<0.1					
7/12/2016	0.24 (J)					
9/1/2016	0.46					
10/20/2016	0.56					
12/6/2016	0.31					
1/26/2017	0.004 (J)					
3/22/2017	0.28 (J)					
5/23/2017	0.29 (J)					
10/3/2017	0.53					
4/3/2018	<0.1					
6/6/2018	0.12 (J)					
10/2/2018	0.031 (J)					
3/13/2019	0.14 (J)		0.072 (J)	0.074 (J)		0.052 (J)
3/14/2019		0.35			2.2	
4/2/2019			<0.1			
4/3/2019	0.14 (J)	0.19 (J)			1.6	0.044 (J)
4/8/2019				0.048 (J)		
9/25/2019			<0.1			
9/26/2019				0.18 (J)		0.19 (J)
9/27/2019	0.26 (J)	0.53			1.5	
3/2/2020			<0.1			
3/3/2020					1.4	
3/4/2020	0.08 (J)	0.096 (J)		0.051 (J)		0.052 (J)
3/26/2020		0.12 (J)			1.6	
3/27/2020			<0.1			
3/30/2020				0.064 (J)		
3/31/2020	0.074 (J)					<0.1
9/17/2020	0.1		<0.1			0.069 (J)
9/18/2020					1.6	
9/21/2020		0.17		<0.1		
2/11/2021			<0.1			
2/12/2021		0.16			1.6	
2/16/2021	0.096 (J)			<0.1		0.071 (J)
3/15/2021			<0.1			
3/16/2021	0.098 (J)				1.7	
3/17/2021		0.18		<0.1		0.072 (J)
8/17/2021	0.095 (J)		<0.1			0.075 (J)
8/18/2021		0.12				
8/19/2021				<0.1	1.5	
2/9/2022	0.1	0.076 (J)			1.7	0.092 (J)
2/10/2022			<0.1	0.051 (J)		
8/3/2022				0.075 (J)		
8/4/2022	0.13	0.18	0.074 (J)		1.5	0.12
Mean	0.1843	0.1975	0.05418	0.06755	1.627	0.08064
Std. Dev.	0.1574	0.1318	0.009315	0.03862	0.2102	0.0423
Upper Lim.	0.2355	0.2861	0.072	0.075	1.7	0.1083
Lower Lim.	0.0904	0.1015	0.05	0.05	1.5	0.05013

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		0.24 (J)	0.07 (J)			
3/13/2019	0.28 (J)			0.1 (J)	0.19 (J)	0.069 (J)
4/2/2019		0.18 (J)	0.045 (J)			
4/3/2019				0.049 (J)	0.15 (J)	<0.1
4/4/2019	0.26 (J)					
9/24/2019			0.18 (J)			
9/25/2019				0.076 (J)		
9/26/2019	0.42	0.22 (J)			0.19 (J)	0.17 (J)
3/2/2020			<0.1	0.065 (J)		
3/3/2020					0.062 (J)	<0.1
3/4/2020	0.25 (J)	0.26 (J)				
3/26/2020				0.082 (J)		
3/27/2020		0.26 (J)			<0.1	
3/30/2020			<0.1			<0.1
4/2/2020	0.24 (J)					
9/16/2020			<0.1			
9/17/2020				0.094 (J)		
9/18/2020	0.22					
9/21/2020		0.1			<0.1	<0.1
2/10/2021		0.16				
2/15/2021			<0.1			<0.1
2/16/2021	0.25			0.051 (J)	0.059 (J)	
3/12/2021	0.24					
3/15/2021		0.24	<0.1			<0.1
3/16/2021				<0.1	0.06 (J)	
8/16/2021			<0.1			
8/17/2021	0.24			<0.1	0.055 (J)	<0.1
8/18/2021		0.14				
2/8/2022						<0.1
2/9/2022				0.056 (J)	0.059 (J)	
2/10/2022	0.25	0.22	<0.1			
8/3/2022	0.27		0.069 (J)	0.094 (J)	0.085 (J)	
8/4/2022		0.19				0.078 (J)
Mean	0.2655	0.2009	0.06491	0.06973	0.09182	0.06518
Std. Dev.	0.05373	0.05186	0.03904	0.02013	0.05623	0.03607
Upper Lim.	0.28	0.2441	0.07	0.08558	0.19	0.078
Lower Lim.	0.24	0.1577	0.05	0.05579	0.05	0.05

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					<0.001	<0.001
5/23/2016	<0.001	<0.001	<0.001	<0.001		
7/12/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/1/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/20/2016					<0.001	<0.001
10/24/2016	<0.001	<0.001	<0.001	<0.001		
12/6/2016					0.0001 (J)	<0.001
12/7/2016	<0.001	<0.001	<0.001	<0.001		
1/25/2017					0.0001 (J)	<0.001
1/26/2017	<0.001	<0.001	<0.001	<0.001		
3/21/2017					9E-05 (J)	<0.001
3/22/2017	<0.001	0.0003 (J)	<0.001	7E-05 (J)		
5/23/2017					8E-05 (J)	<0.001
5/24/2017	<0.001	9E-05 (J)	<0.001	<0.001		
4/3/2018					<0.001	<0.001
4/4/2018	<0.001	<0.001	<0.001	<0.001		
3/12/2019						<0.001
3/13/2019	<0.001	<0.001		<0.001	<0.001	
3/14/2019			<0.001			
3/3/2020	<0.001	0.00021 (J)	5.6E-05 (J)			0.00013 (J)
3/4/2020				0.00014 (J)	0.00051 (J)	
3/26/2020			0.00043 (J)			
3/27/2020					5.4E-05 (J)	<0.001
3/30/2020				0.0001 (J)		
3/31/2020		0.0003 (J)				
4/1/2020	5E-05 (J)					
9/16/2020	<0.001				0.0002 (J)	0.0002 (J)
9/18/2020		6E-05 (J)	9.6E-05 (J)			
9/21/2020				0.00015 (J)		
2/10/2021					0.00056 (J)	
2/12/2021		<0.001	6.7E-05 (J)			
2/15/2021	<0.001					
2/16/2021						8.6E-05 (J)
2/22/2021				0.00018 (J)		
3/12/2021	<0.001					
3/15/2021					0.0013	0.00011 (J)
3/16/2021		9.9E-05 (J)	8.9E-05 (J)			
3/17/2021				0.00015 (J)		
8/16/2021					<0.001	
8/17/2021	<0.001					
8/18/2021		<0.001	<0.001			<0.001
8/19/2021				<0.001		
2/9/2022	<0.001	<0.001	<0.001			
2/10/2022				<0.001	<0.001	<0.001
8/3/2022	<0.001	<0.001	<0.001	<0.001		<0.001
8/11/2022					<0.001	
Mean	0.0009472	0.0007255	0.0007632	0.0007106	0.0006663	0.000807
Std. Dev.	0.0002239	0.0004038	0.0004003	0.0004218	0.0004439	0.0003721
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5E-05	0.00021	9.6E-05	0.00015	0.0001	0.0002

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-26D	MW-27D
5/23/2016	<0.001					
7/12/2016	<0.001					
9/1/2016	<0.001					
10/20/2016	<0.001					
12/6/2016	0.0002 (J)					
1/26/2017	0.0001 (J)					
3/22/2017	<0.001					
5/23/2017	0.0001 (J)					
4/3/2018	<0.001					
3/13/2019	<0.001		<0.001	<0.001	<0.001	<0.001
3/14/2019		<0.001				
3/2/2020			0.00017 (J)			
3/4/2020	8.4E-05 (J)	0.00011 (J)		0.00019 (J)	<0.001	<0.001
3/26/2020		<0.001				
3/27/2020			0.00013 (J)			
3/30/2020				6.4E-05 (J)		
3/31/2020	0.00014 (J)				0.0001 (J)	
4/2/2020						0.00013 (J)
9/17/2020	0.00022 (J)		<0.001		<0.001	
9/18/2020						<0.001
9/21/2020		8.5E-05 (J)		4.2E-05 (J)		
2/11/2021			3.9E-05 (J)			
2/12/2021		7.1E-05 (J)				
2/16/2021	0.0002 (J)			0.00012 (J)	8E-05 (J)	0.00043 (J)
3/12/2021						<0.001
3/15/2021			0.0001 (J)			
3/16/2021	0.00027 (J)					
3/17/2021		3.8E-05 (J)		4E-05 (J)	<0.001	
8/17/2021	<0.001		<0.001		<0.001	<0.001
8/18/2021		<0.001				
8/19/2021				<0.001		
2/9/2022	<0.001	<0.001			<0.001	
2/10/2022			<0.001	<0.001		<0.001
8/3/2022				<0.001		<0.001
8/4/2022	<0.001	<0.001	<0.001		<0.001	
Mean	0.0006286	0.0005893	0.0006043	0.0004951	0.0007978	0.00084
Std. Dev.	0.0004295	0.0004873	0.0004704	0.0004811	0.0004013	0.0003262
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00014	3.8E-05	3.9E-05	4E-05	8E-05	0.00013

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.001	<0.001			
3/13/2019			<0.001	<0.001	<0.001
3/2/2020		9E-05 (J)	4.7E-05 (J)		
3/3/2020				0.00013 (J)	6.2E-05 (J)
3/4/2020	0.001 (J)				
3/26/2020			<0.001		
3/27/2020	6.2E-05 (J)			<0.001	
3/30/2020		0.00011 (J)			<0.001
9/16/2020		<0.001			
9/17/2020			<0.001		
9/21/2020	0.00018 (J)			0.00026 (J)	<0.001
2/10/2021	0.00044 (J)				
2/15/2021		5.2E-05 (J)			<0.001
2/16/2021			<0.001	8.4E-05 (J)	
3/15/2021	0.00034 (J)	<0.001			<0.001
3/16/2021			<0.001	3.6E-05 (J)	
8/16/2021		<0.001			
8/17/2021			<0.001	<0.001	<0.001
8/18/2021	<0.001				
2/8/2022					<0.001
2/9/2022			<0.001	<0.001	
2/10/2022	<0.001	<0.001			
8/3/2022		<0.001	<0.001	<0.001	
8/4/2022	<0.001				<0.001
Mean	0.0006691	0.0006947	0.0008941	0.0006122	0.0008958
Std. Dev.	0.0004056	0.0004582	0.0003177	0.0004636	0.0003127
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	6.2E-05	5.2E-05	4.7E-05	3.6E-05	6.2E-05

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9	MW-19
5/20/2016			<0.03	<0.03		
5/23/2016	0.0107 (J)	0.0422 (J)			<0.03	
7/12/2016	0.0113 (J)	0.0366 (J)	0.0021 (J)	0.0023 (J)	0.004 (J)	
9/1/2016	0.0118 (J)	0.04 (J)	0.0025 (J)	0.0029 (J)	0.0044 (J)	
10/20/2016			0.0021 (J)	0.0027 (J)	0.0027 (J)	
10/24/2016	0.0114 (J)	0.0435 (J)				
12/6/2016			0.0026 (J)	0.0032 (J)	0.005 (J)	
12/7/2016	0.0155 (J)	0.0477 (J)				
1/25/2017			0.0024 (J)	0.0026 (J)		
1/26/2017	0.0099 (J)	0.0342 (J)			0.0042 (J)	
3/21/2017			0.0026 (J)	0.0029 (J)		
3/22/2017	0.0098 (J)	0.0353 (J)			0.0043 (J)	
5/23/2017			0.0026 (J)	0.0029 (J)	0.0048 (J)	
5/24/2017	0.0105 (J)	0.0317 (J)				
4/3/2018			0.0023 (J)	0.0025 (J)	0.0043 (J)	
4/4/2018	0.008 (J)	0.031 (J)				
6/5/2018		0.031 (J)	0.0022 (J)			
6/6/2018	0.0095 (J)			0.0023 (J)	0.0043 (J)	
10/2/2018			0.003 (J)	0.0025 (J)	0.004 (J)	
10/3/2018	0.0083 (J)					
10/5/2018		0.027 (J)				
3/12/2019				0.0025 (J)		
3/13/2019		0.029 (J)	0.0024 (J)		0.004 (J)	
3/14/2019	0.0058 (J)					0.0089 (J)
4/2/2019			0.002 (J)			
4/3/2019	0.0066 (J)			0.0025 (J)	0.004 (J)	0.0061 (J)
4/5/2019		0.023 (J)				
9/24/2019				0.0024 (J)		
9/25/2019			0.0019 (J)			
9/26/2019		0.035				
9/27/2019	0.011 (J)				0.0044 (J)	0.013 (J)
3/3/2020	0.0063 (J)			0.0028 (J)		
3/4/2020		0.041	0.0034 (J)		0.004 (J)	0.01 (J)
3/26/2020	0.0063 (J)					0.013 (J)
3/27/2020			0.002 (J)	0.0026 (J)		
3/30/2020		0.038				
3/31/2020					0.0043 (J)	
9/16/2020			0.0026 (J)	0.0033 (J)		
9/17/2020					0.004 (J)	
9/18/2020	0.01 (J)					
9/21/2020		0.028 (J)				0.013 (J)
2/10/2021			0.0032 (J)			
2/12/2021	0.0094 (J)					0.012 (J)
2/16/2021				0.0027 (J)	0.0045 (J)	
2/22/2021		0.032				
3/15/2021			0.0038 (J)	0.0029 (J)		
3/16/2021	0.0081 (J)				0.0046 (J)	
3/17/2021		0.031				0.012 (J)
8/16/2021			0.0025 (J)			
8/17/2021					0.004 (J)	
8/18/2021	0.0099 (J)			0.0029 (J)		0.014 (J)
8/19/2021		0.028 (J)				

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9	MW-19
2/9/2022	0.01 (J)				0.0041 (J)	0.0067 (J)
2/10/2022		0.031	0.0022 (J)	0.003 (J)		
8/3/2022	0.0068 (J)	0.029 (J)		0.0026 (J)		
8/4/2022					0.0036 (J)	0.013 (J)
8/11/2022			0.0019 (J)			
Mean	0.009405	0.03387	0.003059	0.003273	0.004659	0.01106
Std. Dev.	0.002279	0.006144	0.002712	0.002633	0.002353	0.002736
Upper Lim.	0.01063	0.03717	0.003	0.0029	0.0045	0.01323
Lower Lim.	0.008181	0.03058	0.0021	0.0025	0.004	0.009135



# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-20	MW-24D	MW-25D	MW-26D	MW-27D	MW-28D
3/12/2019						0.011 (J)
3/13/2019	0.0016 (J)	0.0029 (J)		0.0033 (J)	0.0097 (J)	
3/14/2019			0.05			
4/2/2019	0.0015 (J)					0.0052 (J)
4/3/2019			0.047 (J)	0.0034 (J)		
4/4/2019					0.0069 (J)	
4/8/2019		0.0027 (J)				
9/25/2019	<0.03					
9/26/2019		0.003 (J)		0.0041 (J)	0.0055 (J)	0.0055 (J)
9/27/2019			0.047			
3/2/2020	0.00082 (J)					
3/3/2020			0.05			
3/4/2020		0.0026 (J)		0.03 (J)	0.0047 (J)	0.015 (J)
3/26/2020			0.054			
3/27/2020	0.0012 (J)					0.014 (J)
3/30/2020		0.0027 (J)				
3/31/2020				0.0036 (J)		
4/2/2020					0.0068 (J)	
9/17/2020	<0.03			0.0032 (J)		
9/18/2020			0.046		0.0084 (J)	
9/21/2020		0.0024 (J)				0.0053 (J)
2/10/2021						0.0092 (J)
2/11/2021	0.001 (J)					
2/12/2021			0.045			
2/16/2021		0.0028 (J)		0.0038 (J)	0.0078 (J)	
3/12/2021					0.009 (J)	
3/15/2021	0.0011 (J)					0.013 (J)
3/16/2021			0.049			
3/17/2021		0.0027 (J)		0.004 (J)		
8/17/2021	0.00091 (J)			0.0036 (J)	0.0079 (J)	
8/18/2021						0.0086 (J)
8/19/2021		0.0027 (J)	0.046			
2/9/2022			0.048	0.0039 (J)		
2/10/2022	0.00099 (J)	0.0029 (J)			0.0086 (J)	0.014 (J)
8/3/2022		0.0024 (J)			0.0063 (J)	
8/4/2022	0.00075 (J)		0.04	0.0033 (J)		0.0088 (J)
Mean	0.003625	0.002709	0.04745	0.006018	0.007418	0.009964
Std. Dev.	0.00563	0.0001921	0.003532	0.00796	0.00153	0.003693
Upper Lim.	0.015	0.002869	0.0504	0.0041	0.008693	0.01304
Lower Lim.	0.00082	0.002549	0.04451	0.0033	0.006143	0.006886

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	MW-29
3/12/2019	0.0024 (J)
4/2/2019	0.0021 (J)
9/24/2019	0.0022 (J)
3/2/2020	0.0025 (J)
3/30/2020	0.0023 (J)
9/16/2020	0.0021 (J)
2/15/2021	0.0024 (J)
3/15/2021	0.0022 (J)
8/16/2021	0.0021 (J)
2/10/2022	0.0023 (J)
8/3/2022	0.0018 (J)
Mean	0.002218
Std. Dev.	0.000194
Upper Lim.	0.00238
Lower Lim.	0.002057

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-13	HGWC-9
5/23/2016	<0.0002	<0.0002	<0.0002	<0.0002
7/12/2016	<0.0002	<0.0002	<0.0002	<0.0002
9/1/2016	<0.0002	<0.0002	<0.0002	<0.0002
10/20/2016				<0.0002
10/24/2016	<0.0002	<0.0002	<0.0002	
12/6/2016				<0.0002
12/7/2016	<0.0002	<0.0002	<0.0002	
1/26/2017	5E-05 (J)	5E-05 (J)	4E-05 (J)	4E-05 (J)
3/22/2017	<0.0002	<0.0002	<0.0002	<0.0002
5/23/2017				<0.0002
5/24/2017	<0.0002	<0.0002	5E-05 (J)	
4/3/2018				<0.0002
4/4/2018	<0.0002	<0.0002	<0.0002	
3/13/2019	<0.0002	<0.0002	<0.0002	<0.0002
3/3/2020	<0.0002	<0.0002		
3/4/2020			<0.0002	<0.0002
2/12/2021		<0.0002		
2/15/2021	<0.0002			
2/16/2021				<0.0002
2/22/2021			<0.0002	
2/9/2022	<0.0002	<0.0002		<0.0002
2/10/2022			<0.0002	
8/3/2022	<0.0002	<0.0002	<0.0002	
8/4/2022				<0.0002
Mean	0.0001893	0.0001893	0.0001779	0.0001886
Std. Dev.	4.009E-05	4.009E-05	5.632E-05	4.276E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5E-05	5E-05	5E-05	4E-05

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					0.028	0.446
5/23/2016	<0.01	0.0164	0.0413 (J)	0.027		
7/12/2016	0.0013 (J)	0.0251	0.0484	0.0316	0.0273	0.455
9/1/2016	<0.01	0.0259	0.0474	0.0336	0.0274	0.481
10/20/2016					0.036	0.472
10/24/2016	<0.01	0.0293	0.047	0.0352		
12/6/2016					0.0365	0.52
12/7/2016	<0.01	0.0209	0.0432	0.0383		
1/25/2017					0.0317	0.478
1/26/2017	<0.01	0.0277	0.0484	0.041		
3/21/2017					0.0346	0.547
3/22/2017	0.0013 (J)	0.011	0.0494	0.0426		
5/23/2017					0.0336	0.482
5/24/2017	0.0014 (J)	0.0373	0.047	0.04		
4/3/2018					0.032	0.44
4/4/2018	<0.01	0.013	0.052	0.027		
6/5/2018	<0.01	0.029		0.027	0.036	
6/6/2018			0.054			0.49
10/2/2018	<0.01				0.039	0.47
10/3/2018		0.02	0.054			
10/5/2018				0.033		
3/12/2019						0.5
3/13/2019	<0.01	0.012		0.033	0.04	
3/14/2019			0.046			
4/2/2019					0.041	
4/3/2019	0.0021 (J)	0.01	0.049			0.5
4/5/2019				0.03		
9/24/2019						0.54
9/25/2019					0.047	
9/26/2019				0.026		
9/27/2019	0.0014 (J)	0.016	0.052			
3/3/2020	<0.01	0.011	0.045			0.44
3/4/2020				0.03	0.045	
3/26/2020			0.045			
3/27/2020					0.044	0.42
3/30/2020				0.029		
3/31/2020		0.0074 (J)				
4/1/2020	<0.01					
6/16/2020						0.45
6/17/2020					0.048	
9/16/2020	0.0014 (J)				0.046	0.43
9/18/2020		0.032	0.046			
9/21/2020				0.032		
2/10/2021					0.051	
2/12/2021		0.023	0.048			
2/15/2021	<0.01					
2/16/2021						0.46
2/22/2021				0.036		
3/12/2021	0.0007 (J)					
3/15/2021					0.047	0.41
3/16/2021		0.015	0.044			
3/17/2021				0.035		

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/16/2021					0.045	
8/17/2021	0.0012 (J)					
8/18/2021		0.038	0.045			0.48
8/19/2021				0.032		
2/9/2022	<0.01	0.03	0.042			
2/10/2022				0.033	0.045	0.34
8/3/2022	0.00079 (J)	0.027	0.047	0.035		0.29
8/11/2022					0.044	
Mean	0.003481	0.02168	0.04732	0.03306	0.03935	0.4583
Std. Dev.	0.001885	0.0091	0.003488	0.004631	0.007166	0.05757
Upper Lim.	0.005	0.02657	0.04919	0.03554	0.0431	0.4884
Lower Lim.	0.0013	0.0168	0.04545	0.03057	0.0356	0.4282

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-24D	MW-25D	MW-26D	MW-27D
5/23/2016	0.0187					
7/12/2016	0.0229					
9/1/2016	0.0239					
10/20/2016	0.477					
12/6/2016	0.0236					
1/26/2017	0.0234					
3/22/2017	0.0219					
5/23/2017	0.0242					
4/3/2018	0.025					
6/6/2018	0.027					
10/2/2018	0.028					
3/13/2019	0.028		<0.01		<0.01	<0.01
3/14/2019		0.057		0.0022 (J)		
4/3/2019	0.03	0.04		<0.01	0.0083 (J)	
4/4/2019						0.0018 (J)
4/8/2019			0.00027 (J)			
9/26/2019			<0.01		0.017	0.0042 (J)
9/27/2019	0.033	0.063		<0.01		
11/25/2019					0.02	
3/3/2020				<0.01		
3/4/2020	0.031	0.032	<0.01		0.0074 (J)	0.0058 (J)
3/26/2020		0.033		<0.01		
3/30/2020			<0.01			
3/31/2020	0.031				0.0093 (J)	
4/2/2020						0.003 (J)
9/17/2020	0.03				0.014	
9/18/2020				0.00094 (J)		0.0018 (J)
9/21/2020		0.064	0.00099 (J)			
2/12/2021		0.046		<0.01		
2/16/2021	0.035		0.00096 (J)		0.022	0.0019 (J)
3/12/2021						0.0008 (J)
3/16/2021	0.035			<0.01		
3/17/2021		0.043	0.001 (J)		0.023	
8/17/2021	0.035				0.024	0.0016 (J)
8/18/2021		0.032				
8/19/2021			0.00087 (J)	<0.01		
2/9/2022	0.034	0.011		<0.01	0.028	
2/10/2022			0.0008 (J)			0.0017 (J)
8/3/2022			0.00095 (J)			0.002 (J)
8/4/2022	0.033	0.039		<0.01	0.028	
Mean	0.04866	0.04182	0.002349	0.004376	0.01717	0.002691
Std. Dev.	0.09579	0.01556	0.002111	0.001416	0.008206	0.001607
Upper Lim.	0.034	0.05479	0.005	0.005	0.02361	0.003874
Lower Lim.	0.0239	0.02885	0.0008	0.0022	0.01073	0.001413

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-6	MW-7
3/12/2019	0.013	0.0038 (J)		
3/13/2019			0.0021 (J)	<0.01
4/2/2019	0.028	0.0028 (J)		
4/3/2019			0.0021 (J)	<0.01
9/24/2019		0.0021 (J)		
9/26/2019	0.017		0.0026 (J)	0.0033 (J)
3/2/2020		0.0025 (J)		
3/3/2020			0.0022 (J)	<0.01
3/4/2020	0.009 (J)			
3/27/2020	0.0068 (J)		0.0026 (J)	
3/30/2020		0.0029 (J)		<0.01
9/16/2020		0.0021 (J)		
9/21/2020	0.018		0.0025 (J)	0.0015 (J)
2/10/2021	0.02			
2/15/2021		0.0029 (J)		0.0015 (J)
2/16/2021			0.0025 (J)	
3/15/2021	0.013	0.0031 (J)		0.0015 (J)
3/16/2021			0.0023 (J)	
8/16/2021		0.0027 (J)		
8/17/2021			0.0027 (J)	0.003 (J)
8/18/2021	0.022			
2/8/2022				0.0012 (J)
2/9/2022			0.0026 (J)	
2/10/2022	0.0031 (J)	0.0036 (J)		
8/3/2022		0.0032 (J)	0.0028 (J)	
8/4/2022	0.011			0.0014 (J)
Mean	0.01463	0.002882	0.002455	0.003036
Std. Dev.	0.007234	0.00054	0.0002423	0.001692
Upper Lim.	0.02066	0.003332	0.002656	0.005
Lower Lim.	0.008599	0.002432	0.002253	0.0014

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-8	HGWC-9
5/20/2016					<0.005	
5/23/2016	<0.005	0.0106	<0.005	<0.005		<0.005
7/12/2016	<0.005	0.0057 (J)	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	0.0057 (J)	<0.005	<0.005	<0.005	<0.005
10/20/2016					<0.005	<0.005
10/24/2016	<0.005	0.0021 (J)	<0.005	<0.005		
12/6/2016					0.0024 (J)	0.0037 (J)
12/7/2016	<0.005	0.0015 (J)	0.0011 (J)	<0.005		
1/25/2017					<0.005	
1/26/2017	0.0041 (J)	0.0062 (J)	<0.005	<0.005		<0.005
3/21/2017					<0.005	
3/22/2017	<0.005	0.0263	<0.005	<0.005		<0.005
5/23/2017					<0.005	<0.005
5/24/2017	<0.005	0.0038 (J)	<0.005	<0.005		
4/3/2018					<0.005	<0.005
4/4/2018	<0.005	0.021	<0.005	<0.005		
6/5/2018	<0.005	0.0062 (J)		<0.005		
6/6/2018			<0.005		<0.005	<0.005
10/2/2018	0.0023 (J)				<0.005	<0.005
10/3/2018		0.009 (J)	<0.005			
10/5/2018				<0.005		
3/12/2019					<0.005	
3/13/2019	0.0015 (J)	0.023		<0.005		<0.005
3/14/2019			<0.005			
4/3/2019	<0.005	0.016	<0.005		<0.005	<0.005
4/5/2019				0.00018 (J)		
9/24/2019					<0.005	
9/26/2019				<0.005		
9/27/2019	<0.005	0.013	<0.005			<0.005
3/3/2020	<0.005	0.016	<0.005		<0.005	
3/4/2020				<0.005		<0.005
3/26/2020			<0.005			
3/27/2020					<0.005	
3/30/2020				<0.005		
3/31/2020		0.019				<0.005
4/1/2020	0.002 (J)					
9/16/2020	<0.005				<0.005	
9/17/2020						<0.005
9/18/2020		0.0042 (J)	<0.005			
9/21/2020				0.0016 (J)		
2/12/2021		0.0079 (J)	<0.005			
2/15/2021	0.0028 (J)					
2/16/2021					<0.005	<0.005
2/22/2021				<0.005		
3/12/2021	<0.005					
3/15/2021					<0.005	
3/16/2021		0.015	<0.005			<0.005
3/17/2021				<0.005		
8/17/2021	<0.005					<0.005
8/18/2021		0.0033 (J)	<0.005		<0.005	
8/19/2021				<0.005		
2/9/2022	0.0031 (J)	0.0035 (J)	<0.005			<0.005



# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-8	HGWC-9
2/10/2022				<0.005	<0.005	
8/3/2022	0.0017 (J)	0.0057	<0.005	<0.005	<0.005	
8/4/2022						<0.005
Mean	0.004205	0.01021	0.004823	0.004626	0.004882	0.004941
Std. Dev.	0.001287	0.007321	0.0008315	0.001229	0.0005543	0.0002772
Upper Lim.	0.005	0.01414	0.005	0.005	0.005	0.005
Lower Lim.	0.0031	0.006284	0.0011	0.0016	0.0024	0.0037

# Confidence Interval

Constituent: Selenium (mg/L)    Analysis Run 11/8/2022 4:25 PM    View: Confidence Interval  
 Plant Hammond    Client: Southern Company    Data: Hammond AP-1

	MW-19	MW-27D	MW-5	MW-7
3/13/2019		<0.005	0.0033 (J)	0.0016 (J)
3/14/2019	<0.005			
4/3/2019	0.007 (J)		0.0027 (J)	<0.005
4/4/2019		0.00012 (J)		
9/25/2019			0.0021 (J)	
9/26/2019		<0.005		0.0014 (J)
9/27/2019	0.0013 (J)			
3/2/2020			0.0041 (J)	
3/3/2020				<0.005
3/4/2020	0.0044 (J)	<0.005		
3/26/2020	0.0053 (J)		0.0039 (J)	
3/30/2020				0.0014 (J)
4/2/2020		<0.005		
9/17/2020			0.0028 (J)	
9/18/2020		<0.005		
9/21/2020	0.0033 (J)			0.0026 (J)
2/12/2021	0.0021 (J)			
2/15/2021				<0.005
2/16/2021		<0.005	0.0035 (J)	
3/12/2021		<0.005		
3/15/2021				0.0021 (J)
3/16/2021			0.0026 (J)	
3/17/2021	<0.005			
8/17/2021		<0.005	0.0017 (J)	<0.005
8/18/2021	0.0026 (J)			
2/8/2022				0.0015 (J)
2/9/2022	0.0036 (J)		0.0027 (J)	
2/10/2022		<0.005		
8/3/2022		<0.005	0.0032 (J)	
8/4/2022	0.0022 (J)			<0.005
Mean	0.0038	0.004556	0.002964	0.003236
Std. Dev.	0.001708	0.001471	0.0007256	0.001723
Upper Lim.	0.004737	0.005	0.003568	0.005
Lower Lim.	0.002058	0.005	0.002359	0.0014

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-8	MW-19	MW-28D
5/20/2016				<0.001		
5/23/2016	<0.001	<0.001	0.000378 (J)			
7/12/2016	8E-05 (J)	0.0002 (J)	0.0004 (J)	7E-05 (J)		
9/1/2016	<0.001	<0.001	0.0004 (J)	<0.001		
10/20/2016				<0.001		
10/24/2016	<0.001	<0.001	0.0005 (J)			
12/6/2016				<0.001		
12/7/2016	<0.001	<0.001	0.0004 (J)			
1/25/2017				<0.001		
1/26/2017	<0.001	<0.001	0.0004 (J)			
3/21/2017				9E-05 (J)		
3/22/2017	<0.001	0.0001 (J)	0.0004 (J)			
5/23/2017				8E-05 (J)		
5/24/2017	8E-05 (J)	9E-05 (J)	0.0003 (J)			
4/3/2018				<0.001		
4/4/2018	<0.001	<0.001	0.00032 (J)			
6/5/2018	<0.001		0.00035 (J)			
6/6/2018		<0.001		<0.001		
10/2/2018				<0.001		
10/3/2018	<0.001	<0.001				
10/5/2018			0.00025 (J)			
3/12/2019				<0.001		<0.001
3/13/2019	<0.001		0.00039 (J)			
3/14/2019		<0.001		<0.001		
4/2/2019						<0.001
4/3/2019	<0.001	<0.001		<0.001	<0.001	
4/5/2019			0.00034 (J)			
9/24/2019				0.00011 (J)		
9/26/2019			0.00039 (J)			<0.001
9/27/2019	<0.001	8.8E-05 (J)			0.00027 (J)	
3/3/2020	<0.001	6.6E-05 (J)		6.1E-05 (J)		
3/4/2020			0.00056 (J)		0.00026 (J)	9.2E-05 (J)
3/26/2020		8E-05 (J)			0.00026 (J)	
3/27/2020				7.7E-05 (J)		<0.001
3/30/2020			0.00048 (J)			
3/31/2020	<0.001					
9/16/2020				<0.001		
9/18/2020	<0.001	<0.001				
9/21/2020			0.00036 (J)		0.0003 (J)	<0.001
2/10/2021						<0.001
2/12/2021	<0.001	<0.001			0.00019 (J)	
2/16/2021				<0.001		
2/22/2021			0.0003 (J)			
3/15/2021				<0.001		<0.001
3/16/2021	<0.001	<0.001				
3/17/2021			0.00037 (J)		0.00026 (J)	
8/18/2021	<0.001	<0.001		<0.001	0.00023 (J)	<0.001
8/19/2021			0.0002 (J)			
2/9/2022	<0.001	<0.001			<0.001	
2/10/2022			<0.001	<0.001		<0.001
8/3/2022	<0.001	<0.001	<0.001	0.00018 (J)		
8/4/2022					0.00026 (J)	<0.001

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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	HGWC-11	HGWC-12	HGWC-13	HGWC-8	MW-19	MW-28D
Mean	0.0009164	0.0007556	0.0004313	0.0007122	0.0004573	0.0009175
Std. Dev.	0.0002707	0.0004091	0.0001998	0.0004318	0.0003496	0.0002738
Upper Lim.	0.001	0.001	0.00048	0.001	0.001	0.001
Lower Lim.	8E-05	0.0002	0.00034	0.00011	0.00023	0.001

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/8/2022 4:25 PM View: Confidence Interval  
Plant Hammond Client: Southern Company Data: Hammond AP-1

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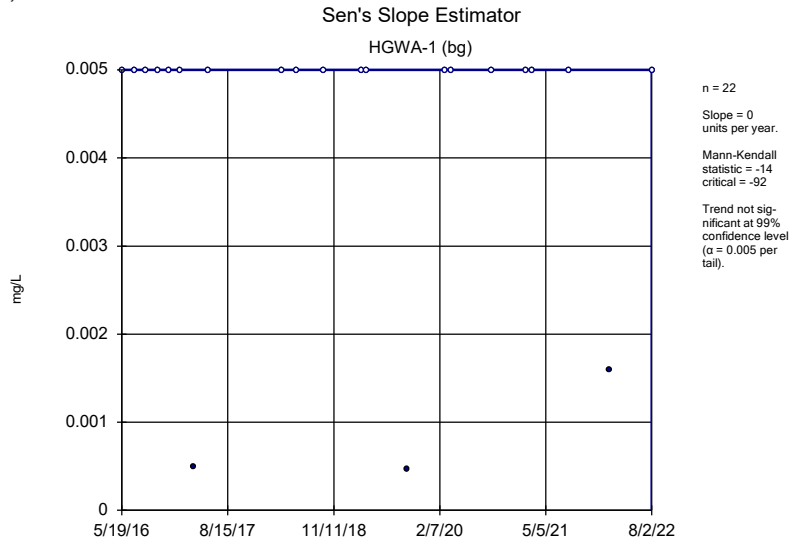
	MW-29	MW-6
3/12/2019	<0.001	
3/13/2019		<0.001
4/2/2019	<0.001	
4/3/2019		<0.001
9/24/2019	6.4E-05 (J)	
9/26/2019		<0.001
3/2/2020	<0.001	
3/3/2020		8.2E-05 (J)
3/27/2020		<0.001
3/30/2020	<0.001	
9/16/2020	<0.001	
9/21/2020		<0.001
2/15/2021	<0.001	
2/16/2021		<0.001
3/15/2021	<0.001	
3/16/2021		<0.001
8/16/2021	<0.001	
8/17/2021		<0.001
2/9/2022		<0.001
2/10/2022	<0.001	
8/3/2022	<0.001	<0.001
Mean	0.0009149	0.0009165
Std. Dev.	0.0002822	0.0002768
Upper Lim.	0.001	0.001
Lower Lim.	0.001	0.001

FIGURE I.

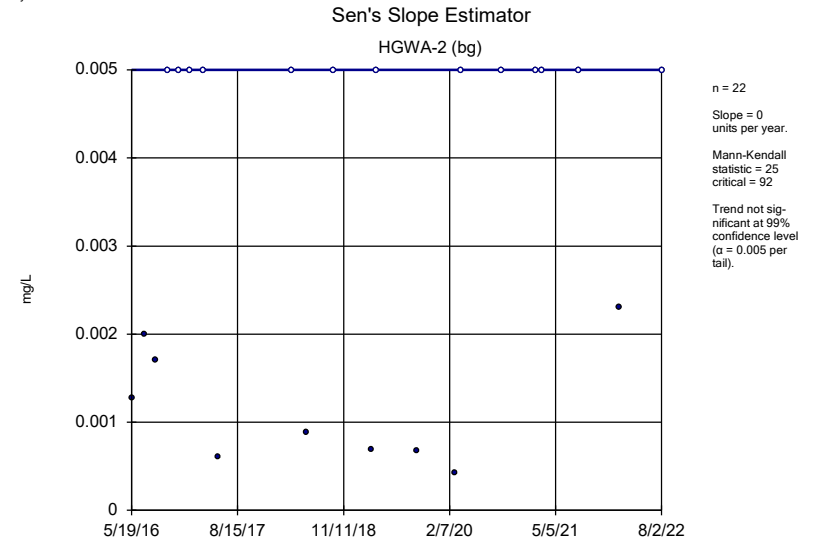
# Appendix IV Trend Test - All Results (No Significant)

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 11/8/2022, 12:37 PM

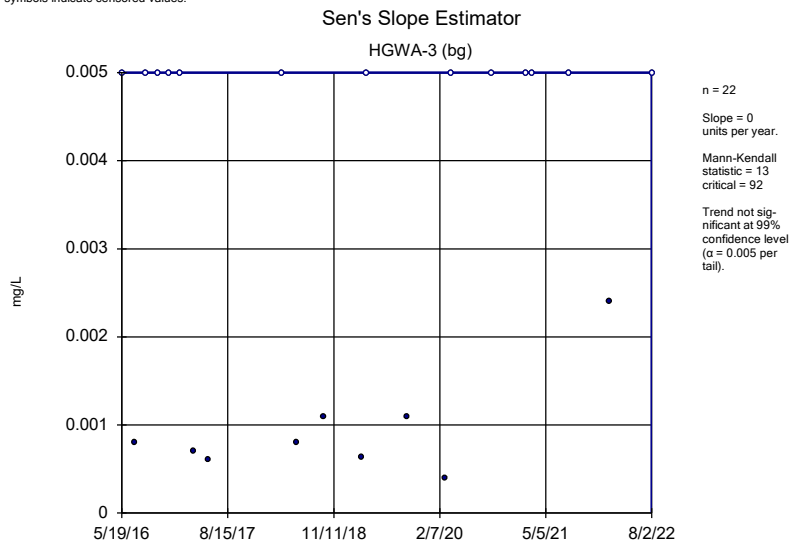
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	HGWA-1 (bg)	0	-14	-92	No	22	86.36	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-2 (bg)	0	25	92	No	22	59.09	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-3 (bg)	0	13	92	No	22	59.09	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-43D (bg)	0	-1	-25	No	9	33.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-44D (bg)	0	-5	-25	No	9	77.78	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWC-13	0.01212	63	92	No	22	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-1 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-2 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-3 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-43D (bg)	-0.0006438	-11	-25	No	9	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-44D (bg)	0.001835	19	25	No	9	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWC-8	-0.01034	-77	-98	No	23	0	n/a	n/a	0.01	NP



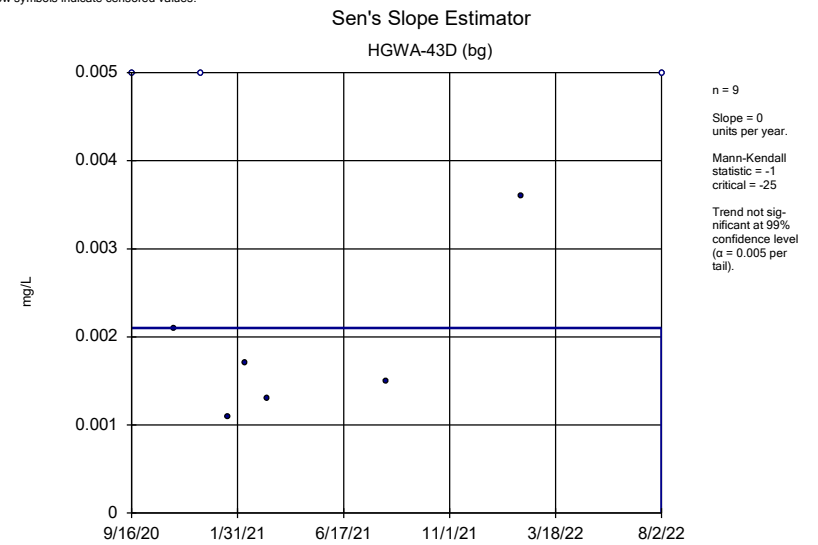
Constituent: Arsenic Analysis Run 11/8/2022 12:35 PM View: A4 Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Arsenic Analysis Run 11/8/2022 12:35 PM View: A4 Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

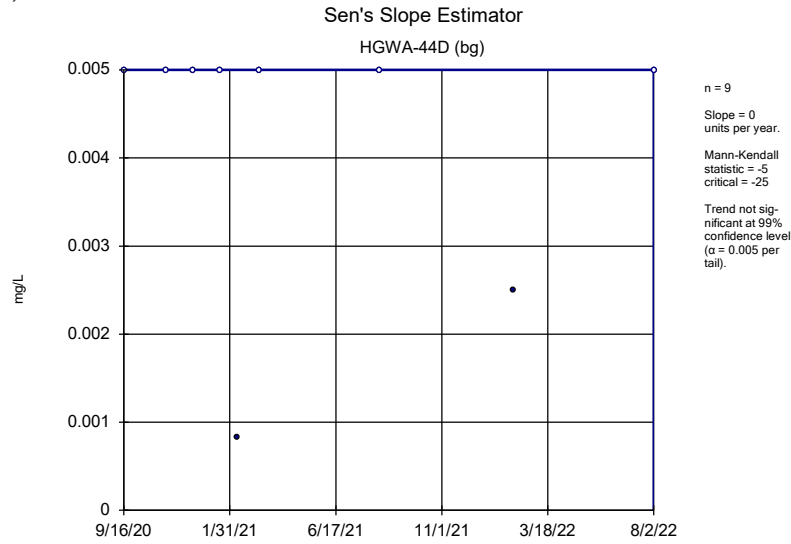


Constituent: Arsenic Analysis Run 11/8/2022 12:35 PM View: A4 Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

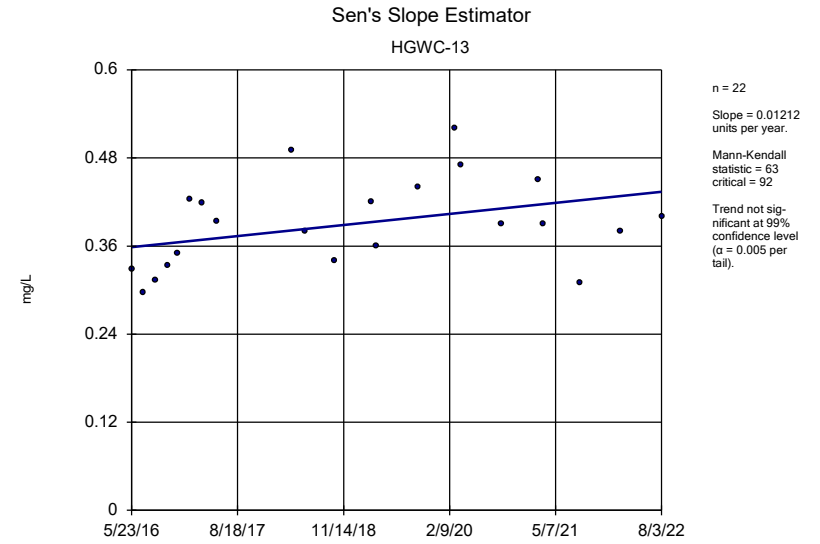


Constituent: Arsenic Analysis Run 11/8/2022 12:35 PM View: A4 Trend Test  
 Plant Hammond Client: Southern Company Data: Hammond AP-1

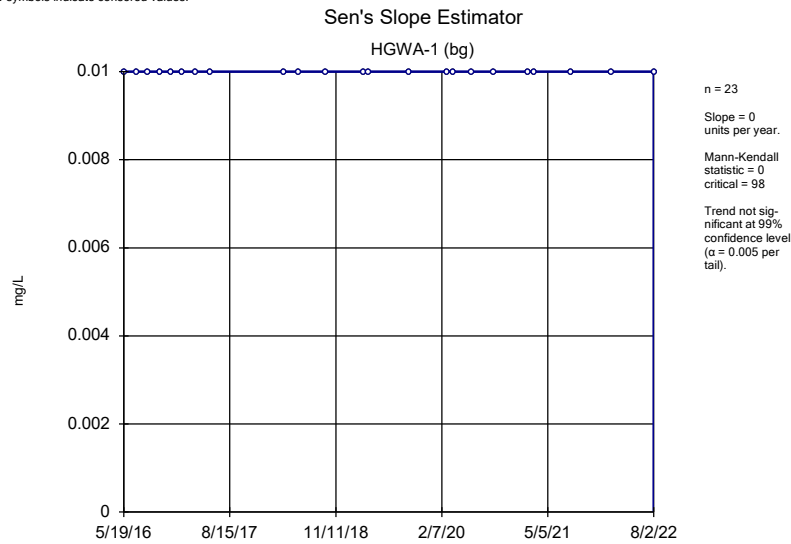




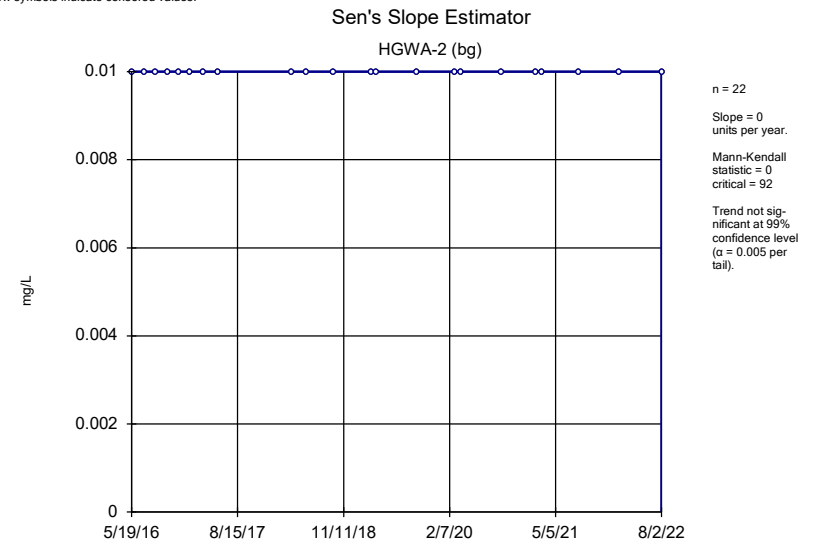
Constituent: Arsenic Analysis Run 11/8/2022 12:35 PM View: A4 Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Arsenic Analysis Run 11/8/2022 12:35 PM View: A4 Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1



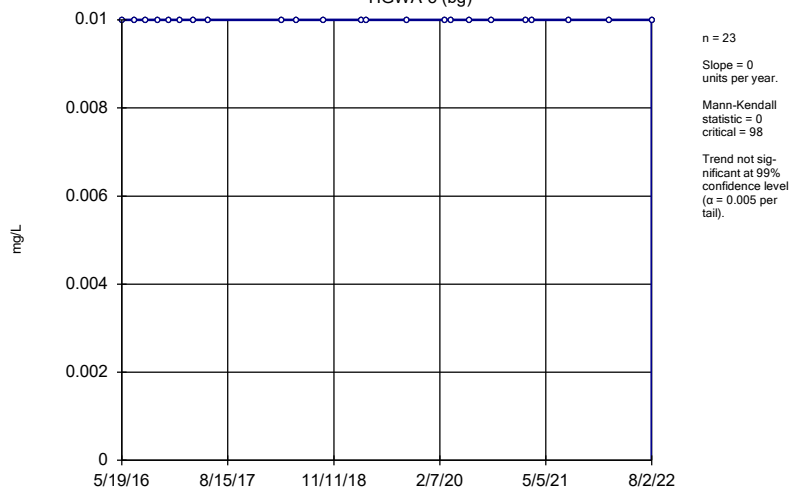
Constituent: Molybdenum Analysis Run 11/8/2022 12:35 PM View: A4 Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Molybdenum Analysis Run 11/8/2022 12:35 PM View: A4 Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

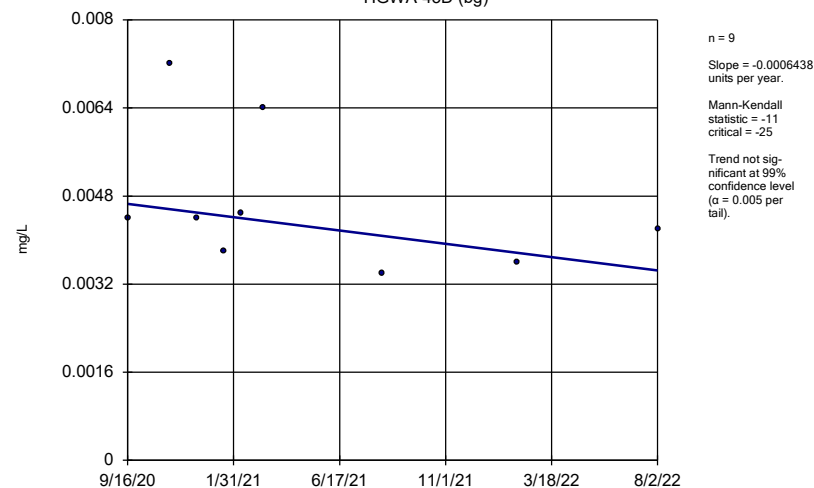
HGWA-3 (bg)



Constituent: Molybdenum Analysis Run 11/8/2022 12:35 PM View: A4 Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

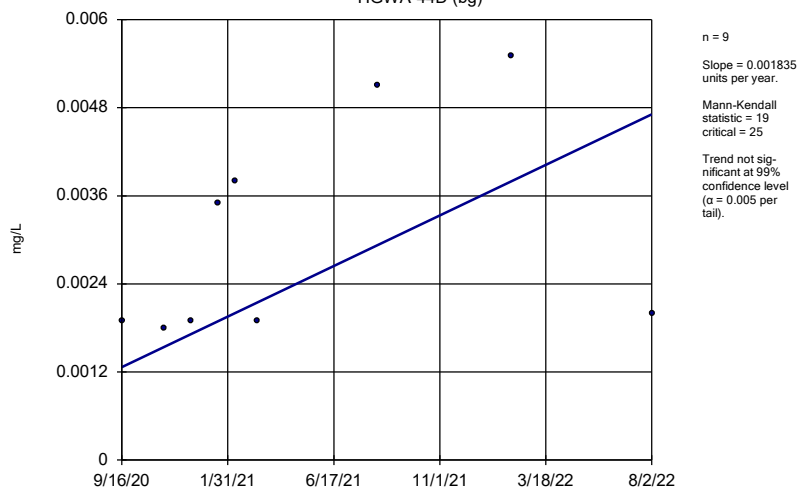
HGWA-43D (bg)



Constituent: Molybdenum Analysis Run 11/8/2022 12:35 PM View: A4 Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

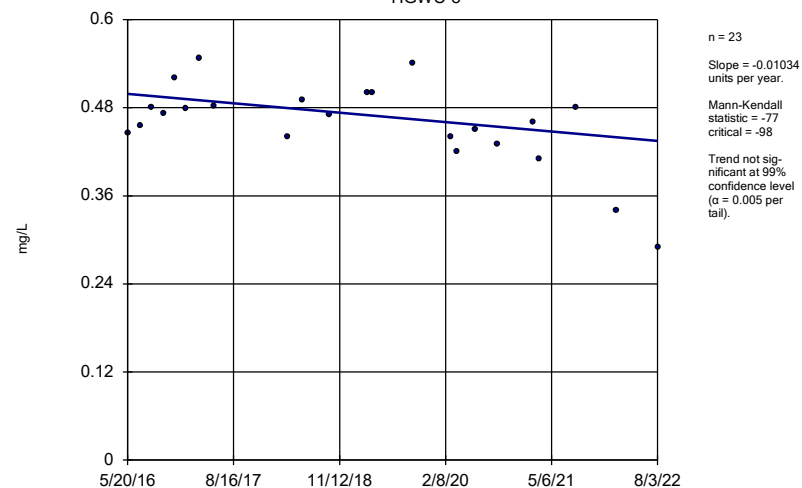
HGWA-44D (bg)



Constituent: Molybdenum Analysis Run 11/8/2022 12:35 PM View: A4 Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

### Sen's Slope Estimator

HGWC-8



Constituent: Molybdenum Analysis Run 11/8/2022 12:35 PM View: A4 Trend Test  
Plant Hammond Client: Southern Company Data: Hammond AP-1

## APPENDIX D

# Alternate Source Demonstration – Lithium, Plant Hammond Ash Pond 1



*Prepared for*

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

# **ALTERNATE SOURCE DEMONSTRATION – LITHIUM**

## **PLANT HAMMOND ASH POND 1**

*Prepared by*

**Geosyntec**   
consultants

**engineers | scientists | innovators**

1255 Roberts Boulevard, Suite 200  
Kennesaw, Georgia 30144

Project Number GW6581B

August 2022



## ALTERNATE SOURCE DEMONSTRATION – LITHIUM

Plant Hammond  
Ash Pond 1 (AP-1)

August 31, 2022

A handwritten signature in blue ink, appearing to read "Kip Gray".

---

Kip Gray, Ph.D.  
*Project Engineer*

A handwritten signature in blue ink, appearing to read "Whitney Law".

---

Whitney Law, P.E.  
*Project Manager*

## Certification Statement

**Alternate Source Demonstration – Lithium  
Plant Hammond  
Ash Pond 1  
August 31, 2022**

This *Alternate Source Demonstration – Lithium, Plant Hammond Ash Pond 1 (AP-1)* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically 257.95(g)(3)(ii), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10(6), by a qualified groundwater scientist or engineer with Geosyntec Consultants. 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).



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August 31, 2022

Date

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## LIST OF ACRONYMS AND ABBREVIATIONS

ACM	assessment of corrective measures
AP-1	ash pond 1
As	arsenic
ASD	Alternate Source Demonstration
Ca	calcium
CCR	Coal Combustion Residual
CSM	conceptual site model
CFR	Code of Federal Regulations
Cl	chloride
GA EPD	Georgia Environmental Protection Division
GA-20	Georgia Highway 20
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
Golder	Golder Associates, Inc.
GWPS	groundwater protection standard
HCO <sub>3</sub>	bicarbonate alkalinity
K	potassium
Li	lithium
MCL	maximum contaminant level
Mg	magnesium
mg/L	milligram per liter
Mo	molybdenum
Na	sodium
SSL	statistically significant level
SO <sub>4</sub>	sulfate
USEPA	United States Environmental Protection Agency

## 1. INTRODUCTION

### 1.1 Purpose

This document presents an alternate source demonstration (ASD) for the statistically significant levels (SSLs) of lithium (Li) detected in delineation well MW-25D associated with the coal combustion residual (CCR) unit Ash Pond 1 (AP-1) located at Georgia Power Company (Georgia Power) Plant Hammond (Site). Statistically significant levels of Li at MW-25D were first determined to be above Groundwater Protection Standards (GWPS) based on statistical evaluations of the groundwater quality data for samples obtained during assessment monitoring activities conducted through March 2020 (Geosyntec, 2020) and reported to the Georgia Environmental Protection Division (GA EPD) on August 31, 2020. This ASD has been prepared pursuant to Georgia regulations per Rule 391-3-4-.10(6) of the Georgia Administrative Code, which incorporates Title 40 Code of Federal Regulations (CFR) Part 257 Subpart D (the Federal CCR Rule), specifically 40 CFR 257.95(g)(3)(ii) by reference, which allows the owner or operator to “demonstrate that a source other than the CCR unit caused the contamination, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.”

### 1.2 Summary of ASD

Concentrations of Li observed at MW-25D do not originate from AP-1 and are similar to background concentrations observed HGWA-44D, caused by natural variation in deep groundwater at the Site. This ASD provides the following lines of evidence in support of this conclusion:

- Li concentrations in groundwater are greater in background compliance wells than either AP-1 pore water or shallow downgradient compliance monitoring and delineation wells.
- Geochemical evaluations using Piper and Stiff diagrams indicate that the chemical composition of groundwater sampled from MW-25D shows no evidence of a CCR impact and is similar to other deep slow recharge wells screened in bedrock. Longer residence times in slow recharge wells, evidenced by large drawdowns during low-flow sampling, leads to dissolution of solutes into the water (USGS, 2019) that results in a distinct geochemical signature.

- Statistical analysis of the January/February 2022 data incorporated new Li data from background compliance well HGWA-44D, which raised the GWPS from 0.034 mg/L to 0.048 mg/L. Using the updated background data set, Li at MW-25D was not identified as an SSL. Furthermore, when compared to the current GWPS, confidence intervals for Li in MW-25D have never exceeded observed background concentrations in HGWA-44D.

### **1.3 Site Description**

#### **1.3.1 Operations**

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 decommissioned in July 2019 and no longer produce electricity.

AP-1 is a 35-acre surface impoundment located at Plant Hammond that received CCR materials from its commission in 1952 until 1969. After 1969, AP-1 was utilized as a co-treatment pond to handle return water flows from the other ponds and for recycling of process water for plant operations. Closure activities in accordance with §257.100 were initiated in April 2022 in accordance with Closure permit No. 057-023D(CCR), which was issued by GA EPD on June 22, 2020. Closure construction activities for AP-1 consist of closure by removal.

#### **1.3.2 Geology and Hydrogeology**

##### ***1.3.2.1 Geology***

The Site is located within the Great Valley District of the Valley and Ridge Physiographic Province (Valley and Ridge) in northwest Georgia, which 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 Associates Inc. (Golder, 2018) indicates that AP-1 is underlain by the middle units of the Cambrian age Conasauga Formation, consisting of mostly shaley limestone. AP-1 is underlain primarily by five units: (i) fill, (ii) terrace

alluvium, (iii) residuum, (iv) highly weathered/fractured shaley limestone bedrock, and (v) competent shaley limestone bedrock. The limestone is described as medium to dark gray, very finely laminated with lighter and darker gray layers, and contains interbeds of calcareous shale. MW-25D is completely screened within the competent shaley limestone bedrock.

### ***1.3.2.2 Hydrogeology***

The uppermost aquifer at AP-1 is a regional groundwater aquifer that occurs in the terrace alluvium, residuum, and the weathered and fractured bedrock. The uppermost aquifer is considered to be unconfined; however, localized, semi-confined conditions may be encountered due to the low-permeability clayey nature of the residual soils, or as a result of perched groundwater or poorly interconnected fracture networks in the bedrock. Based on observations of soil types and horizontal conductivity values, the movement of groundwater in the soil, and to some degree the highly weathered bedrock zone, can be characterized as low-to moderate permeability, porous media flow. Groundwater flow in the more competent underlying bedrock is characterized as fracture flow. Groundwater flow in the vicinity of AP-1 is to the east and south (Geosyntec, 2022).

## **1.4 Groundwater Monitoring and Basis of Statistically Significant Levels**

Georgia Power initiated the assessment monitoring program at AP-1 in January 2018, followed with the initiation of an assessment of corrective measures (ACM) program in January 2019 due to the identification of SSLs of molybdenum (Mo) and arsenic (As) above established GWPS at several compliance monitoring wells. Pursuant to § 257.96, groundwater in the vicinity of AP-1 continues to be monitored in accordance with the established assessment monitoring program while ACM efforts are implemented.

Since initiation of ACM activities, additional groundwater monitoring wells have been installed to provide data to characterize upgradient and downgradient groundwater conditions at AP-1. The groundwater monitoring well network is shown on **Figure 2**; **Table 1** provides well construction details.

MW-25D was installed to vertically delineate Mo in HGWC-11 and HGWC-12 after SSLs of Mo were identified above the state GWPS<sup>1</sup> in these two wells. As shown in

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<sup>1</sup> Prior to February 22, 2022, the state GWPS for Mo was equal to Site-specific background concentrations (0.010 milligrams per liter [mg/L]) under GA EPD Rules for Solid Waste Management

**Table 1** and the boring logs presented in **Appendix A**, MW-25D was installed in a deeper lithological zone compared to HGWC-11 and HGWC-12.

As stated in Section 1.1, SSLs of Li in excess of the GWPS were identified based on statistical analysis of groundwater data collected through the March 2020 semiannual assessment monitoring event (Geosyntec, 2020). The state and federal GWPS established for the event were 0.03 mg/L and 0.04 mg/L, respectively. In August 2020, compliance monitoring well HGWC-44D was installed within the bedrock to characterize background conditions at a deeper bedrock interval than other existing background wells upgradient of AP-1 (boring log provided in **Appendix A**). In January 2021, Li was detected in HGWC-44D at concentrations higher than the state GWPS (Geosyntec, 2021b). Pursuant to § 257.95(h), the state GWPS was revised to 0.034 mg/L based on background concentrations. The Li GWPS was revised again following the January/February 2022 semiannual assessment monitoring event; statistical analysis of the background Li concentrations established a new background-based GWPS of 0.048 mg/L (Geosyntec, 2022). In accordance with § 257.95(h)<sup>2</sup>, the background level is established as the GWPS when the background level is higher than the MCL or CCR-rule specified level (0.04 mg/L). The AP-1 Li GWPS is summarized in **Table 2**.

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391-3-4-.10. The federal GWPS were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022. As a result of this, SSLs of Mo above the GWPS (0.10 mg/L) are no longer identified in HGWC-11 and HGWC-12.

<sup>2</sup> In accordance with §257.95(h), the GWPS is defined as: (i) the maximum contaminant level (MCL) established under §141.62 and §141.66; (ii) the CCR-rule specified level where an MCL has not been established for a constituent; and (iii) the background level when the background level is higher than the MCL or CCR-rule specified level.

## 2. ALTERNATE SOURCE DEMONSTRATION

The following subsections provide lines of evidence that SSLs of Li at MW-25D i) have never exceeded the current GWPS, and ii) are associated with natural variation in groundwater quality and not AP-1.

### 2.1 Historical Compliance With Background-based GWPS

Statistical analysis of January/February 2022 data incorporated new Li data from background compliance well HGWA-44D, which raised the GWPS from 0.034 mg/L to 0.048 mg/L. Using the updated background data set, Li at MW-25D was not identified as an SSL, as shown in **Table 2**. As shown on **Figure 3**, all previously identified SSLs of Li at MW-25D comply with the updated GWPS. Furthermore, the updated background-based Li GWPS is above the maximum observed Li concentration in pore water<sup>3</sup>, as well as Li concentrations reported in downgradient shallow compliance and delineation wells.

MW-25D Li groundwater data obtained from the January/February 2022 semiannual assessment monitoring event were statistically analyzed in accordance with the Professional Engineer-certified (PE-certified) Statistical Analysis Method Certification (October 2017, revised January 2020). Statistical analysis and associated results are discussed in detail in semiannual groundwater monitoring reports, the most recent being *2022 Semiannual Groundwater Monitoring and Corrective Action Report – Plant Hammond Ash Pond 1 (AP-1)* (Geosyntec, 2022).

### 2.2 Geochemical Composition of Liquid Samples

The chemical characteristics of select background and downgradient monitoring wells are summarized in **Table 3**, which also includes data from pore water piezometers PMW-01 and PMW-02 installed within CCR materials in AP-1. In addition to Appendix III and Appendix IV constituents, **Table 3** includes concentrations of major cations (calcium [Ca], magnesium [Mg], potassium [K], and sodium [Na]) and major anions (chloride [Cl], sulfate [SO<sub>4</sub>], and bicarbonate alkalinity [HCO<sub>3</sub>]) as well as iron, manganese, sulfide, and field parameters measured during sample collection. Sampling locations are depicted in **Figure 2**. Note that **Table 3** presents data for the latest full set of supplemental data (i.e., from September 2020) used to develop the Piper and Stiff diagrams, as well the latest Appendix III and Appendix IV groundwater quality data obtained during the January/February 2022 semiannual assessment monitoring event. The September 2020

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<sup>3</sup> The maximum reported Li concentration in AP-1 pore water is 0.043 mg/L; see **Table 3**.

data were used to evaluate the geochemical composition of the various samples collected from select monitoring locations using Piper and Stiff diagrams.

Piper diagrams are trilinear diagrams that plot the relative contributions of major ions to the overall geochemical makeup of a liquid sample. The diagram has three components. The large diamond-shaped component displays the combined cation and anion composition of major solutes. The two smaller triangular components display the cation components and the anion components, separately and in greater detail. The sample data are plotted as a percentage of the total milliequivalents on the diagram with each component reaching 100 percent at its respective corner of the diagram. If the results from discrete samples plot relatively close to each other, their respective chemical compositions are similar, and they might have a similar (or the same) source of solutes. One can also see mixing of different waters if the samples fall along straight lines between various water types (e.g., mixing of Ca-HCO<sub>3</sub> water, such as derived from carbonate rocks with Ca-SO<sub>4</sub> water, such as derived from gypsum).

Stiff diagrams plot the chemical compositions of each sample as polygons. Similar-shaped polygons for different samples indicate similar geochemical compositions, and they might have a similar (or the same) source of solutes. The relative size of each polygon is an indication of the ionic strength (or “concentration”) of the respective sample.

The resulting Piper diagram is presented as **Figure 4** and the Stiff diagrams are presented as **Figure 5**.

As shown on **Figure 4**, groundwater samples from piezometer MW-1 and background compliance monitoring wells HGWA-1, HGWA-3, and HGWA-43D plot close to each other and represent a chemical composition dominated by Ca-HCO<sub>3</sub> and groundwater unimpacted by the CCR unit. Deep background monitoring well HGWA-44D and delineation well MW-25D represent a mixed Na-(Ca-Mg)-HCO<sub>3</sub> groundwater, distinctly different in geochemical composition from the shallow upper aquifer.

CCR pore water samples from piezometers PMW-01 and PMW-02 are also distinctly different from background groundwater and MW-25D groundwater. Piezometers screened in the CCR unit reflect a pore water chemical composition consisting of Ca-SO<sub>4</sub>. Furthermore, MW-25D shows a different chemical signature compared to background wells screened in the shallow aquifer. MW-25D plots on the side of the diamond proximal to background well HGWA-44D which is screened approximately 36

feet deeper than MW-25D. The similarities between MW-25D and HGWA-44D and the dissimilarities to PMW-01 and PMW-02 are also apparent in the Piper diagram.

**Figure 5** depicts the Stiff diagrams, organized by ionic strength. The MW-25D sample ionic strength is approximately four times lower than pore water samples and has an ionic composition similar to background samples collected from HGWA-44D.

The difference in the geochemical composition of MW-25D and background well HGWA-44D when compared to other wells in the network is likely due to slower recharge groundwater conditions present in bedrock, as evidenced by drawdown during sampling presented in **Table 4**<sup>4</sup>. Prior to collecting groundwater samples, groundwater is purged at a low flowrate<sup>5</sup> until field water quality parameters stabilize while monitoring the change in groundwater elevation. The change in groundwater elevation between the initiation and ending of purging and sampling is referred to as drawdown. A large drawdown is typically indicative of a slow recharge, low-producing well.

Shallow wells HGWA-1, HGWA-3, HGWA-11, and HGWA-12 drawdown varied between 0.02 and 0.52 feet while purging at 200 ml/min. Deep well HGWA-43D drawdown was 3.19 ft while purging at 200 mL/min and deep well HGWA-44D drawdown was 1.2 ft while purging at 100 mL/min. MW-25D drawdown was greater (4.62 ft) than the two background bedrock wells while purging at 100 mL/min. These larger drawdowns in deeper wells screened in bedrock are indicative of slower recharge caused by fewer and smaller water-bearing fractures within the deeper bedrock. This is consistent with the conceptual site model (CSM) that indicates variable flow conditions and fewer fractures with depth that may or may not be connected to the uppermost aquifer.

Water collected from low-producing wells has had a longer time to interact with the rock matrix, leading to increased weathering and dissolution of solutes from the formation into the water (USGS, 2019), which results in a distinct geochemical signature. This likely accounts for the elevated levels of Li present at MW-25D, consistent with other deep wells (e.g., HGWA-44D) screened in competent limestone bedrock.

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<sup>4</sup> Purge logs associated with **Table 4** are included in **Appendix B**.

<sup>5</sup> Typically, 100 to 200 milliliters per minute (ml/min).



### 3. CONCLUSIONS

The following lines of evidence support the conclusion that the SSLs of Li identified in MW-25D are attributed to natural variation in the groundwater quality and are not due to a release from AP-1.

- Lithium concentrations in groundwater are greater in background compliance wells than either AP-1 pore water or shallow downgradient compliance monitoring and delineation wells.
- Geochemical evaluations using Piper and Stiff diagrams indicate that the chemical composition of groundwater sampled from MW-25D shows no evidence of a CCR impact and is similar to other deep slow recharge wells screened in competent bedrock. The ionic strength of groundwater at MW-25D is approximately four times lower than CCR pore water samples and has an ionic composition and strength similar to background samples collected from HGWA-44D and dissimilar from CCR pore water.
- Statistical analysis of the January/February 2022 data incorporated new Li data from background compliance well HGWA-44D, which raised the GWPS from 0.034 mg/L to 0.048 mg/L. Using the updated background data set, Li at MW-25D was not identified as an SSL. Furthermore, when compared to the current GWPS, confidence intervals for Li in MW-25D have never exceeded observed background concentrations in HGWA-44D.

#### 4. REFERENCES

- Geosyntec, 2019. *Hydrogeologic Assessment Report (Revision 1) – Plant Hammond Ash Pond 1 (AP-1)*. December 2019.
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- Geosyntec, 2021a. *Alternate Source Demonstration – Fluoride, Lithium, Molybdenum, Georgia Power Company, Plant Hammond Ash Pond 1*. January 2021
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# TABLES

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

Well ID	Hydraulic Location	Installation Date	Northing <sup>(1)</sup>	Easting <sup>(1)</sup>	Ground Surface Elevation (ft)	Top of Casing Elevation <sup>(2)</sup> (ft)	Top of Screen Elevation <sup>(2)</sup> (ft)	Bottom of Screen Elevation <sup>(2)</sup> (ft)	Well Depth (ft BTOC) <sup>(3)</sup>	Screen Interval Length (ft)
<b>Compliance Monitoring Well</b>										
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-43D	Upgradient	8/26/2020	1550422.85	1940753.81	592.08	595.08	544.08	534.08	61.25	10
HGWA-44D	Upgradient	8/25/2020	1550409.13	1940756.19	592.01	594.79	491.76	481.76	113.50	10
HGWC-7	Downgradient	12/3/2015	1549520.67	1942319.75	576.55	579.18	561.55	551.55	27.96	10
HGWC-8	Downgradient	12/8/2015	1549114.61	1942392.56	577.14	579.82	564.64	554.64	25.51	10
HGWC-9	Downgradient	12/9/2015	1548693.30	1942215.03	577.72	580.36	543.72	533.72	46.97	10
HGWC-10	Downgradient	12/8/2015	1548469.25	1941644.43	576.76	579.37	566.76	556.76	22.94	10
HGWC-11	Downgradient	12/15/2015	1548477.91	1941146.79	578.12	580.67	565.19	555.19	25.78	10
HGWC-12	Downgradient	12/9/2015	1548476.53	1941152.34	578.14	580.73	555.64	545.64	35.42	10
HGWC-13	Downgradient	12/10/2015	1548628.03	1940900.60	592.94	595.76	560.94	550.94	45.15	10
<b>Delineation Monitoring Well</b>										
MW-5	Downgradient	11/4/2014	1548436.02	1942448.85	578.00	581.14	560.70	550.70	30.84	10
MW-6	Downgradient	11/4/2014	1548383.12	1941689.01	579.18	581.84	559.28	549.28	32.96	10
MW-7	Downgradient	10/30/2014	1548230.47	1941087.44	574.94	577.73	561.24	551.24	26.89	10
MW-19	Downgradient	9/26/2018	1548422.94	1940943.01	577.46	580.65	561.45	551.45	29.53	10
MW-20	Downgradient	9/27/2018	1549029.68	1942736.85	575.96	579.00	554.96	544.96	34.37	10
MW-24D	Downgradient	11/7/2018	1548638.80	1940900.37	592.91	595.68	532.91	522.91	72.77	10
MW-25D	Downgradient	11/6/2018	1548473.00	1941162.20	577.71	580.59	527.71	517.71	63.21	10
MW-26D	Downgradient	11/14/2018	1548699.91	1942222.36	577.63	580.41	512.63	502.63	78.11	10
MW-27D	Downgradient	11/8/2018	1549103.57	1942390.80	576.84	579.70	526.84	516.84	63.19	10
MW-28D	Downgradient	11/13/2018	1549510.90	1942321.14	576.20	579.08	531.20	521.20	58.21	10
MW-29	Downgradient	11/13/2018	1549437.67	1942633.60	572.14	575.06	557.14	547.14	28.25	10
<b>Piezometer</b>										
AP1A-1	Upgradient	12/15/2015	1550080.01	1941614.12	584.78	587.44	575.84	565.84	21.93	10
MW-1	Upgradient	12/2/2014	1549938.24	1941589.06	585.63	588.66	567.93	557.93	31.06	10
MW-8	Downgradient	10/29/2014	1548171.86	1940016.70	584.25	586.93	565.05	555.05	32.72	10
MW-30D	Downgradient	6/19/2019	1549530.00	1942318.45	576.20	578.59	481.20	471.20	107.72	10
MW-40D	Downgradient	4/29/2020	1549542.29	1942316.55	576.41	578.92	450.41	440.41	138.84	10

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey data certified by GEL Solutions May 19, 2020. Survey data for HGWA-43D and HGWA-44D certified by GEL Solutions September 10, 2020.

(2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey data certified by GEL Solutions May 19, 2020. Survey data for HGWA-43D and HGWA-44D certified by GEL Solutions September 10, 2020.

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

**Table 2**  
 Summary of Lithium Groundwater Protection Standard  
 Plant Hammond AP-1, Floyd County, Georgia

Analyte	Units	Background <sup>(1)</sup>	CCR-Rule Specified Level <sup>(2)</sup>	GWPS <sup>(3)</sup>
Lithium	mg/L	0.048	0.040	0.048 <sup>(3)</sup>

Notes:

GWPS = Groundwater Protection Standard

mg/L = milligrams per liter

- (1) The reported lithium background concentration was measured at HGWA-44D during the January/February 2022 semiannual sampling event. The lithium background concentration was previously 0.034 mg/L.
- (2) In accordance with 40 CFR §257.95(h)(2)(iii).
- (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 CCR-rule specified GWPS is used; or
  - (iii) background concentrations for constituents where the background level is higher than the MCL or CCR-rule specified GWPS.
- 4) No MCL has been established for lithium.
- 5) The GA EPD lithium GWPS was equal to the background level prior to February 22, 2022. On February 22, 2022, GA EPD adopted the USEPA federal GWPS for cobalt, lithium, lead, and molybdenum.

**Table 3**  
Summary of Groundwater and Pore Water Analytical Data  
Plant Hammond AP-1, Floyd County, Georgia

Well ID:	Background Groundwater										Downgradient Groundwater						CCR Pore Water		
	HGWA-1	HGWA-1	HGWA-3	HGWA-3	HGWA-43D	HGWA-43D	HGWA-44D	HGWA-44D	MW-1	HGWC-11	HGWC-11	HGWC-12	HGWC-12	MW-25D	MW-25D	PMW-01	PMW-02		
Sample Date:	9/15/2020	2/1/2022	9/15/2020	2/1/2022	9/16/2020	2/1/2022	9/16/2020	2/1/2022	6/16/2020	9/18/2020	2/9/2022	9/18/2020	2/9/2022	9/18/2020	2/9/2022	4/9/2020	4/9/2020		
Parameter <sup>(1,2,3)</sup>	Units																		
Appendix III	Boron	mg/L	0.017 J	0.016 J	0.0071 J	0.011 J	0.061 J	0.050	0.23	0.44	0.19	0.91	1.0	1.6	2.0	0.36	0.43	1.7	3.2
	Calcium	mg/L	103	106	73.1	85.1	56	55.9	30	24.8	157	122	144	163	172	25.1	23.5	577	258
	Chloride	mg/L	13.4	7.5	6	5.7	4.1	4.1	7.2	44.8	29.6	34.9	20.4	74.6	46.8	33.4	26.5	69.5	72.7
	Fluoride	mg/L	0.082 J	0.064 J	<0.05	<0.050	0.22	0.19	0.52	0.96	0.2	0.15	0.20	0.15	0.20	1.6	1.7	0.31	0.82
	pH	S.U.	7.15	7.19	7.29	7.45	7.52	7.52	7.83	8.25	6.86	6.41	6.55	7.15	7.23	7.64	7.82	6.58	7.4
	Sulfate	mg/L	47.3	43.7	44.7	46.0	43	37.5	6.9	56.3	114	272	276	266	252	27.4	1.7	1160	454
	TDS	mg/L	265	270	258	350	272	156	270	444	653	626	544	704	678	382	364	2170	1090
Appendix IV	Antimony	mg/L	<0.00028	<0.00078	<0.00028	<0.00078	0.00051 J	<0.00078	0.00049 J	0.0013 J	-	0.00038 J	<0.00078	<0.00028	<0.00078	<0.00028	<0.00078	<0.00027	0.00054 J
	Arsenic	mg/L	<0.00078	0.0016 J	<0.00078	0.0024 J	<0.00078	0.0036 J	<0.00078	0.0025 J	-	0.00081 J	0.0047 J	0.0031 J	0.0053	<0.00078	<0.0011	0.16	0.72
	Barium	mg/L	0.035	0.031	0.12	0.12	0.26	0.29	0.24	0.23	-	0.043	0.042	0.086	0.075	0.44	0.60	0.056	0.16
	Beryllium	mg/L	<0.000046	<0.000054	<0.000046	<0.000054	<0.000046	<0.000054	<0.000046	<0.000054	-	<0.000046	<0.000054	<0.000046	<0.000054	<0.000046	<0.000054	<0.000074	<0.000074
	Cadmium	mg/L	<0.00012	<0.00011	<0.00012	<0.00011	<0.00012	<0.00011	<0.00012	<0.00011	-	<0.00012	<0.00011	<0.00012	<0.00011	<0.00012	<0.00011	<0.00011	<0.00011
	Chromium	mg/L	<0.00055	<0.0011	<0.00055	<0.0011	<0.00055	<0.0011	0.0012 J	0.0013 J	-	<0.00055	<0.0011	0.00091 J	<0.0011	<0.00055	<0.0011	<0.00039	<0.00039
	Cobalt	mg/L	<0.00038	<0.00039	<0.00038	<0.00039	<0.00038	<0.00039	<0.00038	<0.00039	-	<0.00038	<0.00039	0.0014 J	0.0013 J	<0.00038	<0.00039	0.00056 J	<0.0003
	Fluoride	mg/L	0.082 J	0.064 J	<0.05	<0.050	0.22	0.19	0.52	0.96	0.2	0.15	0.20	0.15	0.20	1.6	1.7	0.31	0.82
	Lead	mg/L	<0.00036	<0.00089	0.00042 J	<0.00089	0.00005 J	<0.00089	0.00021 J	<0.00089	-	0.00006 J	<0.00089	0.000096 J	<0.00089	<0.00036	<0.00089	<0.00046	0.00053 J
	Lithium	mg/L	0.00087 J	0.0011 J	0.0026 J	0.0037 J	0.0018 J	0.0018 J	0.014 J	0.048	-	<0.00081	<0.00073	0.01 J	0.010 J	0.046	0.048	0.043	0.018 J
	Mercury	mg/L	-	<0.00013	-	<0.00013	<0.00078	<0.00013	<0.00078	<0.00013	-	-	<0.00013	-	<0.00013	-	<0.00013	<0.00014	<0.00014
	Molybdenum	mg/L	<0.00069	<0.00074	<0.00069	<0.00074	0.0044 J	0.0036 J	0.0019 J	0.0055 J	<0.00095	0.032	0.03	0.046	0.042	0.00094 J	<0.00074	0.0057 J	0.05
	Comb. Radium 226/228	pCi/L	0.748 U	0.143 U	0.161 U	0.266 U	0.531 U	1.12	0.422 U	0.665 U	-	1.24 U	0.444 U	0.916 U	0.564 U	1.17 U	0.754 U	1.03 U	0.352 U
	Selenium	mg/L	<0.0016	<0.0014	<0.0016	<0.0014	<0.0016	<0.0014	<0.0016	<0.0014	-	0.0042 J	0.0035 J	<0.0016	<0.0014	<0.0016	<0.0014	<0.0016	<0.0013
	Thallium	mg/L	<0.00014	<0.00018	<0.00014	<0.00018	<0.00014	<0.00018	<0.00014	<0.00018	-	<0.00014	<0.00018	<0.00014	<0.00018	<0.00014	<0.00018	0.00023 J	0.00059 J
Geochemical Parameters	Alkalinity (Bicarbonate as CaCO <sub>3</sub> )	mg/L	307	-	187	-	251	-	294	-	376	91.6	-	172	-	288	-	185	236
	Alkalinity (Carbonate as CaCO <sub>3</sub> )	mg/L	<5	-	<5	-	<5	-	<5	-	<5	<5	-	<5	-	<5	-	-	-
	Alkalinity (total) as CaCO <sub>3</sub>	mg/L	307	-	187	-	251	-	294	-	376	91.6	-	172	-	288	-	-	-
	Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nitrogen (Total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sodium	mg/L	21.1	-	4.9	-	14	-	50.3	-	12.5	5.5	-	9.4	-	103	-	17.1	43.7
	Sulfide	mg/L	<0.05	-	<0.05	-	<0.05	-	0.11	-	<0.05	<0.05	-	<0.05	-	2.9	-	<0.05	<0.05
	Iron	mg/L	0.087	-	0.26	-	0.02 J	-	0.42	-	0.78	<0.016	-	0.083	-	0.088	-	15.5	0.95
	Magnesium	mg/L	4.3	-	4.6	-	18.3	-	15.1	-	23.7	16.2	-	17.3	-	8.3	-	57.4	25.6
	Manganese	mg/L	0.18	-	0.22	-	0.01 J	-	0.02 J	-	0.36	0.017 J	-	2	-	0.04 J	-	9.8	1.1
Phosphorus	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	mg/L	0.34	-	0.46	-	0.97	-	3.2	-	0.39	3.7	-	7.2	-	0.42	-	8.7	8.1	
Field Parameters	DO	mg/L	0.74	0.5575	0.19	0.4778	3.55	0.1129	0.31	12.14	0.09	0.58	0.5178	0.17	0.7796	0.13	0.9878	-	-
	Oxidation-reduction potential	mV	42.92	-1.355	117.4	139.6	126.2	-107.5	77.43	-20.79	88.95	143.4	73.75	113.8	4.729	19.18	-165.6	-	-
	Temp	°C	18.57	17.41	19.73	17.16	19.59	17.27	19.1	16.83	20.47	23.86	16.74	20.78	18.39	23.21	18.92	-	-
	EC (field)	µS/cm	637.8	582.2	433.8	235.3	490.5	463	484.7	795.3	908.9	839.2	847.1	1043	997.9	628.6	616.9	-	-
	Turbidity	NTU	2.15	0.4	1.39	2.85	2	1.63	4.93	4.25	2.91	0.42	1.06	4.8	0.48	0.56	0.99	-	-

Notes:  
 - = Parameter was not analyzed  
 < = Indicates the parameter was not detected above the analytical method detection limit (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).  
 U\* = Indicates the parameter should be considered "not-detected" because it was detected in an associated blank at a similar level  
 (1) Metals were analyzed by EPA Method 6020B, anions were analyzed by EPA Method 300.0, and TDS was analyzed by SM2540C.  
 (2) The pH value presented was recorded at the time of sample collection in the field.  
 (3) Combined radium-226 and -228 is the Appendix IV parameter per 40 CFR 257 Subpart D

**Table 4**  
 Summary of Low-flow Sampling Drawdown  
 Plant Hammond AP-1, Floyd County, Georgia

<b>Well ID</b>	<b>Screened Aquifer</b>	<b>Purge Flowrate (mL/min)</b>	<b>Maximum Drawdown (ft)</b>
HGWA-1	Highly Weathered Limestone	200	0.52
HGWA-2	Terrace Alluvium	200	0.14
HGWA-3	Highly Weathered Limestone	200	0.02
HGWA-43D	Competent Limestone	200	3.19
HGWA-44D	Competent Limestone	100	1.20
HGWC-11	Residuum/Highly Weathered Limestone	200	0.14
HGWC-12	Residuum/Highly Weathered Limestone	200	0.05
MW-25D	Competent Limestone	100	4.62

Notes:

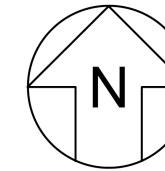
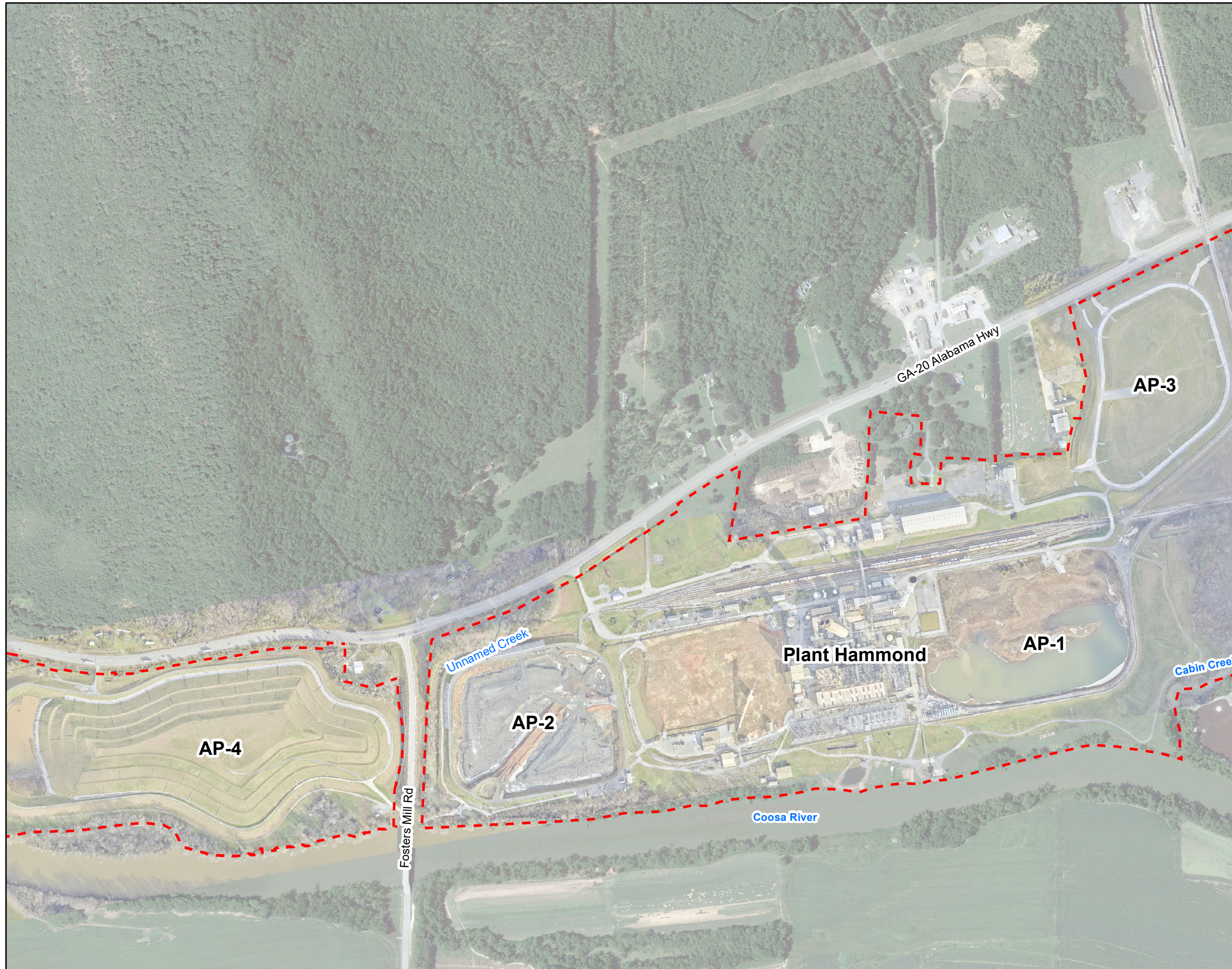
ft = feet

mL/min = milliliter per minute

(1) Reported flowrates and drawdowns are from the February 2022 semiannual sampling event.

# FIGURES





**LEGEND**

Plant Hammond Property Boundary



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



**SITE LOCATION MAP**

GEORGIA POWER COMPANY  
PLANT HAMMOND AP-1  
FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

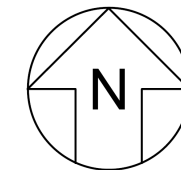
Prepared By: Geosyntec  
consultants

KENNESAW, GA

AUGUST 2022

**FIGURE**  
**1**





**LEGEND**

- Compliance Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Surface Water Level Gauge Point
- Pore Water Sampling Location
- Approximate AP-1
- Plant Hammond Property Boundary

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



**MONITORING WELL NETWORK AND SAMPLING LOCATION MAP**

GEORGIA POWER COMPANY  
 PLANT HAMMOND AP-1  
 FLOYD COUNTY, GEORGIA

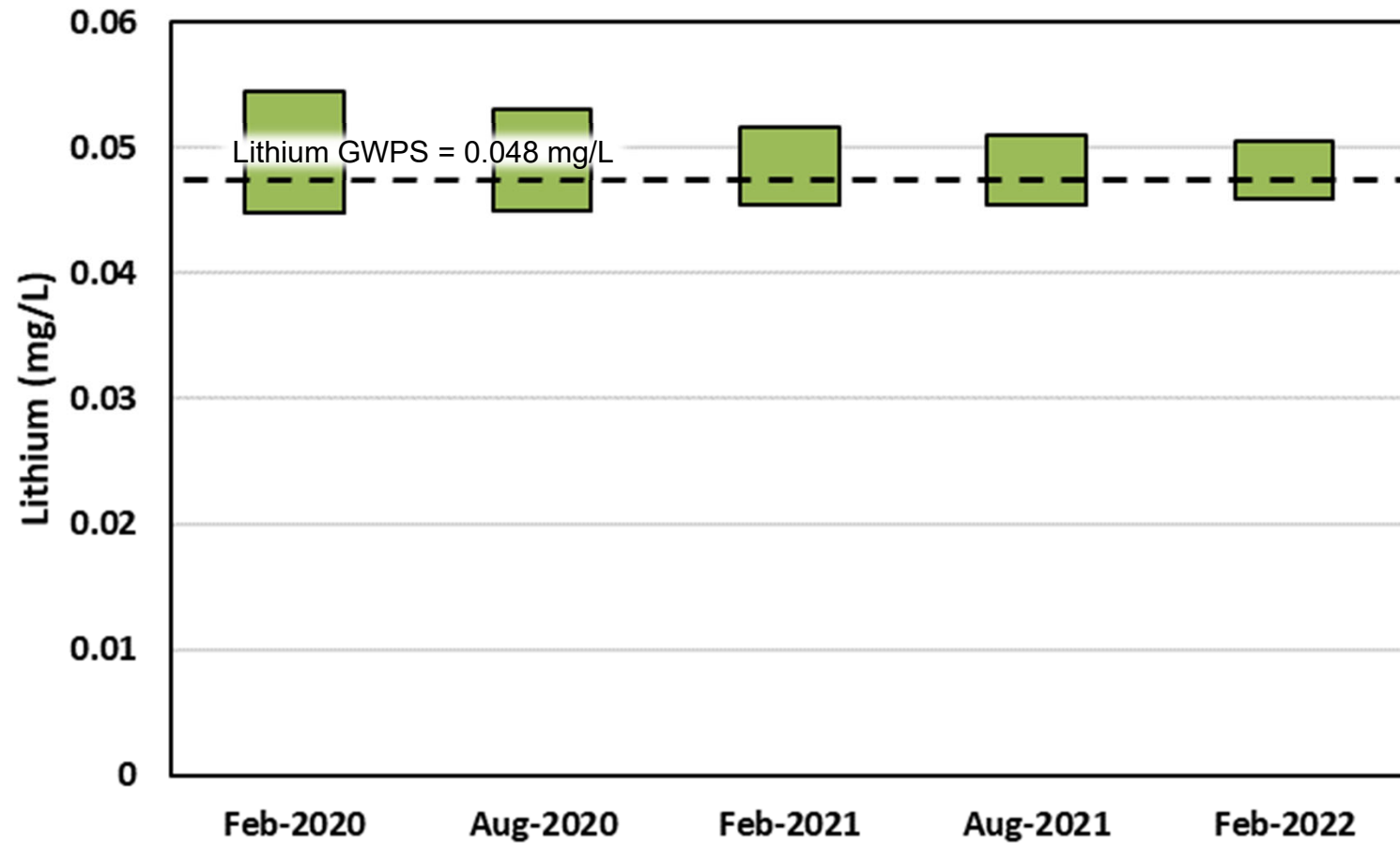
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA      AUGUST 2022

**FIGURE 2**





Notes:

1. MW-25D lithium confidence interval were previously calculated in Sanitas™ and are reported in semiannual groundwater monitoring reports.
2. The well/constituent pair is considered to exceed its GWPS only when the entire confidence interval is above the Groundwater Protection Standard (GWPS).
3. The lithium (Li) GWPS is 0.048 milligrams per liter (mg/L) based on background levels of Li and in accordance with Title 40 Code of Federal Regulations (CFR) §257.95(h). Prior to the February 2022 semiannual sampling event the Li GWPS was 0.040 mg/L.

**MW-25D LITHIUM CONFIDENCE INTERVALS**

GEORGIA POWER COMPANY  
 PLANT HAMMOND AP-1  
 FLOYD COUNTY, GEORGIA

Prepared For:

Prepared By:

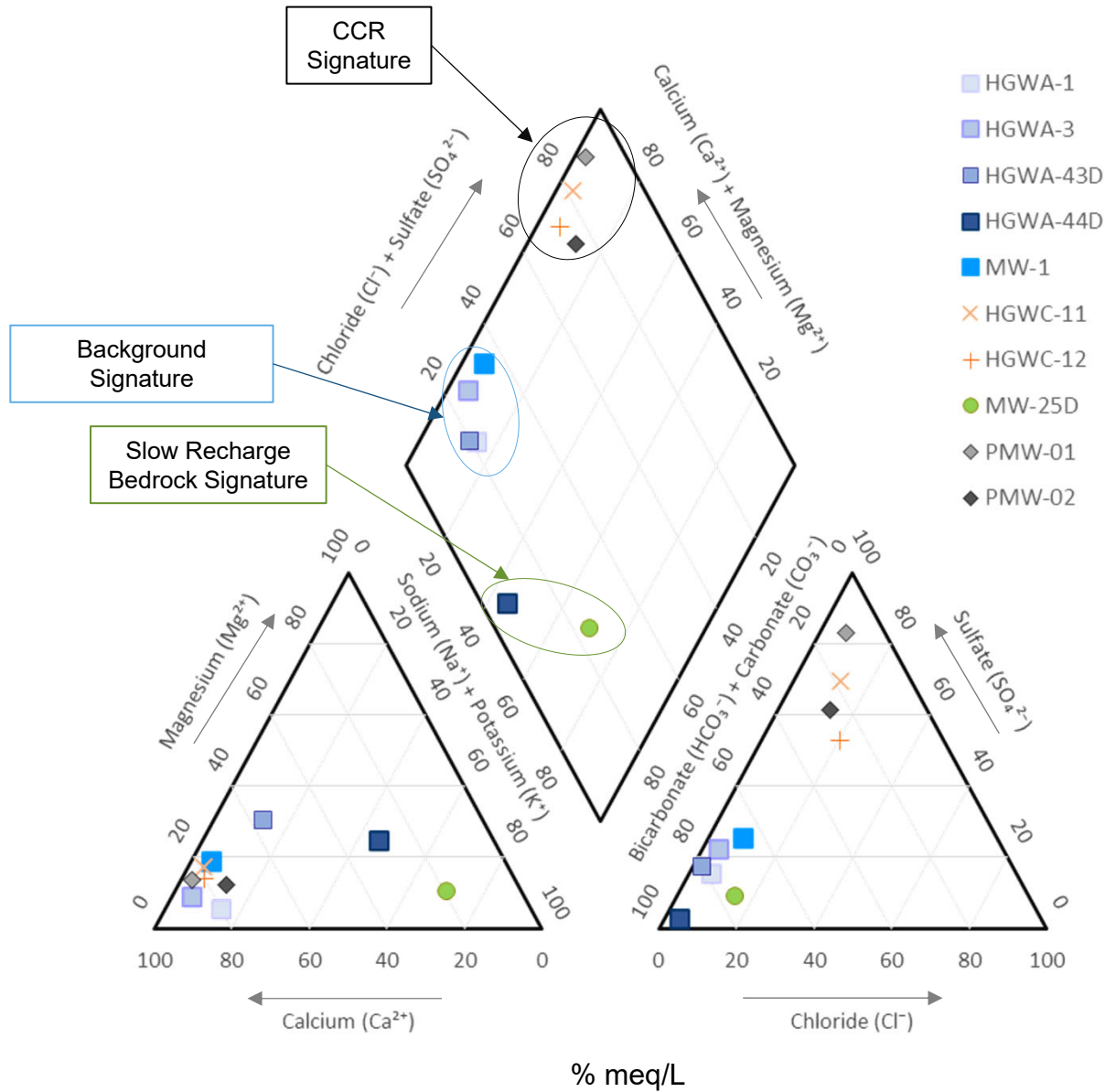


KENNESAW, GA

AUGUST 2022

**Figure**

**3**



**Notes:**

1. Sample results are shown in relative percentage of milliequivalents per liter of water (meq/L).
2. Upgradient wells are displayed in blue and Coal Combustion Residual (CCR) pore water samples are displayed in gray.
3. Groundwater samples were collected in September 2020. CCR pore water samples were collected in April 2020.

**PIPER TRILINEAR PLOT**

GEORGIA POWER COMPANY  
 PLANT HAMMOND AP-1  
 FLOYD COUNTY, GEORGIA

Prepared For:

Prepared By:

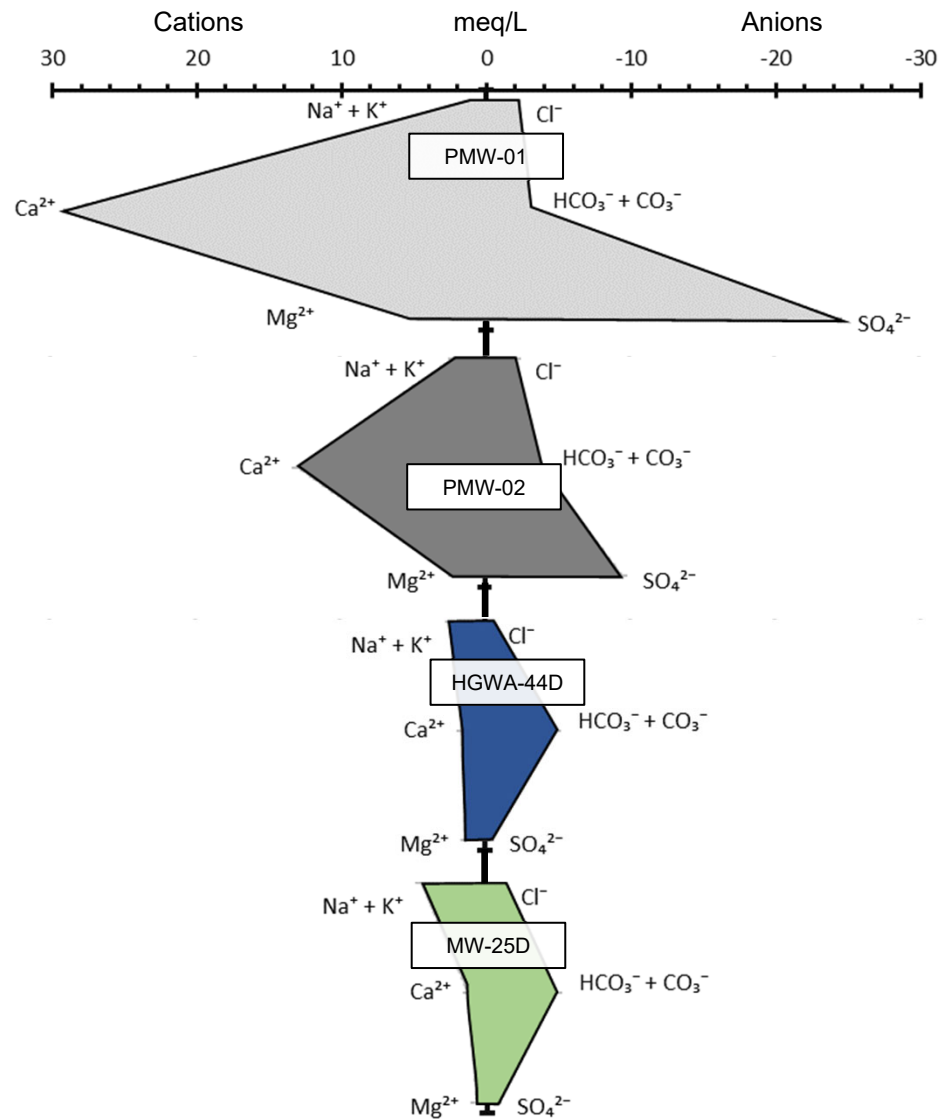


KENNESAW, GA

AUGUST 2022

**Figure**

**4**



**Notes:**

1. Sample results are shown in milliequivalents per liter of water (meq/L).
2. Groundwater samples were collected in September 2020 and Coal Combustion Residual (CCR) pore water samples were collected in April 2020.

**STIFF DIAGRAMS**

GEORGIA POWER COMPANY  
 PLANT HAMMOND AP-1  
 FLOYD COUNTY, GEORGIA

Prepared For:

Prepared By:



KENNESAW, GA

AUGUST 2022

**Figure**

**5**

APPENDIX A  
Boring and Well Construction Logs for  
HGWC-11, HGWC-12, MW-25D, and  
HGWA-44D

Log updated with revised survey certified 5/19/2020.

<b>DRILLING LOG</b>						Hole No. <b>HGWC-11</b>	
<b>GEOLOGICAL SERVICES</b>						Sheet 1 of 1	
SITE <b>Plant Hammond</b>			HOLE DEPTH <b>40'</b>	SURF.ELEV. <b>578.12</b>			
LOCATION <b>Pond 1 South</b>			COORDINATES N <b>1548477.91</b>	E <b>1941146.79</b>			
ANGLE _____	BEARING _____	CONTRACTOR <b>SCS</b>	DRILL NO. _____				
DRILLING METHOD <b>Sonic</b>		NO. SAMPLES _____	NO. U.D. SAMPLES <b>0</b>				
CASING SIZE <b>2"</b>	LENGTH _____	CORE SIZE _____	TOTAL % REC. <b>93</b>				
WATER TABLE DEPTH <b>9.5' BLS</b>		ELEV. <b>732.1' NAVD88</b>	TIME AFTER COMP. <b>10.5</b>	DATE TAKEN <b>12/15/2015</b>			
TYPE GROUT _____		QUANTITY _____	MIX _____	DRILLING START DATE <b>12/15/2015</b>			
DRILLER <b>Tommy (Casca</b>	RECORDER <b>J. Abraham</b>	APPROVED _____	DRILLING COMP. DATE <b>12/15/2015</b>				

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD
				From To	Blows	N			
0	578.12	CLAY OVERBURDEN: Dark brown to black clay with minor silt, dry, non-plastic, organic material with roots.							
1									
2									
3	575.12								
4		CLAY OVERBURDEN: Dark brown to black fat clay, dry to moist, low plasticity, blocky texture.					90		
5									
6	572.12								
7		CLAYEY SAND OVERBURDEN: Reddish brown sand, fine dry to moist, low plasticity, blocky texture.							
8	570.12								
9		CLAYEY SAND OVERBURDEN: Reddish brown sand, fine minor gravel, dry to moist, low plasticity.					90		
10									
11	567.12								
12		CLAYEY SAND OVERBURDEN: Reddish brown sand, fine minor gravel, moist, non-plastic.							
13	565.12								
14		CLAY OVERBURDEN: Orange to brown clay, saturated					85		
15									
16	562.12								
17		CLAY OVERBURDEN: Orange to brown clay, saturated trace limestone fragments; shaly limestone.							
18									
19		SHALE-LIMESTONE					85		
20									
21	567.12	END DRILLING							
22									
23									
24									

# WELL CONSTRUCTION LOG

Southern Company Generation

PROJECT: Plant Hammond	DRILLING CO.: Cascade	WELL NAME
CCB Storage Facility	DRILLER: Tommy	HGWC-11
LOCATION: AP-1	RIG TYPE: Sonic	
LOGGER: Abraham	DRILLING METHODS: Sonic	
DATE CONSTRUCTED: 12/15/2015		

	DEPTH FEET	ELEVATION FT, MSL
Locking Hinged Top 1/4-inch Vent 1/4-inch Weep Hole 6-ft x 6-ft x 4" concrete pad	TOP OF RISER	-3.08 580.67
2" Threaded Riser Cap Pea Gravel in annular space GROUND SURFACE	0.00	577.59
<b>PROTECTIVE CASING</b> SIZE: 4x4-inch TYPE: Anodized Aluminum BOTTOM OF PROTECTIVE CASING	3.00	
<b>BACKFILL MATERIAL</b> TYPE: Bentomite Grout mix AMOUNT: 2 x 50lbs <b>RISER CASING</b> DIA: 2-inch TYPE: Schedule 40 PVC JOINT TYPE: Flush Threaded		
TOP OF SEAL	8.10	569.49
<b>ANNULAR SEAL</b> TYPE: 1/4-inch coated bentonite pellets 5-gal buckets AMOUNT: 0.5 bucket PLACEMENT: Tremie TOP OF FILTER PACK	10.10	567.49
<b>FILTER PACK</b> TYPE: DSI Sand - 1A (20/30) Drillers Services, Inc. AMOUNT: 6 bags PLACEMENT: Tremie; wash with water		
BOTTOM OF RISER / TOP OF SCREEN	12.40	565.19
<b>SCREEN</b> DIA: 2-inch TYPE: Schedule 40 PVC Prepack OPENING WIDTH: 0.01-inch OPENING TYPE: Slotted SLOT SPACING: 0.25-inch SLOT LENGTH: 1.5-inch BOTTOM OF SCREEN	22.40	555.19
BOTTOM OF CASING	22.70	554.89
Auger refusal at 20.3-ft		
HOLE DIA: 9"		

▼ El. N/A  
3/2/2016



# RECORD OF BOREHOLE HGWC-12

SHEET 1 of 1

PROJECT: SCS Hammond  
 PROJECT NUMBER: 1545812  
 DRILLED DEPTH: 37.00 ft  
 LOCATION: Rome, GA

DRILL RIG: Pro Sonic 150  
 DATE STARTED: 12/8/15  
 DATE COMPLETED: 12/9/15

NORTHING: 1,548,476.53  
 EASTING: 1,941,152.34  
 GS ELEVATION: 578.14  
 TOC ELEVATION: 580.73 ft

DEPTH W.L.: 10.55' (bgs)  
 ELEVATION W.L.: (amsl)  
 DATE W.L.: 12/9/15  
 TIME W.L.: 10:22

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 1.00 CLAY/RESIDUUM; dark brown clay with trace silt, non-plastic, trace gravel, trace to some organic material, topsoil, soft, dry, W<PL	CL		577.14				Portland Type I/ Type II/ Gel mix	<b>WELL CASING</b> Interval: -3'-23' Material: Schedule 40 PVC Diameter: 6" Joint Type: Screw/Flush  <b>WELL SCREEN</b> Interval: 22.5'-32.5' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC  <b>FILTER PACK</b> Interval: 20.4'-33' Type: #1 sand/ Prepack Filter  <b>FILTER PACK SEAL</b> Interval: 18'-20.4' Type: 3/8" Bentonite Pellets  <b>ANNULUS SEAL</b> Interval: 0'-18" Type: Portland Type I/Type II/Gel Mix  <b>WELL COMPLETION</b> Pad: 4'x4'x4" Protective Casing: Anodized Aluminum  <b>DRILLING METHODS</b> Soil Drill: 6-inch diameter Sonic Rock Drill: 6-inch diameter Sonic
575		1.00 - 2.00 dark brown to black clay with trace fine to coarse sand, trace amounts of coal and rock fragments, soft, non-plastic, dry to moist, W<PL			1.00 576.14 2.00					
5		2.00 - 7.00 yellow orangish clay with trace fine sand, trace sub rounded gravel, low plasticity, stiff to very stiff, moist, W<PL			571.14 (570.83)					
570		7.00 - 8.50 CLAYEY SAND/RESIDUUM; red orange and light gray mottled clay with some fine sand, moderate to high plasticity, firm, moist, W=PL SHELBY TUBE: 7'-9"	SC		7.00 569.64		SH	2.00 2.00		
10		8.50 - 10.00 CLAYEY SAND/ALLUVIUM; red orange sand, sub rounded, fine to medium, well sorted, low to non-plastic, moist to wet, W<PL	SC		8.50 568.14					
565		10.00 - 13.00 CLAYEY SAND; blue grey sand with trace clay, trace rounded to sub rounded pebbles, fine to coarse grain, low plasticity, moist, W<PL	SC		10.00 565.14					
15		13.00 - 17.00 SAND; yellowish brown fine to coarse sand with some pea gravel, rounded to sub-rounded, loose, moist to wet	SP		13.00 561.14					
560		17.00 - 21.00 CLAY/RESIDUUM; red orange and brown mottled clay, low to medium plasticity, soft, moist, W=PL	CL-CH		17.00 557.14				3/8" Bentonite Pellets	
555		21.00 - 24.00 CLAY; dark red/orange/brown clay with trace rock fragments, soft, wet, W>PL			21.00 554.14					
25		24.00 - 27.00 BEDROCK; limestone, gravel and sand, fine to coarse, dry, non-plastic, W<PL	BR		24.00 551.14				#1 sand -  0.010" slot screen	
550		27.00 - 37.00 brownish grey limestone with calcite veins			27.00 541.14				3/8" Bentonite Pellets	
545										
540		Boring completed at 37.00 ft								
535										
45										

BOREHOLE RECORD: HAMMOND BORING LOGS.GPJ PIEDMONT.GDT 9/29/17

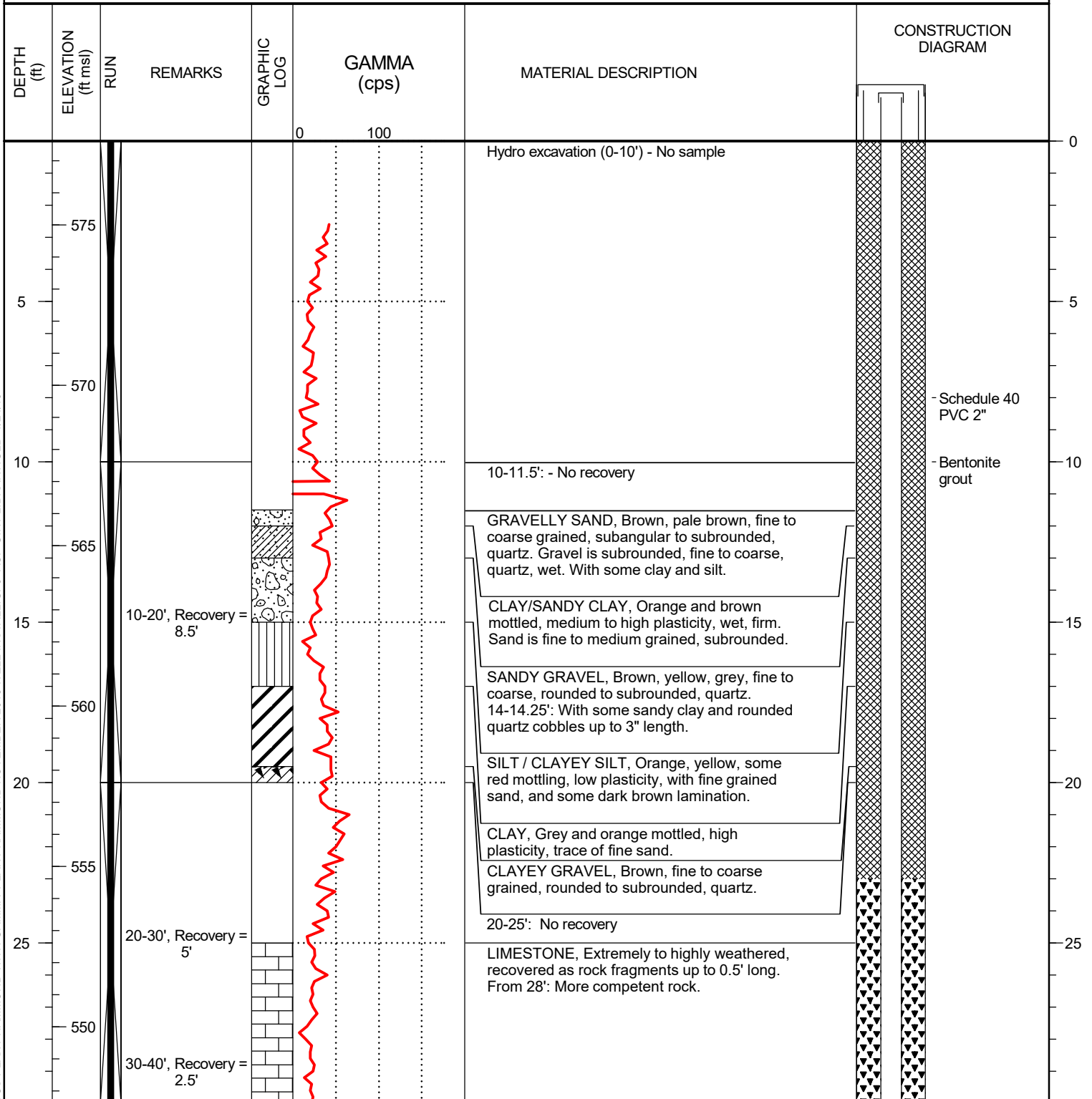
LOG SCALE: 1 in = 5.5 ft  
 DRILLING COMPANY: Cascade  
 DRILLER: Tom Ardito

Easting and Northing in NAD 1983.  
 Elevations in NAVD 1988.

GA INSPECTOR: Michael Boatman  
 CHECKED BY: Rachel P. Kirkman, P.G.  
 DATE: 9/29/17



<b>CLIENT</b> Southern Company Services	<b>PROJECT NAME</b> Plant Hammond Well Installation
<b>PROJECT NUMBER</b> GW6581B	<b>PROJECT LOCATION</b> Plant Hammond
<b>DATE STARTED</b> 11/6/18 <b>COMPLETED</b> 11/6/18	<b>NORTHING</b> 1548471.8 ft <b>EASTING</b> 1941161.62 ft
<b>DRILLER</b> Cascade Drilling	<b>GROUND ELEVATION</b> 577.61 ft <b>BORING DIAMETER</b> 6 in
<b>DRILLING METHOD</b> Sonic	<b>TOP OF CASING ELEVATION</b> 580.64 ft
<b>SAMPLING METHOD</b> 4" core 6" override	<b>GEOPHYSICAL CONTRACTOR</b> Geosyntec Consultants
<b>RIG TYPE</b> Geoprobe 8140LC	<b>LOGGED BY</b> C. Hug <b>CHECKED BY</b> J. Ivanowski



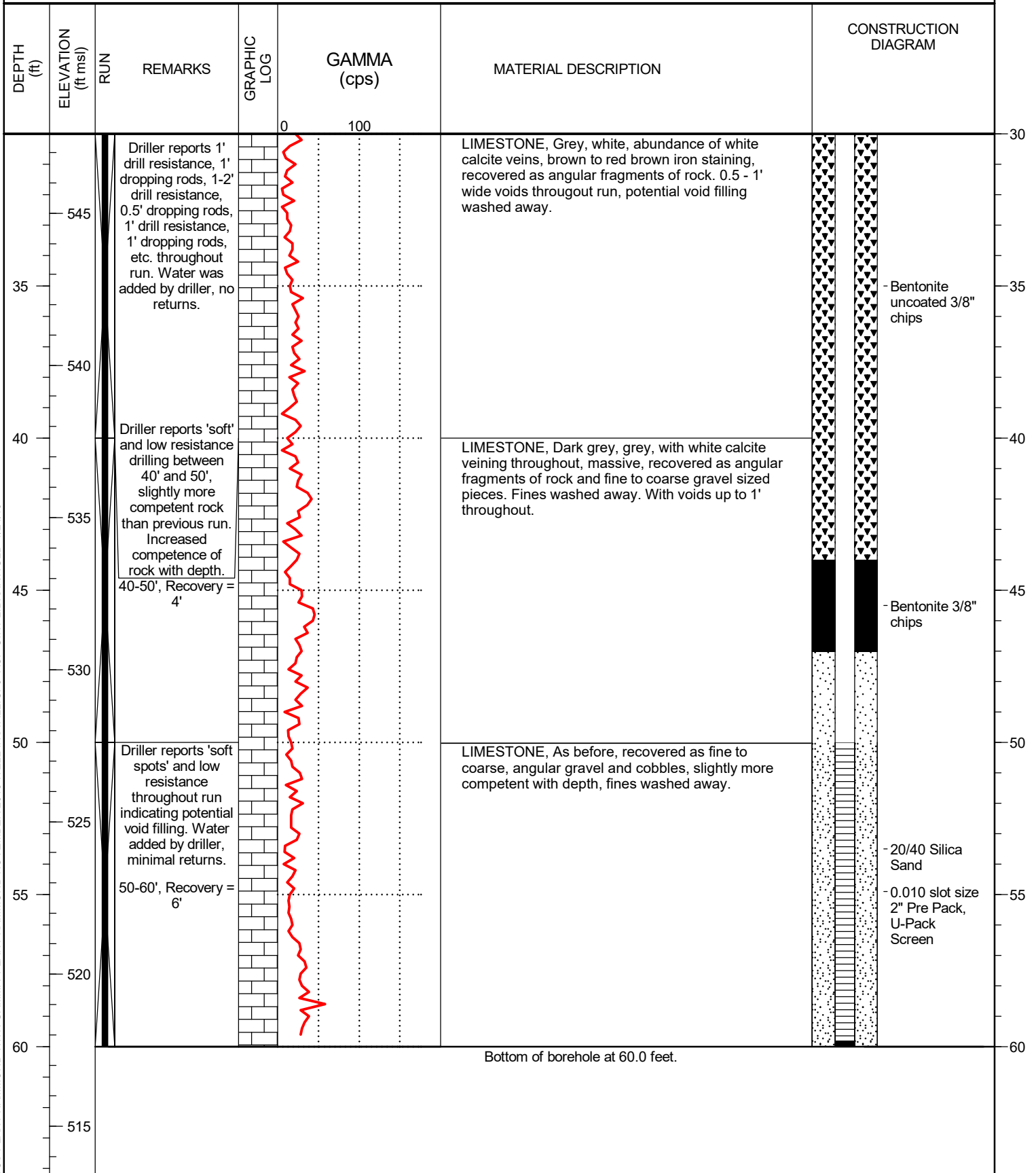
(Continued Next Page)

CLIENT Southern Company Services

PROJECT NAME Plant Hammond Well Installation

PROJECT NUMBER GW6581B

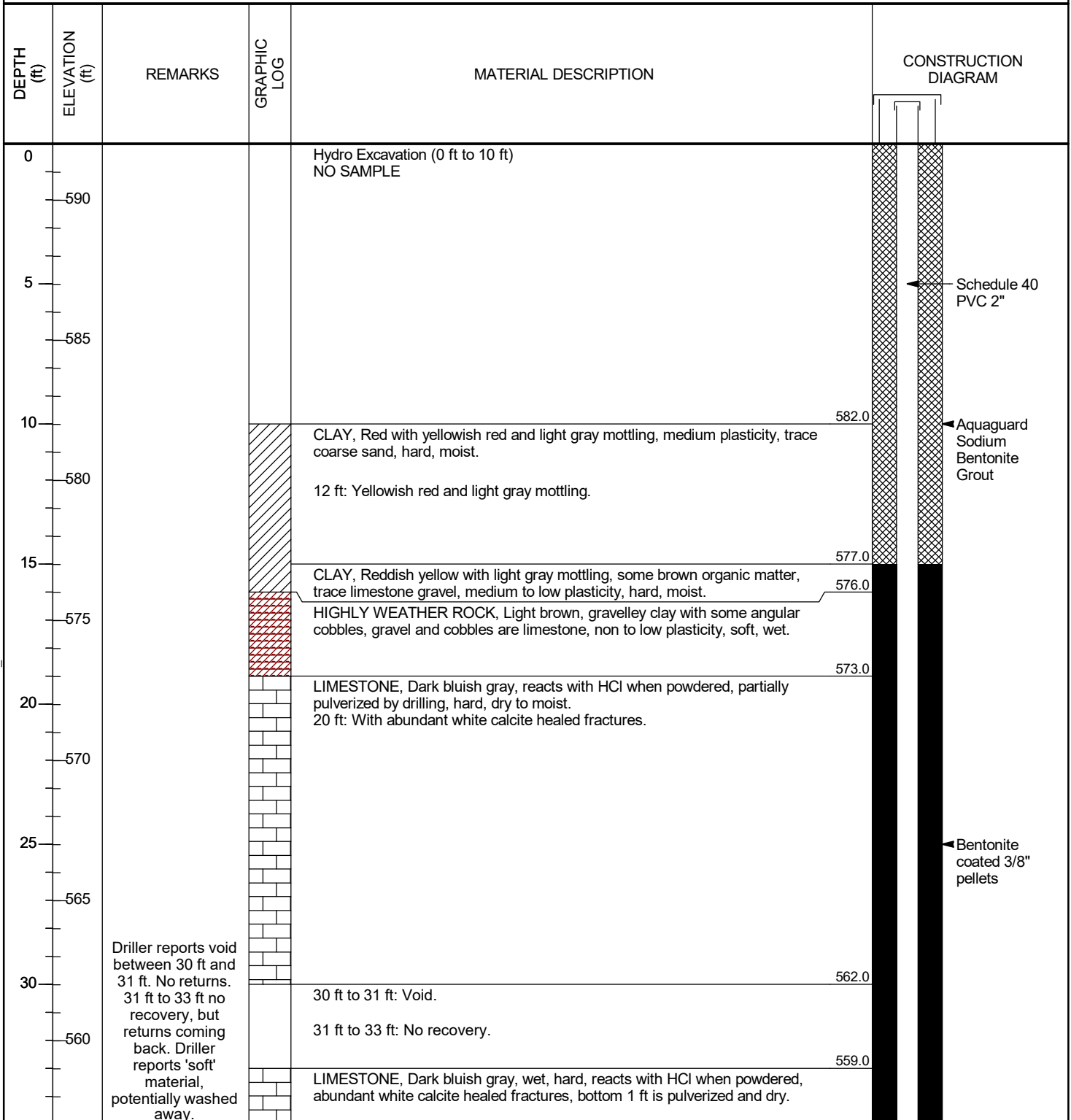
PROJECT LOCATION Plant Hammond



SCS PLANT HAMMOND WITH GAMMA PLANT HAMMOND NOVEMBER 2018 WELL INSTALL.GPJ ACP GINT LIBRARY.GLB 1/24/19

<b>CLIENT</b> Southern Company Services	<b>PROJECT NAME</b> Plant Hammond Well Installation
<b>PROJECT NUMBER</b> GW6581B	<b>PROJECT LOCATION</b> Plant Hammond
<b>DATE STARTED</b> 8/24/20	<b>COMPLETED</b> 8/25/20
<b>DRILLER</b> Cascade Drilling	<b>NORTHING</b> 1550409.13 ft
<b>DRILLING METHOD</b> Sonic	<b>EASTING</b> 1940756.18 ft
<b>SAMPLING METHOD</b> 4" core 6" override	<b>GROUND ELEVATION</b> 592.01 ft
<b>RIG TYPE</b> Terrasonic 1051181	<b>BORING DIAMETER</b> 6 in
	<b>TOP OF CASING ELEVATION</b> 594.79 ft
	<b>GEOPHYSICAL CONTRACTOR</b> ---
	<b>LOGGED BY</b> A. Ramsey
	<b>CHECKED BY</b> J. Ivanowski

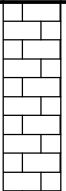

SCS MONITORING WELLS PLANT HAMMOND HGWA7 TO HGWA114 AND MW46D\_AUGUST 2020.GPJ ACP GINT LIBRARY CH GLB 9/23/20



(Continued Next Page)

**CLIENT** Southern Company Services **PROJECT NAME** Plant Hammond Well Installation  
**PROJECT NUMBER** GW6581B **PROJECT LOCATION** Plant Hammond






SCS MONITORING WELLS PLANT HAMMOND HGWA7 TO HGWA114 AND MW46D\_AUGUST 2020.GPJ ACP GINT LIBRARY.CH.GLB 9/23/20

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
35	555	40 ft: Driller reports no returns.		LIMESTONE, Dark bluish gray, wet, hard, reacts with HCl when powdered, abundant white calcite healed fractures, bottom 1 ft is pulverized and dry. (continued)	
40	552.0			40 ft to 42 ft: No recovery.	
	550.0			LIMESTONE, Dark bluish gray, wet, hard, reacts with HCl when powdered, abundant white calcite healed fractures, bottom 1 ft is pulverized by drilling.	
45	545				
	542.0			50 ft to 52 ft: No recovery.	
50	540			LIMESTONE, Dark bluish gray, wet, hard, reacts with HCl when powdered, abundant white calcite healed fractures, bottom 1 ft is pulverized by drilling.	
55	535				
	532.0			60 ft to 61 ft: No recovery.	
60	531.0			LIMESTONE, Dark bluish gray, hard, wet, bottom 1 ft pulverized by drilling, reacts with HCl when powdered, abundant white 0.1 in to 2 in thick calcite healed fractures.	
65	525				
	522.0			70 ft to 71 ft: No recovery.	
70	521.0			LIMESTONE, Dark bluish gray, hard, wet, bottom 1 ft pulverized by drilling, reacts with HCl when powdered, abundant white hite 0.1 in to 2 in thick calcite healed fractures.	

← Bentonite coated 3/8" pellets

**CLIENT** Southern Company Services      **PROJECT NAME** Plant Hammond Well Installation  
**PROJECT NUMBER** GW6581B      **PROJECT LOCATION** Plant Hammond

SCS MONITORING WELLS PLANT HAMMOND HGWA7 TO HGWA114 AND MW46D\_AUGUST 2020.GPJ ACP GINT LIBRARY CH GLB 9/23/20

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
75	515			LIMESTONE, Dark bluish gray, hard, wet, bottom 1 ft pulverized by drilling, reacts with HCl when powdered, abundant white hite 0.1 in to 2 in thick calcite healed fractures. (continued)	 <p>← Bentonite coated 3/8" pellets</p> <p>← 20/40 Silica Sand</p> <p>← 0.010 slot size 2" Pre Pack, U-Pack Screen</p> <p>Bottom of well: 110.5 ft</p>
80	512.0	80 ft to 84 ft: No recovery.			
	510				
85	508.0	LIMESTONE, Dark bluish gray, hard, wet, bottom 1 ft pulverized by drilling, reacts with HCl when powdered, abundant white 0.1 in to 2 in thick calcite healed fractures.			
	505				
90	502.0	90 ft to 94 ft: No recovery.			
	500				
95	498.0	LIMESTONE, Dark bluish gray, hard, wet, bottom 1 ft pulverized by drilling, reacts with HCl when powdered, abundant white 0.1 in to 2 in thick calcite healed fractures.			
	495				
100	492.0	100 ft to 102 ft: No recovery.			
	490				
105	490.0	LIMESTONE, Dark bluish gray, hard, wet, bottom 1 ft pulverized by drilling, reacts with HCl when powdered, abundant white 0.1 in to 2 in thick calcite healed fractures.			
	485				
110	480.0				

Bottom of borehole at 112.0 feet.

Easting and Northing in NAD 1983.  
Elevation in NAVD 1988.

**APPENDIX B**  
**February 2022 Field Purge Logs for**  
**HGWA-1, HGWA-2, HGWA-3,**  
**HGWA-43D, HGWA-44D, HGWC-11,**  
**HGWC-12, and MW-25D**

# Low-Flow Test Report:

Test Date / Time: 2/1/2022 11:33:37 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

<b>Location Name: HGWA-1</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 22.50 ft</b> <b>Total Depth: 32.50 ft</b> <b>Initial Depth to Water: 13.42 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 27.50 ft</b> <b>Estimated Total Volume Pumped: 7.5 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.52 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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

<b>Location Name: HGWA-2</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 17.95 ft</b> <b>Total Depth: 27.95 ft</b> <b>Initial Depth to Water: 8.27 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 22.95 ft</b> <b>Estimated Total Volume Pumped: 14 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.14 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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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

<b>Location Name: HGWA-3</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 34.87 ft</b> <b>Total Depth: 44.87 ft</b> <b>Initial Depth to Water: 7.86 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 39.87 ft</b> <b>Estimated Total Volume Pumped: 8 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.02 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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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

<b>Location Name: HGWA-43D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 51.25 ft</b> <b>Total Depth: 61.25 ft</b> <b>Initial Depth to Water: 13.34 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 56.25 ft</b> <b>Estimated Total Volume Pumped: 9 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 3.19 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 843593</b>
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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

<b>Location Name: HGWA-44D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 103.28 ft</b> <b>Total Depth: 113.28 ft</b> <b>Initial Depth to Water: 13.34 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 108.28 ft</b> <b>Estimated Total Volume Pumped: 26 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min Final Draw Down: 1.20 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 728634</b>
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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: 2/9/2022 9:27:10 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

<b>Location Name: HGWC-11</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 15.78 ft</b> <b>Total Depth: 25.78 ft</b> <b>Initial Depth to Water: 10.19 ft</b>	<b>Pump Type: Peristaltic</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 20.78 ft</b> <b>Estimated Total Volume Pumped: 7 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.14 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
--	--	--

## Test Notes:

Five bottles: Full app. III and IV.

## Weather Conditions:

Sunny, 27 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 9:27 AM	00:00	6.72 pH	13.76 °C	879.81 µS/cm	0.77 mg/L	1.63 NTU	126.5 mV	10.29 ft	200.00 ml/min
2/9/2022 9:32 AM	05:00	6.55 pH	15.96 °C	856.08 µS/cm	0.59 mg/L	2.06 NTU	73.7 mV	10.31 ft	200.00 ml/min
2/9/2022 9:37 AM	10:00	6.55 pH	16.43 °C	850.26 µS/cm	0.55 mg/L	1.63 NTU	60.4 mV	10.32 ft	200.00 ml/min
2/9/2022 9:42 AM	15:00	6.56 pH	16.29 °C	851.32 µS/cm	0.41 mg/L	1.75 NTU	54.3 mV	10.32 ft	200.00 ml/min
2/9/2022 9:47 AM	20:00	6.55 pH	16.47 °C	851.41 µS/cm	0.39 mg/L	1.31 NTU	51.9 mV	10.32 ft	200.00 ml/min
2/9/2022 9:52 AM	25:00	6.55 pH	16.78 °C	853.52 µS/cm	0.50 mg/L	1.26 NTU	49.7 mV	10.33 ft	200.00 ml/min
2/9/2022 9:57 AM	30:00	6.55 pH	16.74 °C	847.06 µS/cm	0.52 mg/L	1.06 NTU	73.7 mV	10.33 ft	200.00 ml/min

## Samples

Sample ID:	Description:
HGWC-11	Grab sample.



# Low-Flow Test Report:

Test Date / Time: 2/9/2022 10:43:23 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

<b>Location Name: HGWC-12</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 25.68 ft</b> <b>Total Depth: 35.68 ft</b> <b>Initial Depth to Water: 10.51 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 30.68ft</b> <b>Estimated Total Volume Pumped: 11 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 200 ml/min</b> <b>Final Draw Down: 0.05 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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## Test Notes:

Five bottles: Full app. III and IV.

## Weather Conditions:

Sunny, 48 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 10:43 AM	00:00	7.25 pH	17.89 °C	987.40 µS/cm	1.75 mg/L	16.40 NTU	20.9 mV	10.55 ft	200.00 ml/min
2/9/2022 10:48 AM	05:00	7.24 pH	18.25 °C	1,002.5 µS/cm	1.21 mg/L	15.90 NTU	9.0 mV	10.55 ft	200.00 ml/min
2/9/2022 10:53 AM	10:00	7.20 pH	18.25 °C	990.38 µS/cm	0.87 mg/L	12.00 NTU	6.0 mV	10.55 ft	200.00 ml/min
2/9/2022 10:58 AM	15:00	7.24 pH	18.16 °C	1,001.1 µS/cm	0.81 mg/L	7.25 NTU	5.5 mV	10.55 ft	200.00 ml/min
2/9/2022 11:03 AM	20:00	7.24 pH	18.29 °C	1,054.4 µS/cm	0.88 mg/L	4.07 NTU	4.0 mV	10.55 ft	200.00 ml/min
2/9/2022 11:08 AM	25:00	7.24 pH	18.39 °C	1,003.6 µS/cm	0.97 mg/L	4.01 NTU	5.0 mV	10.55 ft	200.00 ml/min
2/9/2022 11:13 AM	30:00	7.22 pH	18.37 °C	880.88 µS/cm	0.81 mg/L	1.33 NTU	7.5 mV	10.55 ft	200.00 ml/min
2/9/2022 11:18 AM	35:00	7.25 pH	18.36 °C	897.26 µS/cm	0.77 mg/L	0.68 NTU	3.9 mV	10.55 ft	200.00 ml/min
2/9/2022 11:23 AM	40:00	7.24 pH	18.39 °C	998.46 µS/cm	0.84 mg/L	0.53 NTU	4.0 mV	10.55 ft	200.00 ml/min
2/9/2022 11:28 AM	45:00	7.24 pH	18.43 °C	997.19 µS/cm	0.72 mg/L	0.46 NTU	4.4 mV	10.56 ft	200.00 ml/min
2/9/2022 11:33 AM	50:00	7.23 pH	18.39 °C	997.88 µS/cm	0.78 mg/L	0.48 NTU	4.7 mV	10.56 ft	200.00 ml/min

## Samples

# Low-Flow Test Report:

Test Date / Time: 2/9/2022 1:20:34 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

<b>Location Name: MW-25D</b> <b>Well Diameter: 2 in</b> <b>Casing Type: PVC</b> <b>Screen Length: 10 ft</b> <b>Top of Screen: 53.03 ft</b> <b>Total Depth: 63.03 ft</b> <b>Initial Depth to Water: 10.4 ft</b>	<b>Pump Type: Bladder</b> <b>Tubing Type: Poly</b> <b>Pump Intake From TOC: 58.03 ft</b> <b>Estimated Total Volume Pumped: 6 liter</b> <b>Flow Cell Volume: 90 ml</b> <b>Final Flow Rate: 100 ml/min</b> <b>Final Draw Down: 4.62 ft</b>	<b>Instrument Used: Aqua TROLL 400</b> <b>Serial Number: 850724</b>
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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	
2/9/2022 1:20 PM	00:00	7.69 pH	19.41 °C	602.23 µS/cm	1.18 mg/L	1.21 NTU	-131.0 mV	10.99 ft	200.00 ml/min
2/9/2022 1:25 PM	05:00	7.73 pH	18.41 °C	624.43 µS/cm	0.94 mg/L	2.01 NTU	-147.4 mV	12.68 ft	200.00 ml/min
2/9/2022 1:30 PM	10:00	7.78 pH	18.64 °C	638.18 µS/cm	0.73 mg/L	1.60 NTU	-156.7 mV	13.78 ft	200.00 ml/min
2/9/2022 1:35 PM	15:00	7.79 pH	18.56 °C	622.08 µS/cm	0.90 mg/L	1.89 NTU	-161.4 mV	14.75 ft	200.00 ml/min
2/9/2022 1:40 PM	20:00	7.80 pH	18.54 °C	619.05 µS/cm	0.83 mg/L	1.32 NTU	-162.2 mV	14.96 ft	100.00 ml/min
2/9/2022 1:45 PM	25:00	7.80 pH	18.54 °C	621.19 µS/cm	1.02 mg/L	1.14 NTU	-163.3 mV	15.00 ft	100.00 ml/min
2/9/2022 1:50 PM	30:00	7.80 pH	18.59 °C	620.65 µS/cm	1.05 mg/L	0.96 NTU	-164.8 mV	15.02 ft	100.00 ml/min
2/9/2022 1:55 PM	35:00	7.82 pH	18.92 °C	616.93 µS/cm	0.99 mg/L	0.99 NTU	-165.6 mV	15.02 ft	100.00 ml/min

## Samples

Sample ID:	Description:
MW-25D	Grab sample.

# 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](http://www.edrnet.com)

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***Thank you for your business.***  
Please contact EDR at 1-800-352-0050  
with any questions or comments.

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# GEOCHECK® - PHYSICAL SETTING SOURCE REPORT

## TARGET PROPERTY ADDRESS

PLANT 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).

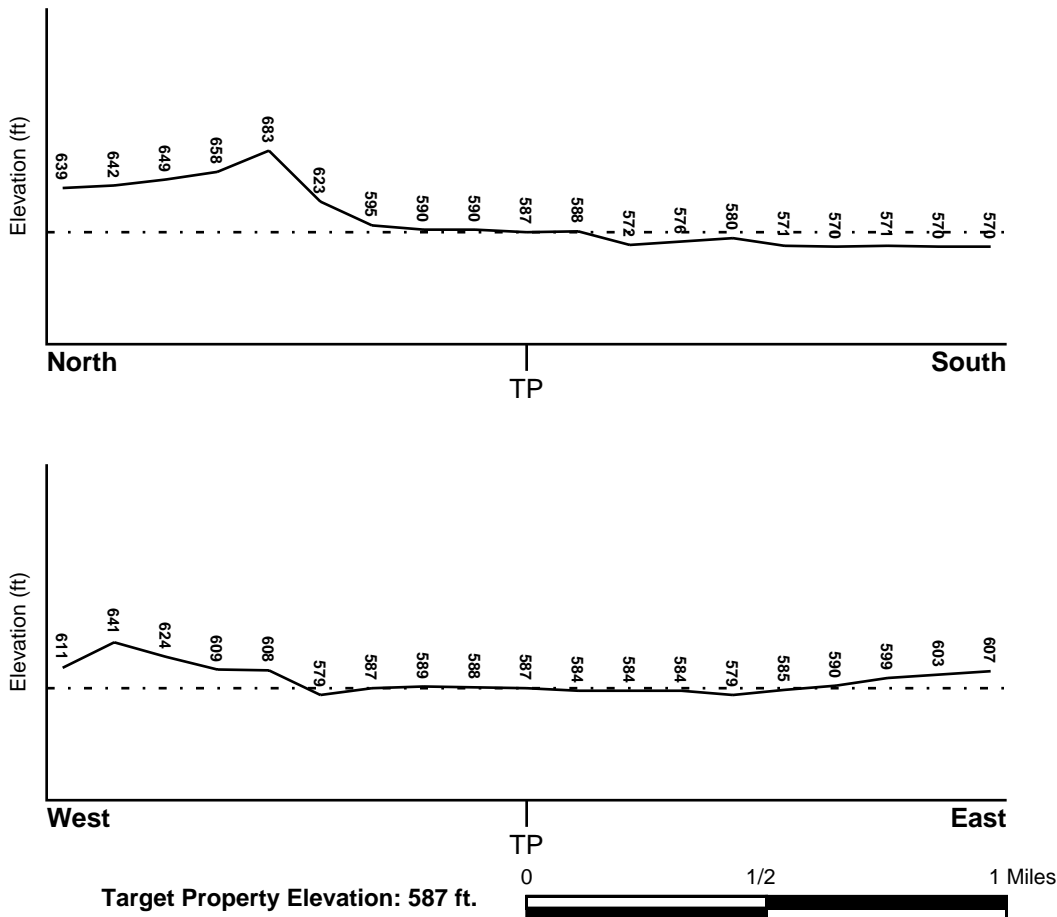
## TOPOGRAPHIC INFORMATION

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**

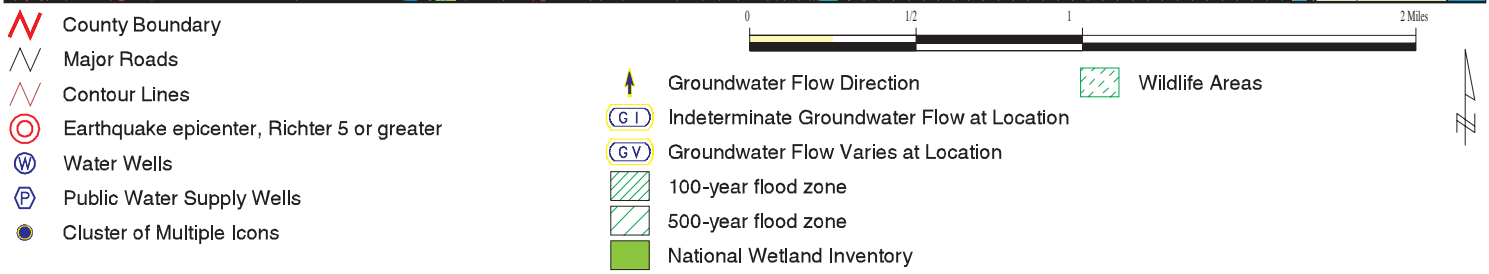
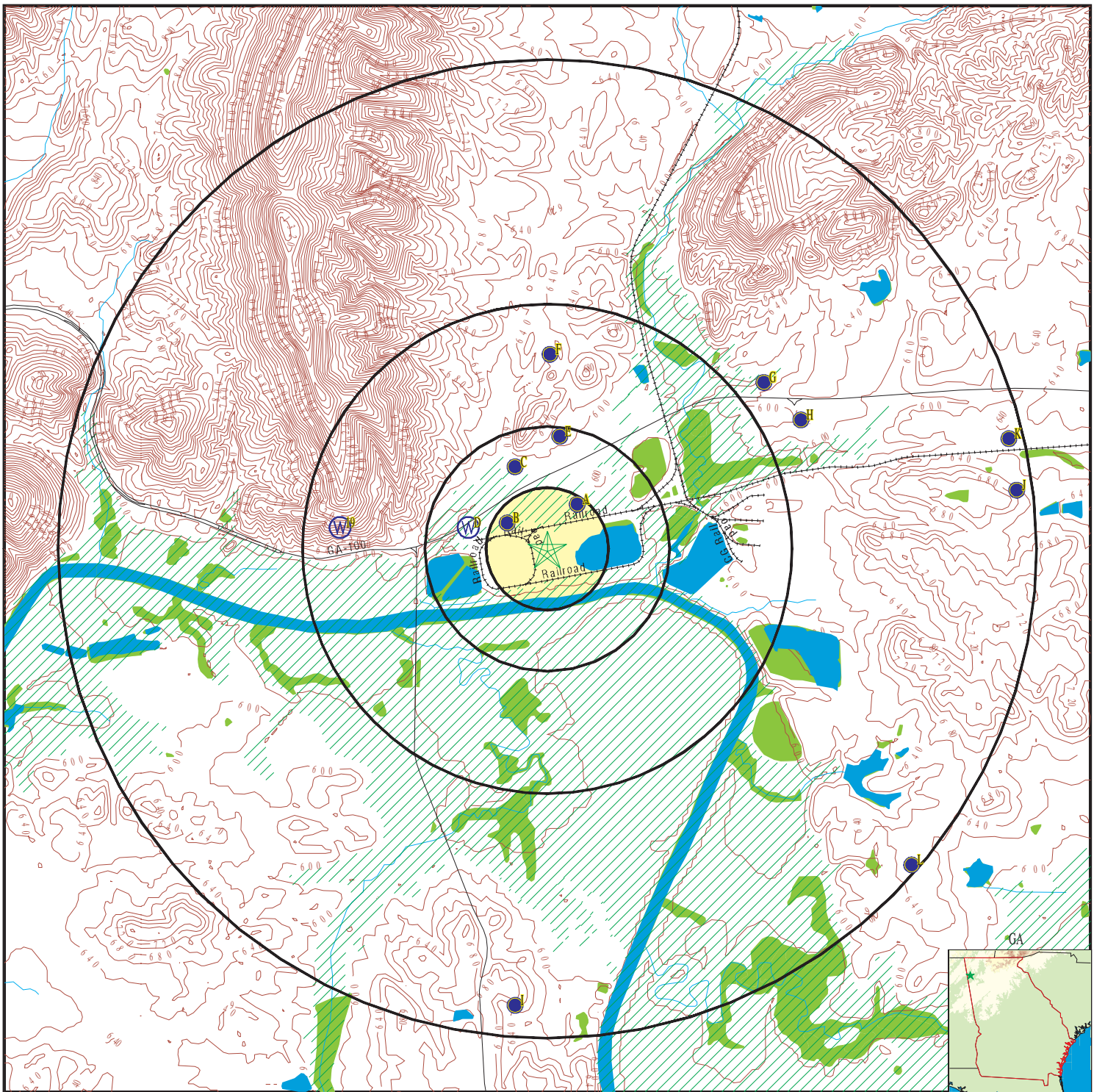
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	0000004172	1/8 - 1/4 Mile NNE
B4	0000004171	1/8 - 1/4 Mile WNW
A6	0000004173	1/4 - 1/2 Mile NE
C8	0000004175	1/4 - 1/2 Mile NNW
D9	0000004168	1/4 - 1/2 Mile WNW
D10	0000004169	1/4 - 1/2 Mile WNW
C11	0000004177	1/4 - 1/2 Mile NNW
E14	0000004181	1/4 - 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      000004181**

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:	000004181

**E15**  
**NNE**  
**1/4 - 1/2 Mile**  
**Higher**

**GA WELLS      000004179**

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:	000004179

**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>% &lt;4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% &gt;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<sup>R</sup> 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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