



Prepared for

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

2022 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT HAMMOND ASH POND 3 (AP-3)

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581D

February 2023

CERTIFICATION STATEMENT

This 2022 Semiannual Groundwater Monitoring and Corrective Action Report, Plant Hammond – Ash Pond 3 (AP-3) 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 40 CFR § 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. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g).



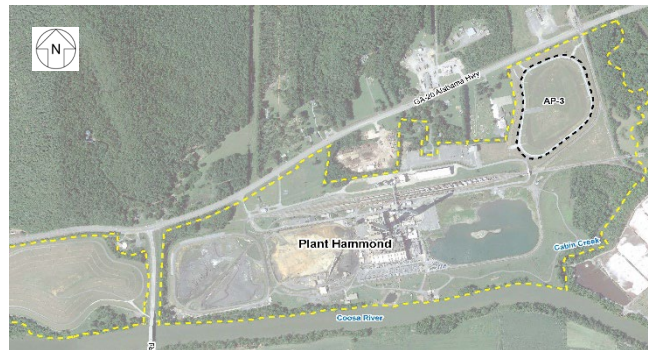
Whitney B. Law
Georgia Professional Engineer No. 36641

February 28, 2023
Date

SUMMARY

This summary of the *2022 Semiannual Groundwater Monitoring and Corrective Action Report* provides the status of groundwater monitoring and corrective action program for the reporting period of July through December 2022 (referred herein as the reporting period) at the Georgia Power Company (Georgia Power) Plant Hammond Ash Pond 3 (AP-3) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Hammond is located at 5963 Alabama Highway SW, approximately 10 miles west of Rome in Floyd County, Georgia. AP-3 is located on the northeastern corner of the Plant Hammond property. In the early 1980's, AP-3 was converted into a dry ash disposal area and in the early 1990's the pond stopped receiving CCR materials. Final capping of the pond with a low-permeability cover system was completed in the second quarter of 2018.



Plant Hammond and the Site

Groundwater at the Site is monitored using a comprehensive monitoring network that meets federal and state monitoring requirements. Groundwater monitoring-related activities have been performed at AP-3 since August 2016. During the reporting period, Geosyntec conducted one groundwater sampling event in August 2022. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Groundwater data for this event were evaluated in accordance with the certified statistical methods. Statistically significant increases of Appendix III² constituents above background were

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

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

observed in select monitoring wells following the August 2022 event, as summarized in the table below.

| <i>Appendix III Constituent²</i> | <i>August 2022</i> |
|---|---|
| Boron | HGWC-120, HGWC-121A, HGWC-125 |
| Calcium | HGWC-120, HGWC-121A, HGWC-125, HGWC-126 |
| Sulfate | HGWC-120, HGWC-121A, HGWC-125 |
| Total dissolved solids | HGWC-121A, HGWC-125 |

No statistically significant levels (SSLs) were identified for Appendix IV groundwater data from the August 2022 event³.

Groundwater at AP-3 will continue to be managed under the assessment monitoring program. 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.

³ Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228. A federal SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent’s maximum contaminant level (MCL), if available, the USEPA Rule Specified Level, if no MCL is available, or the calculated background interwell tolerance limit.

TABLE OF CONTENTS

SUMMARY..... ii

1.0 INTRODUCTION 1

 1.1 Site Description and Background 1

 1.2 Regional Geology and Hydrogeologic Setting 2

 1.2.1 Regional and Site Geology 2

 1.2.2 Hydrogeologic Setting 3

 1.3 Groundwater Monitoring Well Network 3

2.0 GROUNDWATER MONITORING ACTIVITIES 5

 2.1 Monitoring Well Installation and Maintenance 5

 2.2 Assessment Monitoring 5

 2.3 Additional Groundwater and Surface Water Evaluations 5

3.0 SAMPLING METHODOLOGY AND ANALYSES 7

 3.1 Groundwater and Surface Water Level Measurement 7

 3.2 Groundwater Gradient and Flow Velocity 7

 3.3 Groundwater Sampling Procedures 9

 3.4 Laboratory Analyses 10

 3.5 Quality Assurance and Quality Control Summary 10

4.0 STATISTICAL ANALYSIS 11

 4.1 Statistical Methods 11

 4.1.1 Appendix III Statistical Methods 11

 4.1.2 Appendix IV Statistical Methods 12

 4.2 Statistical Analyses Results 13

5.0 MONITORING PROGRAM STATUS 14

6.0 CONCLUSIONS AND FUTURE ACTIONS 15

7.0 REFERENCES 16

LIST OF TABLES

| | |
|---------|---|
| Table 1 | Monitoring Well Network Summary |
| Table 2 | Groundwater Sampling Event Summary |
| Table 3 | Summary of Groundwater and Surface Water Elevations |
| Table 4 | Horizontal Groundwater Gradient and Flow Velocity Calculations |
| Table 5 | Summary of Semiannual Groundwater Analytical Data |
| Table 6 | Summary of Geochemical Analytical Data |
| Table 7 | Summary of Background Concentrations and Groundwater Protection Standards |

LIST OF FIGURES

| | |
|----------|---|
| Figure 1 | Site Location Map |
| Figure 2 | Monitoring Well Network and Sampling Location Map |
| Figure 3 | Potentiometric Surface Contour Map – August 2022 |

LIST OF APPENDICES

| | |
|------------|--|
| Appendix A | Well Maintenance and Repair Documentation Memorandum |
| Appendix B | Laboratory Analytical and Field Sampling Reports |
| Appendix C | Statistical Analysis Report |

LIST OF ACRONYMS AND ABBREVIATIONS

| | |
|------------------|--|
| ACM | assessment of corrective measures |
| AP-3 | Ash Pond 3 |
| CCR | coal combustion residuals |
| CFR | Code of Federal Regulations |
| cm/sec | centimeters per second |
| DO | dissolved oxygen |
| ft/day | feet per day |
| ft/ft | feet per foot |
| 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 |
| HDPE | high density polyethylene |
| 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 |
| TDS | total dissolved solids |
| 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 (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 Semiannual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Hammond (Site) Ash Pond 3 (AP-3) for the reporting period of July 2022 through December 2022 (referred herein as the reporting period). This report includes the results of the semiannual assessment monitoring event conducted in August 2022.

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 rules are cited within this report, in lieu of citing both sets of regulations.

AP-3 ceased receiving waste prior to the effective date of the federal CCR Rule promulgated in April 2015. A notification of intent to initiate closure of the inactive CCR surface impoundment was certified on December 7, 2015 and posted to Georgia Power's website. Groundwater monitoring and reporting for AP-3 are being completed in accordance with the alternate schedule in § 257.100(e)(5) of the revised federal CCR Rule (August 5, 2016). Pursuant to § 257.96(b), Georgia Power monitors groundwater associated with AP-3 in accordance with the assessment monitoring program established for the unit in 2019, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the federal CCR Rule.

1.1 Site Description and Background

Plant Hammond is located in Floyd County, Georgia, approximately 10 miles west of Rome and is bordered by Georgia Highway 20 (GA-20) on the north, the Coosa River on the south, Cabin Creek and industrial land on the east, and sparsely populated, forested, rural and industrial land on the west (**Figure 1**). The physical address of the plant is 5963 Alabama Highway, Rome, Georgia, 30165.

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

AP-3 is a 25-acre former ash pond that was constructed in 1973 and 1974. Ash sluicing and placement operations at AP-3 commenced in June 1977. In the early 1980's, AP-3 was converted into a dry ash disposal area, and in the early 1990's, the pond stopped receiving CCR materials.

Closure of AP-3 commenced in 2016. As part of closure, AP-3 was dewatered sufficiently to remove the free liquids. The CCR material remaining in AP-3 was graded, and a final cover system installed. The final cover system consists of a 60-millimeter-high density polyethylene (HDPE) liner, geocomposite drainage media, a minimum 18-inch-thick protective soil cover, and a 6-inch-thick vegetative layer. The final cover system was designed to limit infiltration of precipitation with low permeability materials and is graded to promote positive drainage and shed stormwater away from AP-3 via riprap drainage ditches toward three outfall locations around AP-3. Final capping of the unit was completed in the second quarter of 2018.

1.2 Regional Geology and Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-3 as described in the *Hydrogeologic Assessment Report (Revision 01) – Plant Hammond Ash Pond 3 (AP-3)* (HAR Rev 01) submitted to GA EPD in support of the AP-3 closure permit application (Geosyntec, 2020).

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-3 is underlain by the middle units of the Cambrian age Conasauga Formation, consisting of mostly shaley limestone. Based on review of site-specific subsurface investigations, the bedrock at AP-3 was identified as limestone or shaley limestone. AP-3 is underlain primarily by five units: (i) fill material; (ii) terrace alluvium; (iii) residuum; (iv) highly weathered/fractured limestone bedrock; and (v) unweathered limestone bedrock.

Based on subsurface investigations, the fill is composed of lean clay or gravelly lean clay with sand, sometimes identified by the presence of wood or roots. The terrace alluvium consists of unconsolidated sediments with high sand and gravel content associated with deposition from the Coosa River and Cabin Creek. Residual or native soils have been derived from the in-place weathering of the shaley limestone bedrock. The residuum is generally described as fat clay with typically only trace amounts of sand, and rarely gravel. 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 limestone, before grading into unweathered, fresh limestone. 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 5 feet thick. Most of the limestone is described as medium to dark gray with a slabby or flaggy habit when broken in pieces by the sonic drilling. The limestone is 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-3 is a regional groundwater aquifer that occurs within the 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. Flow direction within the area of AP-3 is generally from west to east.

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-3 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 unit (i.e., background conditions) and passing the waste boundary of the unit. The number, spacing, and depths of the groundwater monitoring

wells were selected based on the characterization of site-specific hydrogeologic conditions.

The current on-site network of piezometers is used to gauge water levels to define groundwater flow direction and gradients. The locations of the detection monitoring wells and piezometers associated with AP-3 are shown on **Figure 2**; well construction details are listed in **Table 1**.

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with § 257.90(e), the following describes groundwater monitoring-related activities performed during the 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 or piezometers were installed during this 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 August 2022, the networks were inspected and necessary corrective actions were identified and subsequently completed, as documented in **Appendix A**. This documentation was prepared 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-3 in August 2019. No SSLs of Appendix IV constituents were identified during the current reporting period. Groundwater at AP-3 will continue to be managed under the assessment monitoring program stipulated by § 257.95.

For the current reporting period, one semiannual assessment monitoring event was conducted in August 2022. The number of groundwater samples collected for analysis and the dates the samples were collected at AP-3 during the reporting period are summarized in **Table 2**. Details of these events and analytical results are discussed in Section 3, while the statistical results are discussed in Section 4.

2.3 Additional Groundwater and Surface Water Evaluations

Supplemental groundwater samples were collected from the entire AP-3 detection monitoring well network 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, as necessary, the geochemical

composition of the groundwater at the Site. The laboratory reports associated with the data are provided in **Appendix B**.

In response to GA EPD comments received on January 26, 2021, Georgia Power added three surface water sampling locations to the stormwater outfalls at AP-3. Upon issuance of the Hammond AP-3 solid waste permit, these locations will be sampled semiannually for the full Appendix IV constituent list.

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-3 during the reporting period.

3.1 Groundwater and Surface Water Level Measurement

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

Surface water elevations were recorded from two surveyed gauging points located along Cabin Creek east of AP-3, as shown on **Figure 2**. One gauging location, referenced in **Table 3** as “Cabin Creek (Hwy 20)”, is located midway across the bridge along GA-20 Alabama Highway spanning Cabin Creek. The second Cabin Creek gauging location is along the railroad bridge southeast of AP-3; this location is referred to in **Table 3** as “Cabin Creek (Railroad Bridge)”.

The groundwater and surface water elevation data presented in **Table 3** were used to prepare a potentiometric surface contour map for the August 2022 event, which is presented on **Figure 3**. Groundwater in the AP-3 area flows under the influence of topography from slightly higher ground surface elevations on the western side of the Site toward lower elevations to the east of AP-3. The flow direction is consistent with previous observations for AP-3.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradient within the uppermost aquifer beneath AP-3 was calculated using the groundwater elevation data from the August 2022 semiannual sampling event. The hydraulic gradient is commonly calculated along the groundwater flow path perpendicular to groundwater elevation contours. Ideally, this flow path originates and concludes with groundwater elevations reported for two wells, but this may not be feasible and still remain perpendicular to the contours. The hydraulic gradient in this report has been calculated between an upgradient and downgradient well pair selected to provide the most accurate alignment possible relative to the interpreted

groundwater flow path (i.e., between HGWA-45D and MW-32). The hydraulic gradient calculation is presented in **Table 4**. The general trajectory of the flow path for the August 2022 semiannual sampling event is shown on **Figure 3**. The average hydraulic gradient for this reporting period across AP-3 is 0.0090 feet per foot (ft/ft).

The approximate horizontal flow velocity associated with AP-3 groundwater was calculated using the following derivative of Darcy's Law. The calculation is provided in **Table 4**.

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

where:

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

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

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

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = distance between location 1 and 2

n_e = Effective porosity

Aquifer testing was conducted by LETCO in 1977, Southern Company Services in 2014, and Geosyntec in 2017 to evaluate horizontal hydraulic conductivity (K_h) of the water bearing units in the vicinity of AP-3. Slug testing was performed to estimate the K_h for units above the top of bedrock, while single packer testing was used to estimate the K_h for the bedrock intervals. Additional details are presented in the HAR Rev 01 (Geosyntec, 2020).

The groundwater flow velocity calculation was performed using the geometric mean value for K_h of the highly weathered/fractured rock of 9.8×10^{-4} centimeters per second (cm/sec) or 2.76 feet per day (ft/day). An estimated effective porosity (n_e) of 0.15 is used to represent average lithologic conditions at AP-3, derived based on review of literature, observed site lithology, and professional judgement. With these variables assigned, and

accounting for the hydraulic gradient discussed above, the horizontal groundwater flow velocity underneath AP-3 for this reporting period was calculated to be 0.17 ft/day.

3.3 Groundwater Sampling Procedures

Groundwater samples were collected using low-flow sampling procedures in accordance with § 257.93(a). Purging and sampling was performed using dedicated bladder pumps with dedicated tubing, non-dedicated bladder pumps, or peristaltic pumps. For wells sampled with non-dedicated bladder 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 samples were collected using new disposable polyethylene tubing; all non-dedicated tubing was disposed of following the sampling event. All non-disposable equipment was decontaminated before use and between well locations.

An in-situ water quality field meter (Aqua TROLL 400) was used to monitor and record field water quality parameters [i.e., pH, conductivity, dissolved oxygen (DO), temperature, and oxidation reduction potential (ORP)] during well purging to verify stabilization prior to sampling. Turbidity was monitored using a LaMotte 2020we portable turbidity meter. Groundwater samples were collected once the following stabilization criteria were met:

- pH \pm 0.1 standard units (s.u.).
- Conductivity \pm 5%.
- \pm 0.2 mg/L \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 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 analysis, and the associated results, are listed in the analytical laboratory reports included in **Appendix B**. The groundwater analytical results from the August 2022 semiannual sampling event are summarized in **Tables 5** and **6**.

3.5 Quality Assurance and Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring event in accordance with the Site's *Groundwater Monitoring Plan* (Geosyntec, 2021), 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 groundwater protection standards (GWPS) for the Appendix IV constituents and completed statistical analyses of the Appendix IV groundwater monitoring data obtained during the reporting period. The data were analyzed by Groundwater Stats Consulting (GSC); the report generated from the analyses are provided in **Appendix C**.

4.1 Statistical Methods

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

Appendix III statistical analysis was performed to determine if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in statistical analysis packages 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 are presented in **Table 7**.

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. The most recent sample from each downgradient well is compared to the background limit to determine whether there are significant statistical increases (SSIs). An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient detection monitoring well exceeds the constituent's associated PL. The 1-

of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective prediction limit, no exceedance is declared.

4.1.2 Appendix IV Statistical Methods

To statistically compare groundwater data to GWPS, confidence intervals are constructed for each of the detected Appendix IV constituents in each downgradient detection 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.

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

Following the above requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 7**.

4.2 Statistical Analyses Results

Based on review of the Appendix III statistical analysis discussion presented in **Appendix C**, groundwater conditions have not returned to background and assessment monitoring should continue. However, no SSLs of Appendix IV constituents were identified following statistical analyses of the August 2022 data set.

5.0 MONITORING PROGRAM STATUS

Based on the statistical evaluation results presented for the reporting period, SSIs of Appendix III constituents have not returned to background levels; and therefore, Georgia Power will continue to monitor groundwater at AP-3 in accordance with the assessment monitoring program regulations of § 257.95.

6.0 CONCLUSIONS AND FUTURE ACTIONS

This *2022 Semiannual Groundwater Monitoring and Corrective Action Report* for Plant Hammond AP-3 was prepared to fulfill the requirements of the federal CCR Rule and the GA EPD Rules for Solid Waste Management 391-3-4-.10.

Statistical analyses of the groundwater monitoring data for AP-3 for the reporting period did not identify any SSLs of Appendix IV constituents and the site will remain in Assessment Monitoring.

The next routine semiannual assessment monitoring event for AP-3 is scheduled to begin January 2023.

7.0 REFERENCES

Geosyntec, 2020. *Hydrogeologic Assessment Report (Revision 01) – Plant Hammond Ash Pond 3 (AP-3)*. November 2020.

Geosyntec, 2021. *Groundwater Monitoring Plan – Plant Hammond Ash Pond 3 (AP-3)*. September 2019, revised January 2021.

Golder Associates, 2018. *Geologic and Hydrogeologic Report – Plant Hammond*. November 2018.

Sanitas: Groundwater Statistical Software, v. 9.6.05, 2018. Sanitas Technologies[®], Boulder, CO.

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

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

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

TABLES

Table 1
Monitoring Well Network Summary
Plant Hammond AP-3, Floyd County, Georgia

| Well ID | Hydraulic Location | Installation Date | Northing ⁽¹⁾ | Easting ⁽¹⁾ | Top of Casing Elevation ⁽²⁾ (ft) | Top of Screen Elevation ⁽²⁾ (ft) | Bottom of Screen Elevation ⁽²⁾ (ft) | Well Depth (ft BTOC) ⁽³⁾ | Screen Interval Length (ft) |
|----------------------------------|--------------------|-------------------|-------------------------|------------------------|---|---|--|-------------------------------------|-----------------------------|
| Detection Monitoring Well | | | | | | | | | |
| HGWA-1 | Upgradient | 12/3/2014 | 1550423.32 | 1940770.00 | 595.21 | 573.12 | 563.12 | 32.49 | 10 |
| HGWA-2 | Upgradient | 12/2/2015 | 1549796.87 | 1939845.15 | 587.92 | 570.29 | 560.29 | 27.95 | 10 |
| HGWA-3 | Upgradient | 12/2/2015 | 1549794.41 | 1939833.39 | 587.74 | 553.23 | 543.23 | 44.51 | 10 |
| HGWA-43D | Upgradient | 8/26/2020 | 1550422.85 | 1940753.80 | 595.08 | 544.08 | 534.08 | 61.25 | 10 |
| HGWA-44D | Upgradient | 8/25/2020 | 1550409.13 | 1940756.18 | 594.79 | 491.76 | 481.76 | 113.28 | 10 |
| HGWA-45D | Upgradient | 8/19/2020 | 1551157.68 | 1941907.54 | 586.95 | 535.23 | 525.23 | 62.87 | 10 |
| HGWA-122 | Upgradient | 11/20/2014 | 1551251.42 | 1941887.11 | 587.90 | 570.54 | 560.54 | 27.76 | 10 |
| HGWC-120 | Downgradient | 6/27/2016 | 1551067.24 | 1942926.62 | 605.82 | 548.83 | 538.83 | 67.00 | 10 |
| HGWC-121A | Downgradient | 7/17/2017 | 1550607.97 | 1943030.44 | 584.69 | 556.71 | 546.71 | 37.98 | 10 |
| HGWC-124 | Downgradient | 11/13/2014 | 1551624.93 | 1942781.05 | 582.52 | 557.80 | 547.80 | 35.12 | 10 |
| HGWC-125 | Downgradient | 5/4/2020 | 1550821.41 | 1942962.87 | 608.89 | 556.03 | 546.03 | 63.19 | 10 |
| HGWC-126 | Downgradient | 11/25/2019 | 1550422.03 | 1942689.40 | 611.24 | 552.72 | 542.72 | 68.52 | 10 |
| Piezometer | | | | | | | | | |
| MW-21 | Upgradient | 12/3/2014 | 1550270.15 | 1941809.76 | 586.27 | 570.40 | 560.40 | 26.28 | 10 |
| MW-23 | Downgradient | 11/24/2014 | 1551641.44 | 1942496.83 | 584.91 | 563.03 | 553.03 | 32.28 | 10 |
| MW-32 | Downgradient | 11/22/2019 | 1551092.83 | 1943021.47 | 585.46 | 559.30 | 549.30 | 36.16 | 10 |
| MW-39 | Downgradient | 3/16/2020 | 1551111.45 | 1943089.26 | 580.42 | 564.93 | 554.93 | 25.82 | 10 |
| MW-41 | Downgradient | 5/18/2020 | 1551158.16 | 1943196.47 | 577.25 | 563.20 | 553.20 | 24.38 | 10 |
| MW-46D | Downgradient | 8/18/2020 | 1551056.478 | 1942929.10 | 605.72 | 513.92 | 503.92 | 102.05 | 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, HGWA-44D, HGWA-45D, and MW-46D certified by GEL Solutions September 10, 2020.

(2) Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey completed by GEL Solutions May 19, 2020. Survey data for HGWA-43D, HGWA-44D, HGWA-45D, and MW-46D certified by GEL Solutions September 10, 2020.

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

Table 2
 Groundwater Sampling Event Summary
 Plant Hammond AP-3, Floyd County, Georgia

| Well ID | Hydraulic Location | August 2-4, 2022 | Status of Monitoring Well |
|----------------------------------|--------------------|------------------|---------------------------|
| Purpose of Sampling Event: | | Assessment | |
| <i>Detection Monitoring Well</i> | | | |
| HGWA-1 | Upgradient | X | Assessment |
| HGWA-2 | Upgradient | X | Assessment |
| HGWA-3 | Upgradient | X | Assessment |
| HGWA-43D | Upgradient | X | Assessment |
| HGWA-44D | Upgradient | X | Assessment |
| HGWA-45D | Upgradient | X | Assessment |
| HGWA-122 | Upgradient | X | Assessment |
| HGWC-120 | Downgradient | X | Assessment |
| HGWC-121A | Downgradient | X | Assessment |
| HGWC-124 | Downgradient | X | Assessment |
| HGWC-125 | Downgradient | X | Assessment |
| HGWC-126 | Downgradient | X | Assessment |

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

| Well ID | Top of Casing Elevation (ft) ⁽¹⁾ | August 1, 2022 | |
|--|---|--------------------------|---|
| | | Depth to Water (ft BTOC) | Groundwater Elevation (ft) ⁽¹⁾ |
| <i>Detection Monitoring Well</i> | | | |
| HGWA-1 | 595.21 | 18.59 | 576.62 |
| HGWA-2 | 587.92 | 10.71 | 577.21 |
| HGWA-3 | 587.74 | 10.45 | 577.29 |
| HGWA-43D | 595.08 | 18.47 | 576.61 |
| HGWA-44D | 594.79 | 18.01 | 576.78 |
| HGWA-45D | 586.95 | 11.50 | 575.45 |
| HGWA-122 | 587.90 | 12.55 | 575.35 |
| HGWC-120 | 605.82 | 40.44 | 565.38 |
| HGWC-121A | 584.69 | 17.65 | 567.04 |
| HGWC-124 | 582.52 | 14.02 | 568.50 |
| HGWC-125 | 608.89 | 43.76 | 565.13 |
| HGWC-126 | 611.24 | 40.90 | 570.34 |
| <i>Piezometer</i> | | | |
| MW-21 | 586.27 | 8.43 | 577.84 |
| MW-23 | 584.91 | 12.65 | 572.26 |
| MW-32 | 585.46 | 20.09 | 565.37 |
| MW-39 | 580.42 | 15.10 | 565.32 |
| MW-41 | 577.25 | 12.05 | 565.20 |
| MW-46D | 605.72 | 40.22 | 565.50 |
| <i>Surface Water Gauging Location</i> | | | |
| Cabin Creek (Hwy 20) | 594.46 | 30.20 | 564.26 |
| Cabin Creek (Railroad bridge) | 586.60 | 22.54 | 564.06 |

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Elevations referenced to the North American Vertical Datum of 1988 (ft NAVD88). Survey data certified on May 19, 2020. Survey data for HGWA-43D, HGWA-44D, HGWA-45D, and MW-46D certified on September 10, 2020.

Table 4
Horizontal Groundwater Gradient and Flow Velocity Calculations
Plant Hammond AP-3, Floyd County, Georgia

| August 1, 2022 | | | | |
|--|------------------------|------------------------|-----------|--------------|
| Flow Path Direction ⁽¹⁾ | h ₁ (ft) | h ₂ (ft) | L (ft) | i (ft/ft) |
| Easterly Flow Path (HGWA-45D to MW-32) | 575.45 | 565.37 | 1,120 | 0.0090 |

| Flow Path Direction ⁽¹⁾ | K _h (ft/day) | n _e | i (ft/ft) | V (ft/day) ⁽²⁾ |
|--|----------------------------|----------------|--------------|------------------------------|
| Easterly Flow Path (HGWA-45D to MW-32) | 2.76 | 0.15 | 0.0090 | 0.17 |

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

h₁ and h₂ = groundwater elevation at location 1 and 2

i = $(h_1 - h_2) / L$ = horizontal hydraulic gradient

K_h = horizontal hydraulic conductivity

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

n_e = effective porosity

V = groundwater flow velocity

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

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

Table 5
Summary of Semiannual Groundwater Analytical Data
Plant Hammond AP-3, Floyd County, Georgia

| Well ID: | HGWA-1 | HGWA-2 | HGWA-3 | HGWA-43D | HGWA-44D | HGWA-45D | HGWA-122 | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 | |
|----------------------------|-----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Sample Date: | 8/2/2022 | 8/2/2022 | 8/2/2022 | 8/2/2022 | 8/2/2022 | 8/2/2022 | 8/2/2022 | 8/4/2022 | 8/4/2022 | 8/4/2022 | 8/4/2022 | 8/4/2022 | |
| Parameter ^(1,2) | | | | | | | | | | | | | |
| APPENDIX III | Boron | 0.012 J | 0.047 | <0.0086 | 0.043 | 0.31 | 0.14 | 0.18 | 1.0 | 1.8 | 0.36 | 1.4 | 0.023 J |
| | Calcium | 117 | 31.2 | 84.6 | 54.1 | 20.9 | 49.9 | 69.5 | 173 | 160 | 103 | 170 | 141 |
| | Chloride | 14.1 | 7.8 | 5.9 | 4.3 | 19.8 | 3.9 | 2.7 | 2.7 | 15.4 | 2.6 | 11.6 | 8.7 |
| | Fluoride | 0.090 J | 0.053 J | 0.067 J | 0.22 | 0.80 | 0.21 | 0.10 | 0.38 | 0.18 | 0.074 J | 0.15 | 0.50 |
| | pH ⁽³⁾ | 7.03 | 4.57 | 7.02 | 7.15 | 7.90 | 7.39 | 6.67 | 6.93 | 6.80 | 7.15 | 6.09 | 6.99 |
| | Sulfate | 58.1 | 86.9 | 43.5 | 37.0 | 13.2 | 2.1 | 41.5 | 230 | 162 | 73.1 | 331 | 68.3 |
| | TDS | 400 | 196 | 287 | 278 | 311 | 261 | 217 | 632 | 640 | 334 | 706 | 510 |
| APPENDIX IV | Antimony | <0.00078 | <0.00078 | <0.00078 | <0.00078 | <0.00078 | <0.00078 | <0.00078 | <0.00078 | 0.0016 J | <0.00078 | <0.00078 | <0.00078 |
| | Arsenic | <0.0022 | <0.0022 | <0.0022 | <0.0022 | <0.0022 | <0.0022 | <0.0022 | <0.0022 | <0.0022 | <0.0022 | <0.0022 | <0.0022 |
| | Barium | 0.039 | 0.11 | 0.16 | 0.35 | 0.37 | 0.64 | 0.038 | 0.048 | 0.060 | 0.068 | 0.037 | 0.24 |
| | Beryllium | <0.000054 | 0.00019 J | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 | <0.000054 |
| | Cadmium | <0.00011 | 0.00023 J | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00011 | <0.00057 | <0.00011 | <0.00011 | <0.00011 | <0.00011 |
| | Chromium | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 | <0.0011 |
| | Cobalt | 0.00054 J | 0.024 | <0.00039 | <0.00039 | <0.00039 | <0.00039 | <0.00039 | 0.0058 | <0.00039 | <0.00039 | 0.014 | <0.00039 |
| | Fluoride | 0.090 J | 0.053 J | 0.067 J | 0.22 | 0.80 | 0.21 | 0.10 | 0.38 | 0.18 | 0.074 J | 0.15 | 0.50 |
| | 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 |
| | Lithium | <0.00073 | 0.0013 J | 0.0030 J | 0.0019 J | 0.041 | 0.0045 J | <0.00073 | 0.023 J | 0.0069 J | 0.0011 J | 0.0035 J | 0.0034 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 |
| | Molybdenum | <0.00074 | <0.00074 | <0.00074 | 0.0042 J | 0.0020 J | <0.00074 | 0.0042 J | 0.032 | <0.00074 | <0.00074 | 0.0023 J | <0.00074 |
| | Comb. Radium 226/228 | 0.203 U | 0.861 U | 0.400 U | 0.662 U | 0.952 U | 0.509 U | 0.573 U | 0.687 U | 1.16 U | 0.160 U | 0.971 U | 1.34 U |
| Selenium | <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 | |

Notes:

< = 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, 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 6
 Summary of Geochemical Analytical Data
 Plant Hammond AP-3, Floyd County, Georgia

| Well ID: | HGWA-1 | HGWA-2 | HGWA-3 | HGWA-43D | HGWA-44D | HGWA-45D | HGWA-122 | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 | |
|----------------------------|-------------------------------|----------|----------|----------|----------|----------|----------|----------|-----------|----------|----------|----------|--------|
| Sample Date: | 8/2/2022 | 8/2/2022 | 8/2/2022 | 8/2/2022 | 8/2/2022 | 8/2/2022 | 8/2/2022 | 8/4/2022 | 8/4/2022 | 8/4/2022 | 8/4/2022 | 8/4/2022 | |
| Parameter ^(1,2) | | | | | | | | | | | | | |
| GEOCHEM | Bicarbonate Alkalinity | 266 | 12.8 | 179 | 203 | 263 | 238 | 155 | 291 | 352 | 239 | 189 | 434 |
| | Carbonate Alkalinity | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | Total Alkalinity | 266 | 12.8 | 179 | 203 | 263 | 238 | 155 | 291 | 352 | 239 | 189 | 434 |
| | Iron | 0.21 | 0.72 | 1.0 | 0.31 | 0.24 | 0.26 | 0.81 | 0.65 | 0.086 | 0.26 | 0.10 | 1.5 |
| | Magnesium | 4.4 | 4.0 | 5.2 | 17.2 | 12.2 | 18.7 | 5.2 | 23.3 | 23.8 | 9.5 | 27.3 | 26.5 |
| | Manganese | 0.48 | 0.80 | 0.24 | 0.019 J | 0.013 J | 0.015 J | 0.66 | 1.4 | 0.73 | 0.38 | 2.3 | 0.19 |
| | Potassium | 0.28 | 1.0 | 0.37 | 0.80 | 3.9 | 1.8 | 1.8 | 7.2 | 1.1 | 0.83 | 3.4 | 0.78 |
| | Sodium | 28.5 | 11.2 | 5.7 | 24.8 | 94.6 | 24.6 | 9.5 | 8.7 | 34.3 | 5.6 | 16.2 | 31.3 |
| | Sulfide | 0.062 J | <0.050 | <0.050 | <0.050 | 0.058 J | 0.16 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |

Notes:

< = 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).

(1) Ions were analyzed by EPA Method 6010D, alkalinity was analyzed by SM2320B-2011, and sulfide was analyzed by SM4500-S2D-2011.

(2) Calcium, chloride, and sulfate are considered major ions, but are reported as Appendix III constituents on Table 5.

Table 7
Summary of Background Concentrations and Groundwater Protection Standards
Plant Hammond AP-3, Floyd County, Georgia

| Analyte | Units | MCL | CCR-Rule Specified ⁽¹⁾ | Background ⁽²⁾ | GWPS ^(3,4) |
|-------------------------|-------|-------|-----------------------------------|---------------------------|-----------------------|
| Antimony | mg/L | 0.006 | N/A | 0.003 | 0.006 |
| Arsenic | mg/L | 0.01 | N/A | 0.005 | 0.01 |
| Barium | mg/L | 2 | N/A | 0.64 | 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 | 0.10 | 0.01 | 0.10 |
| Selenium | mg/L | 0.05 | N/A | 0.005 | 0.05 |
| Thallium | mg/L | 0.002 | N/A | 0.001 | 0.002 |
| Combined Radium-226/228 | pCi/L | 5 | N/A | 1.65 | 5 |

Notes:

CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

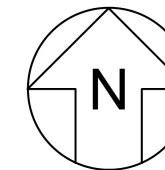
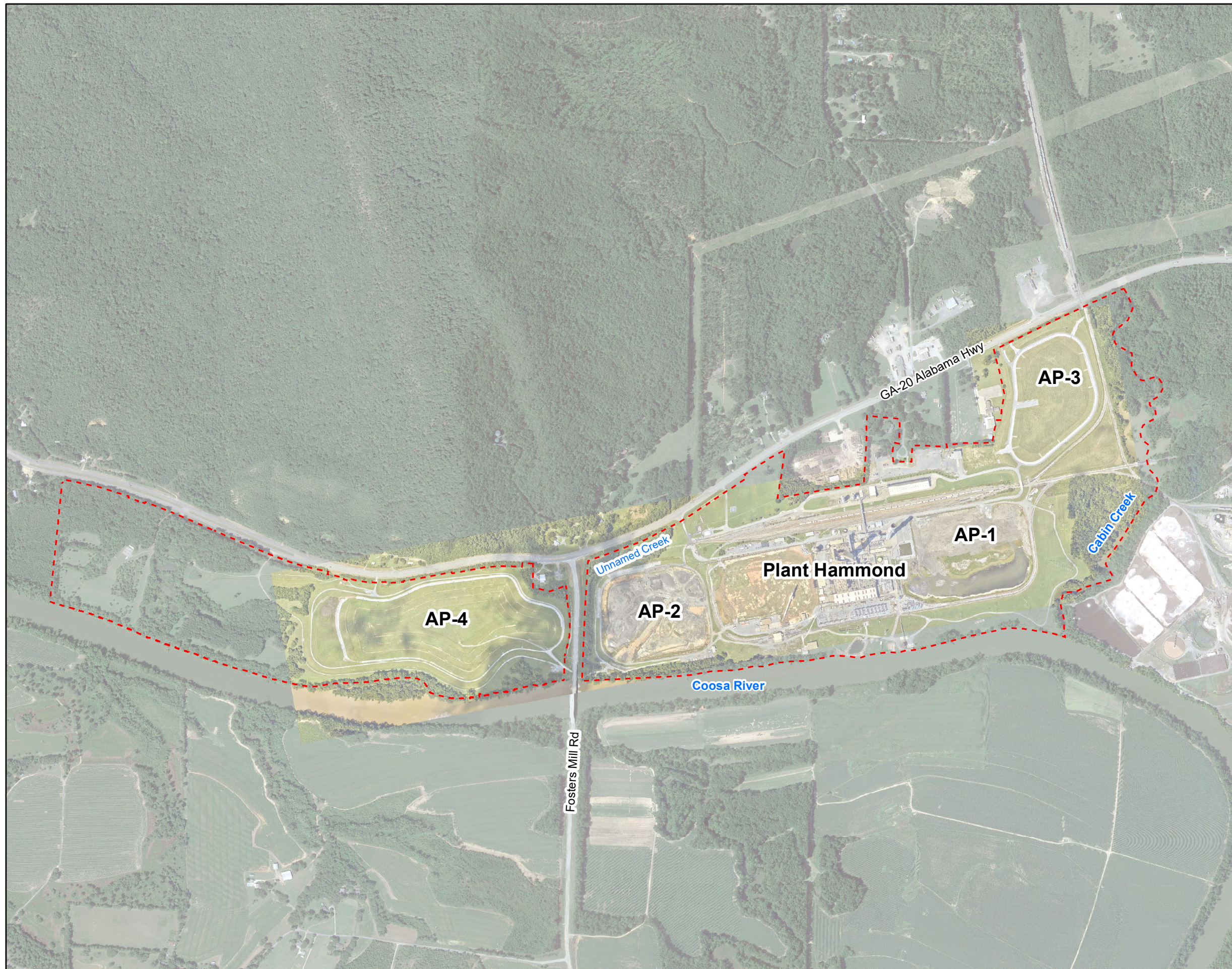
mg/L = milligrams per liter

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 August 2022 sampling event.

FIGURES

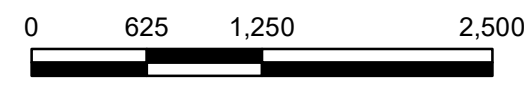


LEGEND

Plant Hammond Property Boundary



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



SITE LOCATION MAP

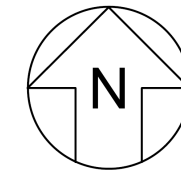
GEORGIA POWER COMPANY
 PLANT HAMMOND AP-3
 ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

KENNESAW, GA FEBRUARY 2023

FIGURE
1



- LEGEND**
- ⊕ Detection Monitoring Well
 - ⊕ Piezometer
 - ⊕ Surface Water Level Gauge Point
 - Approximate AP-3 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

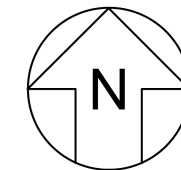
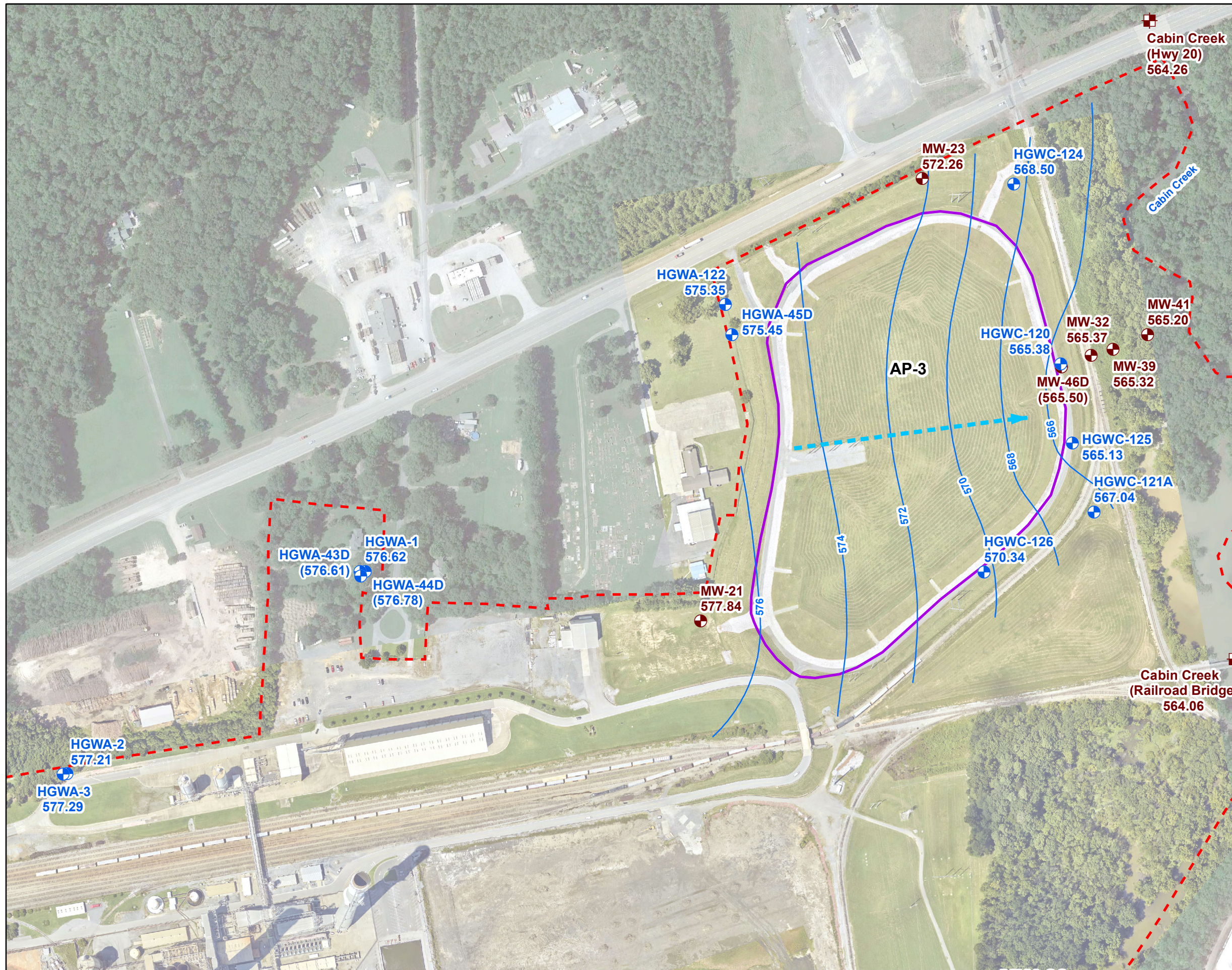
GEORGIA POWER COMPANY
 PLANT HAMMOND AP-3
 FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

**FIGURE
2**

KENNESAW, GA FEBRUARY 2023



LEGEND

- Detection Monitoring Well
- Piezometer
- Surface Water Level Gauge Point
- Groundwater Elevation Iso-Contour
- Approximate Groundwater Flow Direction
- Approximate AP-3 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 (NAVD) 88.
 2. Groundwater elevations in parentheses were not used in the development of groundwater contours due to wells being 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
ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

KENNESAW, GA FEBRUARY 2023

**FIGURE
3**

APPENDIX A

Well Maintenance and Repair Documentation Memorandum

August 2022

MEMORANDUM

DATE: December 6, 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 3 (AP-3) – 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-3 during the 2022 semiannual reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GA EPD) guidance on routine visual inspections of groundwater monitoring wells. Documentation of the well inspections are provided as an attachment to this memorandum.

| Georgia Power Site/Unit | Date Performed | Well ID | Maintenance/ Repair Performed |
|--------------------------------|-----------------------|----------------|--|
| Hammond/AP-3 | 8/1/2022 | All Wells | Checked and cleared weep holes of debris. |
| Hammond/AP-3 | 8/1/2022 | HGWC-121A | Crack was observed in well protective cover lid. Well integrity was not impacted and remains lockable and secured. |

ATTACHMENT

Well Inspection Forms

Well Inspection Form

Plant Name/Unit Name Plant Hummow, AP-1/2/3
 Field Technician Thomas Hessler
 Well ID HGW-1

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1/2/3
 Field Technician Thomas Kessler
 Well ID FLC0124-7

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

| | Yes | No | Comments |
|--|-----|----|----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | / | | |
| b Is the well properly identified with the correct well ID? | / | | |
| c Is the well in a high traffic area? | | / | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | / | | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | / | | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | / | | |
| b Is the casing free of degradation or deterioration? | / | | |
| c Does the casing have a functioning weep hole? | / | | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | / | | |
| e Is the well locked? | / | | |
| f If locked, is the well lock in good condition? | / | | |
| g Is the well lid in good condition? | / | | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | / | | |
| b Is the well pad sloped away from the protective casing? | / | | |
| c Is the well pad in complete contact with the protective casing? | / | | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | / | | |
| e Is the pad surface clean (not covered with sediment or debris)? | / | | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | / | | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | / | | |
| c Is the well properly vented for equilibration of air pressure? | / | | |
| d Is the survey point clearly marked on the inner casing? | / | | |
| e Is the depth of the well consistent with the original well log? | / | | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | / | | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | BlueStar |
| 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? | / | | |
| g Does the well require redevelopment (low flow, excess turbidity)? | | | N/A |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | | / | |
| If yes, indicate here: | | | |

Well Inspection Form

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

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

| | Yes | No | Comments |
|--|-----|----|----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | / | | |
| b Is the well properly identified with the correct well ID? | / | | |
| c Is the well in a high traffic area? | | / | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | / | | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | / | | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | / | | |
| b Is the casing free of degradation or deterioration? | / | | |
| c Does the casing have a functioning weep hole? | / | | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | / | | |
| e Is the well locked? | / | | |
| f If locked, is the well lock in good condition? | / | | |
| g Is the well lid in good condition? | / | | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | / | | |
| b Is the well pad sloped away from the protective casing? | / | | |
| c Is the well pad in complete contact with the protective casing? | / | | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | / | | |
| e Is the pad surface clean (not covered with sediment or debris)? | / | | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | / | | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | / | | |
| c Is the well properly vented for equilibration of air pressure? | / | | |
| d Is the survey point clearly marked on the inner casing? | / | | |
| e Is the depth of the well consistent with the original well log? | / | | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | / | | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | Bleed |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | / | | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | | | N/A |
| d Does the desiccant need to be replaced on the water quality sonde? | | | N/A |
| e If equipped with a water level data logger, is it in good operational condition? | | | N/A |
| f Does the well recharge adequately when purged? | / | | N/A |
| g Does the well require redevelopment (low flow, excess turbidity)? | | | N/A |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | | / | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1213
 Field Technician Thomas K.
 Well ID Hammond-43D

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

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|----------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>Bladder</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>W/S</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>W/S</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 type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |
| | | | |
| | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1/2/3
 Field Technician Thomas K
 Well ID HGW 1-44D

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond / A-3
 Field Technician Thomas Kessler
 Well ID HGW A-45D

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

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|----------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | | | <u>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"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-3
 Field Technician Thomas A
 Well ID MCWA-122

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

| | Yes | No | Comments |
|--|-------------------------------------|-------------------------------------|------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger . | <u>Bladder</u> | | |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input 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>not</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-3
 Field Technician Thomas K
 Well ID TLGWC-120

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

| | Yes | No | Comments |
|---|-------------------------------------|-------------------------------------|---------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger. | | | <u>Blower</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| f Does the well recharge adequately when purged? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| If yes, indicate here: | | | |
| | | | |
| | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammerhead / AP-3
 Field Technician Thommas / A.
 Well ID H6400C-120-1214

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

1 Location/Identification

- a Is the well visible and accessible?
- b Is the well properly identified with the correct well ID?
- c Is the well in a high traffic area?
- d Are appropriate measures in place to protect the well (e.g., bollards)?
- e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)

| Yes | No | Comments |
|-----|----|----------|
| / | | |
| / | | |
| / | / | |
| / | | |
| / | | |

2 Protective Casing

- a Is the protective casing free from apparent damage and able to be secured?
- b Is the casing free of degradation or deterioration?
- c Does the casing have a functioning weep hole?
- d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?
- e Is the well locked?
- f If locked, is the well lock in good condition?
- g Is the well lid in good condition?

| Yes | No | Comments |
|-----|----|--------------------|
| / | | |
| / | / | outer lid cracked. |
| / | | |
| / | | |
| / | | |
| / | | |
| / | | |

3 Surface Pad

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

| Yes | No | Comments |
|-----|----|----------|
| / | | |
| / | | |
| / | | |
| / | | |
| / | | |

4 Internal Casing

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

| Yes | No | Comments |
|-----|----|----------|
| / | | |
| / | | |
| / | | |
| / | | |
| / | | |
| / | | |

5 Sampling and Data Collection Equipment

- a Indicate if the well is equipped with **dedicated sampling equipment**, a **dedicated water quality sonde**, and/or **dedicated water level data logger**.
- 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?
- 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 Does the well recharge adequately when purged?
- g Does the well require redevelopment (low flow, excess turbidity)?

| Yes | No | Comments |
|-----|----|-------------|
| | | Blacked out |
| / | | |
| | | N/A |
| | | N/A |
| / | | N/A |
| | / | |

6 Corrective Actions

- a Are corrective actions needed?
If yes, indicate here:

| Yes | No | Comments |
|-----|----|----------|
| | / | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-3
 Field Technician Thomas K
 Well ID PLCWC-124

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

| | Yes | No | Comments |
|---|-----|----|----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | ✓ | | |
| b Is the well properly identified with the correct well ID? | ✓ | | |
| c Is the well in a high traffic area? | | ✓ | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | ✓ | | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | ✓ | | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | ✓ | | |
| b Is the casing free of degradation or deterioration? | ✓ | | |
| c Does the casing have a functioning weep hole? | ✓ | | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | ✓ | | |
| e Is the well locked? | ✓ | | |
| f If locked, is the well lock in good condition? | ✓ | | |
| g Is the well lid in good condition? | ✓ | | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | ✓ | | |
| b Is the well pad sloped away from the protective casing? | ✓ | | |
| c Is the well pad in complete contact with the protective casing? | ✓ | | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | ✓ | | |
| e Is the pad surface clean (not covered with sediment or debris)? | ✓ | | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | ✓ | | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | ✓ | | |
| c Is the well properly vented for equilibration of air pressure? | ✓ | | |
| d Is the survey point clearly marked on the inner casing? | ✓ | | |
| e Is the depth of the well consistent with the original well log? | ✓ | | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | ✓ | | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger. | | | Bladder |
| 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? | ✓ | | |
| g Does the well require redevelopment (low flow, excess turbidity)? | | ✓ | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | | ✓ | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name District Hammond AP-3
 Field Technician Thomas M
 Well ID HGW-125

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-2
 Field Technician Thomas K.
 Well ID FLCWC-12C

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

| | Yes | No | Comments |
|---|-------------------------------------|--------------------------|----------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <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 checked="" type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input checked="" 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 checked="" 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 checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-3
 Field Technician Thomas K
 Well ID WU-21

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

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

WHL

N/A

N/A
N/A

WHL

N/A
N/A

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-3
 Field Technician Thomas K.
 Well ID MLV-23

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

| | Yes | No | Comments |
|---|-----|----|----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | / | | |
| b Is the well properly identified with the correct well ID? | / | | |
| c Is the well in a high traffic area? | / | ✓ | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | / | | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | / | | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | / | | |
| b Is the casing free of degradation or deterioration? | / | | |
| c Does the casing have a functioning weep hole? | / | | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | / | | |
| e Is the well locked? | / | | |
| f If locked, is the well lock in good condition? | / | | |
| g Is the well lid in good condition? | / | | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | / | | |
| b Is the well pad sloped away from the protective casing? | / | | |
| c Is the well pad in complete contact with the protective casing? | / | | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | / | | |
| e Is the pad surface clean (not covered with sediment or debris)? | / | | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | / | | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | / | | |
| c Is the well properly vented for equilibration of air pressure? | / | | |
| d Is the survey point clearly marked on the inner casing? | / | | |
| e Is the depth of the well consistent with the original well log? | / | | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | / | | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger. | | | N/A |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | | | N/A |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | | | N/A |
| d Does the desiccant need to be replaced on the water quality sonde? | | | N/A |
| e If equipped with a water level data logger, is it in good operational condition? | | | N/A |
| f Does the well recharge adequately when purged? | | | N/A |
| g Does the well require redevelopment (low flow, excess turbidity)? | | | N/A |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | | / | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond AP-3
 Field Technician Thomas K.
 Well ID MW-32

Date (mm/dd/yyyy) 08/01/2024
 Field Conditions Sunny, 80

| | Yes | No | Comments |
|---|-----|----|----------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | / | | |
| b Is the well properly identified with the correct well ID? | / | | |
| c Is the well in a high traffic area? | | / | |
| d Are appropriate measures in place to protect the well (e.g., bollards)? | / | | |
| e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) | / | | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | / | | |
| b Is the casing free of degradation or deterioration? | / | | |
| c Does the casing have a functioning weep hole? | / | | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | / | | |
| e Is the well locked? | / | | |
| f If locked, is the well lock in good condition? | / | | |
| g Is the well lid in good condition? | / | | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | / | | |
| b Is the well pad sloped away from the protective casing? | / | | |
| c Is the well pad in complete contact with the protective casing? | / | | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | / | | |
| e Is the pad surface clean (not covered with sediment or debris)? | / | | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | / | | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | / | | |
| c Is the well properly vented for equilibration of air pressure? | / | | |
| d Is the survey point clearly marked on the inner casing? | / | | |
| e Is the depth of the well consistent with the original well log? | / | | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | / | | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger. | | | N/A |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | | | N/A |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | | | N/A |
| d Does the desiccant need to be replaced on the water quality sonde? | | | N/A |
| e If equipped with a water level data logger, is it in good operational condition? | | | N/A |
| f Does the well recharge adequately when purged? | | | N/A |
| g Does the well require redevelopment (low flow, excess turbidity)? | | | N/A |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | | ✓ | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Thomas Kessler Ste
 Field Technician Plant Hammond AP-3
 Well ID MW-39

Date (mm/dd/yyyy) 08/01/2021
 Field Conditions Sunny, 80°

| | Yes | No | Comments |
|---|-------------------------------------|--------------------------|------------|
| 1 Location/Identification | | | |
| a Is the well visible and accessible? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well properly identified with the correct well ID? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well in a high traffic area? | <input 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"/> | |
| 2 Protective Casing | | | |
| a Is the protective casing free from apparent damage and able to be secured? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of degradation or deterioration? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Does the casing have a functioning weep hole? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the well locked? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f If locked, is the well lock in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| g Is the well lid in good condition? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 3 Surface Pad | | | |
| a Is the well pad in good condition (not cracked or broken)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the well pad sloped away from the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well pad in complete contact with the protective casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the pad surface clean (not covered with sediment or debris)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4 Internal Casing | | | |
| a Does the cap prevent entry of foreign material into the well? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| c Is the well properly vented for equilibration of air pressure? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| d Is the survey point clearly marked on the inner casing? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| e Is the depth of the well consistent with the original well log? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 5 Sampling and Data Collection Equipment | | | |
| a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger. | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| b If equipped with dedicated sampling equipment, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| c If equipped with a dedicated water quality sonde, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| d Does the desiccant need to be replaced on the water quality sonde? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| e If equipped with a water level data logger, is it in good operational condition? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| f Does the well recharge adequately when purged? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| g Does the well require redevelopment (low flow, excess turbidity)? | <input type="checkbox"/> | <input type="checkbox"/> | <u>N/A</u> |
| 6 Corrective Actions | | | |
| a Are corrective actions needed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| If yes, indicate here: | | | |

Well Inspection Form

Plant Name/Unit Name Plant Hammond (AP-3)
 Field Technician Thomas K.
 Well ID MW-41

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond / HP-3
 Field Technician Thomas Kessler
 Well ID MLW-46D

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

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

If yes, indicate here:

APPENDIX B

Laboratory Analytical and Field Sampling Reports

August 19, 2022

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

RE: Project: HAMMOND AP-3
Pace Project No.: 92618823

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between August 04, 2022 and August 05, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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 Szwest, 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-3
Pace Project No.: 92618823

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

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

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

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: HAMMOND AP-3
Pace Project No.: 92618823

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 92618823001 | HGWA-45D | Water | 08/02/22 12:30 | 08/04/22 12:30 |
| 92618823002 | HGWA-122 | Water | 08/02/22 13:57 | 08/04/22 12:30 |
| 92618823003 | HGWC-120 | Water | 08/04/22 15:55 | 08/05/22 14:15 |
| 92618823004 | HGWC-121A | Water | 08/04/22 13:16 | 08/05/22 14:15 |
| 92618823005 | HGWC-124 | Water | 08/04/22 11:19 | 08/05/22 14:15 |
| 92618823006 | HGWC-125 | Water | 08/04/22 15:40 | 08/05/22 14:15 |
| 92618823007 | HGWC-126 | Water | 08/04/22 16:46 | 08/05/22 14:15 |
| 92618823008 | DUP-3 | Water | 08/04/22 00:00 | 08/05/22 14:15 |
| 92618823009 | EB-3 | Water | 08/04/22 17:25 | 08/05/22 14:15 |
| 92618823010 | FB-3 | Water | 08/04/22 17:05 | 08/05/22 14:15 |

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: HAMMOND AP-3
Pace Project No.: 92618823

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|-------------|-----------|------------------------|----------|-------------------|
| 92618823001 | HGWA-45D | 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 |
| 92618823002 | HGWA-122 | 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 |
| 92618823003 | HGWC-120 | 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 |
| 92618823004 | HGWC-121A | 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 |
| 92618823005 | HGWC-124 | 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 |
| 92618823006 | HGWC-125 | EPA 6010D | KH | 6 |
| | | EPA 6020B | CW1 | 13 |

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: HAMMOND AP-3

Pace Project No.: 92618823

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | | |
|------------------------|-----------|------------------------|----------|-------------------|-----|----|
| 92618823007 | HGWC-126 | 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 | | |
| 92618823008 | DUP-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 | | |
| | | SM 4500-S2D-2011 | JP1 | 1 | | |
| | | EPA 300.0 Rev 2.1 1993 | CDC | 3 | | |
| | | 92618823009 | EB-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 | | |
| 92618823010 | FB-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 | | |

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: HAMMOND AP-3

Pace Project No.: 92618823

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92618823001 | HGWA-45D | | | | | |
| | Performed by | Customer | | | 08/05/22 12:39 | |
| | pH | 7.39 | Std. Units | | 08/05/22 12:39 | |
| EPA 6010D | Iron | 0.26 | mg/L | 0.040 | 08/11/22 14:57 | |
| EPA 6010D | Manganese | 0.015J | mg/L | 0.040 | 08/11/22 14:57 | |
| EPA 6010D | Potassium | 1.8 | mg/L | 0.20 | 08/11/22 14:57 | |
| EPA 6010D | Sodium | 24.6 | mg/L | 1.0 | 08/11/22 14:57 | |
| EPA 6010D | Calcium | 49.9 | mg/L | 1.0 | 08/11/22 14:57 | |
| EPA 6010D | Magnesium | 18.7 | mg/L | 0.050 | 08/11/22 14:57 | |
| EPA 6020B | Barium | 0.64 | mg/L | 0.0050 | 08/10/22 19:33 | |
| EPA 6020B | Boron | 0.14 | mg/L | 0.040 | 08/10/22 19:33 | |
| EPA 6020B | Lithium | 0.0045J | mg/L | 0.030 | 08/10/22 19:33 | |
| SM 2540C-2015 | Total Dissolved Solids | 261 | mg/L | 10.0 | 08/09/22 10:23 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 238 | mg/L | 5.0 | 08/10/22 08:57 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 238 | mg/L | 5.0 | 08/10/22 08:57 | |
| SM 4500-S2D-2011 | Sulfide | 0.16 | mg/L | 0.10 | 08/06/22 03:38 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 3.9 | mg/L | 1.0 | 08/12/22 16:05 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.21 | mg/L | 0.10 | 08/12/22 16:05 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 2.1 | mg/L | 1.0 | 08/12/22 16:05 | |
| 92618823002 | HGWA-122 | | | | | |
| | Performed by | Customer | | | 08/05/22 12:40 | |
| | pH | 6.67 | Std. Units | | 08/05/22 12:40 | |
| EPA 6010D | Iron | 0.81 | mg/L | 0.040 | 08/11/22 15:02 | |
| EPA 6010D | Manganese | 0.66 | mg/L | 0.040 | 08/11/22 15:02 | |
| EPA 6010D | Potassium | 1.8 | mg/L | 0.20 | 08/11/22 15:02 | |
| EPA 6010D | Sodium | 9.5 | mg/L | 1.0 | 08/11/22 15:02 | |
| EPA 6010D | Calcium | 69.5 | mg/L | 1.0 | 08/11/22 15:02 | |
| EPA 6010D | Magnesium | 5.2 | mg/L | 0.050 | 08/11/22 15:02 | |
| EPA 6020B | Barium | 0.038 | mg/L | 0.0050 | 08/10/22 19:39 | |
| EPA 6020B | Boron | 0.18 | mg/L | 0.040 | 08/10/22 19:39 | |
| EPA 6020B | Molybdenum | 0.0042J | mg/L | 0.010 | 08/10/22 19:39 | |
| SM 2540C-2015 | Total Dissolved Solids | 217 | mg/L | 10.0 | 08/09/22 10:23 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 155 | mg/L | 5.0 | 08/09/22 22:33 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 155 | mg/L | 5.0 | 08/09/22 22:33 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 2.7 | mg/L | 1.0 | 08/12/22 16:47 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.10 | mg/L | 0.10 | 08/12/22 16:47 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 41.5 | mg/L | 1.0 | 08/12/22 16:47 | |
| 92618823003 | HGWC-120 | | | | | |
| | Performed by | Customer | | | 08/08/22 10:11 | |
| | pH | 6.93 | Std. Units | | 08/08/22 10:11 | |
| EPA 6010D | Iron | 0.65 | mg/L | 0.040 | 08/11/22 16:04 | |
| EPA 6010D | Manganese | 1.4 | mg/L | 0.040 | 08/11/22 16:04 | |
| EPA 6010D | Potassium | 7.2 | mg/L | 0.20 | 08/11/22 16:04 | |
| EPA 6010D | Sodium | 8.7 | mg/L | 1.0 | 08/11/22 16:04 | |
| EPA 6010D | Calcium | 173 | mg/L | 1.0 | 08/11/22 16:04 | |
| EPA 6010D | Magnesium | 23.3 | mg/L | 0.050 | 08/11/22 16:04 | |
| EPA 6020B | Barium | 0.048 | mg/L | 0.0050 | 08/11/22 16:52 | |

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: HAMMOND AP-3

Pace Project No.: 92618823

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92618823003 | HGWC-120 | | | | | |
| EPA 6020B | Boron | 1.0 | mg/L | 0.040 | 08/11/22 16:52 | |
| EPA 6020B | Cobalt | 0.0058 | mg/L | 0.0050 | 08/11/22 16:52 | |
| EPA 6020B | Lithium | 0.023J | mg/L | 0.030 | 08/11/22 16:52 | |
| EPA 6020B | Molybdenum | 0.032 | mg/L | 0.010 | 08/11/22 16:52 | |
| SM 2540C-2015 | Total Dissolved Solids | 632 | mg/L | 20.0 | 08/09/22 10:27 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 291 | mg/L | 5.0 | 08/17/22 10:53 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 291 | mg/L | 5.0 | 08/17/22 10:53 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 2.7 | mg/L | 1.0 | 08/17/22 09:14 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.38 | mg/L | 0.10 | 08/17/22 09:14 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 230 | mg/L | 5.0 | 08/18/22 01:23 | |
| 92618823004 | HGWC-121A | | | | | |
| | Performed by | Customer | | | 08/08/22 10:12 | |
| | pH | 6.80 | Std. Units | | 08/08/22 10:12 | |
| EPA 6010D | Iron | 0.086 | mg/L | 0.040 | 08/11/22 16:19 | |
| EPA 6010D | Manganese | 0.73 | mg/L | 0.040 | 08/11/22 16:19 | |
| EPA 6010D | Potassium | 1.1 | mg/L | 0.20 | 08/11/22 16:19 | |
| EPA 6010D | Sodium | 34.3 | mg/L | 1.0 | 08/11/22 16:19 | |
| EPA 6010D | Calcium | 160 | mg/L | 1.0 | 08/11/22 16:19 | |
| EPA 6010D | Magnesium | 23.8 | mg/L | 0.050 | 08/11/22 16:19 | |
| EPA 6020B | Antimony | 0.0016J | mg/L | 0.0030 | 08/11/22 17:16 | |
| EPA 6020B | Barium | 0.060 | mg/L | 0.0050 | 08/11/22 17:16 | |
| EPA 6020B | Boron | 1.8 | mg/L | 0.040 | 08/11/22 17:16 | |
| EPA 6020B | Lithium | 0.0069J | mg/L | 0.030 | 08/11/22 17:16 | |
| SM 2540C-2015 | Total Dissolved Solids | 640 | mg/L | 20.0 | 08/09/22 10:27 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 352 | mg/L | 5.0 | 08/17/22 11:02 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 352 | mg/L | 5.0 | 08/17/22 11:02 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 15.4 | mg/L | 1.0 | 08/17/22 09:59 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.18 | mg/L | 0.10 | 08/17/22 09:59 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 162 | mg/L | 3.0 | 08/18/22 02:07 | |
| 92618823005 | HGWC-124 | | | | | |
| | Performed by | Customer | | | 08/08/22 10:12 | |
| | pH | 7.15 | Std. Units | | 08/08/22 10:12 | |
| EPA 6010D | Iron | 0.26 | mg/L | 0.040 | 08/11/22 16:23 | |
| EPA 6010D | Manganese | 0.38 | mg/L | 0.040 | 08/11/22 16:23 | |
| EPA 6010D | Potassium | 0.83 | mg/L | 0.20 | 08/11/22 16:23 | |
| EPA 6010D | Sodium | 5.6 | mg/L | 1.0 | 08/11/22 16:23 | |
| EPA 6010D | Calcium | 103 | mg/L | 1.0 | 08/11/22 16:23 | |
| EPA 6010D | Magnesium | 9.5 | mg/L | 0.050 | 08/11/22 16:23 | |
| EPA 6020B | Barium | 0.068 | mg/L | 0.0050 | 08/11/22 17:21 | |
| EPA 6020B | Boron | 0.36 | mg/L | 0.040 | 08/11/22 17:21 | |
| EPA 6020B | Lithium | 0.0011J | mg/L | 0.030 | 08/11/22 17:21 | |
| SM 2540C-2015 | Total Dissolved Solids | 334 | mg/L | 10.0 | 08/09/22 10:01 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 239 | mg/L | 5.0 | 08/17/22 11:11 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 239 | mg/L | 5.0 | 08/17/22 11:11 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 2.6 | mg/L | 1.0 | 08/17/22 10:13 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.074J | mg/L | 0.10 | 08/17/22 10:13 | |

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: HAMMOND AP-3

Pace Project No.: 92618823

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92618823005 | HGWC-124 | | | | | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 73.1 | mg/L | 1.0 | 08/17/22 10:13 | |
| 92618823006 | HGWC-125 | | | | | |
| | Performed by | Customer | | | 08/08/22 10:13 | |
| | pH | 6.09 | Std. Units | | 08/08/22 10:13 | |
| EPA 6010D | Iron | 0.10 | mg/L | 0.040 | 08/11/22 16:28 | |
| EPA 6010D | Manganese | 2.3 | mg/L | 0.040 | 08/11/22 16:28 | |
| EPA 6010D | Potassium | 3.4 | mg/L | 0.20 | 08/11/22 16:28 | |
| EPA 6010D | Sodium | 16.2 | mg/L | 1.0 | 08/11/22 16:28 | M1 |
| EPA 6010D | Calcium | 170 | mg/L | 1.0 | 08/11/22 16:28 | M1 |
| EPA 6010D | Magnesium | 27.3 | mg/L | 0.050 | 08/11/22 16:28 | M1 |
| EPA 6020B | Barium | 0.037 | mg/L | 0.0050 | 08/11/22 17:27 | |
| EPA 6020B | Boron | 1.4 | mg/L | 0.040 | 08/11/22 17:27 | |
| EPA 6020B | Cobalt | 0.014 | mg/L | 0.0050 | 08/11/22 17:27 | |
| EPA 6020B | Lithium | 0.0035J | mg/L | 0.030 | 08/11/22 17:27 | |
| EPA 6020B | Molybdenum | 0.0023J | mg/L | 0.010 | 08/11/22 17:27 | |
| SM 2540C-2015 | Total Dissolved Solids | 706 | mg/L | 20.0 | 08/09/22 10:02 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 189 | mg/L | 5.0 | 08/17/22 03:32 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 189 | mg/L | 5.0 | 08/17/22 03:32 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 11.6 | mg/L | 1.0 | 08/17/22 10:28 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.15 | mg/L | 0.10 | 08/17/22 10:28 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 331 | mg/L | 7.0 | 08/18/22 02:22 | |
| 92618823007 | HGWC-126 | | | | | |
| | Performed by | Customer | | | 08/08/22 10:13 | |
| | pH | 6.99 | Std. Units | | 08/08/22 10:13 | |
| EPA 6010D | Iron | 1.5 | mg/L | 0.040 | 08/11/22 16:47 | |
| EPA 6010D | Manganese | 0.19 | mg/L | 0.040 | 08/11/22 16:47 | |
| EPA 6010D | Potassium | 0.78 | mg/L | 0.20 | 08/11/22 16:47 | |
| EPA 6010D | Sodium | 31.3 | mg/L | 1.0 | 08/11/22 16:47 | |
| EPA 6010D | Calcium | 141 | mg/L | 1.0 | 08/11/22 16:47 | |
| EPA 6010D | Magnesium | 26.5 | mg/L | 0.050 | 08/11/22 16:47 | |
| EPA 6020B | Barium | 0.24 | mg/L | 0.0050 | 08/11/22 17:33 | |
| EPA 6020B | Boron | 0.023J | mg/L | 0.040 | 08/11/22 17:33 | |
| EPA 6020B | Lithium | 0.0034J | mg/L | 0.030 | 08/11/22 17:33 | |
| SM 2540C-2015 | Total Dissolved Solids | 510 | mg/L | 20.0 | 08/09/22 10:02 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 434 | mg/L | 5.0 | 08/17/22 11:19 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 434 | mg/L | 5.0 | 08/17/22 11:19 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 8.7 | mg/L | 1.0 | 08/17/22 10:43 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.50 | mg/L | 0.10 | 08/17/22 10:43 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 68.3 | mg/L | 1.0 | 08/17/22 10:43 | |
| 92618823008 | DUP-3 | | | | | |
| EPA 6010D | Iron | 0.058 | mg/L | 0.040 | 08/11/22 16:52 | |
| EPA 6010D | Manganese | 0.74 | mg/L | 0.040 | 08/11/22 16:52 | |
| EPA 6010D | Potassium | 1.1 | mg/L | 0.20 | 08/11/22 16:52 | |
| EPA 6010D | Sodium | 34.8 | mg/L | 1.0 | 08/11/22 16:52 | |
| EPA 6010D | Calcium | 162 | mg/L | 1.0 | 08/11/22 16:52 | |
| EPA 6010D | Magnesium | 23.9 | mg/L | 0.050 | 08/11/22 16:52 | |

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: HAMMOND AP-3

Pace Project No.: 92618823

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|---------|-------|--------------|----------------|------------|
| 92618823008 | DUP-3 | | | | | |
| EPA 6020B | Barium | 0.059 | mg/L | 0.0050 | 08/11/22 17:55 | |
| EPA 6020B | Boron | 1.8 | mg/L | 0.040 | 08/11/22 17:55 | |
| EPA 6020B | Lithium | 0.0069J | mg/L | 0.030 | 08/11/22 17:55 | |
| SM 2540C-2015 | Total Dissolved Solids | 628 | mg/L | 20.0 | 08/09/22 10:02 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 366 | mg/L | 5.0 | 08/17/22 19:54 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 366 | mg/L | 5.0 | 08/17/22 19:54 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 15.3 | mg/L | 1.0 | 08/17/22 10:58 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.18 | mg/L | 0.10 | 08/17/22 10:58 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 164 | mg/L | 3.0 | 08/18/22 02:37 | |
| 92618823009 | EB-3 | | | | | |
| EPA 6020B | Boron | 0.012J | mg/L | 0.040 | 08/11/22 18:01 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3
Pace Project No.: 92618823

| Sample: HGWA-45D Lab ID: 92618823001 Collected: 08/02/22 12:30 Received: 08/04/22 12:30 Matrix: Water | | | | | | | | | |
|---|-----------------|------------|--------------|----------|----|----------------|----------------|-----------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 08/05/22 12:39 | | |
| pH | 7.39 | Std. Units | | | 1 | | 08/05/22 12:39 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.26 | mg/L | 0.040 | 0.025 | 1 | 08/11/22 10:02 | 08/11/22 14:57 | 7439-89-6 | |
| Manganese | 0.015J | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 10:02 | 08/11/22 14:57 | 7439-96-5 | |
| Potassium | 1.8 | mg/L | 0.20 | 0.15 | 1 | 08/11/22 10:02 | 08/11/22 14:57 | 7440-09-7 | |
| Sodium | 24.6 | mg/L | 1.0 | 0.58 | 1 | 08/11/22 10:02 | 08/11/22 14:57 | 7440-23-5 | |
| Calcium | 49.9 | mg/L | 1.0 | 0.12 | 1 | 08/11/22 10:02 | 08/11/22 14:57 | 7440-70-2 | |
| Magnesium | 18.7 | mg/L | 0.050 | 0.012 | 1 | 08/11/22 10:02 | 08/11/22 14:57 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/09/22 14:37 | 08/10/22 19:33 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/09/22 14:37 | 08/10/22 19:33 | 7440-38-2 | |
| Barium | 0.64 | mg/L | 0.0050 | 0.00067 | 1 | 08/09/22 14:37 | 08/10/22 19:33 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/09/22 14:37 | 08/10/22 19:33 | 7440-41-7 | |
| Boron | 0.14 | mg/L | 0.040 | 0.0086 | 1 | 08/09/22 14:37 | 08/10/22 19:33 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/09/22 14:37 | 08/10/22 19:33 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/09/22 14:37 | 08/10/22 19:33 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/09/22 14:37 | 08/10/22 19:33 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/09/22 14:37 | 08/10/22 19:33 | 7439-92-1 | |
| Lithium | 0.0045J | mg/L | 0.030 | 0.00073 | 1 | 08/09/22 14:37 | 08/10/22 19:33 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/09/22 14:37 | 08/10/22 19:33 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/09/22 14:37 | 08/10/22 19:33 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/09/22 14:37 | 08/10/22 19:33 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/11/22 07:15 | 08/11/22 12:23 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 261 | mg/L | 10.0 | 10.0 | 1 | | 08/09/22 10:23 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 238 | mg/L | 5.0 | 5.0 | 1 | | 08/10/22 08:57 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/10/22 08:57 | | |
| Alkalinity, Total as CaCO3 | 238 | mg/L | 5.0 | 5.0 | 1 | | 08/10/22 08:57 | | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3
Pace Project No.: 92618823

| Sample: HGWA-45D | | Lab ID: 92618823001 | | Collected: 08/02/22 12:30 | Received: 08/04/22 12:30 | Matrix: Water | | | |
|--------------------------------|-------------|---|-----------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 0.16 | mg/L | 0.10 | 0.050 | 1 | | 08/06/22 03:38 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 3.9 | mg/L | 1.0 | 0.60 | 1 | | 08/12/22 16:05 | 16887-00-6 | |
| Fluoride | 0.21 | mg/L | 0.10 | 0.050 | 1 | | 08/12/22 16:05 | 16984-48-8 | |
| Sulfate | 2.1 | mg/L | 1.0 | 0.50 | 1 | | 08/12/22 16:05 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3
Pace Project No.: 92618823

| Sample: HGWA-122 | | Lab ID: 92618823002 | | Collected: 08/02/22 13:57 | | Received: 08/04/22 12:30 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 08/05/22 12:40 | | |
| pH | 6.67 | Std. Units | | | 1 | | 08/05/22 12:40 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.81 | mg/L | 0.040 | 0.025 | 1 | 08/11/22 10:02 | 08/11/22 15:02 | 7439-89-6 | |
| Manganese | 0.66 | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 10:02 | 08/11/22 15:02 | 7439-96-5 | |
| Potassium | 1.8 | mg/L | 0.20 | 0.15 | 1 | 08/11/22 10:02 | 08/11/22 15:02 | 7440-09-7 | |
| Sodium | 9.5 | mg/L | 1.0 | 0.58 | 1 | 08/11/22 10:02 | 08/11/22 15:02 | 7440-23-5 | |
| Calcium | 69.5 | mg/L | 1.0 | 0.12 | 1 | 08/11/22 10:02 | 08/11/22 15:02 | 7440-70-2 | |
| Magnesium | 5.2 | mg/L | 0.050 | 0.012 | 1 | 08/11/22 10:02 | 08/11/22 15:02 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/09/22 14:37 | 08/10/22 19:39 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/09/22 14:37 | 08/10/22 19:39 | 7440-38-2 | |
| Barium | 0.038 | mg/L | 0.0050 | 0.00067 | 1 | 08/09/22 14:37 | 08/10/22 19:39 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/09/22 14:37 | 08/10/22 19:39 | 7440-41-7 | |
| Boron | 0.18 | mg/L | 0.040 | 0.0086 | 1 | 08/09/22 14:37 | 08/10/22 19:39 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/09/22 14:37 | 08/10/22 19:39 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/09/22 14:37 | 08/10/22 19:39 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/09/22 14:37 | 08/10/22 19:39 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/09/22 14:37 | 08/10/22 19:39 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/09/22 14:37 | 08/10/22 19:39 | 7439-93-2 | |
| Molybdenum | 0.0042J | mg/L | 0.010 | 0.00074 | 1 | 08/09/22 14:37 | 08/10/22 19:39 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/09/22 14:37 | 08/10/22 19:39 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/09/22 14:37 | 08/10/22 19:39 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/11/22 07:15 | 08/11/22 12:31 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 217 | mg/L | 10.0 | 10.0 | 1 | | 08/09/22 10:23 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 155 | mg/L | 5.0 | 5.0 | 1 | | 08/09/22 22:33 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/09/22 22:33 | | |
| Alkalinity, Total as CaCO ₃ | 155 | mg/L | 5.0 | 5.0 | 1 | | 08/09/22 22:33 | | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3

Pace Project No.: 92618823

| Sample: HGWA-122 | | Lab ID: 92618823002 | | Collected: 08/02/22 13:57 | Received: 08/04/22 12:30 | Matrix: Water | | | |
|--------------------------------|-------------|---|-----------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.050 | 1 | | 08/06/22 03:39 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 2.7 | mg/L | 1.0 | 0.60 | 1 | | 08/12/22 16:47 | 16887-00-6 | |
| Fluoride | 0.10 | mg/L | 0.10 | 0.050 | 1 | | 08/12/22 16:47 | 16984-48-8 | |
| Sulfate | 41.5 | mg/L | 1.0 | 0.50 | 1 | | 08/12/22 16:47 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3
Pace Project No.: 92618823

| Sample: HGWC-120 | | Lab ID: 92618823003 | | Collected: 08/04/22 15:55 | | Received: 08/05/22 14:15 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 08/08/22 10:11 | | |
| pH | 6.93 | Std. Units | | | 1 | | 08/08/22 10:11 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.65 | mg/L | 0.040 | 0.025 | 1 | 08/11/22 09:30 | 08/11/22 16:04 | 7439-89-6 | |
| Manganese | 1.4 | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 09:30 | 08/11/22 16:04 | 7439-96-5 | |
| Potassium | 7.2 | mg/L | 0.20 | 0.15 | 1 | 08/11/22 09:30 | 08/11/22 16:04 | 7440-09-7 | |
| Sodium | 8.7 | mg/L | 1.0 | 0.58 | 1 | 08/11/22 09:30 | 08/11/22 16:04 | 7440-23-5 | |
| Calcium | 173 | mg/L | 1.0 | 0.12 | 1 | 08/11/22 09:30 | 08/11/22 16:04 | 7440-70-2 | |
| Magnesium | 23.3 | mg/L | 0.050 | 0.012 | 1 | 08/11/22 09:30 | 08/11/22 16:04 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/10/22 08:00 | 08/11/22 16:52 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/10/22 08:00 | 08/11/22 16:52 | 7440-38-2 | |
| Barium | 0.048 | mg/L | 0.0050 | 0.00067 | 1 | 08/10/22 08:00 | 08/11/22 16:52 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/10/22 08:00 | 08/11/22 16:52 | 7440-41-7 | |
| Boron | 1.0 | mg/L | 0.040 | 0.0086 | 1 | 08/10/22 08:00 | 08/11/22 16:52 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.0025 | 0.00057 | 5 | 08/10/22 08:00 | 08/12/22 13:56 | 7440-43-9 | D3 |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/10/22 08:00 | 08/11/22 16:52 | 7440-47-3 | |
| Cobalt | 0.0058 | mg/L | 0.0050 | 0.00039 | 1 | 08/10/22 08:00 | 08/11/22 16:52 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/10/22 08:00 | 08/11/22 16:52 | 7439-92-1 | |
| Lithium | 0.023J | mg/L | 0.030 | 0.00073 | 1 | 08/10/22 08:00 | 08/11/22 16:52 | 7439-93-2 | |
| Molybdenum | 0.032 | mg/L | 0.010 | 0.00074 | 1 | 08/10/22 08:00 | 08/11/22 16:52 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/10/22 08:00 | 08/11/22 16:52 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/10/22 08:00 | 08/11/22 16:52 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/11/22 07:15 | 08/11/22 12:33 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 632 | mg/L | 20.0 | 20.0 | 1 | | 08/09/22 10:27 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 291 | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 10:53 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 10:53 | | |
| Alkalinity, Total as CaCO ₃ | 291 | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 10:53 | | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3

Pace Project No.: 92618823

| Sample: HGWC-120 | | Lab ID: 92618823003 | | Collected: 08/04/22 15:55 | Received: 08/05/22 14:15 | Matrix: Water | | | |
|--------------------------------|-------------|---|-----------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.050 | 1 | | 08/10/22 03:57 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 2.7 | mg/L | 1.0 | 0.60 | 1 | | 08/17/22 09:14 | 16887-00-6 | |
| Fluoride | 0.38 | mg/L | 0.10 | 0.050 | 1 | | 08/17/22 09:14 | 16984-48-8 | |
| Sulfate | 230 | mg/L | 5.0 | 2.5 | 5 | | 08/18/22 01:23 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3
Pace Project No.: 92618823

| Sample: HGWC-121A | | Lab ID: 92618823004 | | Collected: 08/04/22 13:16 | | Received: 08/05/22 14:15 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 08/08/22 10:12 | | |
| pH | 6.80 | Std. Units | | | 1 | | 08/08/22 10:12 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.086 | mg/L | 0.040 | 0.025 | 1 | 08/11/22 09:30 | 08/11/22 16:19 | 7439-89-6 | |
| Manganese | 0.73 | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 09:30 | 08/11/22 16:19 | 7439-96-5 | |
| Potassium | 1.1 | mg/L | 0.20 | 0.15 | 1 | 08/11/22 09:30 | 08/11/22 16:19 | 7440-09-7 | |
| Sodium | 34.3 | mg/L | 1.0 | 0.58 | 1 | 08/11/22 09:30 | 08/11/22 16:19 | 7440-23-5 | |
| Calcium | 160 | mg/L | 1.0 | 0.12 | 1 | 08/11/22 09:30 | 08/11/22 16:19 | 7440-70-2 | |
| Magnesium | 23.8 | mg/L | 0.050 | 0.012 | 1 | 08/11/22 09:30 | 08/11/22 16:19 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | 0.0016J | mg/L | 0.0030 | 0.00078 | 1 | 08/10/22 08:00 | 08/11/22 17:16 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/10/22 08:00 | 08/11/22 17:16 | 7440-38-2 | |
| Barium | 0.060 | mg/L | 0.0050 | 0.00067 | 1 | 08/10/22 08:00 | 08/11/22 17:16 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/10/22 08:00 | 08/11/22 17:16 | 7440-41-7 | |
| Boron | 1.8 | mg/L | 0.040 | 0.0086 | 1 | 08/10/22 08:00 | 08/11/22 17:16 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/10/22 08:00 | 08/11/22 17:16 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/10/22 08:00 | 08/11/22 17:16 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/10/22 08:00 | 08/11/22 17:16 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/10/22 08:00 | 08/11/22 17:16 | 7439-92-1 | |
| Lithium | 0.0069J | mg/L | 0.030 | 0.00073 | 1 | 08/10/22 08:00 | 08/11/22 17:16 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/10/22 08:00 | 08/11/22 17:16 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/10/22 08:00 | 08/11/22 17:16 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/10/22 08:00 | 08/11/22 17:16 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/11/22 07:15 | 08/11/22 12:36 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 640 | mg/L | 20.0 | 20.0 | 1 | | 08/09/22 10:27 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 352 | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 11:02 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 11:02 | | |
| Alkalinity, Total as CaCO ₃ | 352 | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 11:02 | | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3

Pace Project No.: 92618823

| Sample: HGWC-121A | | Lab ID: 92618823004 | | Collected: 08/04/22 13:16 | Received: 08/05/22 14:15 | Matrix: Water | | | |
|--------------------------------|-------------|---|-----------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.050 | 1 | | 08/10/22 03:57 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 15.4 | mg/L | 1.0 | 0.60 | 1 | | 08/17/22 09:59 | 16887-00-6 | |
| Fluoride | 0.18 | mg/L | 0.10 | 0.050 | 1 | | 08/17/22 09:59 | 16984-48-8 | |
| Sulfate | 162 | mg/L | 3.0 | 1.5 | 3 | | 08/18/22 02:07 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3
Pace Project No.: 92618823

Sample: HGWC-124 **Lab ID: 92618823005** Collected: 08/04/22 11:19 Received: 08/05/22 14:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

Field Data

Analytical Method:
Pace Analytical Services - Charlotte

| | | | | | | | | | |
|--------------|-----------------|------------|--|--|---|--|----------------|--|--|
| Performed by | Customer | | | | 1 | | 08/08/22 10:12 | | |
| pH | 7.15 | Std. Units | | | 1 | | 08/08/22 10:12 | | |

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|-----------|-------------|------|-------|--------|---|----------------|----------------|-----------|--|
| Iron | 0.26 | mg/L | 0.040 | 0.025 | 1 | 08/11/22 09:30 | 08/11/22 16:23 | 7439-89-6 | |
| Manganese | 0.38 | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 09:30 | 08/11/22 16:23 | 7439-96-5 | |
| Potassium | 0.83 | mg/L | 0.20 | 0.15 | 1 | 08/11/22 09:30 | 08/11/22 16:23 | 7440-09-7 | |
| Sodium | 5.6 | mg/L | 1.0 | 0.58 | 1 | 08/11/22 09:30 | 08/11/22 16:23 | 7440-23-5 | |
| Calcium | 103 | mg/L | 1.0 | 0.12 | 1 | 08/11/22 09:30 | 08/11/22 16:23 | 7440-70-2 | |
| Magnesium | 9.5 | mg/L | 0.050 | 0.012 | 1 | 08/11/22 09:30 | 08/11/22 16:23 | 7439-95-4 | |

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------|----------------|------|---------|----------|---|----------------|----------------|-----------|--|
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/10/22 08:00 | 08/11/22 17:21 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/10/22 08:00 | 08/11/22 17:21 | 7440-38-2 | |
| Barium | 0.068 | mg/L | 0.0050 | 0.00067 | 1 | 08/10/22 08:00 | 08/11/22 17:21 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/10/22 08:00 | 08/11/22 17:21 | 7440-41-7 | |
| Boron | 0.36 | mg/L | 0.040 | 0.0086 | 1 | 08/10/22 08:00 | 08/11/22 17:21 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/10/22 08:00 | 08/11/22 17:21 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/10/22 08:00 | 08/11/22 17:21 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/10/22 08:00 | 08/11/22 17:21 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/10/22 08:00 | 08/11/22 17:21 | 7439-92-1 | |
| Lithium | 0.0011J | mg/L | 0.030 | 0.00073 | 1 | 08/10/22 08:00 | 08/11/22 17:21 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/10/22 08:00 | 08/11/22 17:21 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/10/22 08:00 | 08/11/22 17:21 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/10/22 08:00 | 08/11/22 17:21 | 7440-28-0 | |

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|---------|----|------|---------|---------|---|----------------|----------------|-----------|--|
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/11/22 07:15 | 08/11/22 12:39 | 7439-97-6 | |
|---------|----|------|---------|---------|---|----------------|----------------|-----------|--|

2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------------------|------------|------|------|------|---|--|----------------|--|--|
| Total Dissolved Solids | 334 | mg/L | 10.0 | 10.0 | 1 | | 08/09/22 10:01 | | |
|------------------------|------------|------|------|------|---|--|----------------|--|--|

2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

| | | | | | | | | | |
|--|------------|------|-----|-----|---|--|----------------|--|--|
| Alkalinity, Bicarbonate (CaCO ₃) | 239 | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 11:11 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 11:11 | | |
| Alkalinity, Total as CaCO ₃ | 239 | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 11:11 | | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3

Pace Project No.: 92618823

| Sample: HGWC-124 | | Lab ID: 92618823005 | | Collected: 08/04/22 11:19 | Received: 08/05/22 14:15 | Matrix: Water | | | |
|--------------------------------|---------------|---|-----------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.050 | 1 | | 08/10/22 03:57 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 2.6 | mg/L | 1.0 | 0.60 | 1 | | 08/17/22 10:13 | 16887-00-6 | |
| Fluoride | 0.074J | mg/L | 0.10 | 0.050 | 1 | | 08/17/22 10:13 | 16984-48-8 | |
| Sulfate | 73.1 | mg/L | 1.0 | 0.50 | 1 | | 08/17/22 10:13 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3
Pace Project No.: 92618823

Sample: HGWC-125 **Lab ID: 92618823006** Collected: 08/04/22 15:40 Received: 08/05/22 14:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|
|------------|---------|-------|--------------|-----|----|----------|----------|---------|------|

Field Data

Analytical Method:
Pace Analytical Services - Charlotte

| | | | | | | | | | |
|--------------|-----------------|------------|--|--|---|--|----------------|--|--|
| Performed by | Customer | | | | 1 | | 08/08/22 10:13 | | |
| pH | 6.09 | Std. Units | | | 1 | | 08/08/22 10:13 | | |

6010D ATL ICP

Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|-----------|-------------|------|-------|--------|---|----------------|----------------|-----------|----|
| Iron | 0.10 | mg/L | 0.040 | 0.025 | 1 | 08/11/22 09:30 | 08/11/22 16:28 | 7439-89-6 | |
| Manganese | 2.3 | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 09:30 | 08/11/22 16:28 | 7439-96-5 | |
| Potassium | 3.4 | mg/L | 0.20 | 0.15 | 1 | 08/11/22 09:30 | 08/11/22 16:28 | 7440-09-7 | |
| Sodium | 16.2 | mg/L | 1.0 | 0.58 | 1 | 08/11/22 09:30 | 08/11/22 16:28 | 7440-23-5 | M1 |
| Calcium | 170 | mg/L | 1.0 | 0.12 | 1 | 08/11/22 09:30 | 08/11/22 16:28 | 7440-70-2 | M1 |
| Magnesium | 27.3 | mg/L | 0.050 | 0.012 | 1 | 08/11/22 09:30 | 08/11/22 16:28 | 7439-95-4 | M1 |

6020 MET ICPMS

Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------|----------------|------|---------|----------|---|----------------|----------------|-----------|--|
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/10/22 08:00 | 08/11/22 17:27 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/10/22 08:00 | 08/11/22 17:27 | 7440-38-2 | |
| Barium | 0.037 | mg/L | 0.0050 | 0.00067 | 1 | 08/10/22 08:00 | 08/11/22 17:27 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/10/22 08:00 | 08/11/22 17:27 | 7440-41-7 | |
| Boron | 1.4 | mg/L | 0.040 | 0.0086 | 1 | 08/10/22 08:00 | 08/11/22 17:27 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/10/22 08:00 | 08/11/22 17:27 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/10/22 08:00 | 08/11/22 17:27 | 7440-47-3 | |
| Cobalt | 0.014 | mg/L | 0.0050 | 0.00039 | 1 | 08/10/22 08:00 | 08/11/22 17:27 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/10/22 08:00 | 08/11/22 17:27 | 7439-92-1 | |
| Lithium | 0.0035J | mg/L | 0.030 | 0.00073 | 1 | 08/10/22 08:00 | 08/11/22 17:27 | 7439-93-2 | |
| Molybdenum | 0.0023J | mg/L | 0.010 | 0.00074 | 1 | 08/10/22 08:00 | 08/11/22 17:27 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/10/22 08:00 | 08/11/22 17:27 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/10/22 08:00 | 08/11/22 17:27 | 7440-28-0 | |

7470 Mercury

Analytical Method: EPA 7470A Preparation Method: EPA 7470A
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|---------|----|------|---------|---------|---|----------------|----------------|-----------|--|
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/11/22 07:15 | 08/11/22 12:41 | 7439-97-6 | |
|---------|----|------|---------|---------|---|----------------|----------------|-----------|--|

2540C Total Dissolved Solids

Analytical Method: SM 2540C-2015
Pace Analytical Services - Peachtree Corners, GA

| | | | | | | | | | |
|------------------------|------------|------|------|------|---|--|----------------|--|--|
| Total Dissolved Solids | 706 | mg/L | 20.0 | 20.0 | 1 | | 08/09/22 10:02 | | |
|------------------------|------------|------|------|------|---|--|----------------|--|--|

2320B Alkalinity

Analytical Method: SM 2320B-2011
Pace Analytical Services - Asheville

| | | | | | | | | | |
|--|------------|------|-----|-----|---|--|----------------|--|--|
| Alkalinity, Bicarbonate (CaCO ₃) | 189 | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 03:32 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 03:32 | | |
| Alkalinity, Total as CaCO ₃ | 189 | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 03:32 | | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3

Pace Project No.: 92618823

| Sample: HGWC-125 | | Lab ID: 92618823006 | | Collected: 08/04/22 15:40 | Received: 08/05/22 14:15 | Matrix: Water | | | |
|--------------------------------|-------------|---|--------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.050 | 1 | | 08/10/22 03:58 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 11.6 | mg/L | 1.0 | 0.60 | 1 | | 08/17/22 10:28 | 16887-00-6 | |
| Fluoride | 0.15 | mg/L | 0.10 | 0.050 | 1 | | 08/17/22 10:28 | 16984-48-8 | |
| Sulfate | 331 | mg/L | 7.0 | 3.5 | 7 | | 08/18/22 02:22 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3
Pace Project No.: 92618823

Sample: HGWC-126 **Lab ID: 92618823007** Collected: 08/04/22 16:46 Received: 08/05/22 14:15 Matrix: Water

| Parameters | Results | Units | Report | | | Prepared | Analyzed | CAS No. | Qual |
|---|-----------------|------------|---------|----------|----|----------------|----------------|-----------|------|
| | | | Limit | MDL | DF | | | | |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | Customer | | | | 1 | | 08/08/22 10:13 | | |
| pH | 6.99 | Std. Units | | | 1 | | 08/08/22 10:13 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 1.5 | mg/L | 0.040 | 0.025 | 1 | 08/11/22 09:30 | 08/11/22 16:47 | 7439-89-6 | |
| Manganese | 0.19 | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 09:30 | 08/11/22 16:47 | 7439-96-5 | |
| Potassium | 0.78 | mg/L | 0.20 | 0.15 | 1 | 08/11/22 09:30 | 08/11/22 16:47 | 7440-09-7 | |
| Sodium | 31.3 | mg/L | 1.0 | 0.58 | 1 | 08/11/22 09:30 | 08/11/22 16:47 | 7440-23-5 | |
| Calcium | 141 | mg/L | 1.0 | 0.12 | 1 | 08/11/22 09:30 | 08/11/22 16:47 | 7440-70-2 | |
| Magnesium | 26.5 | mg/L | 0.050 | 0.012 | 1 | 08/11/22 09:30 | 08/11/22 16:47 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/10/22 08:00 | 08/11/22 17:33 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/10/22 08:00 | 08/11/22 17:33 | 7440-38-2 | |
| Barium | 0.24 | mg/L | 0.0050 | 0.00067 | 1 | 08/10/22 08:00 | 08/11/22 17:33 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/10/22 08:00 | 08/11/22 17:33 | 7440-41-7 | |
| Boron | 0.023J | mg/L | 0.040 | 0.0086 | 1 | 08/10/22 08:00 | 08/11/22 17:33 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/10/22 08:00 | 08/11/22 17:33 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/10/22 08:00 | 08/11/22 17:33 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/10/22 08:00 | 08/11/22 17:33 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/10/22 08:00 | 08/11/22 17:33 | 7439-92-1 | |
| Lithium | 0.0034J | mg/L | 0.030 | 0.00073 | 1 | 08/10/22 08:00 | 08/11/22 17:33 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/10/22 08:00 | 08/11/22 17:33 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/10/22 08:00 | 08/11/22 17:33 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/10/22 08:00 | 08/11/22 17:33 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/11/22 07:15 | 08/11/22 12:44 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 | | | | | | | | | |
| Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 510 | mg/L | 20.0 | 20.0 | 1 | | 08/09/22 10:02 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 434 | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 11:19 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 11:19 | | |
| Alkalinity, Total as CaCO ₃ | 434 | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 11:19 | | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3

Pace Project No.: 92618823

| Sample: HGWC-126 Lab ID: 92618823007 Collected: 08/04/22 16:46 Received: 08/05/22 14:15 Matrix: Water | | | | | | | | | |
|---|-------------|-------|-----------------|-------|----|----------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | | | | | | | | |
| Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.050 | 1 | | 08/10/22 04:01 | 18496-25-8 | M1 |
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | | |
| Chloride | 8.7 | mg/L | 1.0 | 0.60 | 1 | | 08/17/22 10:43 | 16887-00-6 | |
| Fluoride | 0.50 | mg/L | 0.10 | 0.050 | 1 | | 08/17/22 10:43 | 16984-48-8 | |
| Sulfate | 68.3 | mg/L | 1.0 | 0.50 | 1 | | 08/17/22 10:43 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3
Pace Project No.: 92618823

| Sample: DUP-3 | | Lab ID: 92618823008 | | 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 | |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Iron | 0.058 | mg/L | 0.040 | 0.025 | 1 | 08/11/22 09:30 | 08/11/22 16:52 | 7439-89-6 | | |
| Manganese | 0.74 | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 09:30 | 08/11/22 16:52 | 7439-96-5 | | |
| Potassium | 1.1 | mg/L | 0.20 | 0.15 | 1 | 08/11/22 09:30 | 08/11/22 16:52 | 7440-09-7 | | |
| Sodium | 34.8 | mg/L | 1.0 | 0.58 | 1 | 08/11/22 09:30 | 08/11/22 16:52 | 7440-23-5 | | |
| Calcium | 162 | mg/L | 1.0 | 0.12 | 1 | 08/11/22 09:30 | 08/11/22 16:52 | 7440-70-2 | | |
| Magnesium | 23.9 | mg/L | 0.050 | 0.012 | 1 | 08/11/22 09:30 | 08/11/22 16:52 | 7439-95-4 | | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/10/22 08:00 | 08/11/22 17:55 | 7440-36-0 | | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/10/22 08:00 | 08/11/22 17:55 | 7440-38-2 | | |
| Barium | 0.059 | mg/L | 0.0050 | 0.00067 | 1 | 08/10/22 08:00 | 08/11/22 17:55 | 7440-39-3 | | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/10/22 08:00 | 08/11/22 17:55 | 7440-41-7 | | |
| Boron | 1.8 | mg/L | 0.040 | 0.0086 | 1 | 08/10/22 08:00 | 08/11/22 17:55 | 7440-42-8 | | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/10/22 08:00 | 08/11/22 17:55 | 7440-43-9 | | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/10/22 08:00 | 08/11/22 17:55 | 7440-47-3 | | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/10/22 08:00 | 08/11/22 17:55 | 7440-48-4 | | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/10/22 08:00 | 08/11/22 17:55 | 7439-92-1 | | |
| Lithium | 0.0069J | mg/L | 0.030 | 0.00073 | 1 | 08/10/22 08:00 | 08/11/22 17:55 | 7439-93-2 | | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/10/22 08:00 | 08/11/22 17:55 | 7439-98-7 | | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/10/22 08:00 | 08/11/22 17:55 | 7782-49-2 | | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/10/22 08:00 | 08/11/22 17:55 | 7440-28-0 | | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/11/22 07:15 | 08/11/22 12:47 | 7439-97-6 | | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | |
| Total Dissolved Solids | 628 | mg/L | 20.0 | 20.0 | 1 | | 08/09/22 10:02 | | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 366 | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 19:54 | | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 19:54 | | | |
| Alkalinity, Total as CaCO3 | 366 | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 19:54 | | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.050 | 1 | | 08/10/22 04:03 | 18496-25-8 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 15.3 | mg/L | 1.0 | 0.60 | 1 | | 08/17/22 10:58 | 16887-00-6 | | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3

Pace Project No.: 92618823

Sample: DUP-3 **Lab ID: 92618823008** 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 |
|---|-------------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | 0.18 | mg/L | 0.10 | 0.050 | 1 | | 08/17/22 10:58 | 16984-48-8 | |
| Sulfate | 164 | mg/L | 3.0 | 1.5 | 3 | | 08/18/22 02:37 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3
Pace Project No.: 92618823

| Sample: EB-3 | | Lab ID: 92618823009 | | Collected: 08/04/22 17:25 | Received: 08/05/22 14:15 | Matrix: Water | | | |
|-------------------------------------|---------------|--|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 08/11/22 09:30 | 08/11/22 16:57 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 09:30 | 08/11/22 16:57 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.20 | 0.15 | 1 | 08/11/22 09:30 | 08/11/22 16:57 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 08/11/22 09:30 | 08/11/22 16:57 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 08/11/22 09:30 | 08/11/22 16:57 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 08/11/22 09:30 | 08/11/22 16:57 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/10/22 08:00 | 08/11/22 18:01 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/10/22 08:00 | 08/11/22 18:01 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00067 | 1 | 08/10/22 08:00 | 08/11/22 18:01 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/10/22 08:00 | 08/11/22 18:01 | 7440-41-7 | |
| Boron | 0.012J | mg/L | 0.040 | 0.0086 | 1 | 08/10/22 08:00 | 08/11/22 18:01 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/10/22 08:00 | 08/11/22 18:01 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/10/22 08:00 | 08/11/22 18:01 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/10/22 08:00 | 08/11/22 18:01 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/10/22 08:00 | 08/11/22 18:01 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/10/22 08:00 | 08/11/22 18:01 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/10/22 08:00 | 08/11/22 18:01 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/10/22 08:00 | 08/11/22 18:01 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/10/22 08:00 | 08/11/22 18:01 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/11/22 07:15 | 08/11/22 12:49 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 10.0 | 10.0 | 1 | | 08/09/22 10:02 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 12:51 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 12:51 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 12:51 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.050 | 1 | | 08/10/22 04:04 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 08/17/22 11:13 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3

Pace Project No.: 92618823

Sample: EB-3 **Lab ID: 92618823009** Collected: 08/04/22 17:25 Received: 08/05/22 14:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 08/17/22 11:13 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 08/17/22 11:13 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3
Pace Project No.: 92618823

| Sample: FB-3 | | Lab ID: 92618823010 | | Collected: 08/04/22 17:05 | Received: 08/05/22 14:15 | Matrix: Water | | | |
|-------------------------------------|---------|--|--------------|---------------------------|--------------------------|----------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 6010D ATL ICP | | Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Iron | ND | mg/L | 0.040 | 0.025 | 1 | 08/11/22 09:30 | 08/11/22 17:02 | 7439-89-6 | |
| Manganese | ND | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 09:30 | 08/11/22 17:02 | 7439-96-5 | |
| Potassium | ND | mg/L | 0.20 | 0.15 | 1 | 08/11/22 09:30 | 08/11/22 17:02 | 7440-09-7 | |
| Sodium | ND | mg/L | 1.0 | 0.58 | 1 | 08/11/22 09:30 | 08/11/22 17:02 | 7440-23-5 | |
| Calcium | ND | mg/L | 1.0 | 0.12 | 1 | 08/11/22 09:30 | 08/11/22 17:02 | 7440-70-2 | |
| Magnesium | ND | mg/L | 0.050 | 0.012 | 1 | 08/11/22 09:30 | 08/11/22 17:02 | 7439-95-4 | |
| 6020 MET ICPMS | | Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/10/22 08:00 | 08/11/22 18:07 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/10/22 08:00 | 08/11/22 18:07 | 7440-38-2 | |
| Barium | ND | mg/L | 0.0050 | 0.00067 | 1 | 08/10/22 08:00 | 08/11/22 18:07 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/10/22 08:00 | 08/11/22 18:07 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.0086 | 1 | 08/10/22 08:00 | 08/11/22 18:07 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/10/22 08:00 | 08/11/22 18:07 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/10/22 08:00 | 08/11/22 18:07 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/10/22 08:00 | 08/11/22 18:07 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/10/22 08:00 | 08/11/22 18:07 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/10/22 08:00 | 08/11/22 18:07 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/10/22 08:00 | 08/11/22 18:07 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/10/22 08:00 | 08/11/22 18:07 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/10/22 08:00 | 08/11/22 18:07 | 7440-28-0 | |
| 7470 Mercury | | Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/11/22 07:15 | 08/11/22 12:52 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | |
| Total Dissolved Solids | ND | mg/L | 10.0 | 10.0 | 1 | | 08/09/22 10:02 | | |
| 2320B Alkalinity | | Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 13:06 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 13:06 | | |
| Alkalinity, Total as CaCO3 | ND | mg/L | 5.0 | 5.0 | 1 | | 08/17/22 13:06 | | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.050 | 1 | | 08/10/22 04:04 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | ND | mg/L | 1.0 | 0.60 | 1 | | 08/17/22 11:58 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND AP-3

Pace Project No.: 92618823

Sample: FB-3 **Lab ID: 92618823010** Collected: 08/04/22 17:05 Received: 08/05/22 14:15 Matrix: Water

| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
|---|---------|-------|-----------------|-------|----|----------|----------------|------------|------|
| 300.0 IC Anions 28 Days | | | | | | | | | |
| Analytical Method: EPA 300.0 Rev 2.1 1993 | | | | | | | | | |
| Pace Analytical Services - Asheville | | | | | | | | | |
| Fluoride | ND | mg/L | 0.10 | 0.050 | 1 | | 08/17/22 11:58 | 16984-48-8 | |
| Sulfate | ND | mg/L | 1.0 | 0.50 | 1 | | 08/17/22 11:58 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

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: 92618823001, 92618823002

METHOD BLANK: 3732776 Matrix: Water
Associated Lab Samples: 92618823001, 92618823002

| 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 | 153 | -362 | -50 | 75-125 | 2 | 20 M1 |
| Iron | mg/L | 0.053 | 1 | 1 | 1.1 | 1.1 | 107 | 108 | 75-125 | 1 | 20 |
| Magnesium | mg/L | 21.3 | 1 | 1 | 21.8 | 22.2 | 57 | 96 | 75-125 | 2 | 20 M1 |
| Manganese | mg/L | 0.31 | 1 | 1 | 1.4 | 1.4 | 105 | 106 | 75-125 | 1 | 20 |
| Potassium | mg/L | 7.7 | 1 | 1 | 8.6 | 8.8 | 92 | 109 | 75-125 | 2 | 20 |
| Sodium | mg/L | 9.4 | 1 | 1 | 10.2 | 10.4 | 79 | 96 | 75-125 | 2 | 20 |

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

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: 92618823003, 92618823004, 92618823005, 92618823006, 92618823007, 92618823008, 92618823009, 92618823010

METHOD BLANK: 3732817 Matrix: Water
Associated Lab Samples: 92618823003, 92618823004, 92618823005, 92618823006, 92618823007, 92618823008, 92618823009, 92618823010

| 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 | |

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,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

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: 92618823001, 92618823002

METHOD BLANK: 3732042 Matrix: Water
Associated Lab Samples: 92618823001, 92618823002

| 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 Spike Conc. | MSD Spike Conc. | MSD Result | | | | | | |
| Antimony | mg/L | ND | 0.1 | 0.1 | 0.12 | 0.13 | 123 | 128 | 75-125 | 4 | 20 | M1 |
| Arsenic | mg/L | ND | 0.1 | 0.1 | 0.10 | 0.10 | 102 | 102 | 75-125 | 0 | 20 | |

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,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: HAMMOND AP-3

Pace Project No.: 92618823

| 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 | | |

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,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

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: 92618823003, 92618823004, 92618823005, 92618823006, 92618823007, 92618823008, 92618823009, 92618823010

METHOD BLANK: 3732802 Matrix: Water
Associated Lab Samples: 92618823003, 92618823004, 92618823005, 92618823006, 92618823007, 92618823008, 92618823009, 92618823010

| 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 |

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,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: HAMMOND AP-3

Pace Project No.: 92618823

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732804 | | | | | | | | | | | | 3732805 | |
|--|-------|-----------------------|----------------|----------------|--------|--------|-------|-------|--------|-----|------|---------|--|
| Parameter | Units | 92618823003 Result | MS | MSD | MS | MSD | MS | MSD | % Rec | Max | Qual | | |
| | | | Spike Conc. | Spike Conc. | Result | Result | % Rec | % Rec | Limits | RPD | | | |
| 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 | | |

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,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

| | | | |
|------------------|-----------|-----------------------|--|
| 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: 92618823001, 92618823002, 92618823003, 92618823004, 92618823005, 92618823006, 92618823007, 92618823008, 92618823009, 92618823010

METHOD BLANK: 3733717 Matrix: Water
Associated Lab Samples: 92618823001, 92618823002, 92618823003, 92618823004, 92618823005, 92618823006, 92618823007, 92618823008, 92618823009, 92618823010

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|---------|----------------|------------|
| Mercury | mg/L | ND | 0.00020 | 0.00013 | 08/11/22 11:59 | |

LABORATORY CONTROL SAMPLE: 3733718

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Mercury | mg/L | 0.0025 | 0.0021 | 83 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3733719 3733720

| Parameter | Units | 92618822001 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 | 0.0019 | 84 | 75 | 75-125 | 10 | 20 | |

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

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: 92618823001, 92618823002, 92618823003, 92618823004

METHOD BLANK: 3731839 Matrix: Water
Associated Lab Samples: 92618823001, 92618823002, 92618823003, 92618823004

| 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 | |

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,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

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: 92618823005, 92618823006, 92618823007, 92618823008, 92618823009, 92618823010

METHOD BLANK: 3731855 Matrix: Water
Associated Lab Samples: 92618823005, 92618823006, 92618823007, 92618823008, 92618823009, 92618823010

| 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 | |

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,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

QC Batch: 716055 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92618823001, 92618823002

METHOD BLANK: 3732994 Matrix: Water
Associated Lab Samples: 92618823001, 92618823002

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 08/09/22 21:00 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/09/22 21:00 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/09/22 21:00 | |

LABORATORY CONTROL SAMPLE: 3732995

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.0 | 102 | 80-120 | |

LABORATORY CONTROL SAMPLE: 3732996

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 52.5 | 105 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3732997 3732998

| Parameter | Units | 92618216031 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Alkalinity, Total as CaCO3 | mg/L | 55.8 | 50 | 50 | 107 | 108 | 103 | 104 | 80-120 | 1 | 25 | |

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,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

QC Batch: 717515 Analysis Method: SM 2320B-2011
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92618823003, 92618823004, 92618823005, 92618823006, 92618823007

METHOD BLANK: 3740358 Matrix: Water
Associated Lab Samples: 92618823003, 92618823004, 92618823005, 92618823006, 92618823007

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|--------------------------------|-------|--------------|-----------------|-----|----------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | ND | 5.0 | 5.0 | 08/16/22 23:08 | |
| Alkalinity,Bicarbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/16/22 23:08 | |
| Alkalinity,Carbonate (CaCO3) | mg/L | ND | 5.0 | 5.0 | 08/16/22 23:08 | |

LABORATORY CONTROL SAMPLE: 3740359

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 51.9 | 104 | 80-120 | |

LABORATORY CONTROL SAMPLE: 3740360

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|----------------------------|-------|-------------|------------|-----------|--------------|------------|
| Alkalinity, Total as CaCO3 | mg/L | 50 | 49.8 | 100 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3740361 3740362

| Parameter | Units | 3740361 | | 3740362 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 92618505017 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 44.2 | 50 | 50 | 93.9 | 94.7 | 99 | 101 | 80-120 | 1 | 25 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3740363 3740364

| Parameter | Units | 3740363 | | 3740364 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|--------------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|------|
| | | 92618505018 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 135 | 50 | 50 | 184 | 184 | 97 | 98 | 80-120 | 0 | 25 |

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

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: 92618823008, 92618823009, 92618823010

METHOD BLANK: 3741339 Matrix: Water
Associated Lab Samples: 92618823008, 92618823009, 92618823010

| 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 | 92618823009 | | 3741344 | | 3741345 | | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|-----------------|-----------|-----------------|-----------|------------|--------------|--------|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD 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 | 92618820012 | | 3742568 | | 3742569 | | % Rec Limits | RPD | Max RPD | Qual |
|----------------------------|-------|-------------|-----------------|-----------|-----------------|-----------|------------|--------------|--------|---------|------|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Result | | | | |
| Alkalinity, Total as CaCO3 | mg/L | 185 | 50 | 50 | 233 | 233 | 97 | 96 | 80-120 | 0 | 25 |

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

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: 92618823001, 92618823002

METHOD BLANK: 3730179 Matrix: Water
Associated Lab Samples: 92618823001, 92618823002

| 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 Limits | RPD | Max RPD | Qual | |
|-----------|-------|-------------|-----------------|-----------|-----------------|-----------|------------|--------------|--------|---------|------|--|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Result | | | | | |
| Sulfide | mg/L | 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 Limits | RPD | Max RPD | Qual | |
|-----------|-------|-------------|-----------------|-----------|-----------------|-----------|------------|--------------|--------|---------|------|--|
| | | MS Result | MSD Spike Conc. | MS Result | MSD Spike Conc. | MS Result | MSD Result | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.53 | 0.53 | 104 | 105 | 80-120 | 1 | 10 | |

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

QC Batch: 716114 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: 92618823003, 92618823004, 92618823005, 92618823006

METHOD BLANK: 3733262 Matrix: Water
Associated Lab Samples: 92618823003, 92618823004, 92618823005, 92618823006

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Sulfide | mg/L | ND | 0.10 | 0.050 | 08/10/22 03:40 | |

LABORATORY CONTROL SAMPLE: 3733263

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Sulfide | mg/L | 0.5 | 0.50 | 99 | 80-120 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3733264 3733265

| Parameter | Units | 92618767003 | | 3733265 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|------------|-----------|------------|----------|-----------|--------------|--------|---------|------|
| | | MS Result | MSD Result | MS Result | MSD Result | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.57 | 0.57 | 107 | 108 | 80-120 | 0 | 10 |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3733266 3733267

| Parameter | Units | 92618767015 | | 3733267 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|------------|-----------|------------|----------|-----------|--------------|--------|---------|-------|
| | | MS Result | MSD Result | MS Result | MSD Result | | | | | | |
| Sulfide | mg/L | ND | 0.5 | 0.5 | 0.36 | 0.33 | 71 | 66 | 80-120 | 8 | 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

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

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

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: 92618823007, 92618823008, 92618823009, 92618823010

METHOD BLANK: 3733268 Matrix: Water
Associated Lab Samples: 92618823007, 92618823008, 92618823009, 92618823010

| 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 | | 3733271 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|-------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| 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 | | 3733273 | | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|-------------|----------------|-----------------|-----------|----------|-----------|--------------|--------|---------|-------|
| | | Result | MS Spike Conc. | MSD Spike Conc. | MS Result | | | | | | |
| Sulfide | mg/L | 3.9 | 0.5 | 0.5 | 4.7 | 4.7 | 164 | 169 | 80-120 | 0 | 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

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

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

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: 92618823001, 92618823002

METHOD BLANK: 3736371 Matrix: Water
Associated Lab Samples: 92618823001, 92618823002

| 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 |

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,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: HAMMOND AP-3
Pace Project No.: 92618823

| | | | |
|------------------|------------------------|-----------------------|--------------------------------------|
| 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: 92618823003, 92618823004, 92618823005, 92618823006, 92618823007, 92618823008, 92618823009, 92618823010

METHOD BLANK: 3740180 Matrix: Water
Associated Lab Samples: 92618823003, 92618823004, 92618823005, 92618823006, 92618823007, 92618823008, 92618823009, 92618823010

| 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 |

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,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: HAMMOND AP-3

Pace Project No.: 92618823

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-3

Pace Project No.: 92618823

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|-----------------|----------|-------------------|------------------|
| 92618823001 | HGWA-45D | | | | |
| 92618823002 | HGWA-122 | | | | |
| 92618823003 | HGWC-120 | | | | |
| 92618823004 | HGWC-121A | | | | |
| 92618823005 | HGWC-124 | | | | |
| 92618823006 | HGWC-125 | | | | |
| 92618823007 | HGWC-126 | | | | |
| 92618823001 | HGWA-45D | EPA 3010A | 716032 | EPA 6010D | 716586 |
| 92618823002 | HGWA-122 | EPA 3010A | 716032 | EPA 6010D | 716586 |
| 92618823003 | HGWC-120 | EPA 3010A | 716036 | EPA 6010D | 716583 |
| 92618823004 | HGWC-121A | EPA 3010A | 716036 | EPA 6010D | 716583 |
| 92618823005 | HGWC-124 | EPA 3010A | 716036 | EPA 6010D | 716583 |
| 92618823006 | HGWC-125 | EPA 3010A | 716036 | EPA 6010D | 716583 |
| 92618823007 | HGWC-126 | EPA 3010A | 716036 | EPA 6010D | 716583 |
| 92618823008 | DUP-3 | EPA 3010A | 716036 | EPA 6010D | 716583 |
| 92618823009 | EB-3 | EPA 3010A | 716036 | EPA 6010D | 716583 |
| 92618823010 | FB-3 | EPA 3010A | 716036 | EPA 6010D | 716583 |
| 92618823001 | HGWA-45D | EPA 3005A | 715918 | EPA 6020B | 716063 |
| 92618823002 | HGWA-122 | EPA 3005A | 715918 | EPA 6020B | 716063 |
| 92618823003 | HGWC-120 | EPA 3005A | 716035 | EPA 6020B | 716280 |
| 92618823004 | HGWC-121A | EPA 3005A | 716035 | EPA 6020B | 716280 |
| 92618823005 | HGWC-124 | EPA 3005A | 716035 | EPA 6020B | 716280 |
| 92618823006 | HGWC-125 | EPA 3005A | 716035 | EPA 6020B | 716280 |
| 92618823007 | HGWC-126 | EPA 3005A | 716035 | EPA 6020B | 716280 |
| 92618823008 | DUP-3 | EPA 3005A | 716035 | EPA 6020B | 716280 |
| 92618823009 | EB-3 | EPA 3005A | 716035 | EPA 6020B | 716280 |
| 92618823010 | FB-3 | EPA 3005A | 716035 | EPA 6020B | 716280 |
| 92618823001 | HGWA-45D | EPA 7470A | 716252 | EPA 7470A | 716491 |
| 92618823002 | HGWA-122 | EPA 7470A | 716252 | EPA 7470A | 716491 |
| 92618823003 | HGWC-120 | EPA 7470A | 716252 | EPA 7470A | 716491 |
| 92618823004 | HGWC-121A | EPA 7470A | 716252 | EPA 7470A | 716491 |
| 92618823005 | HGWC-124 | EPA 7470A | 716252 | EPA 7470A | 716491 |
| 92618823006 | HGWC-125 | EPA 7470A | 716252 | EPA 7470A | 716491 |
| 92618823007 | HGWC-126 | EPA 7470A | 716252 | EPA 7470A | 716491 |
| 92618823008 | DUP-3 | EPA 7470A | 716252 | EPA 7470A | 716491 |
| 92618823009 | EB-3 | EPA 7470A | 716252 | EPA 7470A | 716491 |
| 92618823010 | FB-3 | EPA 7470A | 716252 | EPA 7470A | 716491 |
| 92618823001 | HGWA-45D | SM 2540C-2015 | 715874 | | |
| 92618823002 | HGWA-122 | SM 2540C-2015 | 715874 | | |
| 92618823003 | HGWC-120 | SM 2540C-2015 | 715874 | | |
| 92618823004 | HGWC-121A | SM 2540C-2015 | 715874 | | |
| 92618823005 | HGWC-124 | SM 2540C-2015 | 715879 | | |
| 92618823006 | HGWC-125 | SM 2540C-2015 | 715879 | | |
| 92618823007 | HGWC-126 | SM 2540C-2015 | 715879 | | |
| 92618823008 | DUP-3 | SM 2540C-2015 | 715879 | | |

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-3

Pace Project No.: 92618823

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|------------------------|----------|-------------------|------------------|
| 92618823009 | EB-3 | SM 2540C-2015 | 715879 | | |
| 92618823010 | FB-3 | SM 2540C-2015 | 715879 | | |
| 92618823001 | HGWA-45D | SM 2320B-2011 | 716055 | | |
| 92618823002 | HGWA-122 | SM 2320B-2011 | 716055 | | |
| 92618823003 | HGWC-120 | SM 2320B-2011 | 717515 | | |
| 92618823004 | HGWC-121A | SM 2320B-2011 | 717515 | | |
| 92618823005 | HGWC-124 | SM 2320B-2011 | 717515 | | |
| 92618823006 | HGWC-125 | SM 2320B-2011 | 717515 | | |
| 92618823007 | HGWC-126 | SM 2320B-2011 | 717515 | | |
| 92618823008 | DUP-3 | SM 2320B-2011 | 717728 | | |
| 92618823009 | EB-3 | SM 2320B-2011 | 717728 | | |
| 92618823010 | FB-3 | SM 2320B-2011 | 717728 | | |
| 92618823001 | HGWA-45D | SM 4500-S2D-2011 | 715461 | | |
| 92618823002 | HGWA-122 | SM 4500-S2D-2011 | 715461 | | |
| 92618823003 | HGWC-120 | SM 4500-S2D-2011 | 716114 | | |
| 92618823004 | HGWC-121A | SM 4500-S2D-2011 | 716114 | | |
| 92618823005 | HGWC-124 | SM 4500-S2D-2011 | 716114 | | |
| 92618823006 | HGWC-125 | SM 4500-S2D-2011 | 716114 | | |
| 92618823007 | HGWC-126 | SM 4500-S2D-2011 | 716115 | | |
| 92618823008 | DUP-3 | SM 4500-S2D-2011 | 716115 | | |
| 92618823009 | EB-3 | SM 4500-S2D-2011 | 716115 | | |
| 92618823010 | FB-3 | SM 4500-S2D-2011 | 716115 | | |
| 92618823001 | HGWA-45D | EPA 300.0 Rev 2.1 1993 | 716707 | | |
| 92618823002 | HGWA-122 | EPA 300.0 Rev 2.1 1993 | 716707 | | |
| 92618823003 | HGWC-120 | EPA 300.0 Rev 2.1 1993 | 717488 | | |
| 92618823004 | HGWC-121A | EPA 300.0 Rev 2.1 1993 | 717488 | | |
| 92618823005 | HGWC-124 | EPA 300.0 Rev 2.1 1993 | 717488 | | |
| 92618823006 | HGWC-125 | EPA 300.0 Rev 2.1 1993 | 717488 | | |
| 92618823007 | HGWC-126 | EPA 300.0 Rev 2.1 1993 | 717488 | | |
| 92618823008 | DUP-3 | EPA 300.0 Rev 2.1 1993 | 717488 | | |
| 92618823009 | EB-3 | EPA 300.0 Rev 2.1 1993 | 717488 | | |
| 92618823010 | FB-3 | EPA 300.0 Rev 2.1 1993 | 717488 | | |

REPORT OF LABORATORY ANALYSIS

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



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#: 92618823



Courier: Fed Ex UPS USPS Client Pace Other: _____

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 5/14/22 COW

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? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | 1. |
|---|--|-----|
| Samples Arrived within Hold Time? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | 2. |
| Short Hold Time Analysis (<72 hr.)? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> | 3. |
| Rush Turn Around Time Requested? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> | 4. |
| Sufficient Volume? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | 5. |
| Correct Containers Used? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | 6. |
| Pace Containers Used? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | |
| Containers Intact? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | 7. |
| Dissoived analysis: Samples Field Filtered? | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> | 8. |
| Sample Labels Match COC? | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> | 9. |
| -Includes Date/Time/ID/Analysis Matrix: W | | |
| Headspace in VOA Vials (>5-6mm)? | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> | 10. |
| Trip Blank Present? | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> | 11. |
| Trip Blank Custody Seals Present? | Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <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# : 92618823

Project #

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) (C-) | 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) (C-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (C-) | WGFL-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (C-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (C-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG9H-250 mL Amber NH4Cl (N/A)(C-) | DG9H-40 mL VOA HCl (N/A) | VG9U-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9H-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) (C-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|--|---------------------------------------|---------------------------------------|--|---|-----------------------------------|--|---|---|---|---------------------------------|--|-----------------------------------|----------------------------------|-----------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|----------------------------|--|---|---|---|--|--------------------------------------|--|--|--|
| 1 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

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

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



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Acheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92618823
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

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: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.0

USDA Regulated Soil (N/A, water sample)

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

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

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# : 92618823

PM: NMG

Due Date: 08/18/22

CLIENT: GA-GA Power

| Item# | BP4U-125 mL Plastic Unpreserved (N/A) (Cl-) | BP3U-250 mL Plastic Unpreserved (N/A) | BP2U-500 mL Plastic Unpreserved (N/A) | BP1U-1 liter Plastic Unpreserved (N/A) | BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic ZN Acetate & NaOH (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGfU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2SO3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | DG9S-40 mL VOA H2SO4 (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP1N | 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 | | 3 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | 2 | 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.

September 22, 2022

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

RE: Project: HAMMOND AP-3 RAD
Pace Project No.: 92618780

Dear Joju Abraham:

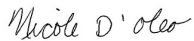
Enclosed are the analytical results for sample(s) received by the laboratory between August 04, 2022 and August 05, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - 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-3 RAD
Pace Project No.: 92618780

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: HAMMOND AP-3 RAD
Pace Project No.: 92618780

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 92618780001 | HGWA-45D | Water | 08/02/22 12:30 | 08/04/22 12:30 |
| 92618780002 | HGWA-122 | Water | 08/02/22 13:57 | 08/04/22 12:30 |
| 92618780003 | HGWC-120 | Water | 08/04/22 15:55 | 08/05/22 14:15 |
| 92618780004 | HGWC-121A | Water | 08/04/22 13:16 | 08/05/22 14:15 |
| 92618780005 | HGWC-124 | Water | 08/04/22 11:19 | 08/05/22 14:15 |
| 92618780006 | HGWC-125 | Water | 08/04/22 15:40 | 08/05/22 14:15 |
| 92618780007 | HGWC-126 | Water | 08/04/22 16:46 | 08/05/22 14:15 |
| 92618780008 | DUP-3 | Water | 08/04/22 00:00 | 08/05/22 14:15 |
| 92618780009 | EB-3 | Water | 08/04/22 17:25 | 08/05/22 14:15 |
| 92618780010 | FB-3 | Water | 08/04/22 17:05 | 08/05/22 14:15 |

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: HAMMOND AP-3 RAD
Pace Project No.: 92618780

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|-------------|-----------|--------------------------|----------|-------------------|------------|
| 92618780001 | HGWA-45D | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92618780002 | HGWA-122 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92618780003 | HGWC-120 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92618780004 | HGWC-121A | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92618780005 | HGWC-124 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92618780006 | HGWC-125 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92618780007 | HGWC-126 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92618780008 | DUP-3 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92618780009 | EB-3 | EPA 9315 | RMS | 1 | PASI-PA |
| | | EPA 9320 | VAL | 1 | PASI-PA |
| | | Total Radium Calculation | JAL | 1 | PASI-PA |
| 92618780010 | FB-3 | 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

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

SUMMARY OF DETECTION

Project: HAMMOND AP-3 RAD
Pace Project No.: 92618780

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|---|-------|--------------|----------------|------------|
| 92618780001 | HGWA-45D | | | | | |
| EPA 9315 | Radium-226 | 0.292 ± 0.176 (0.262) C:95% T:NA | pCi/L | | 09/05/22 08:49 | |
| EPA 9320 | Radium-228 | 0.217 ± 0.434 (0.958) C:68% T:89% | pCi/L | | 08/26/22 18:43 | |
| Total Radium Calculation | Total Radium | 0.509 ± 0.610 (1.22) | pCi/L | | 09/06/22 15:25 | |
| 92618780002 | HGWA-122 | | | | | |
| EPA 9315 | Radium-226 | 0.142 ± 0.145 (0.280) C:93% T:NA | pCi/L | | 09/05/22 08:49 | |
| EPA 9320 | Radium-228 | 0.431 ± 0.473 (0.982) C:68% T:89% | pCi/L | | 08/26/22 18:43 | |
| Total Radium Calculation | Total Radium | 0.573 ± 0.618 (1.26) | pCi/L | | 09/06/22 15:25 | |
| 92618780003 | HGWC-120 | | | | | |
| EPA 9315 | Radium-226 | 0.0821 ± 0.174 (0.407) C:93% T:NA | pCi/L | | 09/07/22 08:43 | |
| EPA 9320 | Radium-228 | 0.605 ± 0.309 (0.519) C:74% T:95% | pCi/L | | 08/30/22 12:40 | |
| Total Radium Calculation | Total Radium | 0.687 ± 0.483 (0.926) | pCi/L | | 09/08/22 18:24 | |
| 92618780004 | HGWC-121A | | | | | |
| EPA 9315 | Radium-226 | 0.104 ± 0.135 (0.269) C:88% T:NA | pCi/L | | 09/07/22 08:28 | |
| EPA 9320 | Radium-228 | 1.06 ± 0.548 (0.978) C:81% T:93% | pCi/L | | 08/30/22 15:47 | |
| Total Radium Calculation | Total Radium | 1.16 ± 0.683 (1.25) | pCi/L | | 09/08/22 18:24 | |

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: HAMMOND AP-3 RAD
Pace Project No.: 92618780

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|--|-------|--------------|----------------|------------|
| 92618780005 | HGWC-124 | | | | | |
| EPA 9315 | Radium-226 | 0.0130 ± 0.120 (0.326) C:92% T:NA | pCi/L | | 09/07/22 11:06 | |
| EPA 9320 | Radium-228 | 0.147 ± 0.431 (0.965) C:74% T:101% | pCi/L | | 08/30/22 15:48 | |
| Total Radium Calculation | Total Radium | 0.160 ± 0.551 (1.29) | pCi/L | | 09/08/22 18:24 | |
| 92618780006 | HGWC-125 | | | | | |
| EPA 9315 | Radium-226 | 0.213 ± 0.188 (0.344) C:93% T:NA | pCi/L | | 09/07/22 11:06 | |
| EPA 9320 | Radium-228 | 0.758 ± 0.527 (1.03) C:77% T:94% | pCi/L | | 08/30/22 15:48 | |
| Total Radium Calculation | Total Radium | 0.971 ± 0.715 (1.37) | pCi/L | | 09/08/22 18:24 | |
| 92618780007 | HGWC-126 | | | | | |
| EPA 9315 | Radium-226 | 0.703 ± 0.305 (0.357) C:87% T:NA | pCi/L | | 09/07/22 11:06 | |
| EPA 9320 | Radium-228 | 0.638 ± 0.620 (1.28) C:73% T:83% | pCi/L | | 08/30/22 15:48 | |
| Total Radium Calculation | Total Radium | 1.34 ± 0.925 (1.64) | pCi/L | | 09/08/22 18:24 | |
| 92618780008 | DUP-3 | | | | | |
| EPA 9315 | Radium-226 | 0.0507 ± 0.154 (0.381) C:81% T:NA | pCi/L | | 09/07/22 11:06 | |
| EPA 9320 | Radium-228 | 0.152 ± 0.491 (1.10) C:71% T:91% | pCi/L | | 08/30/22 15:48 | |
| Total Radium Calculation | Total Radium | 0.203 ± 0.645 (1.48) | pCi/L | | 09/08/22 18:24 | |

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|---|-------|--------------|----------------|------------|
| 92618780009 | EB-3 | | | | | |
| EPA 9315 | Radium-226 | -0.0276 ± 0.0971 (0.312) C:92% T:NA | pCi/L | | 09/07/22 11:06 | |
| EPA 9320 | Radium-228 | 0.227 ± 0.435 (0.955) C:78% T:96% | pCi/L | | 08/30/22 15:48 | |
| Total Radium Calculation | Total Radium | 0.227 ± 0.532 (1.27) | pCi/L | | 09/08/22 18:24 | |
| 92618780010 | FB-3 | | | | | |
| EPA 9315 | Radium-226 | -0.0584 ± 0.113 (0.370) C:89% T:NA | pCi/L | | 09/07/22 11:06 | |
| EPA 9320 | Radium-228 | 0.754 ± 0.525 (1.01) C:76% T:86% | pCi/L | | 08/30/22 15:48 | |
| Total Radium Calculation | Total Radium | 0.754 ± 0.638 (1.38) | pCi/L | | 09/08/22 18:24 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|--|-------|----------------|------------|------|
| Sample: HGWA-45D Lab ID: 92618780001 Collected: 08/02/22 12:30 Received: 08/04/22 12:30 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.292 ± 0.176 (0.262) C:95% T:NA | pCi/L | 09/05/22 08:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.217 ± 0.434 (0.958) C:68% T:89% | pCi/L | 08/26/22 18:43 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.509 ± 0.610 (1.22) | pCi/L | 09/06/22 15:25 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|--|-------|----------------|------------|------|
| Sample: HGWA-122 Lab ID: 92618780002 Collected: 08/02/22 13:57 Received: 08/04/22 12:30 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.142 ± 0.145 (0.280) C:93% T:NA | pCi/L | 09/05/22 08:49 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.431 ± 0.473 (0.982) C:68% T:89% | pCi/L | 08/26/22 18:43 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.573 ± 0.618 (1.26) | pCi/L | 09/06/22 15:25 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|--|-------|----------------|------------|------|
| Sample: HGWC-120 Lab ID: 92618780003 Collected: 08/04/22 15:55 Received: 08/05/22 14:15 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0821 ± 0.174 (0.407) C:93% T:NA | pCi/L | 09/07/22 08:43 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.605 ± 0.309 (0.519) C:74% T:95% | pCi/L | 08/30/22 12:40 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.687 ± 0.483 (0.926) | pCi/L | 09/08/22 18:24 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--|--------------------------|---|-------|----------------|------------|------|
| Sample: HGWC-121A Lab ID: 92618780004 Collected: 08/04/22 13:16 Received: 08/05/22 14:15 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.104 ± 0.135 (0.269) C:88% T:NA | pCi/L | 09/07/22 08:28 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 1.06 ± 0.548 (0.978) C:81% T:93% | pCi/L | 08/30/22 15:47 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 1.16 ± 0.683 (1.25) | pCi/L | 09/08/22 18:24 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: HGWC-124 Lab ID: 92618780005 Collected: 08/04/22 11:19 Received: 08/05/22 14:15 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0130 ± 0.120 (0.326) C:92% T:NA | pCi/L | 09/07/22 11:06 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.147 ± 0.431 (0.965) C:74% T:101% | pCi/L | 08/30/22 15:48 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.160 ± 0.551 (1.29) | pCi/L | 09/08/22 18:24 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

Sample: HGWC-125 **Lab ID: 92618780006** Collected: 08/04/22 15:40 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 | 0.213 ± 0.188 (0.344) C:93% T:NA | pCi/L | 09/07/22 11:06 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.758 ± 0.527 (1.03) C:77% T:94% | pCi/L | 08/30/22 15:48 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.971 ± 0.715 (1.37) | pCi/L | 09/08/22 18:24 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

Sample: HGWC-126 **Lab ID: 92618780007** Collected: 08/04/22 16:46 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 | 0.703 ± 0.305 (0.357) C:87% T:NA | pCi/L | 09/07/22 11:06 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.638 ± 0.620 (1.28) C:73% T:83% | pCi/L | 08/30/22 15:48 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 1.34 ± 0.925 (1.64) | pCi/L | 09/08/22 18:24 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

Sample: DUP-3 **Lab ID: 92618780008** 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 | 0.0507 ± 0.154 (0.381) C:81% T:NA | pCi/L | 09/07/22 11:06 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.152 ± 0.491 (1.10) C:71% T:91% | pCi/L | 08/30/22 15:48 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.203 ± 0.645 (1.48) | pCi/L | 09/08/22 18:24 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

Sample: EB-3 **Lab ID: 92618780009** Collected: 08/04/22 17:25 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 | -0.0276 ± 0.0971 (0.312) C:92% T:NA | pCi/L | 09/07/22 11:06 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.227 ± 0.435 (0.955) C:78% T:96% | pCi/L | 08/30/22 15:48 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.227 ± 0.532 (1.27) | pCi/L | 09/08/22 18:24 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

Sample: FB-3 **Lab ID: 92618780010** Collected: 08/04/22 17:05 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 | -0.0584 ± 0.113 (0.370) C:89% T:NA | pCi/L | 09/07/22 11:06 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.754 ± 0.525 (1.01) C:76% T:86% | pCi/L | 08/30/22 15:48 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.754 ± 0.638 (1.38) | pCi/L | 09/08/22 18:24 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

QC Batch: 525944

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92618780001, 92618780002

METHOD BLANK: 2551549

Matrix: Water

Associated Lab Samples: 92618780001, 92618780002

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.832 ± 0.466 (0.842) C:68% T:92% | pCi/L | 08/26/22 17:08 | |

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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

QC Batch: 525508

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92618780001, 92618780002

METHOD BLANK: 2549229

Matrix: Water

Associated Lab Samples: 92618780001, 92618780002

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|------------------------------------|-------|----------------|------------|
| Radium-226 | 0.00507 ± 0.115 (0.309) C:93% T:NA | pCi/L | 09/05/22 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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

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: 92618780003, 92618780004, 92618780005, 92618780006, 92618780007, 92618780008, 92618780009, 92618780010

METHOD BLANK: 2549243

Matrix: Water

Associated Lab Samples: 92618780003, 92618780004, 92618780005, 92618780006, 92618780007, 92618780008, 92618780009, 92618780010

| 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

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

QUALIFIERS

Project: HAMMOND AP-3 RAD

Pace Project No.: 92618780

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-3 RAD
Pace Project No.: 92618780

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|--------------------------|----------|-------------------|------------------|
| 92618780001 | HGWA-45D | EPA 9315 | 525508 | | |
| 92618780002 | HGWA-122 | EPA 9315 | 525508 | | |
| 92618780003 | HGWC-120 | EPA 9315 | 525513 | | |
| 92618780004 | HGWC-121A | EPA 9315 | 525513 | | |
| 92618780005 | HGWC-124 | EPA 9315 | 525513 | | |
| 92618780006 | HGWC-125 | EPA 9315 | 525513 | | |
| 92618780007 | HGWC-126 | EPA 9315 | 525513 | | |
| 92618780008 | DUP-3 | EPA 9315 | 525513 | | |
| 92618780009 | EB-3 | EPA 9315 | 525513 | | |
| 92618780010 | FB-3 | EPA 9315 | 525513 | | |
| 92618780001 | HGWA-45D | EPA 9320 | 525944 | | |
| 92618780002 | HGWA-122 | EPA 9320 | 525944 | | |
| 92618780003 | HGWC-120 | EPA 9320 | 525976 | | |
| 92618780004 | HGWC-121A | EPA 9320 | 525976 | | |
| 92618780005 | HGWC-124 | EPA 9320 | 525976 | | |
| 92618780006 | HGWC-125 | EPA 9320 | 525976 | | |
| 92618780007 | HGWC-126 | EPA 9320 | 525976 | | |
| 92618780008 | DUP-3 | EPA 9320 | 525976 | | |
| 92618780009 | EB-3 | EPA 9320 | 525976 | | |
| 92618780010 | FB-3 | EPA 9320 | 525976 | | |
| 92618780001 | HGWA-45D | Total Radium Calculation | 530877 | | |
| 92618780002 | HGWA-122 | Total Radium Calculation | 530877 | | |
| 92618780003 | HGWC-120 | Total Radium Calculation | 531569 | | |
| 92618780004 | HGWC-121A | Total Radium Calculation | 531569 | | |
| 92618780005 | HGWC-124 | Total Radium Calculation | 531569 | | |
| 92618780006 | HGWC-125 | Total Radium Calculation | 531569 | | |
| 92618780007 | HGWC-126 | Total Radium Calculation | 531569 | | |
| 92618780008 | DUP-3 | Total Radium Calculation | 531569 | | |
| 92618780009 | EB-3 | Total Radium Calculation | 531569 | | |
| 92618780010 | FB-3 | Total Radium Calculation | 531569 | | |

REPORT OF LABORATORY ANALYSIS

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



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#: 92618780



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 CWH

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

*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#: 92618780

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-) | BP3N-250 mL plastic HNO3 (pH < 2) | BP4Z-125 mL Plastic 2N Acetate & NaOH (>9) | BP4E-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-) | V5GU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|----------------------------|---|---|---|---|---|--------------------------------------|--|--|--|
| 1 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

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

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



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh

Sample Condition Upon Receipt

Client Name: GA Power

Project PM: NMG Due Date: 08/19/22

CLIENT: GA-GA Power

Courier: Fed Ex UPS USPS Client 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: 1.8 Correction Factor: Add/Subtract (°C) 0.0

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

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

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? | Comments/Discrepancy: |
|-----|---|-----------------------|
| 1. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| 2. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| 3. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| 4. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| 5. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| 6. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Pace Containers Used? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| 7. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| 8. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| 9. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Includes Date/Time/ID/Analysis Matrix: W | |
| 10. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| 11. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO# : 92618780

*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

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 (>9) | BP4B-125 mL Plastic NaOH (pH > 12) (Cl-) | WGFU-Wide-mouthed Glass jar Unpreserved | AG1U-1 liter Amber Unpreserved (N/A) (Cl-) | AG1H-1 liter Amber HCl (pH < 2) | AG3U-250 mL Amber Unpreserved (N/A) (Cl-) | AG1S-1 liter Amber H2SO4 (pH < 2) | AG3S-250 mL Amber H2SO4 (pH < 2) | DG94-250 mL Amber NH4Cl (N/A)(Cl-) | DG9H-40 mL VOA HCl (N/A) | VG9T-40 mL VOA Na2S2O3 (N/A) | VG9U-40 mL VOA Unpreserved (N/A) | DG9V-40 mL VOA H3PO4 (N/A) | DG9S-40 mL VOA H2SO4 (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|----------------------------|--|---|---|---|---|--------------------------------------|--|--|
| 1 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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.

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

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|-------------|-----------|--------|----------------|----------------|
| 92618829001 | HGWA-1 | Water | 08/02/22 09:44 | 08/04/22 12:30 |
| 92618829002 | HGWA-2 | Water | 08/02/22 12:28 | 08/04/22 12:30 |
| 92618829003 | HGWA-3 | Water | 08/02/22 14:08 | 08/04/22 12:30 |
| 92618829004 | HGWA-43D | Water | 08/02/22 09:33 | 08/04/22 12:30 |
| 92618829005 | HGWA-44D | Water | 08/02/22 10:42 | 08/04/22 12:30 |

REPORT OF LABORATORY ANALYSIS

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

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

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

SAMPLE ANALYTE COUNT

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

| Lab ID | Sample ID | Method | Analysts | Analytes Reported |
|---------------|------------------|---------------|-----------------|--------------------------|
|---------------|------------------|---------------|-----------------|--------------------------|

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

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92618829001 | HGWA-1 | | | | | |
| | Performed by | CUSTOME | | | 08/05/22 12:45 | |
| | | R | | | | |
| | pH | 7.03 | Std. Units | | 08/05/22 12:45 | |
| EPA 6010D | Iron | 0.21 | mg/L | 0.040 | 08/11/22 15:26 | |
| EPA 6010D | Manganese | 0.48 | mg/L | 0.040 | 08/11/22 15:26 | |
| EPA 6010D | Potassium | 0.28 | mg/L | 0.20 | 08/11/22 15:26 | |
| EPA 6010D | Sodium | 28.5 | mg/L | 1.0 | 08/11/22 15:26 | |
| EPA 6010D | Calcium | 117 | mg/L | 1.0 | 08/11/22 15:26 | |
| EPA 6010D | Magnesium | 4.4 | mg/L | 0.050 | 08/11/22 15:26 | |
| EPA 6020B | Barium | 0.039 | mg/L | 0.0050 | 08/10/22 20:09 | |
| EPA 6020B | Boron | 0.012J | mg/L | 0.040 | 08/10/22 20:09 | |
| EPA 6020B | Cobalt | 0.00054J | mg/L | 0.0050 | 08/10/22 20:09 | |
| SM 2540C-2015 | Total Dissolved Solids | 400 | mg/L | 10.0 | 08/09/22 10:23 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 266 | mg/L | 5.0 | 08/10/22 13:04 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 266 | mg/L | 5.0 | 08/10/22 13:04 | |
| SM 4500-S2D-2011 | Sulfide | 0.062J | mg/L | 0.10 | 08/06/22 03:40 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 14.1 | mg/L | 1.0 | 08/12/22 17:33 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.090J | mg/L | 0.10 | 08/12/22 17:33 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 58.1 | mg/L | 1.0 | 08/12/22 17:33 | |
| 92618829002 | HGWA-2 | | | | | |
| | Performed by | CUSTOME | | | 08/05/22 12:45 | |
| | | R | | | | |
| | pH | 4.57 | Std. Units | | 08/05/22 12:45 | |
| EPA 6010D | Iron | 0.72 | mg/L | 0.040 | 08/11/22 15:31 | |
| EPA 6010D | Manganese | 0.80 | mg/L | 0.040 | 08/11/22 15:31 | |
| EPA 6010D | Potassium | 1.0 | mg/L | 0.20 | 08/11/22 15:31 | |
| EPA 6010D | Sodium | 11.2 | mg/L | 1.0 | 08/11/22 15:31 | |
| EPA 6010D | Calcium | 31.2 | mg/L | 1.0 | 08/11/22 15:31 | |
| EPA 6010D | Magnesium | 4.0 | mg/L | 0.050 | 08/11/22 15:31 | |
| EPA 6020B | Barium | 0.11 | mg/L | 0.0050 | 08/10/22 20:15 | |
| EPA 6020B | Beryllium | 0.00019J | mg/L | 0.00050 | 08/10/22 20:15 | |
| EPA 6020B | Boron | 0.047 | mg/L | 0.040 | 08/10/22 20:15 | |
| EPA 6020B | Cadmium | 0.00023J | mg/L | 0.00050 | 08/10/22 20:15 | |
| EPA 6020B | Cobalt | 0.024 | mg/L | 0.0050 | 08/10/22 20:15 | |
| EPA 6020B | Lithium | 0.0013J | mg/L | 0.030 | 08/10/22 20:15 | |
| EPA 6020B | Selenium | 0.0014J | mg/L | 0.0050 | 08/10/22 20:15 | |
| SM 2540C-2015 | Total Dissolved Solids | 196 | mg/L | 10.0 | 08/09/22 10:23 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 12.8 | mg/L | 5.0 | 08/10/22 11:59 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 12.8 | mg/L | 5.0 | 08/10/22 11:59 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 7.8 | mg/L | 1.0 | 08/12/22 17:49 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.053J | mg/L | 0.10 | 08/12/22 17:49 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 86.9 | mg/L | 1.0 | 08/12/22 17:49 | |
| 92618829003 | HGWA-3 | | | | | |
| | Performed by | CUSTOME | | | 08/05/22 12:45 | |
| | | R | | | | |
| | pH | 7.02 | Std. Units | | 08/05/22 12:45 | |
| EPA 6010D | Iron | 1.0 | mg/L | 0.040 | 08/11/22 15:35 | |

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

| Lab Sample ID | Client Sample ID | Result | Units | Report Limit | Analyzed | Qualifiers |
|------------------------|--------------------------------|----------|------------|--------------|----------------|------------|
| Method | Parameters | | | | | |
| 92618829003 | HGWA-3 | | | | | |
| EPA 6010D | Manganese | 0.24 | mg/L | 0.040 | 08/11/22 15:35 | |
| EPA 6010D | Potassium | 0.37 | mg/L | 0.20 | 08/11/22 15:35 | |
| EPA 6010D | Sodium | 5.7 | mg/L | 1.0 | 08/11/22 15:35 | |
| EPA 6010D | Calcium | 84.6 | mg/L | 1.0 | 08/11/22 15:35 | |
| EPA 6010D | Magnesium | 5.2 | mg/L | 0.050 | 08/11/22 15:35 | |
| EPA 6020B | Barium | 0.16 | mg/L | 0.0050 | 08/10/22 20:21 | |
| EPA 6020B | Lithium | 0.0030J | mg/L | 0.030 | 08/10/22 20:21 | |
| SM 2540C-2015 | Total Dissolved Solids | 287 | mg/L | 10.0 | 08/09/22 10:23 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 179 | mg/L | 5.0 | 08/10/22 12:16 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 179 | mg/L | 5.0 | 08/10/22 12:16 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 5.9 | mg/L | 1.0 | 08/12/22 18:35 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.067J | mg/L | 0.10 | 08/12/22 18:35 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 43.5 | mg/L | 1.0 | 08/12/22 18:35 | |
| 92618829004 | HGWA-43D | | | | | |
| | Performed by | CUSTOMER | | | 08/05/22 12:45 | |
| | pH | 7.15 | Std. Units | | 08/05/22 12:45 | |
| EPA 6010D | Iron | 0.31 | mg/L | 0.040 | 08/11/22 15:40 | |
| EPA 6010D | Manganese | 0.019J | mg/L | 0.040 | 08/11/22 15:40 | |
| EPA 6010D | Potassium | 0.80 | mg/L | 0.20 | 08/11/22 15:40 | |
| EPA 6010D | Sodium | 24.8 | mg/L | 1.0 | 08/11/22 15:40 | |
| EPA 6010D | Calcium | 54.1 | mg/L | 1.0 | 08/11/22 15:40 | |
| EPA 6010D | Magnesium | 17.2 | mg/L | 0.050 | 08/11/22 15:40 | |
| EPA 6020B | Barium | 0.35 | mg/L | 0.0050 | 08/10/22 20:27 | |
| EPA 6020B | Boron | 0.043 | mg/L | 0.040 | 08/10/22 20:27 | |
| EPA 6020B | Lithium | 0.0019J | mg/L | 0.030 | 08/10/22 20:27 | |
| EPA 6020B | Molybdenum | 0.0042J | mg/L | 0.010 | 08/10/22 20:27 | |
| SM 2540C-2015 | Total Dissolved Solids | 278 | mg/L | 10.0 | 08/09/22 10:23 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 203 | mg/L | 5.0 | 08/10/22 13:13 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 203 | mg/L | 5.0 | 08/10/22 13:13 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 4.3 | mg/L | 1.0 | 08/12/22 18:50 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.22 | mg/L | 0.10 | 08/12/22 18:50 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 37.0 | mg/L | 1.0 | 08/12/22 18:50 | |
| 92618829005 | HGWA-44D | | | | | |
| | Performed by | CUSTOMER | | | 08/05/22 12:45 | |
| | pH | 7.90 | Std. Units | | 08/05/22 12:45 | |
| EPA 6010D | Iron | 0.24 | mg/L | 0.040 | 08/11/22 15:45 | |
| EPA 6010D | Manganese | 0.013J | mg/L | 0.040 | 08/11/22 15:45 | |
| EPA 6010D | Potassium | 3.9 | mg/L | 0.20 | 08/11/22 15:45 | |
| EPA 6010D | Sodium | 94.6 | mg/L | 1.0 | 08/11/22 15:45 | |
| EPA 6010D | Calcium | 20.9 | mg/L | 1.0 | 08/11/22 15:45 | |
| EPA 6010D | Magnesium | 12.2 | mg/L | 0.050 | 08/11/22 15:45 | |
| EPA 6020B | Barium | 0.37 | mg/L | 0.0050 | 08/10/22 20:33 | |
| EPA 6020B | Boron | 0.31 | mg/L | 0.040 | 08/10/22 20:33 | |
| EPA 6020B | Lithium | 0.041 | mg/L | 0.030 | 08/10/22 20:33 | |
| EPA 6020B | Molybdenum | 0.0020J | mg/L | 0.010 | 08/10/22 20:33 | |

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|-------------------------|--------------------------------|--------|-------|--------------|----------------|------------|
| 92618829005 | HGWA-44D | | | | | |
| SM 2540C-2015 | Total Dissolved Solids | 311 | mg/L | 10.0 | 08/09/22 10:27 | |
| SM 2320B-2011 | Alkalinity,Bicarbonate (CaCO3) | 263 | mg/L | 5.0 | 08/10/22 13:21 | |
| SM 2320B-2011 | Alkalinity, Total as CaCO3 | 263 | mg/L | 5.0 | 08/10/22 13:21 | M1 |
| SM 4500-S2D-2011 | Sulfide | 0.058J | mg/L | 0.10 | 08/06/22 03:44 | |
| EPA 300.0 Rev 2.1 1993 | Chloride | 19.8 | mg/L | 1.0 | 08/17/22 03:36 | |
| EPA 300.0 Rev 2.1 1993 | Fluoride | 0.80 | mg/L | 0.10 | 08/17/22 03:36 | |
| EPA 300.0 Rev 2.1 1993 | Sulfate | 13.2 | mg/L | 1.0 | 08/17/22 03:36 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

| Sample: HGWA-1 | | Lab ID: 92618829001 | | Collected: 08/02/22 09:44 | | Received: 08/04/22 12:30 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 08/05/22 12:45 | | |
| pH | 7.03 | Std. Units | | | 1 | | 08/05/22 12:45 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.21 | mg/L | 0.040 | 0.025 | 1 | 08/11/22 10:02 | 08/11/22 15:26 | 7439-89-6 | |
| Manganese | 0.48 | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 10:02 | 08/11/22 15:26 | 7439-96-5 | |
| Potassium | 0.28 | mg/L | 0.20 | 0.15 | 1 | 08/11/22 10:02 | 08/11/22 15:26 | 7440-09-7 | |
| Sodium | 28.5 | mg/L | 1.0 | 0.58 | 1 | 08/11/22 10:02 | 08/11/22 15:26 | 7440-23-5 | |
| Calcium | 117 | mg/L | 1.0 | 0.12 | 1 | 08/11/22 10:02 | 08/11/22 15:26 | 7440-70-2 | |
| Magnesium | 4.4 | mg/L | 0.050 | 0.012 | 1 | 08/11/22 10:02 | 08/11/22 15:26 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/09/22 14:37 | 08/10/22 20:09 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/09/22 14:37 | 08/10/22 20:09 | 7440-38-2 | |
| Barium | 0.039 | mg/L | 0.0050 | 0.00067 | 1 | 08/09/22 14:37 | 08/10/22 20:09 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/09/22 14:37 | 08/10/22 20:09 | 7440-41-7 | |
| Boron | 0.012J | mg/L | 0.040 | 0.0086 | 1 | 08/09/22 14:37 | 08/10/22 20:09 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/09/22 14:37 | 08/10/22 20:09 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/09/22 14:37 | 08/10/22 20:09 | 7440-47-3 | |
| Cobalt | 0.00054J | mg/L | 0.0050 | 0.00039 | 1 | 08/09/22 14:37 | 08/10/22 20:09 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/09/22 14:37 | 08/10/22 20:09 | 7439-92-1 | |
| Lithium | ND | mg/L | 0.030 | 0.00073 | 1 | 08/09/22 14:37 | 08/10/22 20:09 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/09/22 14:37 | 08/10/22 20:09 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/09/22 14:37 | 08/10/22 20:09 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/09/22 14:37 | 08/10/22 20:09 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/10/22 15:15 | 08/11/22 11:40 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 400 | mg/L | 10.0 | 10.0 | 1 | | 08/09/22 10:23 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 266 | mg/L | 5.0 | 5.0 | 1 | | 08/10/22 13:04 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/10/22 13:04 | | |
| Alkalinity, Total as CaCO ₃ | 266 | mg/L | 5.0 | 5.0 | 1 | | 08/10/22 13:04 | | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

| Sample: HGWA-1 | | Lab ID: 92618829001 | | Collected: 08/02/22 09:44 | Received: 08/04/22 12:30 | Matrix: Water | | | | |
|--------------------------------|---------------|---|--------------|---------------------------|--------------------------|---------------|----------------|------------|------|--|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual | |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | | |
| Sulfide | 0.062J | mg/L | 0.10 | 0.050 | 1 | | 08/06/22 03:40 | 18496-25-8 | | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | | |
| Chloride | 14.1 | mg/L | 1.0 | 0.60 | 1 | | 08/12/22 17:33 | 16887-00-6 | | |
| Fluoride | 0.090J | mg/L | 0.10 | 0.050 | 1 | | 08/12/22 17:33 | 16984-48-8 | | |
| Sulfate | 58.1 | mg/L | 1.0 | 0.50 | 1 | | 08/12/22 17:33 | 14808-79-8 | | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

| Sample: HGWA-2 | | Lab ID: 92618829002 | | Collected: 08/02/22 12:28 | | Received: 08/04/22 12:30 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 08/05/22 12:45 | | |
| pH | 4.57 | Std. Units | | | 1 | | 08/05/22 12:45 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.72 | mg/L | 0.040 | 0.025 | 1 | 08/11/22 10:02 | 08/11/22 15:31 | 7439-89-6 | |
| Manganese | 0.80 | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 10:02 | 08/11/22 15:31 | 7439-96-5 | |
| Potassium | 1.0 | mg/L | 0.20 | 0.15 | 1 | 08/11/22 10:02 | 08/11/22 15:31 | 7440-09-7 | |
| Sodium | 11.2 | mg/L | 1.0 | 0.58 | 1 | 08/11/22 10:02 | 08/11/22 15:31 | 7440-23-5 | |
| Calcium | 31.2 | mg/L | 1.0 | 0.12 | 1 | 08/11/22 10:02 | 08/11/22 15:31 | 7440-70-2 | |
| Magnesium | 4.0 | mg/L | 0.050 | 0.012 | 1 | 08/11/22 10:02 | 08/11/22 15:31 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/09/22 14:37 | 08/10/22 20:15 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/09/22 14:37 | 08/10/22 20:15 | 7440-38-2 | |
| Barium | 0.11 | mg/L | 0.0050 | 0.00067 | 1 | 08/09/22 14:37 | 08/10/22 20:15 | 7440-39-3 | |
| Beryllium | 0.00019J | mg/L | 0.00050 | 0.000054 | 1 | 08/09/22 14:37 | 08/10/22 20:15 | 7440-41-7 | |
| Boron | 0.047 | mg/L | 0.040 | 0.0086 | 1 | 08/09/22 14:37 | 08/10/22 20:15 | 7440-42-8 | |
| Cadmium | 0.00023J | mg/L | 0.00050 | 0.00011 | 1 | 08/09/22 14:37 | 08/10/22 20:15 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/09/22 14:37 | 08/10/22 20:15 | 7440-47-3 | |
| Cobalt | 0.024 | mg/L | 0.0050 | 0.00039 | 1 | 08/09/22 14:37 | 08/10/22 20:15 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/09/22 14:37 | 08/10/22 20:15 | 7439-92-1 | |
| Lithium | 0.0013J | mg/L | 0.030 | 0.00073 | 1 | 08/09/22 14:37 | 08/10/22 20:15 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/09/22 14:37 | 08/10/22 20:15 | 7439-98-7 | |
| Selenium | 0.0014J | mg/L | 0.0050 | 0.0014 | 1 | 08/09/22 14:37 | 08/10/22 20:15 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/09/22 14:37 | 08/10/22 20:15 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/10/22 15:15 | 08/11/22 11:43 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 196 | mg/L | 10.0 | 10.0 | 1 | | 08/09/22 10:23 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 12.8 | 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 | 12.8 | mg/L | 5.0 | 5.0 | 1 | | 08/10/22 11:59 | | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

| Sample: HGWA-2 | | Lab ID: 92618829002 | | Collected: 08/02/22 12:28 | Received: 08/04/22 12:30 | Matrix: Water | | | |
|--------------------------------|---------------|---|-----------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.050 | 1 | | 08/06/22 03:41 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 7.8 | mg/L | 1.0 | 0.60 | 1 | | 08/12/22 17:49 | 16887-00-6 | |
| Fluoride | 0.053J | mg/L | 0.10 | 0.050 | 1 | | 08/12/22 17:49 | 16984-48-8 | |
| Sulfate | 86.9 | mg/L | 1.0 | 0.50 | 1 | | 08/12/22 17:49 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

| Sample: HGWA-3 | | Lab ID: 92618829003 | | Collected: 08/02/22 14:08 | | Received: 08/04/22 12:30 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 08/05/22 12:45 | | |
| pH | 7.02 | Std. Units | | | 1 | | 08/05/22 12:45 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 1.0 | mg/L | 0.040 | 0.025 | 1 | 08/11/22 10:02 | 08/11/22 15:35 | 7439-89-6 | |
| Manganese | 0.24 | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 10:02 | 08/11/22 15:35 | 7439-96-5 | |
| Potassium | 0.37 | mg/L | 0.20 | 0.15 | 1 | 08/11/22 10:02 | 08/11/22 15:35 | 7440-09-7 | |
| Sodium | 5.7 | mg/L | 1.0 | 0.58 | 1 | 08/11/22 10:02 | 08/11/22 15:35 | 7440-23-5 | |
| Calcium | 84.6 | mg/L | 1.0 | 0.12 | 1 | 08/11/22 10:02 | 08/11/22 15:35 | 7440-70-2 | |
| Magnesium | 5.2 | mg/L | 0.050 | 0.012 | 1 | 08/11/22 10:02 | 08/11/22 15:35 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/09/22 14:37 | 08/10/22 20:21 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/09/22 14:37 | 08/10/22 20:21 | 7440-38-2 | |
| Barium | 0.16 | mg/L | 0.0050 | 0.00067 | 1 | 08/09/22 14:37 | 08/10/22 20:21 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/09/22 14:37 | 08/10/22 20:21 | 7440-41-7 | |
| Boron | ND | mg/L | 0.040 | 0.0086 | 1 | 08/09/22 14:37 | 08/10/22 20:21 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/09/22 14:37 | 08/10/22 20:21 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/09/22 14:37 | 08/10/22 20:21 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/09/22 14:37 | 08/10/22 20:21 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/09/22 14:37 | 08/10/22 20:21 | 7439-92-1 | |
| Lithium | 0.0030J | mg/L | 0.030 | 0.00073 | 1 | 08/09/22 14:37 | 08/10/22 20:21 | 7439-93-2 | |
| Molybdenum | ND | mg/L | 0.010 | 0.00074 | 1 | 08/09/22 14:37 | 08/10/22 20:21 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/09/22 14:37 | 08/10/22 20:21 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/09/22 14:37 | 08/10/22 20:21 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/10/22 15:15 | 08/11/22 11:45 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 287 | mg/L | 10.0 | 10.0 | 1 | | 08/09/22 10:23 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity, Bicarbonate (CaCO ₃) | 179 | mg/L | 5.0 | 5.0 | 1 | | 08/10/22 12:16 | | |
| Alkalinity, Carbonate (CaCO ₃) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/10/22 12:16 | | |
| Alkalinity, Total as CaCO ₃ | 179 | mg/L | 5.0 | 5.0 | 1 | | 08/10/22 12:16 | | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

| Sample: HGWA-3 | | Lab ID: 92618829003 | | Collected: 08/02/22 14:08 | Received: 08/04/22 12:30 | Matrix: Water | | | |
|--------------------------------|---------------|---|--------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.050 | 1 | | 08/06/22 03:41 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 5.9 | mg/L | 1.0 | 0.60 | 1 | | 08/12/22 18:35 | 16887-00-6 | |
| Fluoride | 0.067J | mg/L | 0.10 | 0.050 | 1 | | 08/12/22 18:35 | 16984-48-8 | |
| Sulfate | 43.5 | mg/L | 1.0 | 0.50 | 1 | | 08/12/22 18:35 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

| Sample: HGWA-43D | | Lab ID: 92618829004 | | Collected: 08/02/22 09:33 | | Received: 08/04/22 12:30 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 08/05/22 12:45 | | |
| pH | 7.15 | Std. Units | | | 1 | | 08/05/22 12:45 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.31 | mg/L | 0.040 | 0.025 | 1 | 08/11/22 10:02 | 08/11/22 15:40 | 7439-89-6 | |
| Manganese | 0.019J | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 10:02 | 08/11/22 15:40 | 7439-96-5 | |
| Potassium | 0.80 | mg/L | 0.20 | 0.15 | 1 | 08/11/22 10:02 | 08/11/22 15:40 | 7440-09-7 | |
| Sodium | 24.8 | mg/L | 1.0 | 0.58 | 1 | 08/11/22 10:02 | 08/11/22 15:40 | 7440-23-5 | |
| Calcium | 54.1 | mg/L | 1.0 | 0.12 | 1 | 08/11/22 10:02 | 08/11/22 15:40 | 7440-70-2 | |
| Magnesium | 17.2 | mg/L | 0.050 | 0.012 | 1 | 08/11/22 10:02 | 08/11/22 15:40 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/09/22 14:37 | 08/10/22 20:27 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/09/22 14:37 | 08/10/22 20:27 | 7440-38-2 | |
| Barium | 0.35 | mg/L | 0.0050 | 0.00067 | 1 | 08/09/22 14:37 | 08/10/22 20:27 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/09/22 14:37 | 08/10/22 20:27 | 7440-41-7 | |
| Boron | 0.043 | mg/L | 0.040 | 0.0086 | 1 | 08/09/22 14:37 | 08/10/22 20:27 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/09/22 14:37 | 08/10/22 20:27 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/09/22 14:37 | 08/10/22 20:27 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/09/22 14:37 | 08/10/22 20:27 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/09/22 14:37 | 08/10/22 20:27 | 7439-92-1 | |
| Lithium | 0.0019J | mg/L | 0.030 | 0.00073 | 1 | 08/09/22 14:37 | 08/10/22 20:27 | 7439-93-2 | |
| Molybdenum | 0.0042J | mg/L | 0.010 | 0.00074 | 1 | 08/09/22 14:37 | 08/10/22 20:27 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/09/22 14:37 | 08/10/22 20:27 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/09/22 14:37 | 08/10/22 20:27 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/10/22 15:15 | 08/11/22 11:48 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 278 | mg/L | 10.0 | 10.0 | 1 | | 08/09/22 10:23 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (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

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

ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

| Sample: HGWA-43D | | Lab ID: 92618829004 | | Collected: 08/02/22 09:33 | Received: 08/04/22 12:30 | Matrix: Water | | | |
|--------------------------------|-------------|---|--------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | ND | mg/L | 0.10 | 0.050 | 1 | | 08/06/22 03:44 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 4.3 | mg/L | 1.0 | 0.60 | 1 | | 08/12/22 18:50 | 16887-00-6 | |
| Fluoride | 0.22 | mg/L | 0.10 | 0.050 | 1 | | 08/12/22 18:50 | 16984-48-8 | |
| Sulfate | 37.0 | mg/L | 1.0 | 0.50 | 1 | | 08/12/22 18:50 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

| Sample: HGWA-44D | | Lab ID: 92618829005 | | Collected: 08/02/22 10:42 | | Received: 08/04/22 12:30 | | Matrix: Water | |
|--|-----------------|---------------------|--------------|---------------------------|----|--------------------------|----------------|---------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| Field Data | | | | | | | | | |
| Analytical Method: Pace Analytical Services - Charlotte | | | | | | | | | |
| Performed by | CUSTOMER | | | | 1 | | 08/05/22 12:45 | | |
| pH | 7.90 | Std. Units | | | 1 | | 08/05/22 12:45 | | |
| 6010D ATL ICP | | | | | | | | | |
| Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Iron | 0.24 | mg/L | 0.040 | 0.025 | 1 | 08/11/22 10:02 | 08/11/22 15:45 | 7439-89-6 | |
| Manganese | 0.013J | mg/L | 0.040 | 0.0043 | 1 | 08/11/22 10:02 | 08/11/22 15:45 | 7439-96-5 | |
| Potassium | 3.9 | mg/L | 0.20 | 0.15 | 1 | 08/11/22 10:02 | 08/11/22 15:45 | 7440-09-7 | |
| Sodium | 94.6 | mg/L | 1.0 | 0.58 | 1 | 08/11/22 10:02 | 08/11/22 15:45 | 7440-23-5 | |
| Calcium | 20.9 | mg/L | 1.0 | 0.12 | 1 | 08/11/22 10:02 | 08/11/22 15:45 | 7440-70-2 | |
| Magnesium | 12.2 | mg/L | 0.050 | 0.012 | 1 | 08/11/22 10:02 | 08/11/22 15:45 | 7439-95-4 | |
| 6020 MET ICPMS | | | | | | | | | |
| Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Antimony | ND | mg/L | 0.0030 | 0.00078 | 1 | 08/09/22 14:37 | 08/10/22 20:33 | 7440-36-0 | |
| Arsenic | ND | mg/L | 0.0050 | 0.0022 | 1 | 08/09/22 14:37 | 08/10/22 20:33 | 7440-38-2 | |
| Barium | 0.37 | mg/L | 0.0050 | 0.00067 | 1 | 08/09/22 14:37 | 08/10/22 20:33 | 7440-39-3 | |
| Beryllium | ND | mg/L | 0.00050 | 0.000054 | 1 | 08/09/22 14:37 | 08/10/22 20:33 | 7440-41-7 | |
| Boron | 0.31 | mg/L | 0.040 | 0.0086 | 1 | 08/09/22 14:37 | 08/10/22 20:33 | 7440-42-8 | |
| Cadmium | ND | mg/L | 0.00050 | 0.00011 | 1 | 08/09/22 14:37 | 08/10/22 20:33 | 7440-43-9 | |
| Chromium | ND | mg/L | 0.0050 | 0.0011 | 1 | 08/09/22 14:37 | 08/10/22 20:33 | 7440-47-3 | |
| Cobalt | ND | mg/L | 0.0050 | 0.00039 | 1 | 08/09/22 14:37 | 08/10/22 20:33 | 7440-48-4 | |
| Lead | ND | mg/L | 0.0010 | 0.00089 | 1 | 08/09/22 14:37 | 08/10/22 20:33 | 7439-92-1 | |
| Lithium | 0.041 | mg/L | 0.030 | 0.00073 | 1 | 08/09/22 14:37 | 08/10/22 20:33 | 7439-93-2 | |
| Molybdenum | 0.0020J | mg/L | 0.010 | 0.00074 | 1 | 08/09/22 14:37 | 08/10/22 20:33 | 7439-98-7 | |
| Selenium | ND | mg/L | 0.0050 | 0.0014 | 1 | 08/09/22 14:37 | 08/10/22 20:33 | 7782-49-2 | |
| Thallium | ND | mg/L | 0.0010 | 0.00018 | 1 | 08/09/22 14:37 | 08/10/22 20:33 | 7440-28-0 | |
| 7470 Mercury | | | | | | | | | |
| Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Mercury | ND | mg/L | 0.00020 | 0.00013 | 1 | 08/10/22 15:15 | 08/11/22 11:51 | 7439-97-6 | |
| 2540C Total Dissolved Solids | | | | | | | | | |
| Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA | | | | | | | | | |
| Total Dissolved Solids | 311 | mg/L | 10.0 | 10.0 | 1 | | 08/09/22 10:27 | | |
| 2320B Alkalinity | | | | | | | | | |
| Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville | | | | | | | | | |
| Alkalinity,Bicarbonate (CaCO3) | 263 | mg/L | 5.0 | 5.0 | 1 | | 08/10/22 13:21 | | |
| Alkalinity,Carbonate (CaCO3) | ND | mg/L | 5.0 | 5.0 | 1 | | 08/10/22 13:21 | | |
| Alkalinity, Total as CaCO3 | 263 | mg/L | 5.0 | 5.0 | 1 | | 08/10/22 13:21 | | M1 |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

| Sample: HGWA-44D | | Lab ID: 92618829005 | | Collected: 08/02/22 10:42 | Received: 08/04/22 12:30 | Matrix: Water | | | |
|--------------------------------|---------------|---|--------------|---------------------------|--------------------------|---------------|----------------|------------|------|
| Parameters | Results | Units | Report Limit | MDL | DF | Prepared | Analyzed | CAS No. | Qual |
| 4500S2D Sulfide Water | | Analytical Method: SM 4500-S2D-2011 Pace Analytical Services - Asheville | | | | | | | |
| Sulfide | 0.058J | mg/L | 0.10 | 0.050 | 1 | | 08/06/22 03:44 | 18496-25-8 | |
| 300.0 IC Anions 28 Days | | Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville | | | | | | | |
| Chloride | 19.8 | mg/L | 1.0 | 0.60 | 1 | | 08/17/22 03:36 | 16887-00-6 | |
| Fluoride | 0.80 | mg/L | 0.10 | 0.050 | 1 | | 08/17/22 03:36 | 16984-48-8 | |
| Sulfate | 13.2 | mg/L | 1.0 | 0.50 | 1 | | 08/17/22 03:36 | 14808-79-8 | |

REPORT OF LABORATORY ANALYSIS

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

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. | MS Result | | | | | | |
| Calcium | mg/L | 153 | 1 | 1 | 150 | 153 | -362 | -50 | 75-125 | 2 | 20 M1 |
| Iron | mg/L | 0.053 | 1 | 1 | 1.1 | 1.1 | 107 | 108 | 75-125 | 1 | 20 |
| Magnesium | mg/L | 21.3 | 1 | 1 | 21.8 | 22.2 | 57 | 96 | 75-125 | 2 | 20 M1 |
| Manganese | mg/L | 0.31 | 1 | 1 | 1.4 | 1.4 | 105 | 106 | 75-125 | 1 | 20 |
| Potassium | mg/L | 7.7 | 1 | 1 | 8.6 | 8.8 | 92 | 109 | 75-125 | 2 | 20 |
| Sodium | mg/L | 9.4 | 1 | 1 | 10.2 | 10.4 | 79 | 96 | 75-125 | 2 | 20 |

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

REPORT OF LABORATORY ANALYSIS

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

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 | |

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,
without the written consent of Pace Analytical Services, LLC.

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 | | |

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,
without the written consent of Pace Analytical Services, LLC.

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 |

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,
without the written consent of Pace Analytical Services, LLC.

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 | |

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,
without the written consent of Pace Analytical Services, LLC.

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 |

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,
without the written consent of Pace Analytical Services, LLC.

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 | |

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,
without the written consent of Pace Analytical Services, LLC.

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 |

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,
without the written consent of Pace Analytical Services, LLC.

QUALITY CONTROL DATA

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

QC Batch: 716707 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92618829001, 92618829002, 92618829003, 92618829004

METHOD BLANK: 3736371 Matrix: Water
Associated Lab Samples: 92618829001, 92618829002, 92618829003, 92618829004

| Parameter | Units | Blank Result | Reporting Limit | MDL | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|-------|----------------|------------|
| Chloride | mg/L | ND | 1.0 | 0.60 | 08/12/22 10:25 | |
| Fluoride | mg/L | ND | 0.10 | 0.050 | 08/12/22 10:25 | |
| Sulfate | mg/L | ND | 1.0 | 0.50 | 08/12/22 10:25 | |

LABORATORY CONTROL SAMPLE: 3736372

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/L | 50 | 53.1 | 106 | 90-110 | |
| Fluoride | mg/L | 2.5 | 2.6 | 106 | 90-110 | |
| Sulfate | mg/L | 50 | 51.7 | 103 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3736373 3736374

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92618820001 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Chloride | mg/L | 37.9 | 50 | 50 | 50 | 94.8 | 94.7 | 114 | 114 | 90-110 | 0 | 10 | M1 |
| Fluoride | mg/L | 0.11 | 2.5 | 2.5 | 2.5 | 2.8 | 2.8 | 107 | 109 | 90-110 | 1 | 10 | |
| Sulfate | mg/L | 105 | 50 | 50 | 50 | 152 | 150 | 94 | 90 | 90-110 | 1 | 10 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3736375 3736376

| Parameter | Units | MS | | MSD | | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
|-----------|-------|--------------------|-------------|-------------|-------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| | | 92618820011 Result | Spike Conc. | Spike Conc. | Conc. | | | | | | | | |
| Chloride | mg/L | 63.5 | 50 | 50 | 50 | 101 | 100 | 74 | 74 | 90-110 | 0 | 10 | M1 |
| Fluoride | mg/L | 0.069J | 2.5 | 2.5 | 2.5 | 2.8 | 2.7 | 108 | 106 | 90-110 | 2 | 10 | |
| Sulfate | mg/L | 140 | 50 | 50 | 50 | 186 | 187 | 92 | 93 | 90-110 | 0 | 10 | |

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

REPORT OF LABORATORY ANALYSIS

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

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 | |

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,
without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: HAMMOND POOLED UPGRADIENT
Pace Project No.: 92618829

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND POOLED UPGRADIENT

Pace Project No.: 92618829

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|------------------------|----------|-------------------|------------------|
| 92618829001 | HGWA-1 | | | | |
| 92618829002 | HGWA-2 | | | | |
| 92618829003 | HGWA-3 | | | | |
| 92618829004 | HGWA-43D | | | | |
| 92618829005 | HGWA-44D | | | | |
| 92618829001 | HGWA-1 | EPA 3010A | 716032 | EPA 6010D | 716586 |
| 92618829002 | HGWA-2 | EPA 3010A | 716032 | EPA 6010D | 716586 |
| 92618829003 | HGWA-3 | EPA 3010A | 716032 | EPA 6010D | 716586 |
| 92618829004 | HGWA-43D | EPA 3010A | 716032 | EPA 6010D | 716586 |
| 92618829005 | HGWA-44D | EPA 3010A | 716032 | EPA 6010D | 716586 |
| 92618829001 | HGWA-1 | EPA 3005A | 715918 | EPA 6020B | 716063 |
| 92618829002 | HGWA-2 | EPA 3005A | 715918 | EPA 6020B | 716063 |
| 92618829003 | HGWA-3 | EPA 3005A | 715918 | EPA 6020B | 716063 |
| 92618829004 | HGWA-43D | EPA 3005A | 715918 | EPA 6020B | 716063 |
| 92618829005 | HGWA-44D | EPA 3005A | 715918 | EPA 6020B | 716063 |
| 92618829001 | HGWA-1 | EPA 7470A | 716247 | EPA 7470A | 716490 |
| 92618829002 | HGWA-2 | EPA 7470A | 716247 | EPA 7470A | 716490 |
| 92618829003 | HGWA-3 | EPA 7470A | 716247 | EPA 7470A | 716490 |
| 92618829004 | HGWA-43D | EPA 7470A | 716247 | EPA 7470A | 716490 |
| 92618829005 | HGWA-44D | EPA 7470A | 716247 | EPA 7470A | 716490 |
| 92618829001 | HGWA-1 | SM 2540C-2015 | 715874 | | |
| 92618829002 | HGWA-2 | SM 2540C-2015 | 715874 | | |
| 92618829003 | HGWA-3 | SM 2540C-2015 | 715874 | | |
| 92618829004 | HGWA-43D | SM 2540C-2015 | 715874 | | |
| 92618829005 | HGWA-44D | SM 2540C-2015 | 715874 | | |
| 92618829001 | HGWA-1 | SM 2320B-2011 | 716212 | | |
| 92618829002 | HGWA-2 | SM 2320B-2011 | 716212 | | |
| 92618829003 | HGWA-3 | SM 2320B-2011 | 716212 | | |
| 92618829004 | HGWA-43D | SM 2320B-2011 | 716212 | | |
| 92618829005 | HGWA-44D | SM 2320B-2011 | 716212 | | |
| 92618829001 | HGWA-1 | SM 4500-S2D-2011 | 715461 | | |
| 92618829002 | HGWA-2 | SM 4500-S2D-2011 | 715461 | | |
| 92618829003 | HGWA-3 | SM 4500-S2D-2011 | 715461 | | |
| 92618829004 | HGWA-43D | SM 4500-S2D-2011 | 715462 | | |
| 92618829005 | HGWA-44D | SM 4500-S2D-2011 | 715462 | | |
| 92618829001 | HGWA-1 | EPA 300.0 Rev 2.1 1993 | 716707 | | |
| 92618829002 | HGWA-2 | EPA 300.0 Rev 2.1 1993 | 716707 | | |
| 92618829003 | HGWA-3 | EPA 300.0 Rev 2.1 1993 | 716707 | | |
| 92618829004 | HGWA-43D | EPA 300.0 Rev 2.1 1993 | 716707 | | |
| 92618829005 | HGWA-44D | EPA 300.0 Rev 2.1 1993 | 717487 | | |

REPORT OF LABORATORY ANALYSIS

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



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? | Comments/Discrepancy: |
|-----|---|-----------------------|
| 1. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| 2. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| 3. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| 4. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A | |
| 5. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| 6. | <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 | |
| 7. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A | |
| 8. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| 9. | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A -Includes Date/Time/ID/Analysis Matrix: W | |
| 10. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| 11. | <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | |
| | <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#: 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)

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

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

CERTIFICATIONS

Project: HAMMOND POOLED UPGRADIENT RAD
Pace Project No.: 92618785

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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

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

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

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

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

SUMMARY OF DETECTION

Project: HAMMOND POOLED UPGRADIENT RAD
Pace Project No.: 92618785

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|--|-------|--------------|----------------|------------|
| 92618785001 | HGWA-1 | | | | | |
| EPA 9315 | Radium-226 | 0.106 ± 0.204 (0.469) C:79% T:NA | pCi/L | | 09/06/22 08:53 | |
| EPA 9320 | Radium-228 | 0.0966 ± 0.281 (0.632) C:81% T:87% | pCi/L | | 08/29/22 11:34 | |
| Total Radium Calculation | Total Radium | 0.203 ± 0.485 (1.10) | pCi/L | | 09/06/22 15:52 | |
| 92618785002 | HGWA-2 | | | | | |
| EPA 9315 | Radium-226 | 0.119 ± 0.196 (0.434) C:83% T:NA | pCi/L | | 09/06/22 08:55 | |
| EPA 9320 | Radium-228 | 0.742 ± 0.357 (0.601) C:80% T:88% | pCi/L | | 08/29/22 11:34 | |
| Total Radium Calculation | Total Radium | 0.861 ± 0.553 (1.04) | pCi/L | | 09/06/22 15:52 | |
| 92618785003 | HGWA-3 | | | | | |
| EPA 9315 | Radium-226 | -0.0471 ± 0.162 (0.494) C:87% T:NA | pCi/L | | 09/06/22 08:55 | |
| EPA 9320 | Radium-228 | 0.400 ± 0.346 (0.699) C:78% T:87% | pCi/L | | 08/29/22 11:34 | |
| Total Radium Calculation | Total Radium | 0.400 ± 0.508 (1.19) | pCi/L | | 09/06/22 15:52 | |
| 92618785004 | HGWA-43D | | | | | |
| EPA 9315 | Radium-226 | 0.297 ± 0.256 (0.460) C:86% T:NA | pCi/L | | 09/06/22 08:55 | |
| EPA 9320 | Radium-228 | 0.365 ± 0.318 (0.636) C:82% T:87% | pCi/L | | 08/29/22 12:28 | |
| Total Radium Calculation | Total Radium | 0.662 ± 0.574 (1.10) | pCi/L | | 09/06/22 15:52 | |

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

| Lab Sample ID Method | Client Sample ID Parameters | Result | Units | Report Limit | Analyzed | Qualifiers |
|--------------------------|--------------------------------|---|-------|--------------|----------------|------------|
| 92618785005 | HGWA-44D | | | | | |
| EPA 9315 | Radium-226 | 0.0642 ± 0.408 (1.04) C:45% T:NA | pCi/L | | 09/06/22 08:56 | |
| EPA 9320 | Radium-228 | 0.888 ± 0.367 (0.564) C:80% T:90% | pCi/L | | 08/29/22 11:34 | |
| Total Radium Calculation | Total Radium | 0.952 ± 0.775 (1.60) | pCi/L | | 09/06/22 15:52 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

Sample: HGWA-1 **Lab ID: 92618785001** Collected: 08/02/22 09:44 Received: 08/04/22 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.106 ± 0.204 (0.469) C:79% T:NA | pCi/L | 09/06/22 08:53 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.0966 ± 0.281 (0.632) C:81% T:87% | pCi/L | 08/29/22 11:34 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.203 ± 0.485 (1.10) | pCi/L | 09/06/22 15:52 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

Sample: HGWA-2 **Lab ID: 92618785002** Collected: 08/02/22 12:28 Received: 08/04/22 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---------------------------------------|--------------------------|--|-------|----------------|------------|------|
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.119 ± 0.196 (0.434) C:83% T:NA | pCi/L | 09/06/22 08:55 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.742 ± 0.357 (0.601) C:80% T:88% | pCi/L | 08/29/22 11:34 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.861 ± 0.553 (1.04) | pCi/L | 09/06/22 15:52 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

Sample: HGWA-3 **Lab ID: 92618785003** Collected: 08/02/22 14:08 Received: 08/04/22 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|---|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | -0.0471 ± 0.162 (0.494) C:87% T:NA | pCi/L | 09/06/22 08:55 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.400 ± 0.346 (0.699) C:78% T:87% | pCi/L | 08/29/22 11:34 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.400 ± 0.508 (1.19) | pCi/L | 09/06/22 15:52 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

Sample: HGWA-43D **Lab ID: 92618785004** Collected: 08/02/22 09:33 Received: 08/04/22 12:30 Matrix: Water
PWS: Site ID: Sample Type:

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|--------------|---------------------------------------|--|-------|----------------|------------|------|
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-226 | EPA 9315 | 0.297 ± 0.256 (0.460) C:86% T:NA | pCi/L | 09/06/22 08:55 | 13982-63-3 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Radium-228 | EPA 9320 | 0.365 ± 0.318 (0.636) C:82% T:87% | pCi/L | 08/29/22 12:28 | 15262-20-1 | |
| | Pace Analytical Services - Greensburg | | | | | |
| Total Radium | Total Radium Calculation | 0.662 ± 0.574 (1.10) | pCi/L | 09/06/22 15:52 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND POOLED UPGRADIENT RAD

Pace Project No.: 92618785

| Parameters | Method | Act ± Unc (MDC) Carr Trac | Units | Analyzed | CAS No. | Qual |
|---|--------------------------|---|-------|----------------|------------|------|
| Sample: HGWA-44D Lab ID: 92618785005 Collected: 08/02/22 10:42 Received: 08/04/22 12:30 Matrix: Water PWS: Site ID: Sample Type: | | | | | | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-226 | EPA 9315 | 0.0642 ± 0.408 (1.04) C:45% T:NA | pCi/L | 09/06/22 08:56 | 13982-63-3 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Radium-228 | EPA 9320 | 0.888 ± 0.367 (0.564) C:80% T:90% | pCi/L | 08/29/22 11:34 | 15262-20-1 | |
| Pace Analytical Services - Greensburg | | | | | | |
| Total Radium | Total Radium Calculation | 0.952 ± 0.775 (1.60) | pCi/L | 09/06/22 15:52 | 7440-14-4 | |

REPORT OF LABORATORY ANALYSIS

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

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

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND POOLED UPGRADIENT RAD
Pace Project No.: 92618785

| | | | |
|------------------|----------|-----------------------|---------------------------------------|
| QC Batch: | 525947 | Analysis Method: | EPA 9320 |
| QC Batch Method: | EPA 9320 | Analysis Description: | 9320 Radium 228 |
| | | Laboratory: | Pace Analytical Services - Greensburg |

Associated Lab Samples: 92618785001, 92618785002, 92618785003, 92618785004, 92618785005

METHOD BLANK: 2551553 Matrix: Water
Associated Lab Samples: 92618785001, 92618785002, 92618785003, 92618785004, 92618785005

| Parameter | Act ± Unc (MDC) Carr Trac | Units | Analyzed | Qualifiers |
|------------|-----------------------------------|-------|----------------|------------|
| Radium-228 | 0.521 ± 0.305 (0.543) C:83% T:91% | pCi/L | 08/29/22 12:28 | |

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: HAMMOND POOLED UPGRADIENT RAD
Pace Project No.: 92618785

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND POOLED UPGRADIENT RAD
Pace Project No.: 92618785

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|-------------|-----------|--------------------------|----------|-------------------|------------------|
| 92618785001 | HGWA-1 | EPA 9315 | 525510 | | |
| 92618785002 | HGWA-2 | EPA 9315 | 525510 | | |
| 92618785003 | HGWA-3 | EPA 9315 | 525510 | | |
| 92618785004 | HGWA-43D | EPA 9315 | 525510 | | |
| 92618785005 | HGWA-44D | EPA 9315 | 525510 | | |
| 92618785001 | HGWA-1 | EPA 9320 | 525947 | | |
| 92618785002 | HGWA-2 | EPA 9320 | 525947 | | |
| 92618785003 | HGWA-3 | EPA 9320 | 525947 | | |
| 92618785004 | HGWA-43D | EPA 9320 | 525947 | | |
| 92618785005 | HGWA-44D | EPA 9320 | 525947 | | |
| 92618785001 | HGWA-1 | Total Radium Calculation | 530889 | | |
| 92618785002 | HGWA-2 | Total Radium Calculation | 530889 | | |
| 92618785003 | HGWA-3 | Total Radium Calculation | 530889 | | |
| 92618785004 | HGWA-43D | Total Radium Calculation | 530889 | | |
| 92618785005 | HGWA-44D | Total Radium Calculation | 530889 | | |

REPORT OF LABORATORY ANALYSIS

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



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) | VG9B-40 mL VOA Unpreserved (N/A) | DG9S-40 mL VOA H3PO4 (N/A) | DG9S-40 mL VOA H2SO4 (N/A) | V/GK (3 vials per kit)-VPH/Gas kit (N/A) | SP5T-125 mL Sterile Plastic (N/A - lab) | SP2T-250 mL Sterile Plastic (N/A - lab) | BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7) | AG0U-100 mL Amber Unpreserved (N/A) (Cl-) | VSGU-20 mL Scintillation vials (N/A) | DG9U-40 mL Amber Unpreserved vials (N/A) | | |
|-------|---|---------------------------------------|---------------------------------------|--|--|-----------------------------------|--|--|---|--|---------------------------------|---|-----------------------------------|----------------------------------|------------------------------------|--------------------------|------------------------------|----------------------------------|----------------------------|----------------------------|--|---|---|---|---|--------------------------------------|--|--|--|
| 1 | 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

pH Adjustment Log for Preserved Samples

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

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

VALIDATION REPORTS

Memorandum

Date: 14 December 2022
To: Christine Hug
From: Ashley Wilson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Pace Analytical Project Nos.: 92618823 and 92618829**

SITE: CCR Plant Hammond AP-3

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twelve aqueous samples, one field blank, one equipment blank and one field duplicate, collected 2 and 4 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
- Metals by US EPA Method 3010A/6010D
- Mercury by US EPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method (SM) 2540C-2015

The samples were analyzed at Pace Analytical Services - Asheville, Asheville, North Carolina, for the following analytical tests:

- Anions (chloride, fluoride and sulfate) by US EPA Method 300.0 Rev 2.1 1993
- Alkalinity as CaCO₃ (total, bicarbonate and carbonate) by SM 2320B-2011
- Sulfide by SM 4500-S2D-2011

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data as qualified are usable for supporting project objectives. Qualified data should be used within the limitation of the qualification.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment and the following documents:

- United States Environmental Protection Agency (US EPA) Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011) and
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 540-R-20-006).

The following samples were analyzed and reported in the laboratory report:

| Laboratory IDs | Client IDs |
|----------------|------------|
| 92618823001 | HGWA-45D |
| 92618823002 | HGWA-122 |
| 92618823003 | HGWC-120 |
| 92618823004 | HGWC-121A |
| 92618823005 | HGWC-124 |
| 92618823006 | HGWC-125 |
| 92618823007 | HGWC-126 |
| 92618823008 | DUP-3 |

| Laboratory IDs | Client IDs |
|----------------|------------|
| 92618823009 | EB-3 |
| 92618823010 | FB-3 |
| 92618829001 | HGWA-1 |
| 92618829002 | HGWA-2 |
| 92618829003 | HGWA-3 |
| 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.

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). Two method blanks were reported for metals by US EPA method 6020B (batches 715918 and 716035), and two method blanks for metals by US EPA Method 6010D (batches 716032 and 716036). 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 samples HGWC-120 and HGWC-125, respectively. 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, magnesium and sodium in the MS/MSD pair using sample HGWC-125 were low or high and outside of laboratory specified acceptance criteria. Since the calcium, magnesium and sodium concentrations in sample HGWC-125 were greater than four times the spiked concentrations, no qualifications were applied to the data based on the MS/MSD recovery results.

Batch MS/MSDs were also reported for both methods. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 **Laboratory Control Sample (LCS)**

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). LCSs were reported with each batch. The recovery results were within the laboratory specified acceptance criteria.

1.6 **Equipment Blank**

One equipment blank was collected with the sample set, EB-3. Metals were not detected in the equipment blank at or above the MDLs, with the following exception.

Boron was detected at an estimated concentration greater than the MDL and less than the reporting limit (RL) in EB-3. Therefore, the estimated boron concentrations in the associated samples were U qualified as not detected at the RL.

| Sample ID | Compound | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier* | Reason Code** |
|-----------|----------|--------------------------|-----------------|--------------------------|-----------------------|---------------|
| HGWC-126 | Boron | 0.023 | J | 0.040 | U | 3 |
| HGWA-1 | Boron | 0.012 | J | 0.040 | U | 3 |

mg/L- milligram per liter

J-estimated concentration greater than the MDL and less than the RL

* Validation qualifiers are defined in Attachment 1 at the end of this report

**Reason codes are defined in Attachment 2 at the end of this report

1.7 **Field Blank**

One field blank was collected with the sample set, FB-3. Metals 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-3. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original sample, HGWC-121A, with the following exceptions.

Antimony was not detected in DUP-3 and detected at an estimated concentration greater than the MDL and less than the RL in HGWC-121A, resulting in a noncalculable RPD. Therefore, based on professional and technical judgment, the antimony concentration in HGWC-121A was J qualified as estimated and the non-detect result in DUP-3 was UJ qualified as estimated less than the MDL.

The iron RPD for field duplicate pair HGWC-121A/DUP-3 was greater than 30%. Therefore, the concentrations of iron in HGWC-121A and DUP-3 were J qualified as estimated.

| Sample | Analyte | Laboratory Result (mg/l) | Laboratory Flag | RPD | Validation Result (mg/l) | Validation Qualifier | Reason Code |
|-----------|----------|--------------------------|-----------------|-----|--------------------------|----------------------|-------------|
| HGWC-121A | Antimony | 0.0016 | J | NC | 0.0016 | J | 7 |
| DUP-3 | Antimony | 0.00078 | U | | 0.00078 | UJ | 7 |
| HGWC-121A | Iron | 0.086 | NA | 39 | 0.086 | J | 7 |
| DUP-3 | Iron | 0.058 | NA | | 0.058 | J | 7 |

mg/L- milligram per liter

NC-noncalculable

NA-not applicable

J-the result is less than RL but greater than the MDL and the concentration is an approximate value

U-not detected at or above the MDL

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported for cadmium in sample HGWC-120 due to dilution because of matrix interference.

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). Two method blanks were reported (batches 716252 and 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).

Two batch MS/MSD pairs were reported. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

2.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two 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-3. 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-3. 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-3. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original sample, HGWC-121A.

2.9 Sensitivity

The samples were reported to the MDL. Elevated non-detect results were not reported.

2.10 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

3.0 WET CHEMISTRY

The samples were analyzed for chloride, fluoride and sulfate by US EPA method 300.0 Rev 2.1 1993, TDS by SM 2540C-2015, alkalinity as CaCO₃ (total, bicarbonate and carbonate) by SM 2320B-2011 and sulfide by SM 4500-S2D-2011.

The areas of data review are listed below. A leading check mark (✓) indicates an area of review in which the data were acceptable. A preceding crossed circle (⊗) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverable Review

3.1 Overall Assessment

The wet chemistry data reported in this data package are considered usable for supporting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for these analyses, for this dataset is 100%.

3.2 Holding Times

The holding times for water samples are listed below. The holding times were met for the sample analyses.

| Analysis | Holding Time |
|---|-------------------------------------|
| Anions (fluoride, chloride and sulfate) | 28 days from collection to analysis |
| TDS | 7 days from collection to analysis |
| Alkalinity | 14 days from collection to analysis |
| Sulfide | 28 days from collection to analysis |

3.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two method blanks were reported for TDS (batches 715874 and 715879). Three method blanks were reported for chloride, fluoride and sulfate (batches 716707, 717488 and 717487). Four method blanks were reported for alkalinity (batches 716055, 717515, 717728 and 716212). Four method blanks were reported for sulfide (batches 715461, 715462, 716114 and 716115). 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 chloride, fluoride and sulfate using sample HGWC-120. One sample set specific MS/MSD pair was reported for alkalinity using sample EB-3. One sample set specific MS/MSD pair was reported for sulfide using sample HGWC-126. 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 HGWC-126 were low and outside of laboratory specified acceptance criteria. Therefore, the nondetect result for sulfide in sample HGWC-126 was UJ qualified as estimated less than the RL.

The recoveries of alkalinity in the MS/MSD pair using sample HGWA-44D were low and outside of laboratory specified acceptance limits. However, since the sample concentration is greater than four times the spike amount, the recovery limits were not applicable. Therefore, no qualifications were applied to the 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.

| Sample ID | Compound | Laboratory Result (mg/L) | Laboratory Flag | Validation Result (mg/L) | Validation Qualifier | Reason Code |
|-----------|----------|--------------------------|-----------------|--------------------------|----------------------|-------------|
| HGWC-126 | Sulfide | 0.10 | U M1 | 0.10 | UJ | 4 |

mg/L- milligram per liter

U-not detected at or above the MDL

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

Two laboratory duplicates were reported for TDS using samples HGWC-124 and HGWA-44D. The RPD result was within the laboratory specified acceptance criteria.

Four 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-3. 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-3. 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-3. Acceptable precision ($RPD \leq 30\%$) was demonstrated between the field duplicate and the original sample, HGWC-121A.

3.10 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were not reported.

3.11 Electronic Data Deliverable Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected 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

| Valid Value | Description |
|--------------------|--|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside limits |
| 5 | LCS recovery outside limits and RPD outside limits (LCS/LCSD) |
| 6 | Surrogate recovery outside limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample duplicate

RPD - Relative percent difference

Memorandum

Date: January 10, 2023
To: Whitney Law
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverables – Pace Analytical Services, LLC Project Numbers 92618780 and 92618785**

SITE: Plant Hammond AP-3 and Plant Hammond Pooled Upgradient

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twelve aqueous samples, one field duplicate, one equipment blank and one field blank, collected August 2 and 4 2022, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services, LLC, Greensburg, PA for the following analytical tests:

- Radium-226 by US EPA Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

Based on the Stage 2A data validation covering the quality control (QC) parameters listed below and the information provided, the data are usable for meeting project objectives.

The data were reviewed based on the pertinent methods referenced in the laboratory reports, professional and technical judgment, and the following documents:

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

The following samples were analyzed and reported in the laboratory report:

| Laboratory ID | Client ID |
|---------------|-----------|
| 92618780001 | HGWA-45D |
| 92618780002 | HGWA-122 |
| 92618780003 | HGWC-120 |
| 92618780004 | HGWC-121A |
| 92618780005 | HGWC-124 |
| 92618780006 | HGWC-125 |
| 92618780007 | HGWC-126 |
| 92618780008 | DUP-3 |

| Laboratory ID | Client ID |
|---------------|-----------|
| 92618780009 | EB-3 |
| 92618780010 | FB-3 |
| 92618785001 | HGWA-1 |
| 92618785002 | HGWA-2 |
| 92618785003 | HGWA-3 |
| 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.

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 525508, 525513 and 525510). Three method blanks were reported for the radium-228 data (batches 525976, 525944 and 525947). 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. One LCS and two LCS/LCSD pairs were reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (1σ)] results were within the laboratory specified acceptance criteria.

1.6 Laboratory Duplicate

One sample set specific laboratory duplicate was reported for radium-226 using sample FB-3. 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-4. 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-3. 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-3. Acceptable precision (RER (1σ) < 3) was demonstrated between the field duplicate and the original sample, HGWC-121A.

1.11 Sensitivity

The samples were reported to the MDCs. No elevated non-detect results were reported.

1.12 Electronic Data Deliverable (EDD) Review

The results and sample IDs in the EDD were reviewed against the information provided by the associated level II report at a minimum of 20% as part of the data validation process. No discrepancies were identified between the level II report and the EDD.

* * * * *

ATTACHMENT 1
DATA VALIDATION QUALIFIER DEFINITIONS
AND INTERPRETATION KEY
Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to “not detected at or above the reported result”.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

ATTACHMENT 2
DATA VALIDATION REASON CODES
Assigned by Geosyntec’s Data Validation Team

| Valid Value | Description |
|--------------------|--|
| 1 | Preservation requirement not met |
| 2 | Analysis holding time exceeded |
| 3 | Blank contamination (i.e., method, trip, equipment, etc.) |
| 4 | Matrix spike/matrix spike duplicate recovery or RPD outside limits |
| 5 | LCS or RPD recovery outside limits (LCS/LCSD) |
| 6 | Surrogate recovery outside limits |
| 7 | Field Duplicate RPD exceeded |
| 8 | Serial dilution percent difference exceeded |
| 9 | Calibration criteria not met |
| 10 | Linear range exceeded |
| 11 | Internal standard criteria not met |
| 12 | Lab duplicates RPD exceeded |
| 13 | Other |
| 14 | Lab flag removed or modified: no validation qualification required |

LCS - Laboratory Control Sample
 LCSD - Laboratory Control Sample duplicate
 RPD - Relative percent difference

FIELD SAMPLING REPORTS

Low-Flow Test Report:

Test Date / Time: 8/2/2022 9:00:28 AM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

| | | |
|---|--|--|
| Location Name: HGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.49 ft Total Depth: 32.29 ft Initial Depth to Water: 18.63 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 27.49 ft Estimated Total Volume Pumped: 8.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.46 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883546 |
|---|--|--|

Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Overcast, 80 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/2/2022 9:00 AM | 00:00 | 7.03 pH | 20.95 °C | 637.61 µS/cm | 4.24 mg/L | 1.20 NTU | -36.3 mV | 18.63 ft | 200.00 ml/min |
| 8/2/2022 9:05 AM | 05:00 | 7.03 pH | 18.97 °C | 652.98 µS/cm | 1.65 mg/L | 1.11 NTU | -52.7 mV | 19.00 ft | 200.00 ml/min |
| 8/2/2022 9:09 AM | 08:34 | 7.03 pH | 18.58 °C | 663.62 µS/cm | 0.78 mg/L | 1.06 NTU | -62.5 mV | 19.03 ft | 200.00 ml/min |
| 8/2/2022 9:14 AM | 13:34 | 7.03 pH | 18.50 °C | 671.01 µS/cm | 0.27 mg/L | 0.92 NTU | -71.9 mV | 19.05 ft | 200.00 ml/min |
| 8/2/2022 9:19 AM | 18:34 | 7.03 pH | 18.50 °C | 673.17 µS/cm | 0.18 mg/L | 0.83 NTU | -76.3 mV | 19.06 ft | 200.00 ml/min |
| 8/2/2022 9:24 AM | 23:34 | 7.03 pH | 18.50 °C | 675.48 µS/cm | 0.16 mg/L | 0.70 NTU | -78.1 mV | 19.06 ft | 200.00 ml/min |
| 8/2/2022 9:29 AM | 28:34 | 7.03 pH | 18.55 °C | 675.72 µS/cm | 0.14 mg/L | 0.65 NTU | -78.4 mV | 19.06 ft | 200.00 ml/min |
| 8/2/2022 9:34 AM | 33:34 | 7.03 pH | 18.58 °C | 675.56 µS/cm | 0.14 mg/L | 0.51 NTU | -76.1 mV | 19.07 ft | 200.00 ml/min |
| 8/2/2022 9:39 AM | 38:34 | 7.03 pH | 18.65 °C | 677.86 µS/cm | 0.14 mg/L | 0.40 NTU | -75.1 mV | 19.09 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HGWA-1 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/2/2022 11:54:00 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|---|---|--|
| Location Name: HGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.95 ft Total Depth: 28.37 ft Initial Depth to Water: 10.58 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 22.95 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.1 ft | Instrument Used: Aqua TROLL 400 Serial Number: 843593 |
|---|---|--|

Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Cloudy, 80-90 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|----------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/2/2022 11:54 AM | 00:00 | 4.67 pH | 20.80 °C | 253.71 µS/cm | 0.83 mg/L | 53.70 NTU | 127.8 mV | 10.65 ft | 200.00 ml/min |
| 8/2/2022 11:59 AM | 05:00 | 4.62 pH | 20.40 °C | 261.39 µS/cm | 0.39 mg/L | 13.00 NTU | 132.9 mV | 10.65 ft | 200.00 ml/min |
| 8/2/2022 12:04 PM | 10:00 | 4.59 pH | 20.33 °C | 262.13 µS/cm | 0.22 mg/L | 11.90 NTU | 161.7 mV | 10.67 ft | 200.00 ml/min |
| 8/2/2022 12:09 PM | 15:00 | 4.59 pH | 20.31 °C | 263.18 µS/cm | 0.17 mg/L | 9.01 NTU | 133.8 mV | 10.67 ft | 200.00 ml/min |
| 8/2/2022 12:14 PM | 20:00 | 4.58 pH | 20.30 °C | 262.89 µS/cm | 0.14 mg/L | 6.98 NTU | 162.5 mV | 10.65 ft | 200.00 ml/min |
| 8/2/2022 12:19 PM | 25:00 | 4.57 pH | 20.24 °C | 262.79 µS/cm | 0.13 mg/L | 4.20 NTU | 164.8 mV | 10.67 ft | 200.00 ml/min |
| 8/2/2022 12:24 PM | 30:00 | 4.57 pH | 20.30 °C | 262.99 µS/cm | 0.12 mg/L | 3.10 NTU | 165.6 mV | 10.68 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HGWA-2 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/2/2022 1:33:03 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|---|---|--|
| Location Name: HGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.51 ft Total Depth: 45.32 ft Initial Depth to Water: 10.33 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 39.51 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0 ft | Instrument Used: Aqua TROLL 400 Serial Number: 843593 |
|---|---|--|

Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Cloudy, 80-90 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/2/2022 1:33 PM | 00:00 | 6.87 pH | 21.37 °C | 449.26 µS/cm | 0.69 mg/L | 12.50 NTU | 20.7 mV | 10.33 ft | 200.00 ml/min |
| 8/2/2022 1:38 PM | 05:00 | 6.99 pH | 20.39 °C | 459.07 µS/cm | 0.40 mg/L | 27.20 NTU | -18.6 mV | 10.33 ft | 200.00 ml/min |
| 8/2/2022 1:43 PM | 10:00 | 7.02 pH | 20.13 °C | 457.06 µS/cm | 0.21 mg/L | 68.90 NTU | -32.4 mV | 10.33 ft | 200.00 ml/min |
| 8/2/2022 1:48 PM | 15:00 | 7.03 pH | 20.13 °C | 455.59 µS/cm | 0.11 mg/L | 16.30 NTU | -42.4 mV | 10.33 ft | 200.00 ml/min |
| 8/2/2022 1:53 PM | 20:00 | 7.02 pH | 20.05 °C | 455.72 µS/cm | 0.09 mg/L | 8.89 NTU | -31.8 mV | 10.33 ft | 200.00 ml/min |
| 8/2/2022 1:58 PM | 25:00 | 7.02 pH | 19.99 °C | 454.96 µS/cm | 0.08 mg/L | 5.40 NTU | -51.4 mV | 10.33 ft | 200.00 ml/min |
| 8/2/2022 2:03 PM | 30:00 | 7.02 pH | 19.97 °C | 453.40 µS/cm | 0.08 mg/L | 2.86 NTU | -54.1 mV | 10.33 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HGWA-3 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/2/2022 8:58:46 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|---|--|--|
| Location Name: HGWA-43D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.25 ft Total Depth: 61.75 ft Initial Depth to Water: 18.46 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 56.25 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3.22 ft | Instrument Used: Aqua TROLL 400 Serial Number: 843593 |
|---|--|--|

Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Cloudy, 80-90 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/2/2022 8:58 AM | 00:00 | 7.21 pH | 18.79 °C | 501.75 µS/cm | 0.90 mg/L | 3.87 NTU | 6.6 mV | 20.08 ft | 200.00 ml/min |
| 8/2/2022 9:03 AM | 05:00 | 7.17 pH | 18.45 °C | 503.84 µS/cm | 0.83 mg/L | 2.32 NTU | -7.5 mV | 20.58 ft | 200.00 ml/min |
| 8/2/2022 9:08 AM | 10:00 | 7.15 pH | 18.35 °C | 501.27 µS/cm | 0.66 mg/L | 1.14 NTU | -22.5 mV | 21.06 ft | 200.00 ml/min |
| 8/2/2022 9:13 AM | 15:00 | 7.15 pH | 18.35 °C | 499.69 µS/cm | 0.48 mg/L | 0.98 NTU | -21.7 mV | 21.34 ft | 200.00 ml/min |
| 8/2/2022 9:18 AM | 20:00 | 7.14 pH | 18.35 °C | 498.70 µS/cm | 0.39 mg/L | 0.88 NTU | -31.6 mV | 21.47 ft | 200.00 ml/min |
| 8/2/2022 9:23 AM | 25:00 | 7.15 pH | 18.39 °C | 496.27 µS/cm | 0.32 mg/L | 0.64 NTU | -39.6 mV | 21.60 ft | 200.00 ml/min |
| 8/2/2022 9:28 AM | 30:00 | 7.15 pH | 18.41 °C | 493.24 µS/cm | 0.28 mg/L | 0.71 NTU | -60.8 mV | 21.68 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HGWA-43D | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/2/2022 9:23:04 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|--|--|--|
| Location Name: HGWA-44D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 103.5 ft Total Depth: 111.42 ft Initial Depth to Water: 17.96 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 108.5 ft Estimated Total Volume Pumped: 17 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.4 ft | Instrument Used: Aqua TROLL 400 Serial Number: 884186 |
|--|--|--|

Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Overcast, 80 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|-------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/2/2022 9:23 AM | 00:00 | 7.86 pH | 19.86 °C | 651.13 µS/cm | 0.97 mg/L | 11.77 NTU | 49.4 mV | 18.90 ft | 200.00 ml/min |
| 8/2/2022 9:28 AM | 05:00 | 7.89 pH | 19.36 °C | 636.97 µS/cm | 0.44 mg/L | 8.91 NTU | 35.2 mV | 19.21 ft | 200.00 ml/min |
| 8/2/2022 9:33 AM | 10:00 | 7.90 pH | 19.24 °C | 616.45 µS/cm | 0.31 mg/L | 4.71 NTU | 30.1 mV | 20.10 ft | 200.00 ml/min |
| 8/2/2022 9:38 AM | 15:00 | 7.91 pH | 19.19 °C | 610.73 µS/cm | 0.25 mg/L | 6.74 NTU | 22.9 mV | 20.30 ft | 200.00 ml/min |
| 8/2/2022 9:43 AM | 20:00 | 7.90 pH | 19.24 °C | 603.41 µS/cm | 0.21 mg/L | 6.71 NTU | 14.6 mV | 20.70 ft | 200.00 ml/min |
| 8/2/2022 9:48 AM | 25:00 | 7.91 pH | 19.17 °C | 597.68 µS/cm | 0.19 mg/L | 5.76 NTU | 7.4 mV | 20.95 ft | 200.00 ml/min |
| 8/2/2022 9:53 AM | 30:00 | 7.91 pH | 19.19 °C | 593.78 µS/cm | 0.17 mg/L | 9.05 NTU | -2.2 mV | 21.20 ft | 200.00 ml/min |
| 8/2/2022 9:58 AM | 35:00 | 7.91 pH | 19.24 °C | 590.84 µS/cm | 0.15 mg/L | 6.55 NTU | -11.3 mV | 21.35 ft | 200.00 ml/min |
| 8/2/2022 10:03 AM | 40:00 | 7.91 pH | 19.28 °C | 589.33 µS/cm | 0.14 mg/L | 6.24 NTU | -18.8 mV | 21.60 ft | 200.00 ml/min |
| 8/2/2022 10:08 AM | 45:00 | 7.91 pH | 19.24 °C | 585.61 µS/cm | 0.13 mg/L | 5.53 NTU | -30.2 mV | 21.75 ft | 200.00 ml/min |
| 8/2/2022 10:13 AM | 50:00 | 7.91 pH | 19.27 °C | 584.58 µS/cm | 0.12 mg/L | 5.10 NTU | -39.4 mV | 21.90 ft | 200.00 ml/min |
| 8/2/2022 10:18 AM | 55:00 | 7.91 pH | 19.24 °C | 584.97 µS/cm | 0.11 mg/L | 5.24 NTU | -45.3 mV | 22.05 ft | 200.00 ml/min |
| 8/2/2022 10:23 AM | 01:00:00 | 7.91 pH | 19.19 °C | 581.00 µS/cm | 0.10 mg/L | 2.61 NTU | -57.3 mV | 22.10 ft | 200.00 ml/min |

| | | | | | | | | | |
|----------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|---------------|
| 8/2/2022 10:28 AM | 01:05:00 | 7.91 pH | 19.24 °C | 581.38 µS/cm | 0.09 mg/L | 4.98 NTU | -61.5 mV | 22.25 ft | 200.00 ml/min |
| 8/2/2022 10:33 AM | 01:10:00 | 7.91 pH | 19.24 °C | 577.68 µS/cm | 0.08 mg/L | 9.68 NTU | -75.0 mV | 22.35 ft | 200.00 ml/min |
| 8/2/2022 10:38 AM | 01:15:00 | 7.90 pH | 19.23 °C | 575.44 µS/cm | 0.07 mg/L | 2.99 NTU | -75.7 mV | 22.36 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HGWA-44D | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/2/2022 11:55:36 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|---|--|--|
| Location Name: HGWA-45D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.87 ft Total Depth: 62.75 ft Initial Depth to Water: 11.65 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 57.87 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.75 ft | Instrument Used: Aqua TROLL 400 Serial Number: 884186 |
|---|--|--|

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 | |
| 8/2/2022 11:55 AM | 00:00 | 7.46 pH | 21.91 °C | 513.43 µS/cm | 0.18 mg/L | 1.03 NTU | -76.5 mV | 12.25 ft | 200.00 ml/min |
| 8/2/2022 12:00 PM | 05:00 | 7.41 pH | 21.12 °C | 500.08 µS/cm | 0.11 mg/L | 0.96 NTU | -95.0 mV | 12.35 ft | 200.00 ml/min |
| 8/2/2022 12:05 PM | 10:00 | 7.39 pH | 20.98 °C | 487.94 µS/cm | 0.09 mg/L | 0.79 NTU | -113.5 mV | 12.40 ft | 200.00 ml/min |
| 8/2/2022 12:10 PM | 15:00 | 7.38 pH | 20.91 °C | 480.24 µS/cm | 0.09 mg/L | 0.78 NTU | -96.9 mV | 12.40 ft | 200.00 ml/min |
| 8/2/2022 12:15 PM | 20:00 | 7.38 pH | 21.11 °C | 474.45 µS/cm | 0.09 mg/L | 0.95 NTU | -95.5 mV | 12.40 ft | 200.00 ml/min |
| 8/2/2022 12:20 PM | 25:00 | 7.38 pH | 21.15 °C | 472.79 µS/cm | 0.09 mg/L | 0.83 NTU | -94.4 mV | 12.40 ft | 200.00 ml/min |
| 8/2/2022 12:25 PM | 30:00 | 7.39 pH | 21.20 °C | 469.32 µS/cm | 0.10 mg/L | 0.89 NTU | -93.8 mV | 12.40 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HGWA-45D | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/2/2022 12:10:37 PM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

| | | |
|---|---|--|
| Location Name: HGWA-122 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.76 ft Total Depth: 27.78 ft Initial Depth to Water: 12.74 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 22.76 ft Estimated Total Volume Pumped: 22.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.02 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883546 |
|---|---|--|

Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Partially 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 | |
| 8/2/2022 12:10 PM | 00:00 | 6.56 pH | 20.69 °C | 351.43 µS/cm | 1.81 mg/L | 1.52 NTU | 27.4 mV | 12.74 ft | 200.00 ml/min |
| 8/2/2022 12:15 PM | 05:00 | 6.57 pH | 20.70 °C | 355.27 µS/cm | 2.08 mg/L | 1.22 NTU | 34.9 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 12:20 PM | 10:00 | 6.58 pH | 20.72 °C | 358.15 µS/cm | 2.20 mg/L | 1.08 NTU | 38.1 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 12:25 PM | 15:00 | 6.59 pH | 20.68 °C | 360.36 µS/cm | 2.01 mg/L | 0.94 NTU | 39.9 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 12:30 PM | 20:00 | 6.60 pH | 20.67 °C | 361.22 µS/cm | 2.02 mg/L | 0.85 NTU | 41.0 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 12:35 PM | 25:14 | 6.61 pH | 20.61 °C | 363.21 µS/cm | 1.97 mg/L | 0.74 NTU | 37.8 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 12:36 PM | 26:22 | 6.61 pH | 20.44 °C | 364.59 µS/cm | 1.91 mg/L | 0.69 NTU | 39.5 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 12:41 PM | 31:22 | 6.61 pH | 20.63 °C | 365.35 µS/cm | 1.68 mg/L | 0.50 NTU | 42.0 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 12:46 PM | 36:22 | 6.62 pH | 20.68 °C | 366.50 µS/cm | 1.68 mg/L | 0.57 NTU | 43.8 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 12:51 PM | 41:22 | 6.63 pH | 20.71 °C | 366.57 µS/cm | 1.83 mg/L | 1.01 NTU | 45.1 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 12:56 PM | 46:22 | 6.63 pH | 20.64 °C | 365.32 µS/cm | 1.75 mg/L | 0.56 NTU | 46.2 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 1:01 PM | 51:22 | 6.64 pH | 20.57 °C | 365.57 µS/cm | 1.96 mg/L | 0.53 NTU | 47.0 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 1:06 PM | 56:22 | 6.65 pH | 20.61 °C | 366.66 µS/cm | 1.89 mg/L | 0.53 NTU | 47.8 mV | 12.75 ft | 200.00 ml/min |

| | | | | | | | | | |
|------------------|----------|---------|----------|--------------|-----------|----------|---------|----------|---------------|
| 8/2/2022 1:11 PM | 01:01:22 | 6.64 pH | 20.64 °C | 365.63 µS/cm | 1.95 mg/L | 0.49 NTU | 49.1 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 1:16 PM | 01:06:22 | 6.65 pH | 20.63 °C | 365.89 µS/cm | 1.92 mg/L | 0.46 NTU | 49.6 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 1:21 PM | 01:11:22 | 6.65 pH | 20.62 °C | 364.53 µS/cm | 1.68 mg/L | 0.43 NTU | 50.6 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 1:26 PM | 01:16:22 | 6.65 pH | 20.55 °C | 366.85 µS/cm | 1.56 mg/L | 0.45 NTU | 51.5 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 1:31 PM | 01:21:22 | 6.67 pH | 20.50 °C | 373.67 µS/cm | 1.89 mg/L | 0.54 NTU | 52.2 mV | 12.75 ft | 200.00 ml/min |
| 8/2/2022 1:36 PM | 01:26:22 | 6.66 pH | 20.60 °C | 372.82 µS/cm | 2.44 mg/L | 0.42 NTU | 49.8 mV | 12.76 ft | 200.00 ml/min |
| 8/2/2022 1:41 PM | 01:31:22 | 6.66 pH | 20.55 °C | 374.00 µS/cm | 1.92 mg/L | 0.49 NTU | 50.5 mV | 12.76 ft | 200.00 ml/min |
| 8/2/2022 1:46 PM | 01:36:22 | 6.66 pH | 20.62 °C | 373.64 µS/cm | 1.78 mg/L | 0.86 NTU | 54.5 mV | 12.76 ft | 200.00 ml/min |
| 8/2/2022 1:51 PM | 01:41:22 | 6.67 pH | 20.60 °C | 373.65 µS/cm | 1.92 mg/L | 0.50 NTU | 51.6 mV | 12.76 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HGWA-122 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/4/2022 3:12:07 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

| | | |
|--|--|--|
| Location Name: HGWC-120 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 57.0 ft Total Depth: 67.65 ft Initial Depth to Water: 40.50 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 62.0 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.1 ft | Instrument Used: Aqua TROLL 400 Serial Number: 884186 |
|--|--|--|

Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Partly cloudy, 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 3:12 PM | 00:00 | 7.09 pH | 23.77 °C | 865.83 µS/cm | 2.22 mg/L | 0.99 NTU | -113.3 mV | 40.54 ft | 200.00 ml/min |
| 8/4/2022 3:17 PM | 05:00 | 6.92 pH | 21.64 °C | 910.41 µS/cm | 0.75 mg/L | 0.83 NTU | -61.1 mV | 40.60 ft | 200.00 ml/min |
| 8/4/2022 3:22 PM | 10:00 | 6.96 pH | 21.48 °C | 916.94 µS/cm | 0.65 mg/L | 0.68 NTU | -14.4 mV | 40.60 ft | 200.00 ml/min |
| 8/4/2022 3:27 PM | 15:00 | 6.95 pH | 21.53 °C | 917.32 µS/cm | 0.50 mg/L | 0.70 NTU | -1.8 mV | 40.60 ft | 200.00 ml/min |
| 8/4/2022 3:32 PM | 20:00 | 6.93 pH | 21.38 °C | 913.61 µS/cm | 0.74 mg/L | 0.73 NTU | -34.1 mV | 40.60 ft | 200.00 ml/min |
| 8/4/2022 3:37 PM | 25:00 | 6.93 pH | 21.44 °C | 918.33 µS/cm | 0.64 mg/L | 0.80 NTU | -10.8 mV | 40.60 ft | 200.00 ml/min |
| 8/4/2022 3:42 PM | 30:00 | 6.93 pH | 21.11 °C | 915.96 µS/cm | 0.47 mg/L | 0.87 NTU | -9.2 mV | 40.60 ft | 200.00 ml/min |
| 8/4/2022 3:47 PM | 35:00 | 6.93 pH | 21.10 °C | 917.58 µS/cm | 0.43 mg/L | 0.85 NTU | -8.8 mV | 40.60 ft | 200.00 ml/min |
| 8/4/2022 3:52 PM | 40:00 | 6.93 pH | 21.07 °C | 915.20 µS/cm | 0.38 mg/L | 0.62 NTU | -30.1 mV | 40.60 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HGWC-120 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/4/2022 12:41:13 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|--|--|--|
| Location Name: HGWC-121A Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 27.98 ft Total Depth: 41.34 ft Initial Depth to Water: 17.60 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 32.98 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.11 ft | Instrument Used: Aqua TROLL 400 Serial Number: 843593 |
|--|--|--|

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 12:41 PM | 00:00 | 6.79 pH | 22.13 °C | 880.67 µS/cm | 1.11 mg/L | 15.20 NTU | 76.8 mV | 17.68 ft | 200.00 ml/min |
| 8/4/2022 12:46 PM | 05:00 | 6.74 pH | 21.42 °C | 913.74 µS/cm | 0.60 mg/L | 8.15 NTU | 64.8 mV | 17.71 ft | 200.00 ml/min |
| 8/4/2022 12:51 PM | 10:00 | 6.77 pH | 21.28 °C | 920.25 µS/cm | 0.45 mg/L | 4.43 NTU | 44.0 mV | 17.71 ft | 200.00 ml/min |
| 8/4/2022 12:56 PM | 15:00 | 6.78 pH | 21.20 °C | 925.77 µS/cm | 0.38 mg/L | 2.97 NTU | 38.4 mV | 17.71 ft | 200.00 ml/min |
| 8/4/2022 1:01 PM | 20:00 | 6.79 pH | 21.19 °C | 923.64 µS/cm | 0.29 mg/L | 2.44 NTU | 61.7 mV | 17.71 ft | 200.00 ml/min |
| 8/4/2022 1:06 PM | 25:00 | 6.80 pH | 21.18 °C | 925.16 µS/cm | 0.23 mg/L | 1.89 NTU | 64.2 mV | 17.71 ft | 200.00 ml/min |
| 8/4/2022 1:11 PM | 30:00 | 6.80 pH | 21.28 °C | 927.94 µS/cm | 0.18 mg/L | 1.67 NTU | 57.8 mV | 17.71 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HGWC-121A | Grab. |
| Dup-3 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/4/2022 10:43:59 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|---|--|--|
| Location Name: HGWC-124 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.12 ft Total Depth: 35.22 ft Initial Depth to Water: 15.62 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 30.12 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.39 ft | Instrument Used: Aqua TROLL 400 Serial Number: 843593 |
|---|--|--|

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 10:43 AM | 00:00 | 7.21 pH | 20.34 °C | 535.11 µS/cm | 0.89 mg/L | 16.70 NTU | -23.6 mV | 16.01 ft | 200.00 ml/min |
| 8/4/2022 10:48 AM | 05:00 | 7.19 pH | 19.78 °C | 543.74 µS/cm | 0.37 mg/L | 4.33 NTU | 4.6 mV | 16.01 ft | 200.00 ml/min |
| 8/4/2022 10:53 AM | 10:00 | 7.19 pH | 19.88 °C | 544.06 µS/cm | 0.28 mg/L | 4.06 NTU | -8.2 mV | 16.01 ft | 200.00 ml/min |
| 8/4/2022 10:58 AM | 15:00 | 7.19 pH | 19.90 °C | 545.13 µS/cm | 0.22 mg/L | 2.51 NTU | 29.1 mV | 16.01 ft | 200.00 ml/min |
| 8/4/2022 11:03 AM | 20:00 | 7.18 pH | 19.95 °C | 543.30 µS/cm | 0.20 mg/L | 2.30 NTU | 35.7 mV | 16.01 ft | 200.00 ml/min |
| 8/4/2022 11:08 AM | 25:00 | 7.16 pH | 19.95 °C | 541.14 µS/cm | 0.21 mg/L | 1.74 NTU | 18.8 mV | 16.01 ft | 200.00 ml/min |
| 8/4/2022 11:13 AM | 30:00 | 7.15 pH | 20.08 °C | 541.55 µS/cm | 0.19 mg/L | 1.92 NTU | 43.4 mV | 16.01 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HGWC-124 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/4/2022 3:05:42 PM

Project: GP-Plant Hammond

Operator Name: Tristan Orndorff

| | | |
|---|--|--|
| Location Name: HGWC-125 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.19 ft Total Depth: 63.83 ft Initial Depth to Water: 43.76 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 58.19 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.05 ft | Instrument Used: Aqua TROLL 400 Serial Number: 883546 |
|---|--|--|

Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Partly 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 | |
| 8/4/2022 3:05 PM | 00:00 | 6.03 pH | 21.49 °C | 937.43 µS/cm | 1.43 mg/L | 5.71 NTU | 83.8 mV | 43.81 ft | 200.00 ml/min |
| 8/4/2022 3:10 PM | 05:00 | 5.98 pH | 20.98 °C | 938.27 µS/cm | 0.64 mg/L | 4.43 NTU | 129.3 mV | 43.81 ft | 200.00 ml/min |
| 8/4/2022 3:15 PM | 10:00 | 5.99 pH | 20.81 °C | 950.47 µS/cm | 0.40 mg/L | 2.06 NTU | 124.5 mV | 43.81 ft | 200.00 ml/min |
| 8/4/2022 3:20 PM | 15:00 | 6.03 pH | 20.99 °C | 968.68 µS/cm | 0.33 mg/L | 2.33 NTU | 119.8 mV | 43.81 ft | 200.00 ml/min |
| 8/4/2022 3:25 PM | 20:00 | 6.06 pH | 20.88 °C | 981.26 µS/cm | 0.29 mg/L | 1.20 NTU | 115.9 mV | 43.81 ft | 200.00 ml/min |
| 8/4/2022 3:30 PM | 25:00 | 6.08 pH | 20.99 °C | 987.65 µS/cm | 0.28 mg/L | 0.84 NTU | 87.2 mV | 43.81 ft | 200.00 ml/min |
| 8/4/2022 3:35 PM | 30:00 | 6.09 pH | 20.77 °C | 992.44 µS/cm | 0.27 mg/L | 0.80 NTU | 110.7 mV | 43.81 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HGWC-125 | Grab. |

Low-Flow Test Report:

Test Date / Time: 8/4/2022 2:59:55 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

| | | |
|---|---|--|
| Location Name: HGWC-126 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 58.52 ft Total Depth: 68.44 ft Initial Depth to Water: 40.79 ft | Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 63.52 ft Estimated Total Volume Pumped: 21.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 1.63 ft | Instrument Used: Aqua TROLL 400 Serial Number: 843593 |
|---|---|--|

Test Notes:

Seven bottles: Full app. III and IV and Major Ions

Weather Conditions:

Cloudy, 85 degrees F

Low-Flow Readings:

| Date Time | Elapsed Time | pH | Temperature | Specific Conductivity | RDO Concentration | Turbidity | ORP | Depth to Water | Flow |
|------------------|--------------|---------|-------------|-----------------------|-------------------|-----------|----------|----------------|---------------|
| | | +/- 0.1 | +/- 0.5 | +/- 5 % | +/- 0.2 | +/- 5 | +/- 10 | +/- 0.3 | |
| 8/4/2022 2:59 PM | 00:00 | 6.59 pH | 22.08 °C | 841.13 µS/cm | 2.31 mg/L | 2.28 NTU | -15.3 mV | 41.41 ft | 200.00 ml/min |
| 8/4/2022 3:04 PM | 05:00 | 6.63 pH | 22.89 °C | 854.29 µS/cm | 1.86 mg/L | 2.32 NTU | -19.3 mV | 41.43 ft | 200.00 ml/min |
| 8/4/2022 3:09 PM | 10:00 | 6.68 pH | 22.54 °C | 841.25 µS/cm | 1.29 mg/L | 2.40 NTU | -18.3 mV | 41.58 ft | 200.00 ml/min |
| 8/4/2022 3:14 PM | 15:00 | 6.77 pH | 22.40 °C | 842.35 µS/cm | 1.07 mg/L | 2.42 NTU | -20.8 mV | 41.68 ft | 200.00 ml/min |
| 8/4/2022 3:19 PM | 20:00 | 6.83 pH | 22.64 °C | 843.94 µS/cm | 0.84 mg/L | 1.10 NTU | -23.1 mV | 41.75 ft | 200.00 ml/min |
| 8/4/2022 3:24 PM | 25:00 | 6.83 pH | 23.76 °C | 851.17 µS/cm | 0.82 mg/L | 1.67 NTU | -49.7 mV | 41.60 ft | 200.00 ml/min |
| 8/4/2022 3:29 PM | 30:00 | 6.84 pH | 22.88 °C | 865.35 µS/cm | 0.71 mg/L | 1.22 NTU | -51.6 mV | 41.72 ft | 200.00 ml/min |
| 8/4/2022 3:34 PM | 35:00 | 6.88 pH | 22.31 °C | 837.87 µS/cm | 0.54 mg/L | 0.81 NTU | -25.5 mV | 41.83 ft | 200.00 ml/min |
| 8/4/2022 3:39 PM | 40:00 | 6.89 pH | 22.50 °C | 847.18 µS/cm | 0.55 mg/L | 1.12 NTU | -28.9 mV | 41.81 ft | 200.00 ml/min |
| 8/4/2022 3:45 PM | 46:02 | 6.91 pH | 22.22 °C | 847.55 µS/cm | 0.40 mg/L | 0.52 NTU | -32.0 mV | 41.93 ft | 200.00 ml/min |
| 8/4/2022 3:50 PM | 51:02 | 6.93 pH | 21.79 °C | 848.41 µS/cm | 0.34 mg/L | 0.70 NTU | -28.5 mV | 41.98 ft | 200.00 ml/min |
| 8/4/2022 3:55 PM | 56:02 | 6.94 pH | 22.62 °C | 855.05 µS/cm | 0.33 mg/L | 0.62 NTU | -30.7 mV | 42.00 ft | 200.00 ml/min |
| 8/4/2022 4:00 PM | 01:01:02 | 6.94 pH | 21.64 °C | 846.35 µS/cm | 0.30 mg/L | 0.39 NTU | -29.8 mV | 42.02 ft | 200.00 ml/min |

| | | | | | | | | | |
|------------------|----------|---------|----------|--------------|-----------|----------|----------|----------|---------------|
| 8/4/2022 4:05 PM | 01:06:02 | 6.96 pH | 22.54 °C | 839.92 µS/cm | 0.30 mg/L | 1.12 NTU | -54.8 mV | 41.99 ft | 200.00 ml/min |
| 8/4/2022 4:10 PM | 01:11:02 | 7.00 pH | 25.24 °C | 855.04 µS/cm | 0.38 mg/L | 0.81 NTU | -60.7 mV | 42.07 ft | 200.00 ml/min |
| 8/4/2022 4:15 PM | 01:16:02 | 7.02 pH | 21.59 °C | 842.02 µS/cm | 0.32 mg/L | 0.34 NTU | -56.0 mV | 42.14 ft | 200.00 ml/min |
| 8/4/2022 4:20 PM | 01:21:02 | 7.00 pH | 21.06 °C | 845.53 µS/cm | 0.29 mg/L | 0.39 NTU | -54.3 mV | 42.19 ft | 200.00 ml/min |
| 8/4/2022 4:25 PM | 01:26:02 | 7.00 pH | 21.24 °C | 840.20 µS/cm | 0.29 mg/L | 0.33 NTU | -54.1 mV | 42.29 ft | 200.00 ml/min |
| 8/4/2022 4:30 PM | 01:31:02 | 7.00 pH | 21.17 °C | 842.37 µS/cm | 0.28 mg/L | 0.67 NTU | -28.3 mV | 42.25 ft | 200.00 ml/min |
| 8/4/2022 4:35 PM | 01:36:02 | 6.99 pH | 20.88 °C | 843.71 µS/cm | 0.26 mg/L | 0.34 NTU | -53.0 mV | 42.35 ft | 200.00 ml/min |
| 8/4/2022 4:40 PM | 01:41:02 | 6.99 pH | 21.28 °C | 845.72 µS/cm | 0.23 mg/L | 0.36 NTU | -28.4 mV | 42.42 ft | 200.00 ml/min |

Samples

| Sample ID: | Description: |
|------------|--------------|
| HGWC-126 | Grab. |

CALIBRATION REPORTS

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 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 | | | 4.00 | 4.05 | | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (7) | 21380632 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 | | | 7.00 | 7.00 | | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| pH (10) | 20080656 4123 | 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 | | 24.24 | 10.00 | 9.96 | | +/- 0.1 SU | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| ORP (mV) | 21140143 4123 | 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: 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 | 2470032 04/2023 | | 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 | | | 21380102 04/23 | | 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 | | | 20080056 04/23 | | 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 Vessler

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

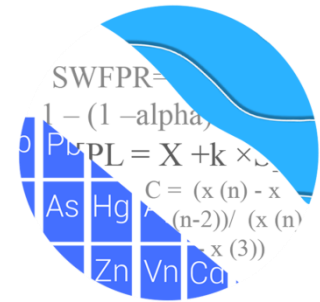
Calibration log

| | 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 | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| 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 | <input checked="" type="radio"/> Yes <input type="radio"/> No | |
| 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

GROUNDWATER STATS CONSULTING



February 28, 2023

Southern Company Services
Attn: Ms. Kristen Jurinko
241 Ralph McGill Blvd. NE, Bin 10160
Atlanta, Georgia 30308

Re: Plant Hammond Ash Pond 3 (AP-3)
August 2022 Statistical Analysis

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 analysis of groundwater data for Georgia Power Company's Plant Hammond AP-3. 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 groundwater monitoring wells, except for those discussed below. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** HGWA-1, HGWA-2, HGWA-3, HGWA-43D, HGWA-44D, HGWA-45D, and HGWA-122
- **Downgradient wells:** HGWC-120, HGWC-121A, HGWC-124, HGWC-125, and HGWC-126

New upgradient wells HGWA-43D, HGWA-44D, and HGWA-45D were first sampled in September 2020 and all available data are included in construction of interwell prediction limits. As requested by Southern Company Services, upgradient wells with 2 or more

samples will be incorporated into the statistical analyses. Sampling began at new downgradient wells HGWC-125 and HGWC-126 in May 2020 and also have at least 8 rounds of background sampling; therefore, they are statistically analyzed in this report with prediction limits and confidence intervals.

Assessment wells MW-32, MW-41, and MW-46D were reclassified as piezometers and, along with piezometer MW-39, are no longer sampled. Therefore, these piezometers are not included in this analysis.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting.

The CCR program consists of the following constituents listed below. The terms "constituent" and "parameter" are interchangeable.

- **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

When no detections are present in downgradient wells for a given constituent, statistical analyses are not required. A summary of downgradient Appendix IV well/constituent pairs containing 100% non-detects follows this letter. These well/constituent pairs were included in the time series and box plots, but no formal statistics were required.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. In the case of lithium, historical reporting limits vary among the wells. Therefore, the reporting limit of 0.03 mg/L was substituted across all wells, which is the most recent reporting limit provided by the laboratory.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Data at all wells were evaluated during the background screening described below 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 screening and demonstrated 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

Appendix III parameters are evaluated using interwell prediction limits combined with a 1-of-2 resample plan for the following constituents: boron, calcium, chloride, fluoride, pH, sulfate, and TDS.

Parametric prediction limits are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

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 (for data sets containing <15% non-detects as described above) are 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.

Summary of Background Screening Conducted in March 2019

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. Those findings were submitted with the screening report.

While this was not the case during the background screening, when the most recent value is identified as an outlier, values are not flagged in the database as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values existed in the data sets and appeared on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values were observed trace values (i.e. measurements reported between the Method Detection Limit and the Practical Quantitation Limit) by the laboratory and, therefore, were not flagged as outliers.

Of the outliers identified by Tukey's method, only one outlier was flagged for TDS in upgradient well HGWA-112. All other values are similar to remaining measurements within a given well or neighboring wells or were reported non-detects. The outlier summary follows this report (Figure C).

Additionally, when any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages display the flagged value in a lighter font as well.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at each well to identify statistically significant increasing or decreasing trends. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed one statistically significant decreasing trend for the Appendix III parameters. However, the trend noted was relatively low in magnitude when compared to average concentrations, and the background time period is short; therefore, no adjustments were made to the data sets.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) is typically used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. However, interwell methods are currently implemented in accordance with the Georgia EPD regulations and are used to evaluate compliance samples in downgradient wells.

Statistical Evaluation of Appendix III Parameters – August 2022

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. 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 new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed for each Appendix III parameter using all historical upgradient well data through August 2022 (Figure D). Interwell prediction limits use all available upgradient well data to establish a background limit for an individual constituent. The August 2022 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When the resample 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 further action is necessary. If no resample is collected, the initial exceedance is automatically confirmed. For Appendix III parameters, several prediction limit exceedances were identified. A summary table of the interwell prediction limits follows this letter. Exceedances were identified for the following well/constituent pairs:

- Boron: HGWC-120, HGWC-121A, and HGWC-125
- Calcium: HGWC-120, HGWC-121A, HGWC-125, and HGWC-126
- Sulfate: HGWC-120, HGWC-121A, and HGWC-125
- TDS: HGWC-121A and HGWC-125

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. When trends are present in upgradient wells it is an indication of natural variability in groundwater quality 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)
- Calcium: HGWA-3 (upgradient) and HGWC-126
- Sulfate: HGWA-2 (upgradient)

Decreasing trends:

- Boron: HGWA-122 (upgradient), HGWC-120, and HGWC-121A
- Calcium: HGWA-121A
- Sulfate: HGWA-122 (upgradient), HGWC-120, and HGWC-121A
- TDS: HGWC-121A

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (MCL or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. 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 of downgradient well data to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well with detections. Note that a GWPS is established for each Appendix IV constituent. However, since there are 100% non-detects for beryllium, cadmium, and thallium in downgradient wells, no confidence intervals were required for these constituents.

The Sanitas software was used to calculate both the tolerance limits and the confidence intervals. Confidence intervals were compared to the GWPS prepared as described above (Figure H). Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. A

summary of the confidence intervals follows this letter and no exceedances were identified.

Trend Test Evaluation – Appendix IV

While this step was not necessary during this report, 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. Upgradient wells are included in the trend analyses when a minimum of 5 samples are available 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.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Hammond AP-3. 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

100% Non-Detects: Appendix IV Downgradient

Analysis Run 11/2/2022 12:37 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-3

Antimony (mg/L)
HGWC-124

Beryllium (mg/L)
HGWC-120, HGWC-121A, HGWC-124, HGWC-125, HGWC-126

Cadmium (mg/L)
HGWC-120, HGWC-121A, HGWC-124, HGWC-125, HGWC-126

Cobalt (mg/L)
HGWC-124, HGWC-126

Mercury (mg/L)
HGWC-121A, HGWC-125, HGWC-126

Molybdenum (mg/L)
HGWC-121A, HGWC-126

Selenium (mg/L)
HGWC-125, HGWC-126

Thallium (mg/L)
HGWC-120, HGWC-121A, HGWC-124, HGWC-125, HGWC-126

Interwell Prediction Limit - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-3 Printed 10/20/2022, 6:56 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%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-------------------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-----------------|----------------|------------------|--------------|-----------------------------|
| Boron (mg/L) | HGWC-120 | 0.44 | n/a | 8/4/2022 | 1 | Yes | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-121A | 0.44 | n/a | 8/4/2022 | 1.8 | Yes | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-125 | 0.44 | n/a | 8/4/2022 | 1.4 | Yes | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-120 | 138 | n/a | 8/4/2022 | 173 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-121A | 138 | n/a | 8/4/2022 | 160 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-125 | 138 | n/a | 8/4/2022 | 170 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-126 | 138 | n/a | 8/4/2022 | 141 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-120 | 88.2 | n/a | 8/4/2022 | 230 | Yes | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-121A | 88.2 | n/a | 8/4/2022 | 162 | Yes | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-125 | 88.2 | n/a | 8/4/2022 | 331 | Yes | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-121A | 632 | n/a | 8/4/2022 | 640 | Yes | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-125 | 632 | n/a | 8/4/2022 | 706 | Yes | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |

Interwell Prediction Limit - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-3 Printed 10/20/2022, 6:56 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg.N%NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------------------|------------------|-------------|------------|-----------------|------------|------------|--------------|------------|------------|------------------|------------------------------------|
| Boron (mg/L) | HGWC-120 | 0.44 | n/a | 8/4/2022 | 1 | Yes | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-121A | 0.44 | n/a | 8/4/2022 | 1.8 | Yes | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-124 | 0.44 | n/a | 8/4/2022 | 0.36 | No | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-125 | 0.44 | n/a | 8/4/2022 | 1.4 | Yes | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-126 | 0.44 | n/a | 8/4/2022 | 0.023J | No | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-120 | 138 | n/a | 8/4/2022 | 173 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-121A | 138 | n/a | 8/4/2022 | 160 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-124 | 138 | n/a | 8/4/2022 | 103 | No | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-125 | 138 | n/a | 8/4/2022 | 170 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-126 | 138 | n/a | 8/4/2022 | 141 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-120 | 44.8 | n/a | 8/4/2022 | 2.7 | No | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-121A | 44.8 | n/a | 8/4/2022 | 15.4 | No | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-124 | 44.8 | n/a | 8/4/2022 | 2.6 | No | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-125 | 44.8 | n/a | 8/4/2022 | 11.6 | No | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-126 | 44.8 | n/a | 8/4/2022 | 8.7 | No | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-120 | 0.96 | n/a | 8/4/2022 | 0.38 | No | 114 24.56 | n/a | n/a | 0.0001526 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-121A | 0.96 | n/a | 8/4/2022 | 0.18 | No | 114 24.56 | n/a | n/a | 0.0001526 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-124 | 0.96 | n/a | 8/4/2022 | 0.074J | No | 114 24.56 | n/a | n/a | 0.0001526 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-125 | 0.96 | n/a | 8/4/2022 | 0.15 | No | 114 24.56 | n/a | n/a | 0.0001526 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-126 | 0.96 | n/a | 8/4/2022 | 0.5 | No | 114 24.56 | n/a | n/a | 0.0001526 | NP Inter (normality) 1 of 2 |
| pH (s.u.) | HGWC-120 | 8.25 | 4.57 | 8/4/2022 | 6.93 | No | 113 0 | n/a | n/a | 0.000311 | NP Inter (normality) 1 of 2 |
| pH (s.u.) | HGWC-121A | 8.25 | 4.57 | 8/4/2022 | 6.8 | No | 113 0 | n/a | n/a | 0.000311 | NP Inter (normality) 1 of 2 |
| pH (s.u.) | HGWC-124 | 8.25 | 4.57 | 8/4/2022 | 7.15 | No | 113 0 | n/a | n/a | 0.000311 | NP Inter (normality) 1 of 2 |
| pH (s.u.) | HGWC-125 | 8.25 | 4.57 | 8/4/2022 | 6.09 | No | 113 0 | n/a | n/a | 0.000311 | NP Inter (normality) 1 of 2 |
| pH (s.u.) | HGWC-126 | 8.25 | 4.57 | 8/4/2022 | 6.99 | No | 113 0 | n/a | n/a | 0.000311 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-120 | 88.2 | n/a | 8/4/2022 | 230 | Yes | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-121A | 88.2 | n/a | 8/4/2022 | 162 | Yes | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-124 | 88.2 | n/a | 8/4/2022 | 73.1 | No | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-125 | 88.2 | n/a | 8/4/2022 | 331 | Yes | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-126 | 88.2 | n/a | 8/4/2022 | 68.3 | No | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-120 | 632 | n/a | 8/4/2022 | 632 | No | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-121A | 632 | n/a | 8/4/2022 | 640 | Yes | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-124 | 632 | n/a | 8/4/2022 | 334 | No | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-125 | 632 | n/a | 8/4/2022 | 706 | Yes | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-126 | 632 | n/a | 8/4/2022 | 510 | No | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |

Appendix III Trend Test - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-3 Printed 10/20/2022, 7:00 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|---------------|----------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Boron (mg/L) | HGWA-122 (bg) | -0.02454 | -84 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-2 (bg) | 0.002545 | 111 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-120 | -0.04213 | -73 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-121A | -0.2499 | -96 | -63 | Yes | 17 | 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 |
| Calcium (mg/L) | HGWC-121A | -5.681 | -68 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-126 | 13.84 | 40 | 34 | Yes | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-122 (bg) | -1.483 | -76 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-2 (bg) | 1.619 | 101 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-120 | -16.59 | -98 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-121A | -25.95 | -96 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-121A | -52.05 | -94 | -63 | Yes | 17 | 5.882 | n/a | n/a | 0.01 | NP |

Appendix III Trend Test - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-3 Printed 10/20/2022, 7:00 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 |
| Boron (mg/L) | HGWA-122 (bg) | -0.02454 | -84 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-2 (bg) | 0.002545 | 111 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-3 (bg) | 0.0003378 | 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) | 0.1016 | 13 | 21 | No | 8 | 12.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-45D (bg) | -0.01353 | -11 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-120 | -0.04213 | -73 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-121A | -0.2499 | -96 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-125 | 0 | 8 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-1 (bg) | 2.653 | 61 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-122 (bg) | -2.468 | -40 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-2 (bg) | 0.7505 | 51 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-3 (bg) | 2.436 | 99 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-43D (bg) | -3.927 | -14 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-44D (bg) | -5.744 | -14 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-45D (bg) | -3.572 | -18 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-120 | 1.46 | 33 | 68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-121A | -5.681 | -68 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-125 | 8.147 | 10 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-126 | 13.84 | 40 | 34 | Yes | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-1 (bg) | 1.779 | 35 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-122 (bg) | -1.483 | -76 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-2 (bg) | 1.619 | 101 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-3 (bg) | 0.673 | 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 | 8 | 21 | No | 8 | 12.5 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-45D (bg) | -4.804 | -12 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-120 | -16.59 | -98 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-121A | -25.95 | -96 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-125 | -27.92 | -21 | -34 | No | 11 | 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-122 (bg) | -11.75 | -48 | -58 | No | 16 | 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 |
| Total Dissolved Solids (mg/L) | HGWA-45D (bg) | -7.51 | -8 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-121A | -52.05 | -94 | -63 | Yes | 17 | 5.882 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-125 | -33.98 | -12 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |

Upper Tolerance Limits

Plant Hammond Client: Southern Company Data: Hammond AP-3 Printed 10/20/2022, 7:13 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 | 99 | n/a | n/a | 84.85 | n/a | n/a | 0.006232 | NP Inter(NDs) |
| Arsenic (mg/L) | n/a | 0.005 | n/a | n/a | n/a | 97 | n/a | n/a | 70.1 | n/a | n/a | 0.006905 | NP Inter(NDs) |
| Barium (mg/L) | n/a | 0.64 | n/a | n/a | n/a | 107 | n/a | n/a | 0.9346 | n/a | n/a | 0.004135 | NP Inter(normality) |
| Beryllium (mg/L) | n/a | 0.0005 | n/a | n/a | n/a | 99 | n/a | n/a | 82.83 | n/a | n/a | 0.006232 | NP Inter(NDs) |
| Cadmium (mg/L) | n/a | 0.0005 | n/a | n/a | n/a | 97 | n/a | n/a | 88.66 | n/a | n/a | 0.006905 | NP Inter(NDs) |
| Chromium (mg/L) | n/a | 0.0079 | n/a | n/a | n/a | 101 | n/a | n/a | 78.22 | n/a | n/a | 0.005625 | NP Inter(NDs) |
| Cobalt (mg/L) | n/a | 0.038 | n/a | n/a | n/a | 107 | n/a | n/a | 77.57 | n/a | n/a | 0.004135 | NP Inter(NDs) |
| Combined Radium 226 + 228 (pCi/L) | n/a | 1.648 | n/a | n/a | n/a | 100 | 0.787 | 0.2581 | 0 | None | sqrt(x) | 0.05 | Inter |
| Fluoride (mg/L) | n/a | 0.96 | n/a | n/a | n/a | 114 | n/a | n/a | 24.56 | n/a | n/a | 0.002887 | NP Inter(normality) |
| Lead (mg/L) | n/a | 0.001 | n/a | n/a | n/a | 101 | n/a | n/a | 67.33 | n/a | n/a | 0.005625 | NP Inter(NDs) |
| Lithium (mg/L) | n/a | 0.048 | n/a | n/a | n/a | 107 | n/a | n/a | 32.71 | n/a | n/a | 0.004135 | NP Inter(normality) |
| Mercury (mg/L) | n/a | 0.0002 | n/a | n/a | n/a | 79 | n/a | n/a | 93.67 | n/a | n/a | 0.01738 | NP Inter(NDs) |
| Molybdenum (mg/L) | n/a | 0.01 | n/a | n/a | n/a | 109 | n/a | n/a | 66.97 | n/a | n/a | 0.003731 | NP Inter(NDs) |
| Selenium (mg/L) | n/a | 0.005 | n/a | n/a | n/a | 97 | n/a | n/a | 97.94 | n/a | n/a | 0.006905 | NP Inter(NDs) |
| Thallium (mg/L) | n/a | 0.001 | n/a | n/a | n/a | 97 | n/a | n/a | 98.97 | n/a | n/a | 0.006905 | NP Inter(NDs) |

| PLANT HAMMOND AP-3 GWPS | | | | |
|--------------------------------|------------|---------------------------|-------------------------|-------------|
| Constituent Name | MCL | CCR-Rule Specified | Background Limit | GWPS |
| Antimony, Total (mg/L) | 0.006 | | 0.003 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.005 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.64 | 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 | | 1.65 | 5 |
| Fluoride, Total (mg/L) | 4 | | 0.96 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.001 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.048 | 0.048 |
| Mercury, Total (mg/L) | 0.002 | | 0.0002 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.01 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

**Grey cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

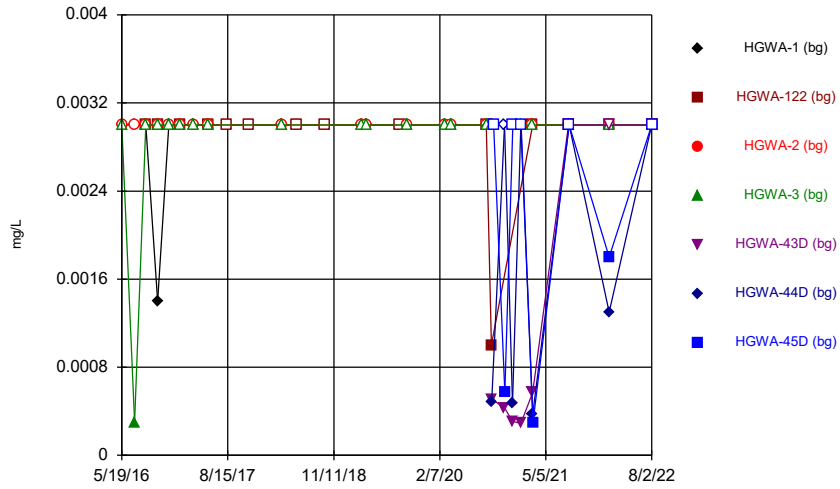
Confidence Interval - All Results (No Significant)

Plant Hammond Client: Southern Company Data: Hammond AP-3 Printed 11/1/2022, 9:54 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | %NDs | Transform | Alpha | Method |
|-----------------------------------|-----------|------------|------------|------------|------|----|-------|-----------|-------|----------------|
| Antimony (mg/L) | HGWC-120 | 0.003 | 0.0018 | 0.006 | No | 15 | 93.33 | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-121A | 0.003 | 0.0016 | 0.006 | No | 15 | 93.33 | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-124 | 0.003 | 0.003 | 0.006 | No | 15 | 100 | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-125 | 0.003 | 0.00061 | 0.006 | No | 11 | 81.82 | No | 0.006 | NP (NDs) |
| Antimony (mg/L) | HGWC-126 | 0.003 | 0.00043 | 0.006 | No | 11 | 81.82 | No | 0.006 | NP (NDs) |
| Arsenic (mg/L) | HGWC-120 | 0.005 | 0.001 | 0.01 | No | 13 | 61.54 | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-121A | 0.005 | 0.0014 | 0.01 | No | 13 | 76.92 | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-124 | 0.005 | 0.0006 | 0.01 | No | 13 | 92.31 | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-125 | 0.005 | 0.0014 | 0.01 | No | 10 | 70 | No | 0.011 | NP (NDs) |
| Arsenic (mg/L) | HGWC-126 | 0.005 | 0.00091 | 0.01 | No | 10 | 70 | No | 0.011 | NP (NDs) |
| Barium (mg/L) | HGWC-120 | 0.05171 | 0.04652 | 2 | No | 17 | 0 | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-121A | 0.08026 | 0.06462 | 2 | No | 17 | 0 | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-124 | 0.0728 | 0.06747 | 2 | No | 17 | 0 | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-125 | 0.04629 | 0.0408 | 2 | No | 11 | 0 | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-126 | 0.2562 | 0.2275 | 2 | No | 11 | 0 | No | 0.01 | Param. |
| Chromium (mg/L) | HGWC-120 | 0.005 | 0.0015 | 0.1 | No | 17 | 82.35 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-121A | 0.005 | 0.0005 | 0.1 | No | 17 | 94.12 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-124 | 0.005 | 0.00051 | 0.1 | No | 17 | 88.24 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-125 | 0.005 | 0.00058 | 0.1 | No | 11 | 72.73 | No | 0.006 | NP (NDs) |
| Chromium (mg/L) | HGWC-126 | 0.005 | 0.005 | 0.1 | No | 11 | 90.91 | No | 0.006 | NP (NDs) |
| Cobalt (mg/L) | HGWC-120 | 0.004435 | 0.002982 | 0.038 | No | 17 | 0 | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | HGWC-121A | 0.005 | 0.0005 | 0.038 | No | 17 | 82.35 | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | HGWC-124 | 0.005 | 0.005 | 0.038 | No | 17 | 100 | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | HGWC-125 | 0.01265 | 0.007679 | 0.038 | No | 11 | 0 | No | 0.01 | Param. |
| Cobalt (mg/L) | HGWC-126 | 0.005 | 0.005 | 0.038 | No | 11 | 100 | No | 0.006 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | HGWC-120 | 1.087 | 0.6342 | 5 | No | 16 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-121A | 1.169 | 0.492 | 5 | No | 16 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-124 | 0.8959 | 0.5525 | 5 | No | 16 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-125 | 1.423 | 0.6226 | 5 | No | 10 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-126 | 1.687 | 0.9815 | 5 | No | 10 | 0 | No | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-120 | 1 | 0.37 | 4 | No | 20 | 0 | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-121A | 0.2 | 0.14 | 4 | No | 18 | 0 | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-124 | 0.11 | 0.05 | 4 | No | 18 | 38.89 | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-125 | 0.1686 | 0.115 | 4 | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-126 | 0.4938 | 0.4389 | 4 | No | 11 | 0 | No | 0.01 | Param. |
| Lead (mg/L) | HGWC-120 | 0.001 | 0.0002 | 0.015 | No | 17 | 82.35 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-121A | 0.001 | 0.00036 | 0.015 | No | 17 | 82.35 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-124 | 0.001 | 0.00008 | 0.015 | No | 17 | 70.59 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-125 | 0.001 | 0.000047 | 0.015 | No | 11 | 54.55 | No | 0.006 | NP (NDs) |
| Lead (mg/L) | HGWC-126 | 0.001 | 0.000045 | 0.015 | No | 11 | 72.73 | No | 0.006 | NP (NDs) |
| Lithium (mg/L) | HGWC-120 | 0.0337 | 0.023 | 0.048 | No | 17 | 0 | No | 0.01 | NP (normality) |
| Lithium (mg/L) | HGWC-121A | 0.00897 | 0.007677 | 0.048 | No | 17 | 0 | No | 0.01 | Param. |
| Lithium (mg/L) | HGWC-124 | 0.015 | 0.001 | 0.048 | No | 17 | 29.41 | No | 0.01 | NP (normality) |
| Lithium (mg/L) | HGWC-125 | 0.005757 | 0.00377 | 0.048 | No | 11 | 0 | No | 0.01 | Param. |
| Lithium (mg/L) | HGWC-126 | 0.004109 | 0.003236 | 0.048 | No | 11 | 0 | No | 0.01 | Param. |
| Mercury (mg/L) | HGWC-120 | 0.0002 | 0.00007 | 0.002 | No | 13 | 84.62 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-121A | 0.0002 | 0.0002 | 0.002 | No | 13 | 100 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-124 | 0.0002 | 0.000051 | 0.002 | No | 13 | 92.31 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-125 | 0.0002 | 0.0002 | 0.002 | No | 10 | 100 | No | 0.011 | NP (NDs) |
| Mercury (mg/L) | HGWC-126 | 0.0002 | 0.0002 | 0.002 | No | 10 | 100 | No | 0.011 | NP (NDs) |
| Molybdenum (mg/L) | HGWC-120 | 0.03746 | 0.02651 | 0.1 | No | 17 | 0 | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-121A | 0.01 | 0.01 | 0.1 | No | 17 | 100 | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | HGWC-124 | 0.01 | 0.00091 | 0.1 | No | 17 | 35.29 | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | HGWC-125 | 0.01036 | -0.0001221 | 0.1 | No | 11 | 27.27 | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-126 | 0.01 | 0.01 | 0.1 | No | 11 | 100 | No | 0.006 | NP (NDs) |
| Selenium (mg/L) | HGWC-120 | 0.005 | 0.002 | 0.05 | No | 13 | 92.31 | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-121A | 0.005 | 0.0011 | 0.05 | No | 13 | 92.31 | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-124 | 0.005 | 0.0014 | 0.05 | No | 13 | 92.31 | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-125 | 0.005 | 0.005 | 0.05 | No | 10 | 100 | No | 0.011 | NP (NDs) |
| Selenium (mg/L) | HGWC-126 | 0.005 | 0.005 | 0.05 | No | 10 | 100 | No | 0.011 | NP (NDs) |

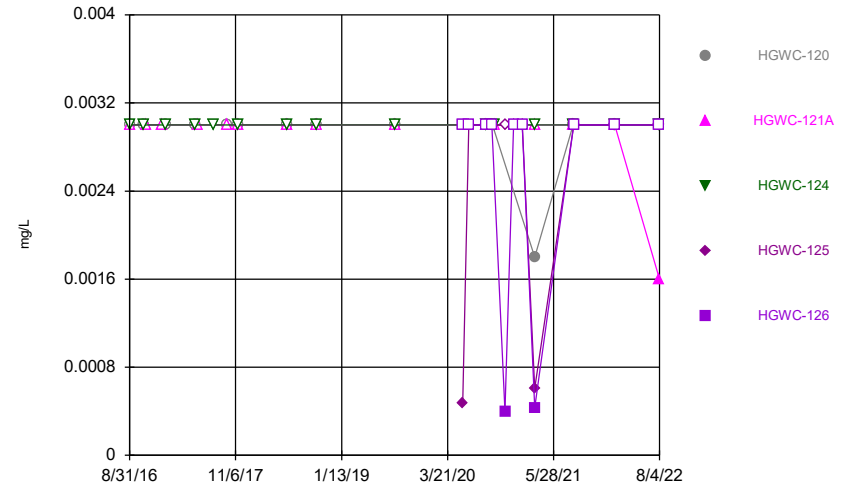
FIGURE A.

Time Series



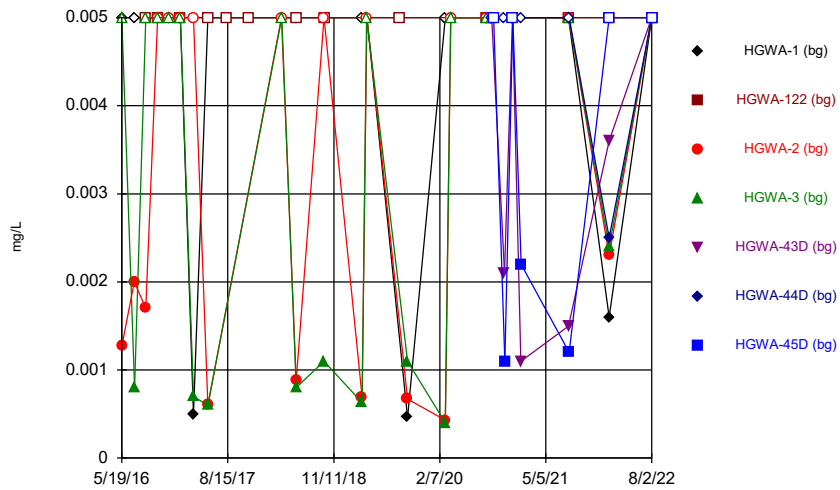
Constituent: Antimony Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



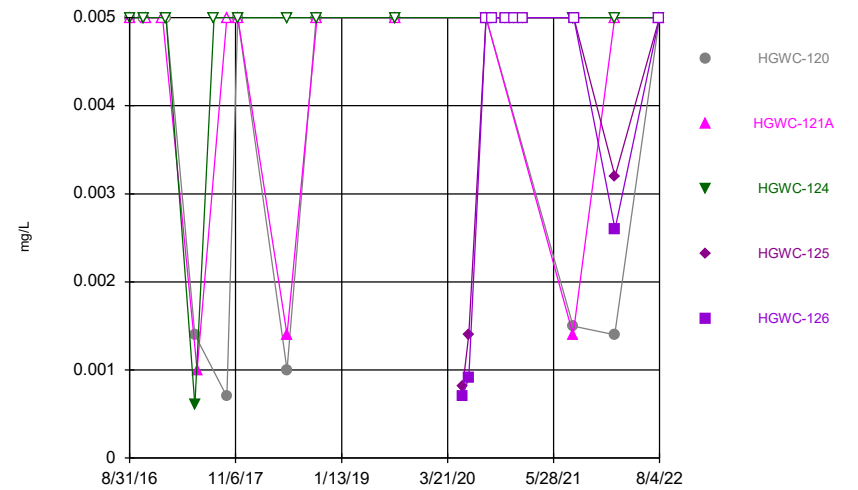
Constituent: Antimony Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



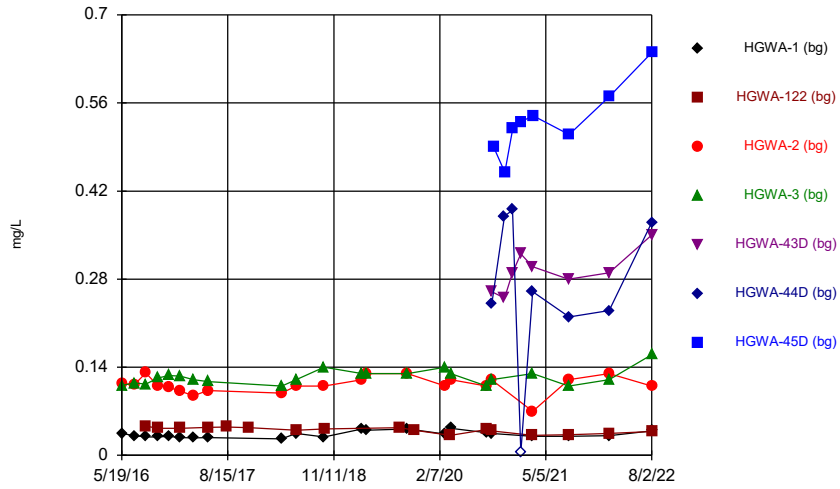
Constituent: Arsenic Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



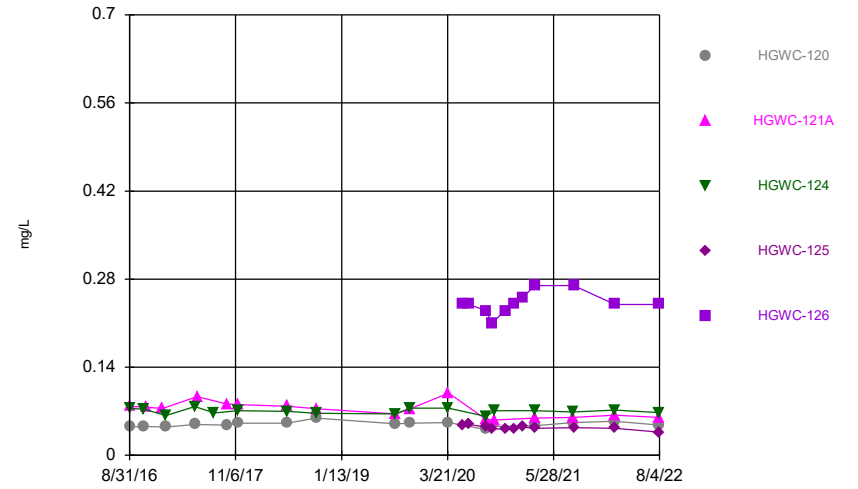
Constituent: Arsenic Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



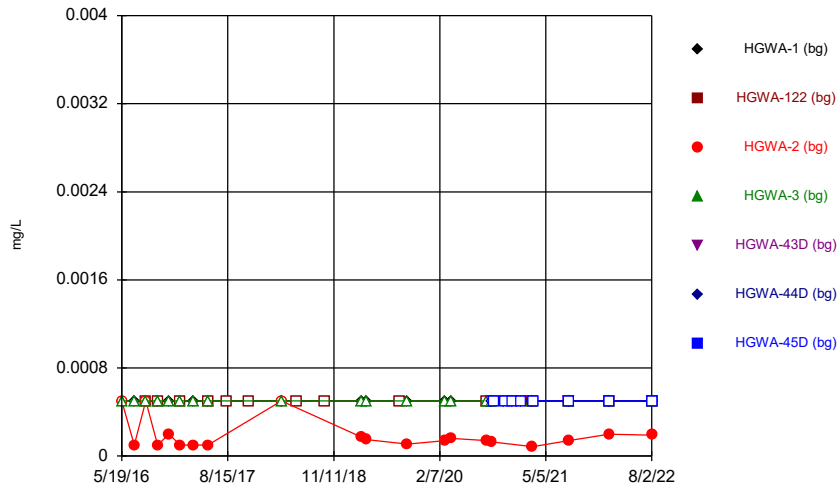
Constituent: Barium Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



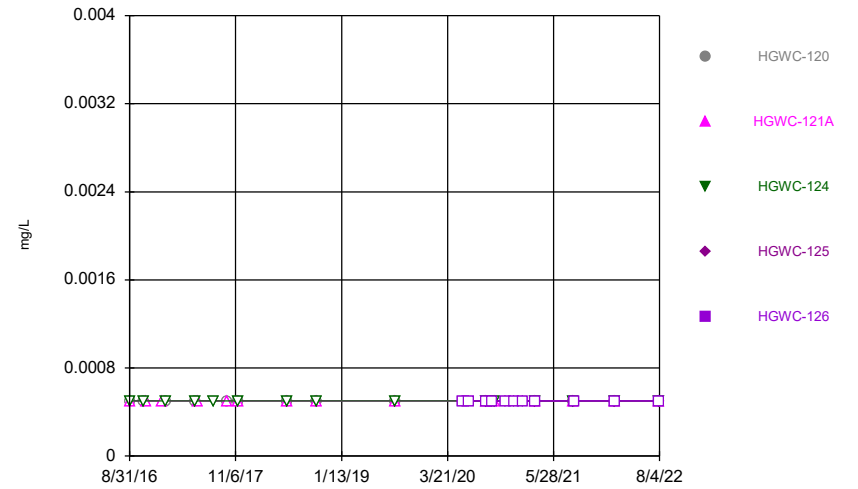
Constituent: Barium Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



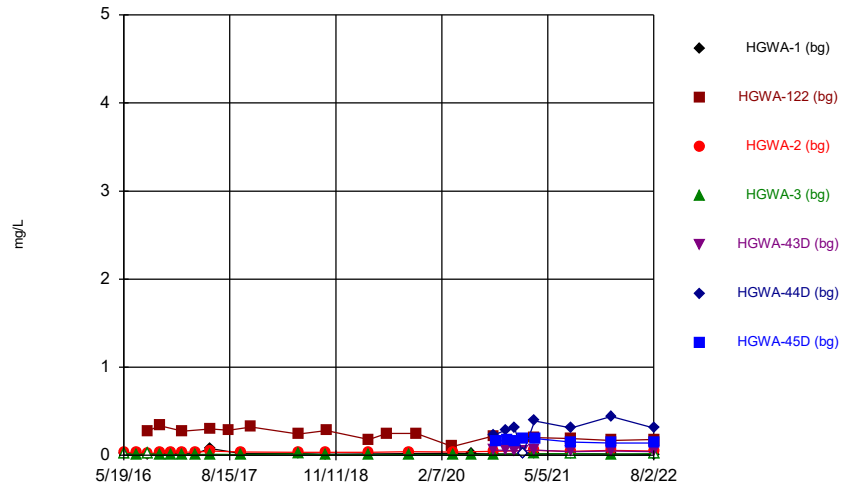
Constituent: Beryllium Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



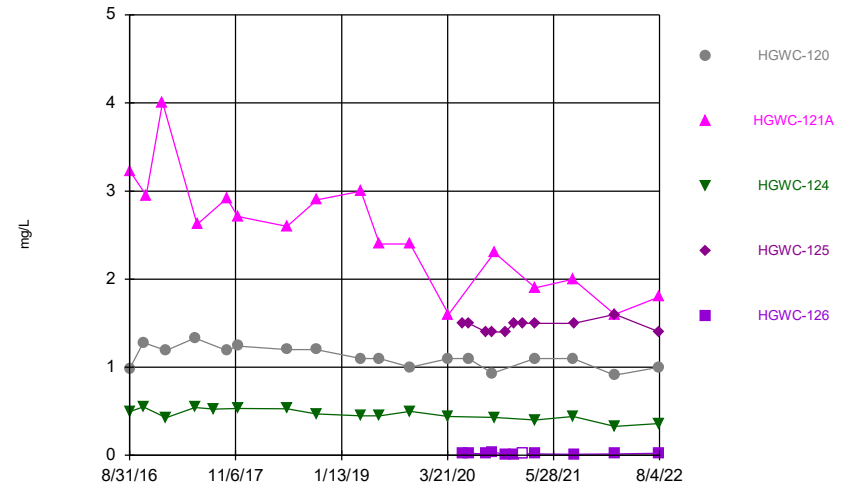
Constituent: Beryllium Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



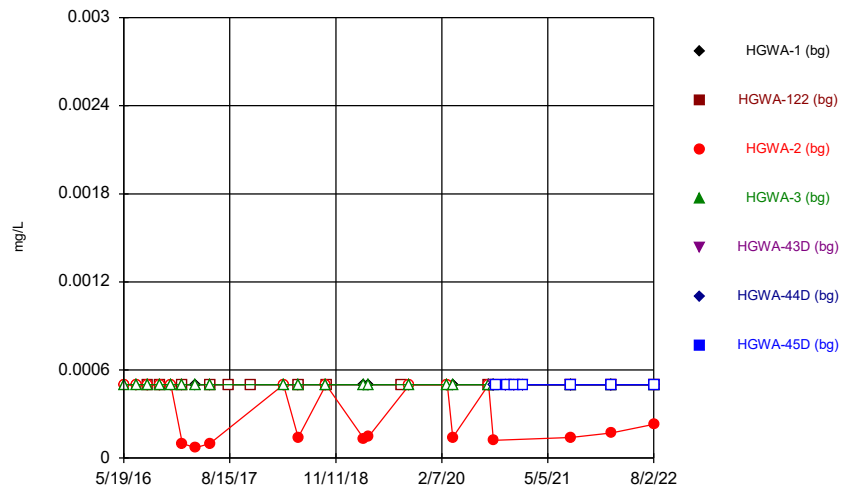
Constituent: Boron Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



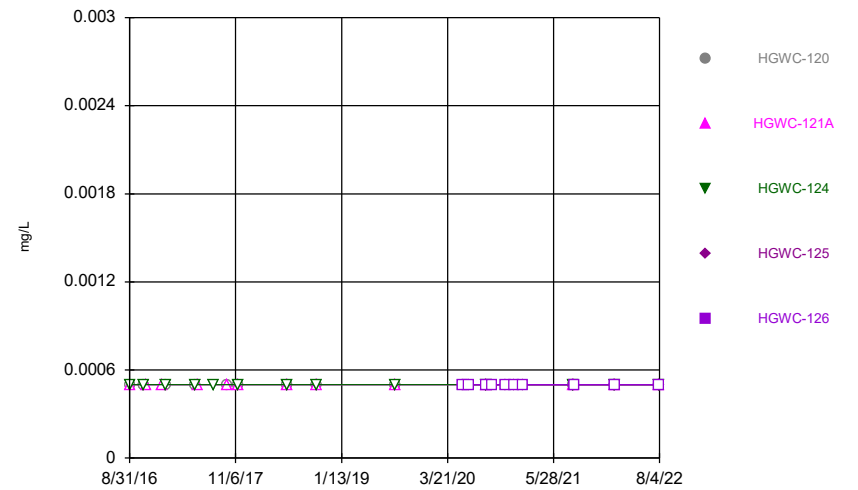
Constituent: Boron Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



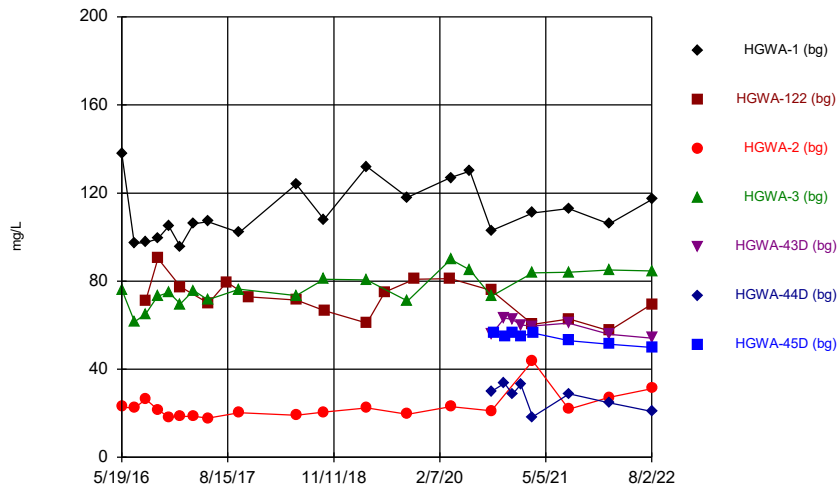
Constituent: Cadmium Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



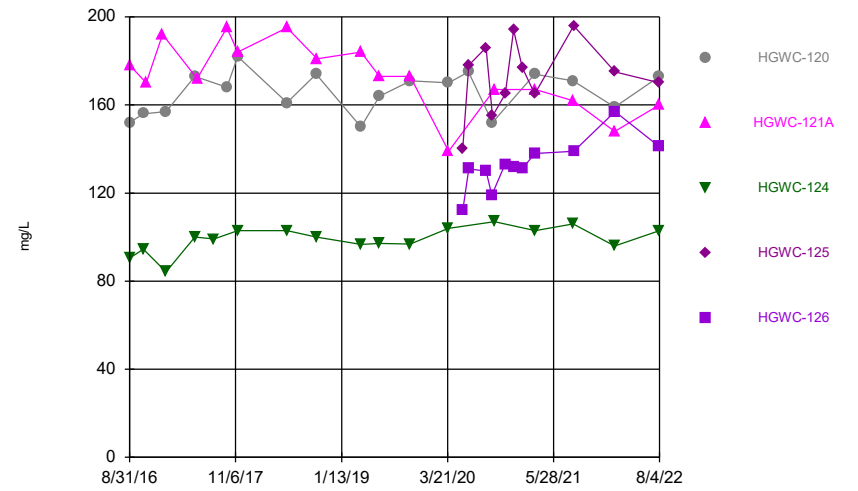
Constituent: Cadmium Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



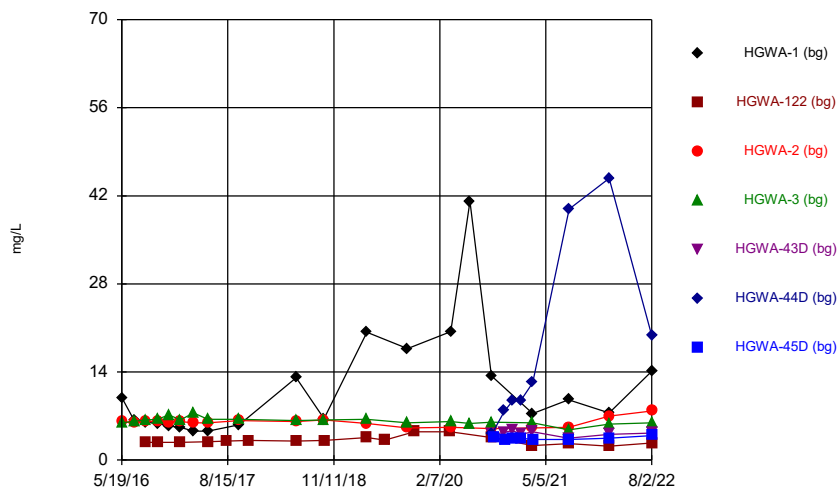
Constituent: Calcium Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



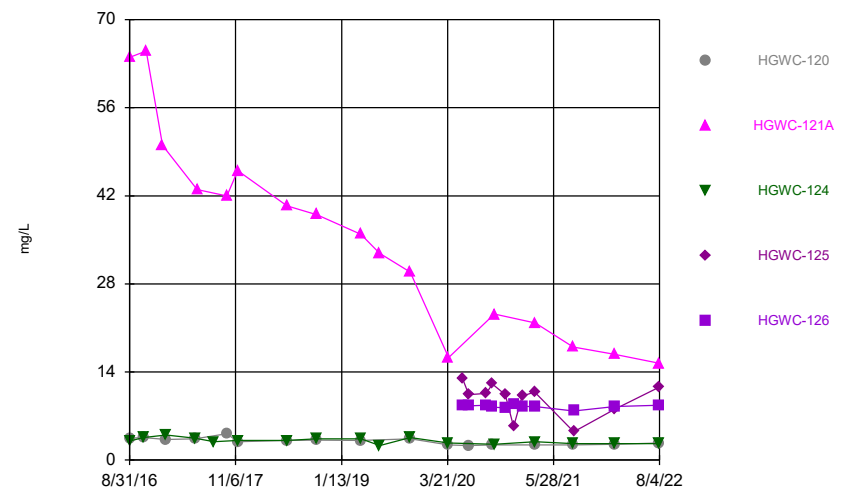
Constituent: Calcium Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



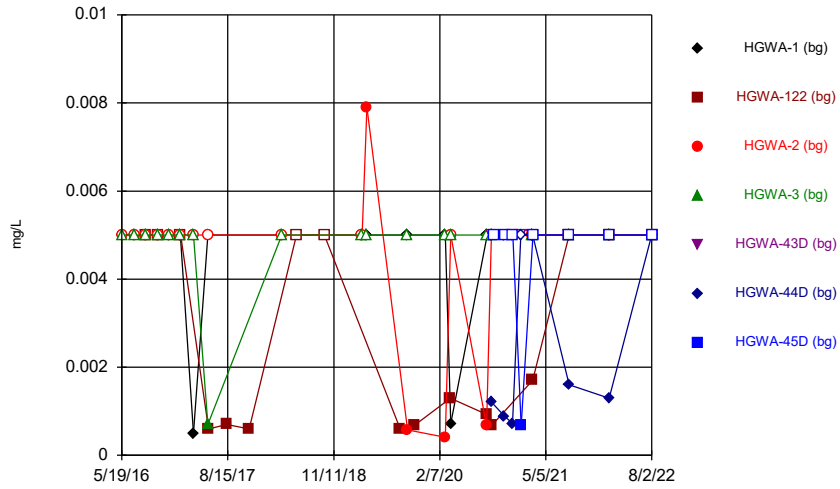
Constituent: Chloride Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



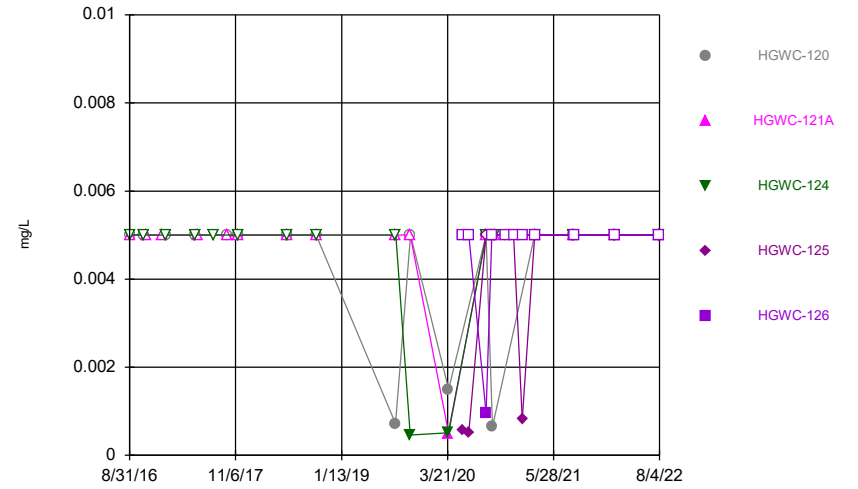
Constituent: Chloride Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



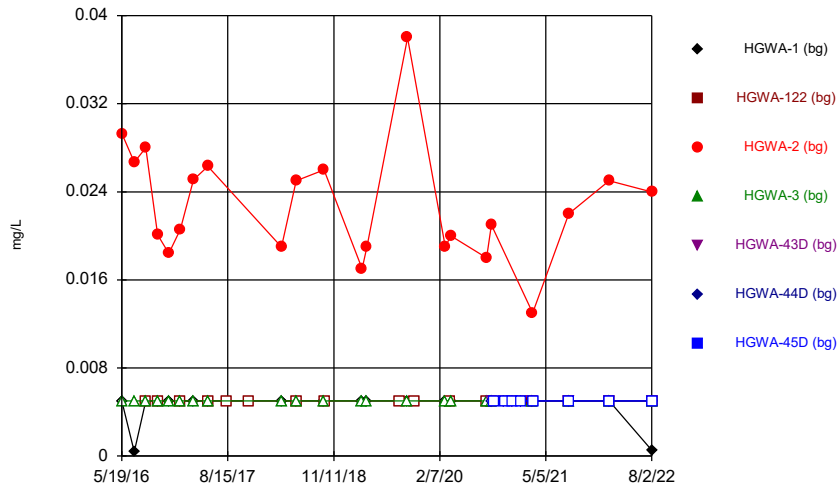
Constituent: Chromium Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



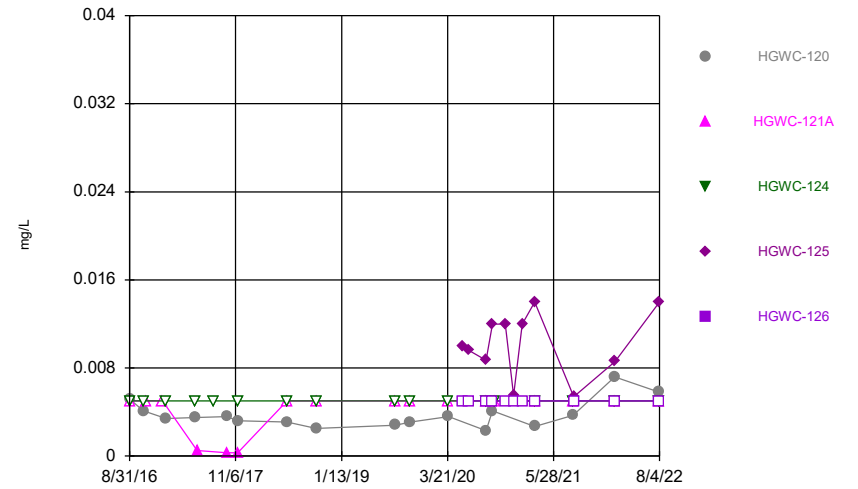
Constituent: Chromium Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



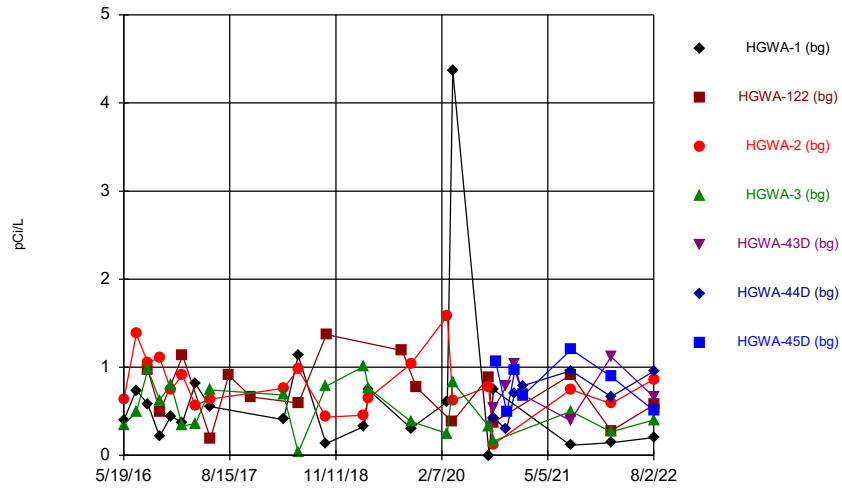
Constituent: Cobalt Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



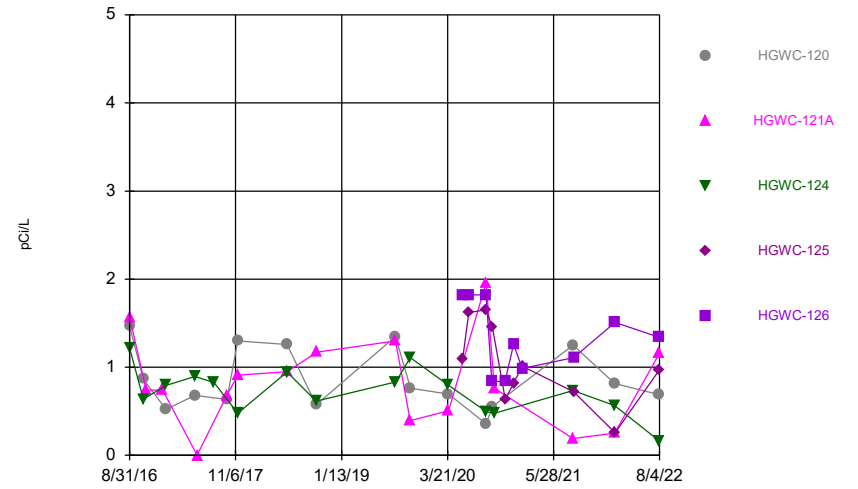
Constituent: Cobalt Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



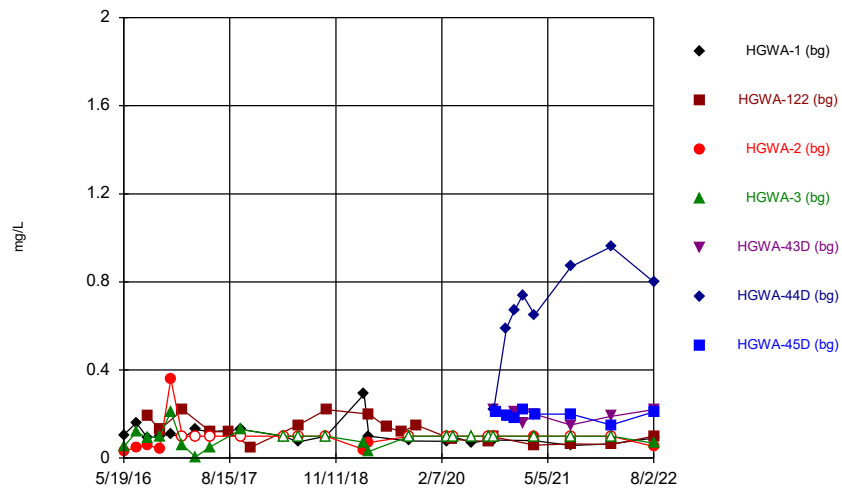
Constituent: Combined Radium 226 + 228 Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



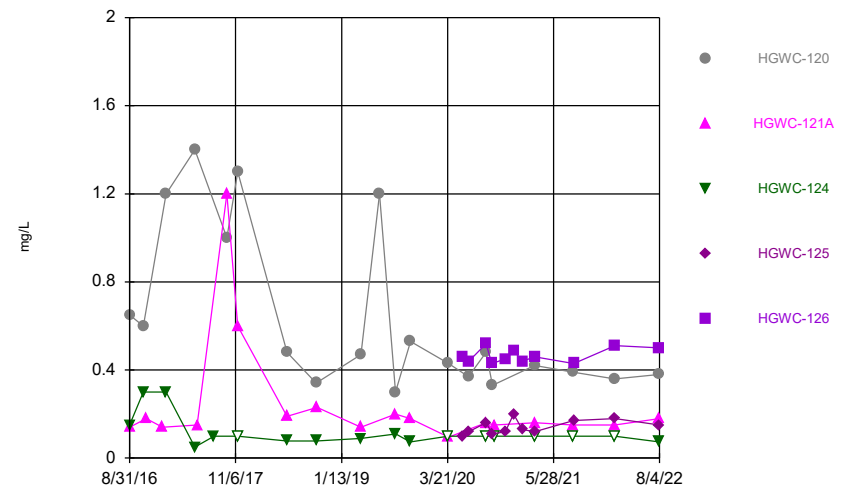
Constituent: Combined Radium 226 + 228 Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



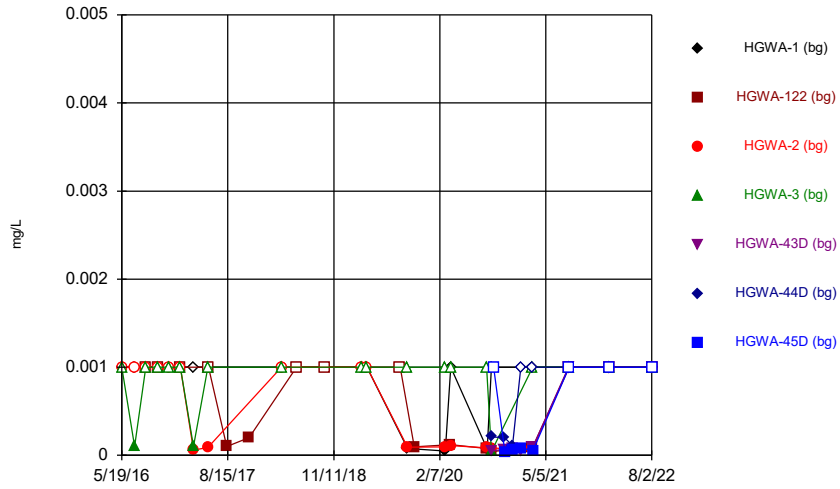
Constituent: Fluoride Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



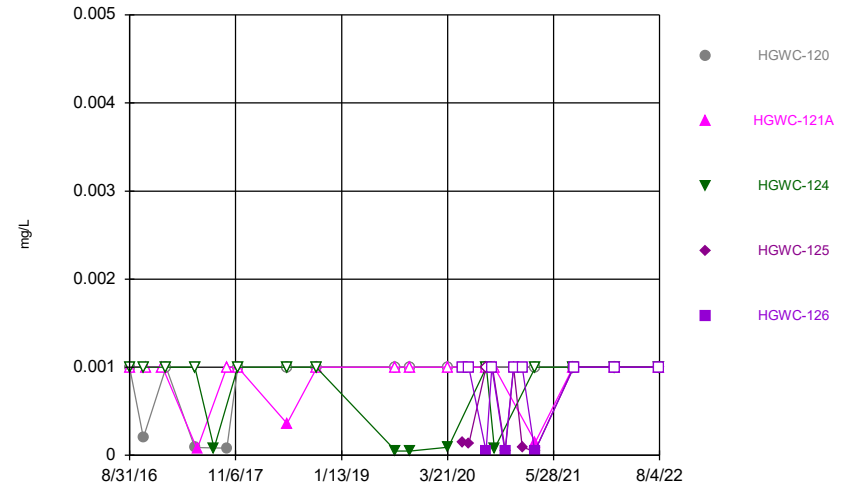
Constituent: Fluoride Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



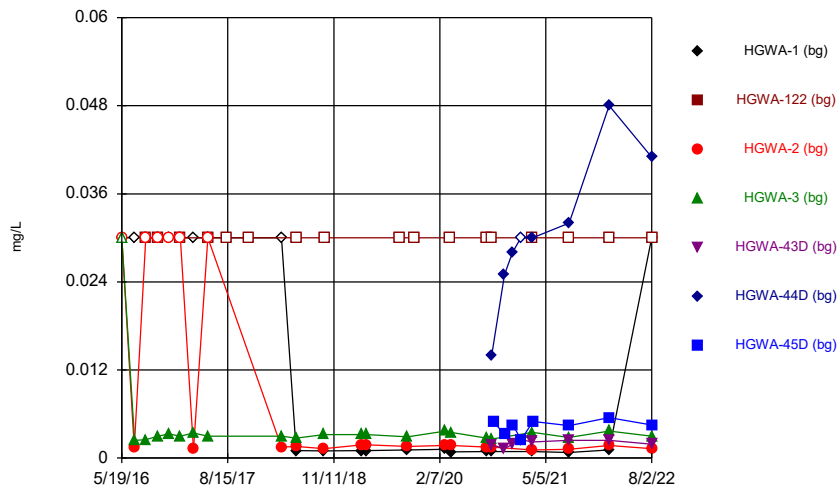
Constituent: Lead Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



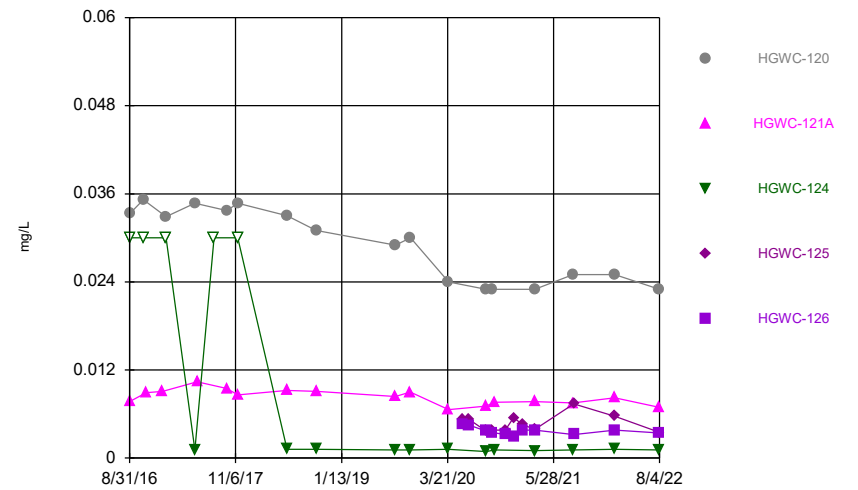
Constituent: Lead Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



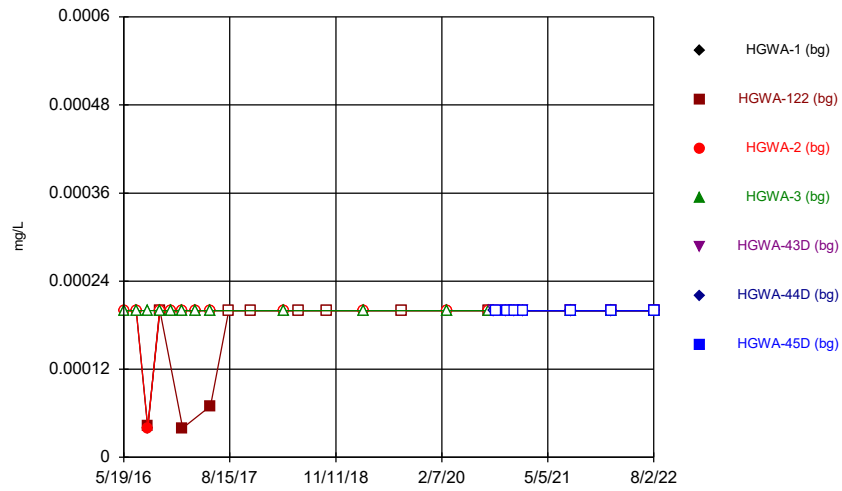
Constituent: Lithium Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



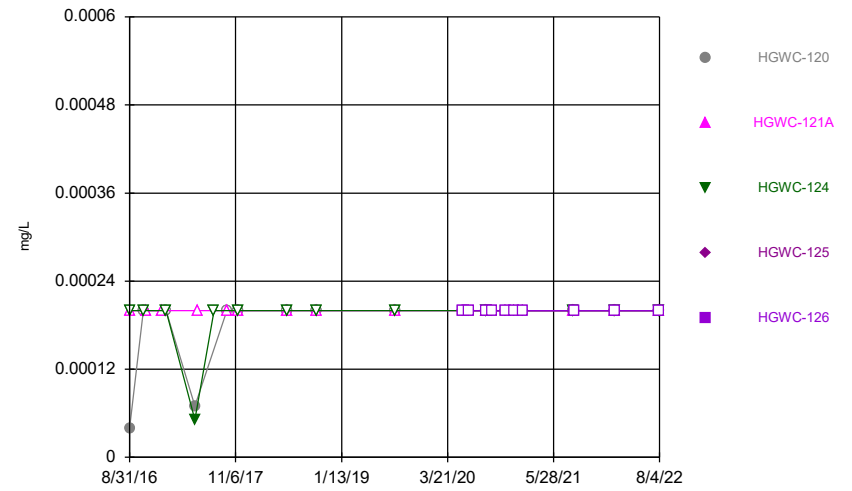
Constituent: Lithium Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



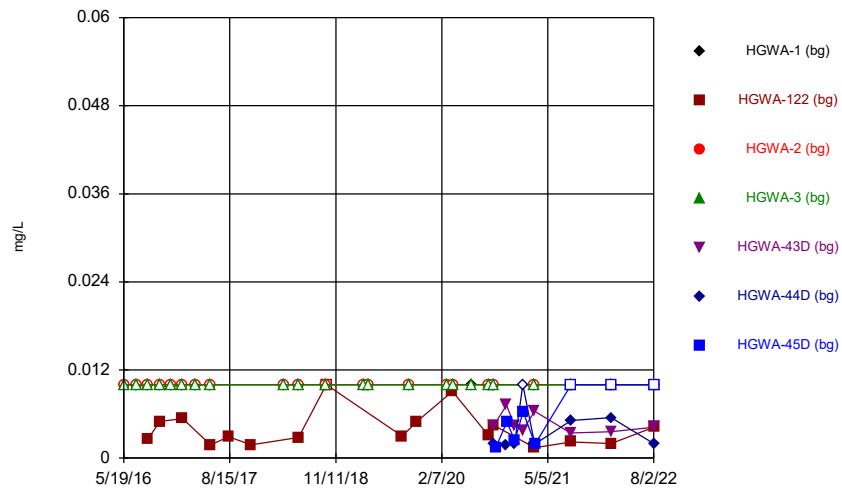
Constituent: Mercury Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



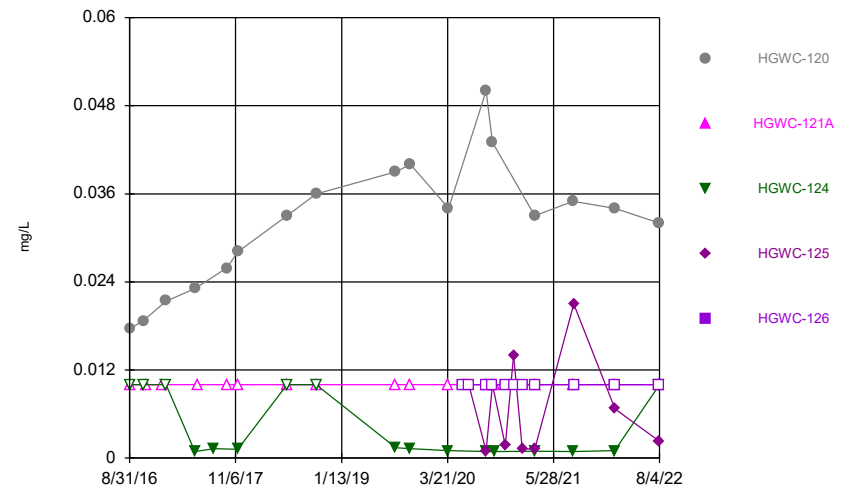
Constituent: Mercury Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



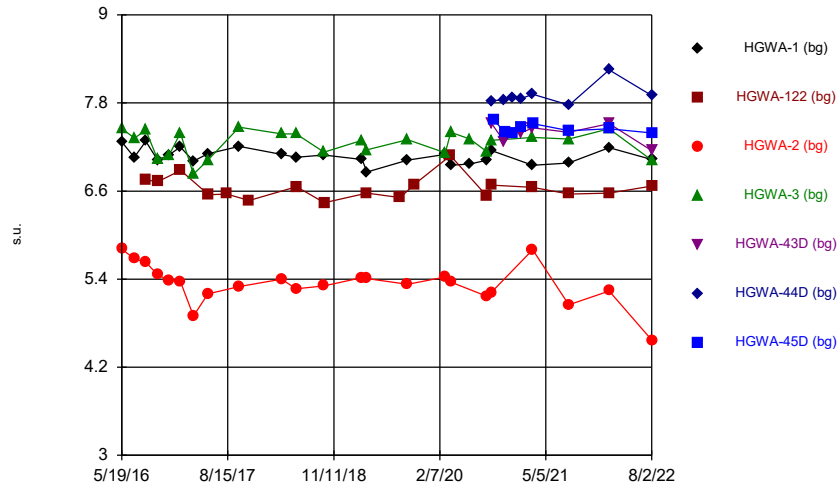
Constituent: Molybdenum Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



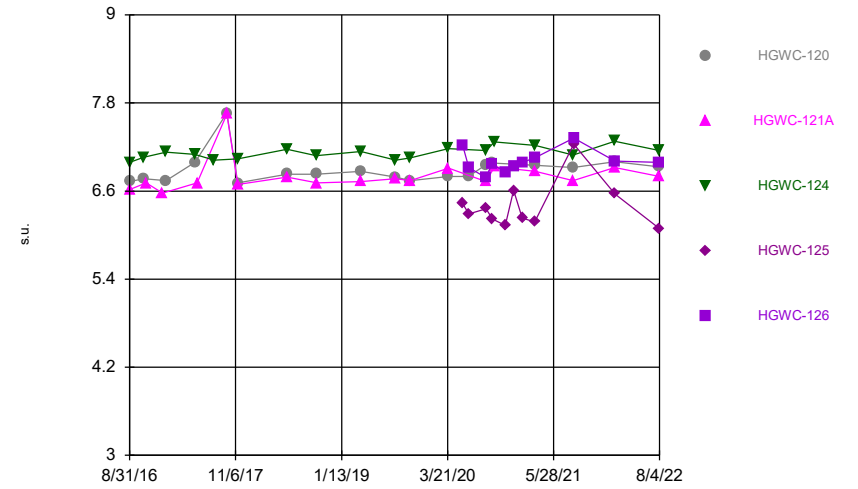
Constituent: Molybdenum Analysis Run 10/27/2022 5:08 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



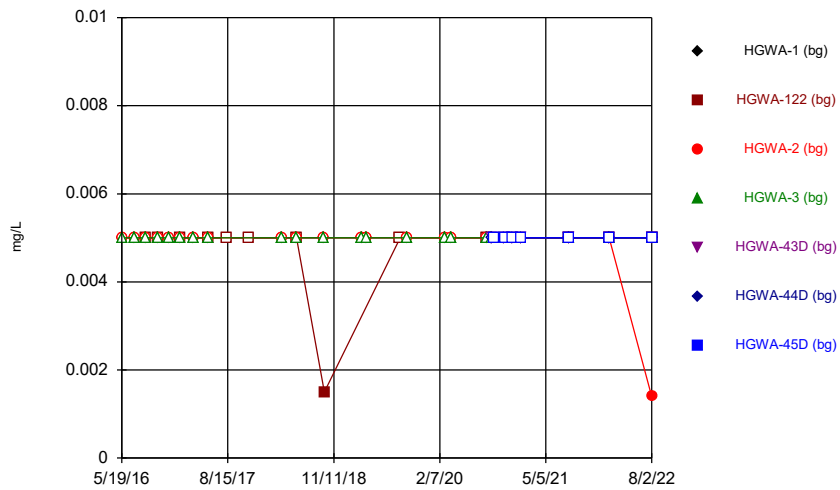
Constituent: pH Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



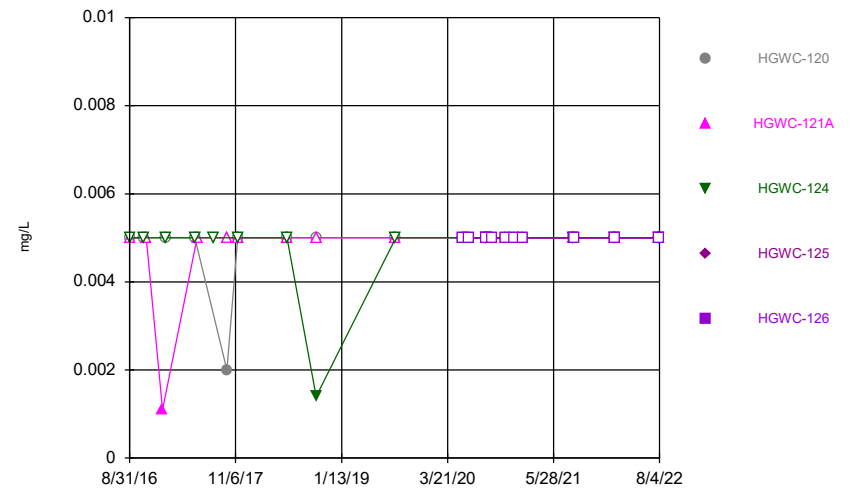
Constituent: pH Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



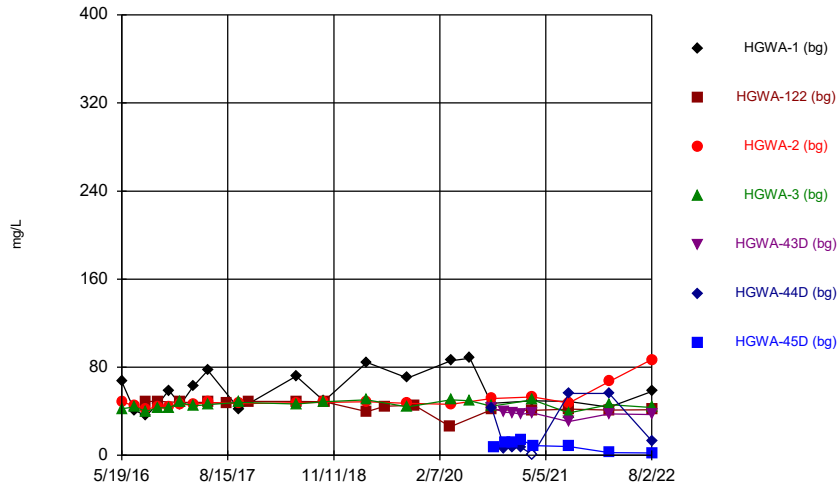
Constituent: Selenium Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



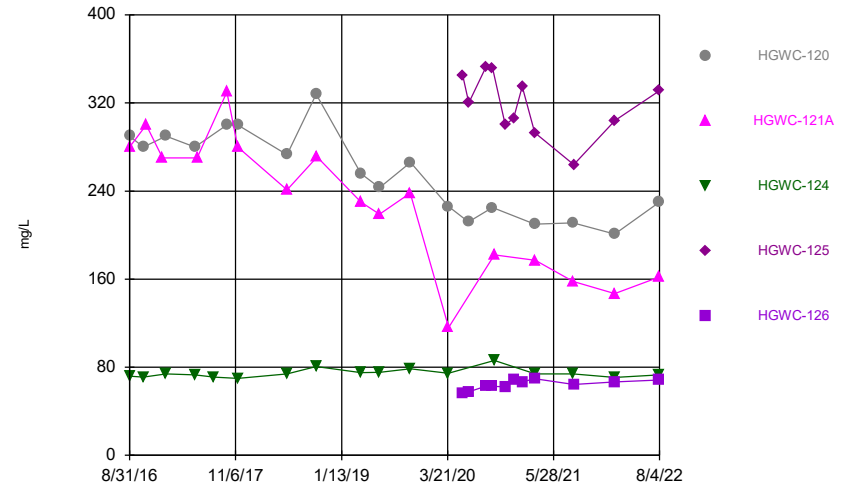
Constituent: Selenium Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



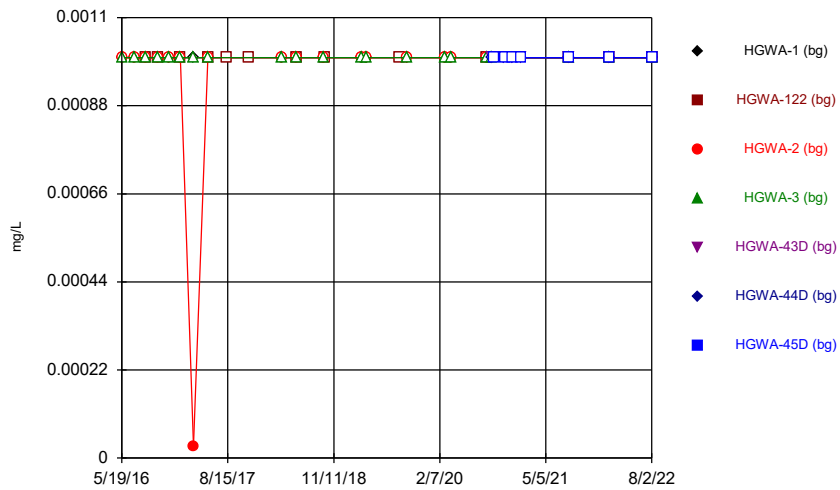
Constituent: Sulfate Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



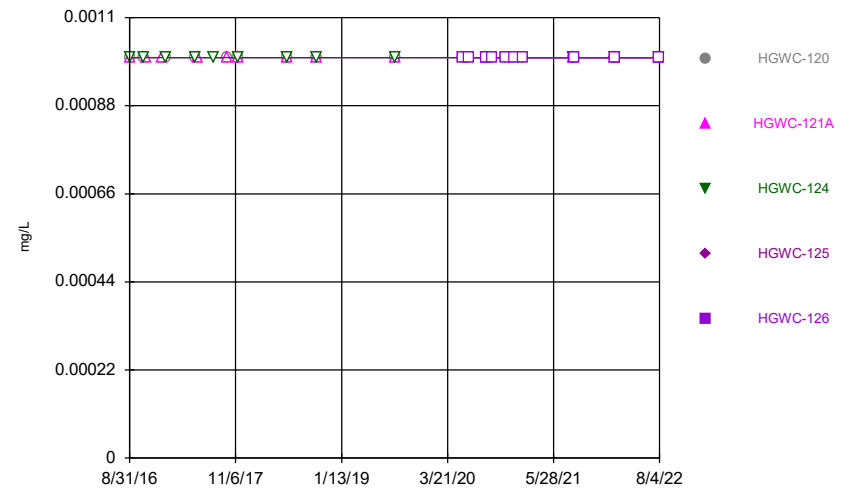
Constituent: Sulfate Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



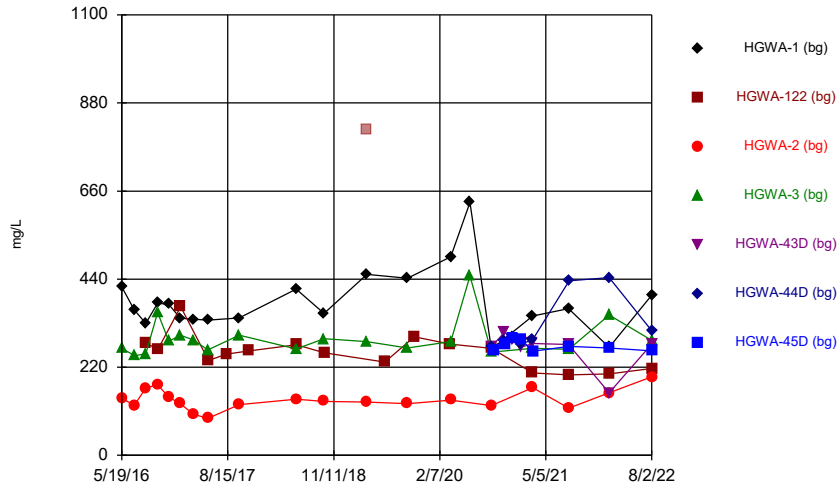
Constituent: Thallium Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



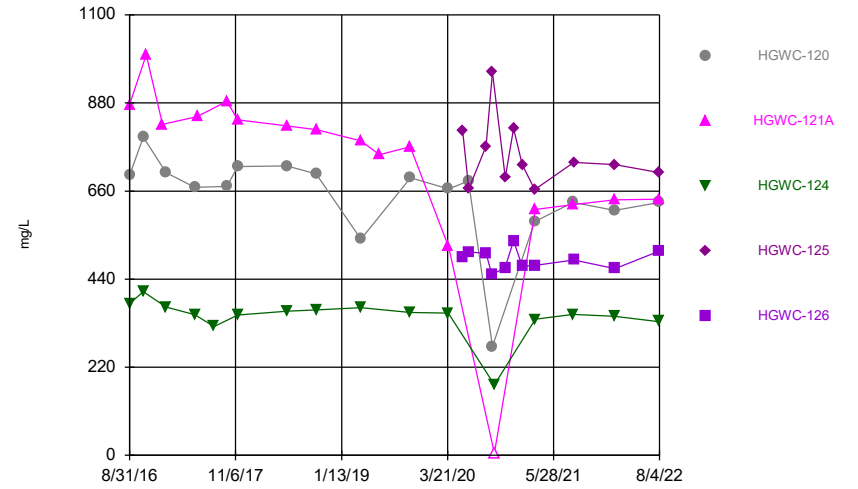
Constituent: Thallium Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|------------|------------|----------|-------------|-------------|
| 8/31/2016 | <0.003 | <0.003 | <0.003 | | |
| 10/26/2016 | <0.003 | | <0.003 | | |
| 11/7/2016 | | <0.003 | | | |
| 1/13/2017 | | <0.003 | | | |
| 1/27/2017 | <0.003 | | <0.003 | | |
| 5/25/2017 | <0.003 | | <0.003 | | |
| 6/3/2017 | | <0.003 | | | |
| 8/11/2017 | | | <0.003 | | |
| 10/2/2017 | <0.003 | <0.003 | | | |
| 11/15/2017 | <0.003 | <0.003 | <0.003 | | |
| 6/5/2018 | <0.003 | <0.003 | <0.003 | | |
| 10/2/2018 | <0.003 | | <0.003 | | |
| 10/5/2018 | | <0.003 | | | |
| 8/22/2019 | <0.003 | <0.003 | | | |
| 8/23/2019 | | | <0.003 | | |
| 5/22/2020 | | | | 0.00047 (J) | <0.003 |
| 6/16/2020 | | | | <0.003 | <0.003 |
| 8/25/2020 | | | | <0.003 | <0.003 |
| 8/26/2020 | <0.003 | <0.003 | | | |
| 8/27/2020 | | | <0.003 | | |
| 9/18/2020 | | | | | <0.003 |
| 9/21/2020 | <0.003 | | | <0.003 | |
| 9/28/2020 | | <0.003 | <0.003 | | |
| 11/11/2020 | | | | | 0.0004 (J) |
| 11/12/2020 | | | | <0.003 | |
| 12/16/2020 | | | | <0.003 | <0.003 |
| 1/20/2021 | | | | <0.003 | <0.003 |
| 3/12/2021 | 0.0018 (J) | | | 0.00061 (J) | 0.00043 (J) |
| 3/15/2021 | | <0.003 | <0.003 | | |
| 8/16/2021 | <0.003 | <0.003 | <0.003 | | |
| 8/19/2021 | | | | <0.003 | <0.003 |
| 2/2/2022 | <0.003 | <0.003 | <0.003 | | |
| 2/3/2022 | | | | <0.003 | <0.003 |
| 8/4/2022 | <0.003 | 0.0016 (J) | <0.003 | <0.003 | <0.003 |

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|------------|------------|------------|-------------|-------------|
| 8/31/2016 | <0.005 | <0.005 | <0.005 | | |
| 10/26/2016 | <0.005 | | <0.005 | | |
| 11/7/2016 | | <0.005 | | | |
| 1/13/2017 | | <0.005 | | | |
| 1/27/2017 | <0.005 | | <0.005 | | |
| 5/25/2017 | 0.0014 (J) | | 0.0006 (J) | | |
| 6/3/2017 | | 0.001 (J) | | | |
| 8/11/2017 | | | <0.005 | | |
| 10/2/2017 | 0.0007 (J) | <0.005 | | | |
| 11/15/2017 | <0.005 | <0.005 | <0.005 | | |
| 6/5/2018 | 0.001 (J) | 0.0014 (J) | <0.005 | | |
| 10/2/2018 | <0.005 | | <0.005 | | |
| 10/5/2018 | | <0.005 | | | |
| 8/22/2019 | <0.005 | <0.005 | | | |
| 8/23/2019 | | | <0.005 | | |
| 5/22/2020 | | | | 0.00081 (J) | 0.00071 (J) |
| 6/16/2020 | | | | 0.0014 (J) | 0.00091 (J) |
| 8/25/2020 | | | | <0.005 | <0.005 |
| 8/26/2020 | <0.005 | <0.005 | | | |
| 8/27/2020 | | | <0.005 | | |
| 9/18/2020 | | | | | <0.005 |
| 9/21/2020 | | | | <0.005 | |
| 11/11/2020 | | | | | <0.005 |
| 11/12/2020 | | | | <0.005 | |
| 12/16/2020 | | | | <0.005 | <0.005 |
| 1/20/2021 | | | | <0.005 | <0.005 |
| 8/16/2021 | 0.0015 (J) | 0.0014 (J) | <0.005 | | |
| 8/19/2021 | | | | <0.005 | <0.005 |
| 2/2/2022 | 0.0014 (J) | <0.005 | <0.005 | | |
| 2/3/2022 | | | | 0.0032 (J) | 0.0026 (J) |
| 8/4/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |

Time Series

Constituent: Barium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | 0.0346 | | 0.114 | 0.111 | | | |
| 7/11/2016 | 0.0311 | | 0.112 | | | | |
| 7/12/2016 | | | | 0.115 | | | |
| 8/30/2016 | 0.0293 | 0.0463 | 0.131 | 0.113 | | | |
| 10/19/2016 | 0.0293 | | 0.111 | 0.123 | | | |
| 10/20/2016 | | 0.0431 | | | | | |
| 12/6/2016 | 0.0304 | | 0.108 | 0.127 | | | |
| 1/24/2017 | 0.028 | | 0.102 | 0.126 | | | |
| 1/25/2017 | | 0.0429 | | | | | |
| 3/21/2017 | 0.0275 | | 0.095 | 0.12 | | | |
| 5/22/2017 | 0.0281 | | 0.103 | 0.117 | | | |
| 5/25/2017 | | 0.0447 | | | | | |
| 8/11/2017 | | 0.0451 | | | | | |
| 11/15/2017 | | 0.0439 | | | | | |
| 4/2/2018 | 0.026 | | 0.099 | | | | |
| 4/3/2018 | | | | 0.11 | | | |
| 6/4/2018 | 0.035 | | 0.11 | 0.12 | | | |
| 6/5/2018 | | 0.04 | | | | | |
| 10/1/2018 | 0.029 | | 0.11 | 0.14 | | | |
| 10/2/2018 | | 0.042 | | | | | |
| 3/12/2019 | 0.042 | | 0.12 | 0.13 | | | |
| 4/1/2019 | | | | 0.13 | | | |
| 4/2/2019 | 0.04 | | 0.13 | | | | |
| 8/22/2019 | | 0.044 | | | | | |
| 9/23/2019 | 0.042 | | 0.13 | 0.13 | | | |
| 10/21/2019 | | 0.04 | | | | | |
| 3/2/2020 | 0.034 | | 0.11 | 0.14 | | | |
| 3/24/2020 | | 0.032 | | | | | |
| 3/25/2020 | 0.043 | | 0.12 | 0.13 | | | |
| 8/24/2020 | | 0.041 | | | | | |
| 8/25/2020 | | | 0.11 | 0.11 | | | |
| 8/28/2020 | 0.036 | | | | | | |
| 9/15/2020 | 0.035 | 0.039 | 0.12 | 0.12 | | | |
| 9/16/2020 | | | | | 0.26 | 0.24 | |
| 9/25/2020 | | | | | | | 0.49 |
| 11/10/2020 | | | | 0.25 | 0.38 | | |
| 11/11/2020 | | | | | | | 0.45 |
| 12/15/2020 | | | | 0.29 | 0.39 | | |
| 12/16/2020 | | | | | | | 0.52 |
| 1/19/2021 | | | | 0.32 | <0.01 | | |
| 1/20/2021 | | | | | | | 0.53 |
| 3/10/2021 | 0.03 | | | | | 0.26 | |
| 3/11/2021 | | 0.032 | 0.07 | 0.13 | 0.3 | | |
| 3/12/2021 | | | | | | | 0.54 |
| 8/11/2021 | 0.03 | | | | 0.28 | | |
| 8/12/2021 | | | 0.12 | 0.11 | | | |
| 8/13/2021 | | 0.033 | | | | 0.22 | 0.51 |
| 2/1/2022 | 0.031 | 0.035 | 0.13 | 0.12 | 0.29 | 0.23 | 0.57 |
| 8/2/2022 | 0.039 | 0.038 | 0.11 | 0.16 | 0.35 | 0.37 | 0.64 |

Time Series

Constituent: Barium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|----------|----------|----------|
| 8/31/2016 | 0.045 | 0.0782 | 0.0744 | | |
| 10/26/2016 | 0.0462 | | 0.0735 | | |
| 11/7/2016 | | 0.0764 | | | |
| 1/13/2017 | | 0.0744 | | | |
| 1/27/2017 | 0.0451 | | 0.0632 | | |
| 5/25/2017 | 0.0488 | | 0.0773 | | |
| 6/3/2017 | | 0.0933 | | | |
| 8/11/2017 | | | 0.0672 | | |
| 10/2/2017 | 0.0479 | 0.0815 | | | |
| 11/15/2017 | 0.051 | 0.0807 | 0.0707 | | |
| 6/5/2018 | 0.051 | 0.078 | 0.07 | | |
| 10/2/2018 | 0.059 | | 0.067 | | |
| 10/5/2018 | | 0.074 | | | |
| 8/22/2019 | 0.05 | 0.066 | | | |
| 8/23/2019 | | | 0.066 | | |
| 10/21/2019 | | 0.074 | 0.075 | | |
| 10/22/2019 | 0.051 | | | | |
| 3/24/2020 | | | 0.075 | | |
| 3/25/2020 | 0.052 | 0.099 | | | |
| 5/22/2020 | | | | 0.048 | 0.24 |
| 6/16/2020 | | | | 0.049 | 0.24 |
| 8/25/2020 | | | | 0.045 | 0.23 |
| 8/26/2020 | 0.041 | 0.057 | | | |
| 8/27/2020 | | | 0.062 | | |
| 9/18/2020 | | | | | 0.21 |
| 9/21/2020 | 0.046 | | | 0.042 | |
| 9/28/2020 | | 0.056 | 0.071 | | |
| 11/11/2020 | | | | | 0.23 |
| 11/12/2020 | | | | 0.042 | |
| 12/16/2020 | | | | 0.041 | 0.24 |
| 1/20/2021 | | | | 0.045 | 0.25 |
| 3/12/2021 | 0.047 | | | 0.043 | 0.27 |
| 3/15/2021 | | 0.059 | 0.071 | | |
| 8/16/2021 | 0.052 | 0.06 | 0.069 | | |
| 8/19/2021 | | | | 0.044 | 0.27 |
| 2/2/2022 | 0.054 | 0.064 | 0.072 | | |
| 2/3/2022 | | | | 0.043 | 0.24 |
| 8/4/2022 | 0.048 | 0.06 | 0.068 | 0.037 | 0.24 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | <0.0005 | | <0.0005 | <0.0005 | | | |
| 7/11/2016 | <0.0005 | | 0.0001 (J) | | | | |
| 7/12/2016 | | | | <0.0005 | | | |
| 8/30/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | | |
| 10/19/2016 | <0.0005 | | 0.0001 (J) | <0.0005 | | | |
| 10/20/2016 | | <0.0005 | | | | | |
| 12/6/2016 | <0.0005 | | 0.0002 (J) | <0.0005 | | | |
| 1/24/2017 | <0.0005 | | 0.0001 (J) | <0.0005 | | | |
| 1/25/2017 | | <0.0005 | | | | | |
| 3/21/2017 | <0.0005 | | 0.0001 (J) | <0.0005 | | | |
| 5/22/2017 | <0.0005 | | 0.0001 (J) | <0.0005 | | | |
| 5/25/2017 | | <0.0005 | | | | | |
| 8/11/2017 | | <0.0005 | | | | | |
| 11/15/2017 | | <0.0005 | | | | | |
| 4/2/2018 | <0.0005 | | <0.0005 | | | | |
| 4/3/2018 | | | | <0.0005 | | | |
| 6/5/2018 | | <0.0005 | | | | | |
| 10/2/2018 | | <0.0005 | | | | | |
| 3/12/2019 | <0.0005 | | 0.00017 (J) | <0.0005 | | | |
| 4/1/2019 | | | | <0.0005 | | | |
| 4/2/2019 | <0.0005 | | 0.00015 (J) | | | | |
| 8/22/2019 | | <0.0005 | | | | | |
| 9/23/2019 | <0.0005 | | 0.00011 (J) | <0.0005 | | | |
| 3/2/2020 | <0.0005 | | 0.00014 (J) | <0.0005 | | | |
| 3/25/2020 | <0.0005 | | 0.00016 (J) | <0.0005 | | | |
| 8/24/2020 | | <0.0005 | | | | | |
| 8/25/2020 | | | 0.00014 (J) | <0.0005 | | | |
| 8/28/2020 | <0.0005 | | | | | | |
| 9/15/2020 | <0.0005 | <0.0005 | 0.00013 (J) | <0.0005 | | | |
| 9/16/2020 | | | | | <0.0005 | <0.0005 | |
| 9/25/2020 | | | | | | | <0.0005 |
| 11/10/2020 | | | | | <0.0005 | <0.0005 | |
| 11/11/2020 | | | | | | | <0.0005 |
| 12/15/2020 | | | | | <0.0005 | <0.0005 | |
| 12/16/2020 | | | | | | | <0.0005 |
| 1/19/2021 | | | | | <0.0005 | <0.0005 | |
| 1/20/2021 | | | | | | | <0.0005 |
| 3/10/2021 | <0.0005 | | | | | <0.0005 | |
| 3/11/2021 | | <0.0005 | 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 | | | | <0.0005 | <0.0005 |
| 2/1/2022 | <0.0005 | <0.0005 | 0.0002 (J) | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 8/2/2022 | <0.0005 | <0.0005 | 0.00019 (J) | <0.0005 | <0.0005 | <0.0005 | <0.0005 |

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|----------|----------|----------|
| 8/31/2016 | <0.0005 | <0.0005 | <0.0005 | | |
| 10/26/2016 | <0.0005 | | <0.0005 | | |
| 11/7/2016 | | <0.0005 | | | |
| 1/13/2017 | | <0.0005 | | | |
| 1/27/2017 | <0.0005 | | <0.0005 | | |
| 5/25/2017 | <0.0005 | | <0.0005 | | |
| 6/3/2017 | | <0.0005 | | | |
| 8/11/2017 | | | <0.0005 | | |
| 10/2/2017 | <0.0005 | <0.0005 | | | |
| 11/15/2017 | <0.0005 | <0.0005 | <0.0005 | | |
| 6/5/2018 | <0.0005 | <0.0005 | <0.0005 | | |
| 10/2/2018 | <0.0005 | | <0.0005 | | |
| 10/5/2018 | | <0.0005 | | | |
| 8/22/2019 | <0.0005 | <0.0005 | | | |
| 8/23/2019 | | | <0.0005 | | |
| 5/22/2020 | | | | <0.0005 | <0.0005 |
| 6/16/2020 | | | | <0.0005 | <0.0005 |
| 8/25/2020 | | | | <0.0005 | <0.0005 |
| 8/26/2020 | <0.0005 | <0.0005 | | | |
| 8/27/2020 | | | <0.0005 | | |
| 9/18/2020 | | | | | <0.0005 |
| 9/21/2020 | <0.0005 | | | <0.0005 | |
| 9/28/2020 | | <0.0005 | <0.0005 | | |
| 11/11/2020 | | | | | <0.0005 |
| 11/12/2020 | | | | <0.0005 | |
| 12/16/2020 | | | | <0.0005 | <0.0005 |
| 1/20/2021 | | | | <0.0005 | <0.0005 |
| 3/12/2021 | <0.0005 | | | <0.0005 | <0.0005 |
| 3/15/2021 | | <0.0005 | <0.0005 | | |
| 8/16/2021 | <0.0005 | <0.0005 | <0.0005 | | |
| 8/19/2021 | | | | <0.0005 | <0.0005 |
| 2/2/2022 | <0.0005 | <0.0005 | <0.0005 | | |
| 2/3/2022 | | | | <0.0005 | <0.0005 |
| 8/4/2022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |

Time Series

Constituent: Boron (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | 0.0214 (J) | | 0.0321 (J) | <0.04 | | | |
| 7/11/2016 | 0.0142 (J) | | 0.0337 (J) | | | | |
| 7/12/2016 | | | | 0.0074 (J) | | | |
| 8/30/2016 | 0.0074 (J) | 0.277 | 0.0173 (J) | <0.04 | | | |
| 10/19/2016 | 0.0224 (J) | | 0.0341 (J) | 0.0085 (J) | | | |
| 10/20/2016 | | 0.336 | | | | | |
| 12/6/2016 | 0.0211 (J) | | 0.0326 (J) | 0.0085 (J) | | | |
| 1/24/2017 | 0.0165 (J) | | 0.0365 (J) | 0.01 (J) | | | |
| 1/25/2017 | | 0.274 | | | | | |
| 3/21/2017 | 0.0187 (J) | | 0.0349 (J) | 0.0079 (J) | | | |
| 5/22/2017 | 0.0782 | | 0.0475 | 0.0131 (J) | | | |
| 5/25/2017 | | 0.298 | | | | | |
| 8/11/2017 | | 0.285 | | | | | |
| 10/3/2017 | 0.0198 (J) | | 0.0386 (J) | 0.0097 (J) | | | |
| 11/15/2017 | | 0.322 | | | | | |
| 6/4/2018 | 0.02 (J) | | 0.036 (J) | 0.017 (J) | | | |
| 6/5/2018 | | 0.24 | | | | | |
| 10/1/2018 | 0.013 (J) | | 0.035 (J) | 0.0061 (J) | | | |
| 10/2/2018 | | 0.28 | | | | | |
| 4/1/2019 | | | | 0.0066 (J) | | | |
| 4/2/2019 | 0.016 (J) | 0.18 | 0.034 (J) | | | | |
| 6/18/2019 | | 0.25 | | | | | |
| 9/23/2019 | 0.021 (J) | | 0.04 (J) | 0.0081 (J) | | | |
| 10/21/2019 | | 0.25 | | | | | |
| 3/24/2020 | | 0.1 | | | | | |
| 3/25/2020 | 0.025 (J) | | 0.039 (J) | 0.0096 (J) | | | |
| 6/16/2020 | 0.021 (J) | | | 0.01 (J) | | | |
| 9/15/2020 | 0.017 (J) | 0.22 | 0.044 (J) | 0.0071 (J) | | | |
| 9/16/2020 | | | | | 0.061 (J) | 0.23 | |
| 9/25/2020 | | | | | | | 0.16 |
| 11/10/2020 | | | | | 0.057 (J) | 0.29 | |
| 11/11/2020 | | | | | | | 0.17 |
| 12/15/2020 | | | | | 0.052 (J) | 0.31 | |
| 12/16/2020 | | | | | | | 0.16 |
| 1/19/2021 | | | | | 0.049 (J) | <0.04 | |
| 1/20/2021 | | | | | | | 0.19 |
| 3/10/2021 | 0.015 (J) | | | | | 0.39 | |
| 3/11/2021 | | 0.2 | 0.056 | 0.015 (J) | 0.06 | | |
| 3/12/2021 | | | | | | | 0.19 |
| 8/11/2021 | 0.02 (J) | | | | 0.042 | | |
| 8/12/2021 | | | 0.044 | <0.04 | | | |
| 8/13/2021 | | 0.19 | | | | 0.31 | 0.15 |
| 2/1/2022 | 0.016 (J) | 0.17 | 0.056 | 0.011 (J) | 0.05 | 0.44 | 0.14 |
| 8/2/2022 | 0.012 (J) | 0.18 | 0.047 | <0.04 | 0.043 | 0.31 | 0.14 |

Time Series

Constituent: Boron (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|----------|----------|-----------|
| 8/31/2016 | 0.981 | 3.23 | 0.494 | | |
| 10/26/2016 | 1.28 | | 0.55 | | |
| 11/7/2016 | | 2.95 | | | |
| 1/13/2017 | | 4.01 | | | |
| 1/27/2017 | 1.19 | | 0.428 | | |
| 5/25/2017 | 1.33 | | 0.544 | | |
| 6/3/2017 | | 2.62 | | | |
| 8/11/2017 | | | 0.524 | | |
| 10/2/2017 | 1.19 | 2.92 | | | |
| 11/15/2017 | 1.24 | 2.71 | 0.531 | | |
| 6/5/2018 | 1.2 | 2.6 | 0.53 | | |
| 10/2/2018 | 1.2 | | 0.47 | | |
| 10/5/2018 | | 2.9 | | | |
| 4/2/2019 | 1.1 | | | | |
| 4/3/2019 | | 3 | 0.45 | | |
| 6/17/2019 | 1.1 | 2.4 | | | |
| 6/18/2019 | | | 0.45 | | |
| 10/21/2019 | | 2.4 | 0.5 | | |
| 10/22/2019 | 1 | | | | |
| 3/24/2020 | | | 0.44 | | |
| 3/25/2020 | 1.1 | 1.6 | | | |
| 5/22/2020 | | | | 1.5 | 0.026 (J) |
| 6/15/2020 | 1.1 | | | | |
| 6/16/2020 | | | | 1.5 | 0.023 (J) |
| 8/25/2020 | | | | 1.4 | 0.016 (J) |
| 9/18/2020 | | | | | 0.041 (J) |
| 9/21/2020 | 0.93 | | | 1.4 | |
| 9/28/2020 | | 2.3 | 0.43 | | |
| 11/11/2020 | | | | | 0.009 (J) |
| 11/12/2020 | | | | 1.4 | |
| 12/16/2020 | | | | 1.5 | 0.011 (J) |
| 1/20/2021 | | | | 1.5 | <0.04 |
| 3/12/2021 | 1.1 | | | 1.5 | 0.016 (J) |
| 3/15/2021 | | 1.9 | 0.4 | | |
| 8/16/2021 | 1.1 | 2 | 0.44 | | |
| 8/19/2021 | | | | 1.5 | 0.011 (J) |
| 2/2/2022 | 0.91 | 1.6 | 0.33 | | |
| 2/3/2022 | | | | 1.6 | 0.016 (J) |
| 8/4/2022 | 1 | 1.8 | 0.36 | 1.4 | 0.023 (J) |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | <0.0005 | | <0.0005 | <0.0005 | | | |
| 7/11/2016 | <0.0005 | | <0.0005 | | | | |
| 7/12/2016 | | | | <0.0005 | | | |
| 8/30/2016 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | | | |
| 10/19/2016 | <0.0005 | | <0.0005 | <0.0005 | | | |
| 10/20/2016 | | <0.0005 | | | | | |
| 12/6/2016 | <0.0005 | | <0.0005 | <0.0005 | | | |
| 1/24/2017 | <0.0005 | | 0.0001 (J) | <0.0005 | | | |
| 1/25/2017 | | <0.0005 | | | | | |
| 3/21/2017 | <0.0005 | | 7E-05 (J) | <0.0005 | | | |
| 5/22/2017 | <0.0005 | | 0.0001 (J) | <0.0005 | | | |
| 5/25/2017 | | <0.0005 | | | | | |
| 8/11/2017 | | <0.0005 | | | | | |
| 11/15/2017 | | <0.0005 | | | | | |
| 4/2/2018 | <0.0005 | | <0.0005 | | | | |
| 4/3/2018 | | | | <0.0005 | | | |
| 6/4/2018 | <0.0005 | | 0.00014 (J) | <0.0005 | | | |
| 6/5/2018 | | <0.0005 | | | | | |
| 10/1/2018 | <0.0005 | | <0.0005 | <0.0005 | | | |
| 10/2/2018 | | <0.0005 | | | | | |
| 3/12/2019 | <0.0005 | | 0.00013 (J) | <0.0005 | | | |
| 4/1/2019 | | | | <0.0005 | | | |
| 4/2/2019 | <0.0005 | | 0.00015 (J) | | | | |
| 8/22/2019 | | <0.0005 | | | | | |
| 9/23/2019 | <0.0005 | | <0.0005 | <0.0005 | | | |
| 3/2/2020 | <0.0005 | | <0.0005 | <0.0005 | | | |
| 3/25/2020 | <0.0005 | | 0.00014 (J) | <0.0005 | | | |
| 8/24/2020 | | <0.0005 | | | | | |
| 8/25/2020 | | | <0.0005 | <0.0005 | | | |
| 8/28/2020 | <0.0005 | | | | | | |
| 9/15/2020 | <0.0005 | | 0.00012 (J) | <0.0005 | | | |
| 9/16/2020 | | | | | <0.0005 | <0.0005 | |
| 9/25/2020 | | | | | | | <0.0005 |
| 11/10/2020 | | | | | <0.0005 | <0.0005 | |
| 11/11/2020 | | | | | | | <0.0005 |
| 12/15/2020 | | | | | <0.0005 | <0.0005 | |
| 12/16/2020 | | | | | | | <0.0005 |
| 1/19/2021 | | | | | <0.0005 | <0.0005 | |
| 1/20/2021 | | | | | | | <0.0005 |
| 8/11/2021 | <0.0005 | | | | <0.0005 | | |
| 8/12/2021 | | | 0.00014 (J) | <0.0005 | | | |
| 8/13/2021 | | <0.0005 | | | | <0.0005 | <0.0005 |
| 2/1/2022 | <0.0005 | <0.0005 | 0.00017 (J) | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| 8/2/2022 | <0.0005 | <0.0005 | 0.00023 (J) | <0.0005 | <0.0005 | <0.0005 | <0.0005 |

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|----------|----------|----------|
| 8/31/2016 | <0.0005 | <0.0005 | <0.0005 | | |
| 10/26/2016 | <0.0005 | | <0.0005 | | |
| 11/7/2016 | | <0.0005 | | | |
| 1/13/2017 | | <0.0005 | | | |
| 1/27/2017 | <0.0005 | | <0.0005 | | |
| 5/25/2017 | <0.0005 | | <0.0005 | | |
| 6/3/2017 | | <0.0005 | | | |
| 8/11/2017 | | | <0.0005 | | |
| 10/2/2017 | <0.0005 | <0.0005 | | | |
| 11/15/2017 | <0.0005 | <0.0005 | <0.0005 | | |
| 6/5/2018 | <0.0005 | <0.0005 | <0.0005 | | |
| 10/2/2018 | <0.0005 | | <0.0005 | | |
| 10/5/2018 | | <0.0005 | | | |
| 8/22/2019 | <0.0005 | <0.0005 | | | |
| 8/23/2019 | | | <0.0005 | | |
| 5/22/2020 | | | | <0.0005 | <0.0005 |
| 6/16/2020 | | | | <0.0005 | <0.0005 |
| 8/25/2020 | | | | <0.0005 | <0.0005 |
| 8/26/2020 | <0.0005 | <0.0005 | | | |
| 8/27/2020 | | | <0.0005 | | |
| 9/18/2020 | | | | | <0.0005 |
| 9/21/2020 | | | | <0.0005 | |
| 11/11/2020 | | | | | <0.0005 |
| 11/12/2020 | | | | <0.0005 | |
| 12/16/2020 | | | | <0.0005 | <0.0005 |
| 1/20/2021 | | | | <0.0005 | <0.0005 |
| 8/16/2021 | <0.0005 | <0.0005 | <0.0005 | | |
| 8/19/2021 | | | | <0.0005 | <0.0005 |
| 2/2/2022 | <0.0005 | <0.0005 | <0.0005 | | |
| 2/3/2022 | | | | <0.0005 | <0.0005 |
| 8/4/2022 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | 138 | | 22.9 | 76.2 | | | |
| 7/11/2016 | 97.2 | | 22.3 | | | | |
| 7/12/2016 | | | | 61.5 | | | |
| 8/30/2016 | 97.5 | 71.3 | 26.4 | 65.1 | | | |
| 10/19/2016 | 99.2 | | 21.7 | 73.2 | | | |
| 10/20/2016 | | 90.3 | | | | | |
| 12/6/2016 | 105 | | 18.2 | 74.9 | | | |
| 1/24/2017 | 95.7 | | 18.5 | 69.6 | | | |
| 1/25/2017 | | 77.3 | | | | | |
| 3/21/2017 | 106 | | 18.6 | 75.7 | | | |
| 5/22/2017 | 107 | | 17.8 | 71.5 | | | |
| 5/25/2017 | | 69.9 | | | | | |
| 8/11/2017 | | 79.5 | | | | | |
| 10/3/2017 | 102 | | 20.2 | 76.3 | | | |
| 11/15/2017 | | 72.8 | | | | | |
| 6/4/2018 | 124 | | 19.1 | 73.4 | | | |
| 6/5/2018 | | 71.4 | | | | | |
| 10/1/2018 | 108 | | 20.5 (J) | 80.9 | | | |
| 10/2/2018 | | 66.6 | | | | | |
| 4/1/2019 | | | | 80.5 | | | |
| 4/2/2019 | 132 | 60.9 | 22.5 (J) | | | | |
| 6/18/2019 | | 75 | | | | | |
| 9/23/2019 | 118 | | 19.5 | 71 | | | |
| 10/21/2019 | | 80.8 | | | | | |
| 3/24/2020 | | 81.2 | | | | | |
| 3/25/2020 | 127 | | 23 | 89.8 | | | |
| 6/16/2020 | 130 | | | 85.1 | | | |
| 9/15/2020 | 103 | 75.8 | 21.1 | 73.1 | | | |
| 9/16/2020 | | | | | 56 | 30 | |
| 9/25/2020 | | | | | | | 56.8 |
| 11/10/2020 | | | | 63.3 | 33.6 | | |
| 11/11/2020 | | | | | | | 54.9 |
| 12/15/2020 | | | | 62.6 | 28.7 | | |
| 12/16/2020 | | | | | | | 56.4 |
| 1/19/2021 | | | | 60.1 | 33 | | |
| 1/20/2021 | | | | | | | 55 |
| 3/10/2021 | 111 | | | | | 18.3 | |
| 3/11/2021 | | 60.4 (M1) | 43.8 | 83.8 | 59.6 | | |
| 3/12/2021 | | | | | | | 56.5 |
| 8/11/2021 | 113 | | | | 61 | | |
| 8/12/2021 | | | 21.9 | 84 | | | |
| 8/13/2021 | | 62.9 | | | | 28.9 | 53 |
| 2/1/2022 | 106 | 57.5 | 27.2 | 85.1 | 55.9 | 24.8 | 51.3 |
| 8/2/2022 | 117 | 69.5 | 31.2 | 84.6 | 54.1 | 20.9 | 49.9 |

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|----------|----------|----------|
| 8/31/2016 | 152 | 178 | 90.4 | | |
| 10/26/2016 | 156 | | 94.5 | | |
| 11/7/2016 | | 170 | | | |
| 1/13/2017 | | 192 | | | |
| 1/27/2017 | 157 | | 84.2 | | |
| 5/25/2017 | 173 | | 100 | | |
| 6/3/2017 | | 172 | | | |
| 8/11/2017 | | | 99.1 | | |
| 10/2/2017 | 168 | 195 | | | |
| 11/15/2017 | 182 | 184 | 103 | | |
| 6/5/2018 | 161 | 195 | 103 | | |
| 10/2/2018 | 174 | | 100 | | |
| 10/5/2018 | | 181 | | | |
| 4/2/2019 | 150 | | | | |
| 4/3/2019 | | 184 | 96.7 | | |
| 6/17/2019 | 164 | 173 | | | |
| 6/18/2019 | | | 97.1 | | |
| 10/21/2019 | | 173 | 96.9 | | |
| 10/22/2019 | 171 | | | | |
| 3/24/2020 | | | 104 | | |
| 3/25/2020 | 170 | 139 | | | |
| 5/22/2020 | | | | 140 | 112 |
| 6/15/2020 | 175 | | | | |
| 6/16/2020 | | | | 178 | 131 |
| 8/25/2020 | | | | 186 | 130 |
| 9/18/2020 | | | | | 119 |
| 9/21/2020 | 152 | | | 155 | |
| 9/28/2020 | | 167 | 107 | | |
| 11/11/2020 | | | | | 133 |
| 11/12/2020 | | | | 165 | |
| 12/16/2020 | | | | 194 | 132 |
| 1/20/2021 | | | | 177 (M1) | 131 |
| 3/12/2021 | 174 | | | 165 | 138 |
| 3/15/2021 | | 167 | 103 | | |
| 8/16/2021 | 171 | 162 | 106 | | |
| 8/19/2021 | | | | 196 | 139 |
| 2/2/2022 | 159 | 148 | 95.9 | | |
| 2/3/2022 | | | | 175 | 157 |
| 8/4/2022 | 173 | 160 | 103 | 170 | 141 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | 9.94 | | 6.14 | 5.93 | | | |
| 7/11/2016 | 6.3 | | 5.9 | | | | |
| 7/12/2016 | | | | 6.2 | | | |
| 8/30/2016 | 6 | 2.8 | 6.2 | 6.4 | | | |
| 10/19/2016 | 5.8 | | 6.1 | 6.5 | | | |
| 10/20/2016 | | 2.8 | | | | | |
| 12/6/2016 | 5.4 | | 6 | 7.2 | | | |
| 1/24/2017 | 5.2 | | 6.1 | 6.4 | | | |
| 1/25/2017 | | 2.8 | | | | | |
| 3/21/2017 | 4.6 | | 5.9 | 7.5 | | | |
| 5/22/2017 | 4.6 | | 5.9 | 6.5 | | | |
| 5/25/2017 | | 2.9 | | | | | |
| 8/11/2017 | | 3 | | | | | |
| 10/3/2017 | 5.6 | | 6.3 | 6.5 | | | |
| 11/15/2017 | | 3.1 | | | | | |
| 6/4/2018 | 13.1 | | 6.1 | 6.3 | | | |
| 6/5/2018 | | 3 | | | | | |
| 10/1/2018 | 6.6 | | 6.4 | 6.4 | | | |
| 10/2/2018 | | 3.1 | | | | | |
| 4/1/2019 | | | | 6.5 | | | |
| 4/2/2019 | 20.3 | 3.6 | 5.8 | | | | |
| 6/18/2019 | | 3.2 | | | | | |
| 9/23/2019 | 17.7 | | 5.1 | 5.9 | | | |
| 10/21/2019 | | 4.5 | | | | | |
| 3/24/2020 | | 4.5 | | | | | |
| 3/25/2020 | 20.4 | | 5.2 | 6.1 | | | |
| 6/16/2020 | 41.1 | | | 5.8 | | | |
| 9/15/2020 | 13.4 | 3.6 | 5 | 6 | | | |
| 9/16/2020 | | | | | 4.1 | 4.1 | |
| 9/25/2020 | | | | | | | 3.6 |
| 11/10/2020 | | | | 4.4 | 7.8 | | |
| 11/11/2020 | | | | | | | 3.3 |
| 12/15/2020 | | | | 4.7 | 9.4 | | |
| 12/16/2020 | | | | | | | 3.4 |
| 1/19/2021 | | | | 4.1 | 9.5 | | |
| 1/20/2021 | | | | | | | 3.5 |
| 3/10/2021 | 7.4 | | | | | 12.3 | |
| 3/11/2021 | | 2.3 | 5.1 | 5.9 | 4.5 | | |
| 3/12/2021 | | | | | | | 3.3 |
| 8/11/2021 | 9.6 | | | | 3.5 | | |
| 8/12/2021 | | | 5.2 | 4.8 | | | |
| 8/13/2021 | | 2.6 | | | | 39.9 | 3.3 |
| 2/1/2022 | 7.5 | 2.2 | 7 | 5.7 | 4.1 | 44.8 | 3.5 |
| 8/2/2022 | 14.1 | 2.7 | 7.8 | 5.9 | 4.3 | 19.8 | 3.9 |

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|----------|----------|----------|
| 8/31/2016 | 3.5 | 64 | 3 | | |
| 10/26/2016 | 3.6 | | 3.6 | | |
| 11/7/2016 | | 65 | | | |
| 1/13/2017 | | 50 | | | |
| 1/27/2017 | 3.3 | | 4 | | |
| 5/25/2017 | 3.4 | | 3.5 | | |
| 6/3/2017 | | 43 | | | |
| 8/11/2017 | | | 2.9 | | |
| 10/2/2017 | 4.2 | 42 | | | |
| 11/15/2017 | 2.9 | 46 | 3.1 | | |
| 6/5/2018 | 3.1 | 40.4 | 3.1 | | |
| 10/2/2018 | 3.2 | | 3.4 | | |
| 10/5/2018 | | 39 | | | |
| 4/2/2019 | 3.1 | | | | |
| 4/3/2019 | | 35.9 | 3.4 | | |
| 6/17/2019 | | 32.9 | | | |
| 6/18/2019 | | | 2.3 (J) | | |
| 10/21/2019 | | 29.9 | 3.6 | | |
| 10/22/2019 | 3.4 | | | | |
| 3/24/2020 | | | 2.7 | | |
| 3/25/2020 | 2.4 | 16.3 | | | |
| 5/22/2020 | | | | 12.9 | 8.6 |
| 6/15/2020 | 2.3 | | | | |
| 6/16/2020 | | | | 10.4 | 8.6 |
| 8/25/2020 | | | | 10.6 | 8.7 |
| 9/18/2020 | | | | | 8.4 |
| 9/21/2020 | 2.4 | | | 12.1 | |
| 9/28/2020 | | 23.2 | 2.5 | | |
| 11/11/2020 | | | | | 8.3 |
| 11/12/2020 | | | | 10.4 | |
| 12/16/2020 | | | | 5.3 | 8.9 |
| 1/20/2021 | | | | 10.2 | 8.5 |
| 3/12/2021 | 2.4 | | | 10.8 | 8.5 |
| 3/15/2021 | | 21.8 | 2.9 | | |
| 8/16/2021 | 2.4 | 18 | 2.6 | | |
| 8/19/2021 | | | | 4.5 | 7.8 |
| 2/2/2022 | 2.5 | 16.8 | 2.6 | | |
| 2/3/2022 | | | | 8.1 | 8.5 |
| 8/4/2022 | 2.7 | 15.4 | 2.6 | 11.6 | 8.7 |

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|-------------|------------|-------------|-------------|-------------|
| 8/31/2016 | <0.005 | <0.005 | <0.005 | | |
| 10/26/2016 | <0.005 | | <0.005 | | |
| 11/7/2016 | | <0.005 | | | |
| 1/13/2017 | | <0.005 | | | |
| 1/27/2017 | <0.005 | | <0.005 | | |
| 5/25/2017 | <0.005 | | <0.005 | | |
| 6/3/2017 | | <0.005 | | | |
| 8/11/2017 | | | <0.005 | | |
| 10/2/2017 | <0.005 | <0.005 | | | |
| 11/15/2017 | <0.005 | <0.005 | <0.005 | | |
| 6/5/2018 | <0.005 | <0.005 | <0.005 | | |
| 10/2/2018 | <0.005 | | <0.005 | | |
| 10/5/2018 | | <0.005 | | | |
| 8/22/2019 | 0.00072 (J) | <0.005 | | | |
| 8/23/2019 | | | <0.005 | | |
| 10/21/2019 | | <0.005 | 0.00046 (J) | | |
| 10/22/2019 | <0.005 | | | | |
| 3/24/2020 | | | 0.00051 (J) | | |
| 3/25/2020 | 0.0015 (J) | 0.0005 (J) | | | |
| 5/22/2020 | | | | 0.00058 (J) | <0.005 |
| 6/16/2020 | | | | 0.00052 (J) | <0.005 |
| 8/25/2020 | | | | <0.005 | 0.00096 (J) |
| 8/26/2020 | <0.005 | <0.005 | | | |
| 8/27/2020 | | | <0.005 | | |
| 9/18/2020 | | | | | <0.005 |
| 9/21/2020 | 0.00065 (J) | | | <0.005 | |
| 9/28/2020 | | <0.005 | <0.005 | | |
| 11/11/2020 | | | | | <0.005 |
| 11/12/2020 | | | | <0.005 | |
| 12/16/2020 | | | | <0.005 | <0.005 |
| 1/20/2021 | | | | 0.00081 (J) | <0.005 |
| 3/12/2021 | <0.005 | | | <0.005 | <0.005 |
| 3/15/2021 | | <0.005 | <0.005 | | |
| 8/16/2021 | <0.005 | <0.005 | <0.005 | | |
| 8/19/2021 | | | | <0.005 | <0.005 |
| 2/2/2022 | <0.005 | <0.005 | <0.005 | | |
| 2/3/2022 | | | | <0.005 | <0.005 |
| 8/4/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | <0.005 | | 0.0293 | <0.005 | | | |
| 7/11/2016 | 0.0004 (J) | | 0.0267 | | | | |
| 7/12/2016 | | | | <0.005 | | | |
| 8/30/2016 | <0.005 | <0.005 | 0.028 | <0.005 | | | |
| 10/19/2016 | <0.005 | | 0.0201 | <0.005 | | | |
| 10/20/2016 | | <0.005 | | | | | |
| 12/6/2016 | <0.005 | | 0.0184 | <0.005 | | | |
| 1/24/2017 | <0.005 | | 0.0206 | <0.005 | | | |
| 1/25/2017 | | <0.005 | | | | | |
| 3/21/2017 | <0.005 | | 0.0251 | <0.005 | | | |
| 5/22/2017 | <0.005 | | 0.0263 | <0.005 | | | |
| 5/25/2017 | | <0.005 | | | | | |
| 8/11/2017 | | <0.005 | | | | | |
| 11/15/2017 | | <0.005 | | | | | |
| 4/2/2018 | <0.005 | | 0.019 | | | | |
| 4/3/2018 | | | | <0.005 | | | |
| 6/4/2018 | <0.005 | | 0.025 | <0.005 | | | |
| 6/5/2018 | | <0.005 | | | | | |
| 10/1/2018 | <0.005 | | 0.026 | <0.005 | | | |
| 10/2/2018 | | <0.005 | | | | | |
| 3/12/2019 | <0.005 | | 0.017 | <0.005 | | | |
| 4/1/2019 | | | | <0.005 | | | |
| 4/2/2019 | <0.005 | | 0.019 | | | | |
| 8/22/2019 | | <0.005 | | | | | |
| 9/23/2019 | <0.005 | | 0.038 | <0.005 | | | |
| 10/21/2019 | | <0.005 | | | | | |
| 3/2/2020 | <0.005 | | 0.019 | <0.005 | | | |
| 3/24/2020 | | <0.005 | | | | | |
| 3/25/2020 | <0.005 | | 0.02 | <0.005 | | | |
| 8/24/2020 | | <0.005 | | | | | |
| 8/25/2020 | | | 0.018 | <0.005 | | | |
| 8/28/2020 | <0.005 | | | | | | |
| 9/15/2020 | <0.005 | <0.005 | 0.021 | <0.005 | | | |
| 9/16/2020 | | | | | <0.005 | <0.005 | |
| 9/25/2020 | | | | | | | <0.005 |
| 11/10/2020 | | | | | <0.005 | <0.005 | |
| 11/11/2020 | | | | | | | <0.005 |
| 12/15/2020 | | | | | <0.005 | <0.005 | |
| 12/16/2020 | | | | | | | <0.005 |
| 1/19/2021 | | | | | <0.005 | <0.005 | |
| 1/20/2021 | | | | | | | <0.005 |
| 3/10/2021 | <0.005 | | | | | <0.005 | |
| 3/11/2021 | | <0.005 | 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 | | | | <0.005 | <0.005 |
| 2/1/2022 | <0.005 | <0.005 | 0.025 | <0.005 | <0.005 | <0.005 | <0.005 |
| 8/2/2022 | 0.00054 (J) | <0.005 | 0.024 | <0.005 | <0.005 | <0.005 | <0.005 |

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|------------|------------|----------|----------|----------|
| 8/31/2016 | 0.0052 (J) | <0.005 | <0.005 | | |
| 10/26/2016 | 0.0041 (J) | | <0.005 | | |
| 11/7/2016 | | <0.005 | | | |
| 1/13/2017 | | <0.005 | | | |
| 1/27/2017 | 0.0034 (J) | | <0.005 | | |
| 5/25/2017 | 0.0035 (J) | | <0.005 | | |
| 6/3/2017 | | 0.0005 (J) | | | |
| 8/11/2017 | | | <0.005 | | |
| 10/2/2017 | 0.0036 (J) | 0.0003 (J) | | | |
| 11/15/2017 | 0.0032 (J) | 0.0003 (J) | <0.005 | | |
| 6/5/2018 | 0.0031 (J) | <0.005 | <0.005 | | |
| 10/2/2018 | 0.0025 (J) | | <0.005 | | |
| 10/5/2018 | | <0.005 | | | |
| 8/22/2019 | 0.0028 (J) | <0.005 | | | |
| 8/23/2019 | | | <0.005 | | |
| 10/21/2019 | | <0.005 | <0.005 | | |
| 10/22/2019 | 0.0031 (J) | | | | |
| 3/24/2020 | | | <0.005 | | |
| 3/25/2020 | 0.0036 (J) | <0.005 | | | |
| 5/22/2020 | | | | 0.01 | <0.005 |
| 6/16/2020 | | | | 0.0096 | <0.005 |
| 8/25/2020 | | | | 0.0087 | <0.005 |
| 8/26/2020 | 0.0023 (J) | <0.005 | | | |
| 8/27/2020 | | | <0.005 | | |
| 9/18/2020 | | | | | <0.005 |
| 9/21/2020 | 0.0041 (J) | | | 0.012 | |
| 9/28/2020 | | <0.005 | <0.005 | | |
| 11/11/2020 | | | | | <0.005 |
| 11/12/2020 | | | | 0.012 | |
| 12/16/2020 | | | | 0.0055 | <0.005 |
| 1/20/2021 | | | | 0.012 | <0.005 |
| 3/12/2021 | 0.0027 (J) | | | 0.014 | <0.005 |
| 3/15/2021 | | <0.005 | <0.005 | | |
| 8/16/2021 | 0.0037 (J) | <0.005 | <0.005 | | |
| 8/19/2021 | | | | 0.0054 | <0.005 |
| 2/2/2022 | 0.0072 | <0.005 | <0.005 | | |
| 2/3/2022 | | | | 0.0086 | <0.005 |
| 8/4/2022 | 0.0058 | <0.005 | <0.005 | 0.014 | <0.005 |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | 0.397 (U) | | 0.627 (U) | 0.342 (U) | | | |
| 7/11/2016 | 0.738 (U) | | 1.38 | | | | |
| 7/12/2016 | | | | 0.499 (U) | | | |
| 8/30/2016 | 0.581 (U) | 0.972 (U) | 1.05 (U) | 0.976 (U) | | | |
| 10/19/2016 | 0.213 (U) | | 1.11 (U) | 0.626 (U) | | | |
| 10/20/2016 | | 0.496 (U) | | | | | |
| 12/6/2016 | 0.444 (U) | | 0.741 (U) | 0.805 (U) | | | |
| 1/24/2017 | 0.373 (U) | | 0.908 (U) | 0.336 (U) | | | |
| 1/25/2017 | | 1.13 (U) | | | | | |
| 3/21/2017 | 0.816 (U) | | 0.567 (U) | 0.358 (U) | | | |
| 5/22/2017 | 0.554 (U) | | 0.638 (U) | 0.744 (U) | | | |
| 5/25/2017 | | 0.192 (U) | | | | | |
| 8/11/2017 | | 0.908 (U) | | | | | |
| 11/15/2017 | | 0.662 (U) | | | | | |
| 4/2/2018 | 0.405 (U) | | 0.761 (U) | | | | |
| 4/3/2018 | | | | 0.684 (U) | | | |
| 6/4/2018 | 1.13 (U) | | 0.975 (U) | 0.0291 (U) | | | |
| 6/5/2018 | | 0.593 (U) | | | | | |
| 10/1/2018 | 0.132 (U) | | 0.434 (U) | 0.781 (U) | | | |
| 10/2/2018 | | 1.37 | | | | | |
| 3/12/2019 | 0.327 (U) | | 0.454 (U) | 1.01 (U) | | | |
| 4/1/2019 | | | | 0.76 (U) | | | |
| 4/2/2019 | 0.739 (U) | | 0.651 (U) | | | | |
| 8/22/2019 | | 1.19 (U) | | | | | |
| 9/30/2019 | 0.306 (U) | | 1.04 (U) | 0.384 (U) | | | |
| 10/21/2019 | | 0.772 (U) | | | | | |
| 3/2/2020 | 0.61 (U) | | 1.58 | 0.249 (U) | | | |
| 3/24/2020 | | 0.379 (U) | | | | | |
| 3/25/2020 | 4.36 | | 0.621 (U) | 0.833 (U) | | | |
| 8/24/2020 | | 0.883 (U) | | | | | |
| 8/25/2020 | | | 0.778 (U) | 0.33 (U) | | | |
| 8/28/2020 | 0 (U) | | | | | | |
| 9/15/2020 | 0.748 (U) | 0.375 (U) | 0.124 (U) | 0.161 (U) | | | |
| 9/16/2020 | | | | | 0.531 (U) | 0.422 (U) | |
| 9/25/2020 | | | | | | | 1.07 (U) |
| 11/10/2020 | | | | | 0.788 (U) | 0.293 (U) | |
| 11/11/2020 | | | | | | | 0.49 (U) |
| 12/15/2020 | | | | | 1.04 (U) | 0.7 (U) | |
| 12/16/2020 | | | | | | | 0.963 (U) |
| 1/19/2021 | | | | | 0.685 (U) | 0.79 (U) | |
| 1/20/2021 | | | | | | | 0.682 (U) |
| 8/11/2021 | 0.115 (U) | | | | 0.394 (U) | | |
| 8/12/2021 | | | 0.746 (U) | 0.498 (U) | | | |
| 8/13/2021 | | 0.914 (U) | | | | 0.959 (U) | 1.2 |
| 2/1/2022 | 0.143 (U) | 0.276 (U) | 0.588 (U) | 0.266 (U) | 1.12 | 0.665 (U) | 0.895 |
| 8/2/2022 | 0.203 (U) | 0.573 (U) | 0.861 (U) | 0.4 (U) | 0.662 (U) | 0.952 (U) | 0.509 (U) |

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|-----------|-----------|-----------|-----------|-----------|
| 8/31/2016 | 1.47 | 1.57 | 1.22 | | |
| 10/26/2016 | 0.864 (U) | | 0.637 (U) | | |
| 11/7/2016 | | 0.739 (U) | | | |
| 1/13/2017 | | 0.744 (U) | | | |
| 1/27/2017 | 0.521 (U) | | 0.795 (U) | | |
| 5/25/2017 | 0.681 (U) | | 0.896 (U) | | |
| 6/3/2017 | | 0 (U) | | | |
| 8/11/2017 | | | 0.828 (U) | | |
| 10/2/2017 | 0.632 (U) | 0.68 (U) | | | |
| 11/15/2017 | 1.3 | 0.911 (U) | 0.478 (U) | | |
| 6/5/2018 | 1.26 (U) | 0.948 (U) | 0.947 (U) | | |
| 10/2/2018 | 0.572 (U) | | 0.617 (U) | | |
| 10/5/2018 | | 1.17 (U) | | | |
| 8/22/2019 | 1.35 | 1.3 | | | |
| 8/23/2019 | | | 0.834 | | |
| 10/21/2019 | | 0.393 (U) | 1.11 (U) | | |
| 10/22/2019 | 0.76 (U) | | | | |
| 3/24/2020 | | | 0.796 (U) | | |
| 3/25/2020 | 0.696 (U) | 0.505 (U) | | | |
| 5/22/2020 | | | | 1.1 (U) | 1.82 |
| 6/16/2020 | | | | 1.62 | 1.82 |
| 8/25/2020 | | | | 1.65 | 1.82 |
| 8/26/2020 | 0.357 (U) | 1.96 | | | |
| 8/27/2020 | | | 0.494 (U) | | |
| 9/18/2020 | | | | | 0.841 (U) |
| 9/21/2020 | 0.553 (U) | | | 1.45 | |
| 9/28/2020 | | 0.761 (U) | 0.477 (U) | | |
| 11/11/2020 | | | | | 0.837 (U) |
| 11/12/2020 | | | | 0.633 (U) | |
| 12/16/2020 | | | | 0.818 (U) | 1.26 (U) |
| 1/20/2021 | | | | 1.01 (U) | 0.985 (U) |
| 8/16/2021 | 1.25 | 0.192 (U) | 0.734 (U) | | |
| 8/19/2021 | | | | 0.721 (U) | 1.11 |
| 2/2/2022 | 0.816 (U) | 0.254 (U) | 0.564 (U) | | |
| 2/3/2022 | | | | 0.257 (U) | 1.51 |
| 8/4/2022 | 0.687 (U) | 1.16 (U) | 0.16 (U) | 0.971 (U) | 1.34 (U) |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | 0.105 (J) | | 0.0303 (J) | 0.0513 (J) | | | |
| 7/11/2016 | 0.16 (J) | | 0.05 (J) | | | | |
| 7/12/2016 | | | | 0.12 (J) | | | |
| 8/30/2016 | 0.09 (J) | 0.19 (J) | 0.06 (J) | 0.09 (J) | | | |
| 10/19/2016 | 0.1 (J) | | 0.04 (J) | 0.1 (J) | | | |
| 10/20/2016 | | 0.13 (J) | | | | | |
| 12/6/2016 | 0.11 (J) | | 0.36 | 0.21 (J) | | | |
| 1/24/2017 | 0.09 (J) | | <0.1 | 0.06 (J) | | | |
| 1/25/2017 | | 0.22 (J) | | | | | |
| 3/21/2017 | 0.13 (J) | | <0.1 | 0.005 (J) | | | |
| 5/22/2017 | 0.12 (J) | | <0.1 | 0.05 (J) | | | |
| 5/25/2017 | | 0.12 (J) | | | | | |
| 8/11/2017 | | 0.12 (J) | | | | | |
| 10/3/2017 | 0.13 (J) | | <0.1 | 0.13 (J) | | | |
| 11/15/2017 | | 0.05 (J) | | | | | |
| 4/2/2018 | <0.1 | | <0.1 | | | | |
| 4/3/2018 | | | | <0.1 | | | |
| 6/4/2018 | 0.074 (J) | | <0.1 | <0.1 | | | |
| 6/5/2018 | | 0.15 (J) | | | | | |
| 10/1/2018 | <0.1 | | <0.1 | <0.1 | | | |
| 10/2/2018 | | 0.22 (J) | | | | | |
| 3/12/2019 | 0.29 (J) | | 0.038 (J) | 0.072 (J) | | | |
| 4/1/2019 | | | | 0.029 (J) | | | |
| 4/2/2019 | 0.1 (J) | 0.2 (J) | 0.071 (J) | | | | |
| 6/18/2019 | | 0.14 (J) | | | | | |
| 8/22/2019 | | 0.12 (J) | | | | | |
| 9/23/2019 | 0.078 (J) | | <0.1 | <0.1 | | | |
| 10/21/2019 | | 0.15 (J) | | | | | |
| 3/2/2020 | 0.076 (J) | | <0.1 | <0.1 | | | |
| 3/24/2020 | | 0.085 (J) | | | | | |
| 3/25/2020 | 0.098 (J) | | <0.1 | <0.1 | | | |
| 6/16/2020 | 0.071 (J) | | | <0.1 | | | |
| 8/24/2020 | | 0.075 (J) | | | | | |
| 8/25/2020 | | | <0.1 | <0.1 | | | |
| 8/28/2020 | 0.08 (J) | | | | | | |
| 9/15/2020 | 0.082 (J) | 0.096 (J) | <0.1 | <0.1 | | | |
| 9/16/2020 | | | | | 0.22 | 0.22 | |
| 9/25/2020 | | | | | | | 0.21 |
| 11/10/2020 | | | | 0.19 | 0.59 | | |
| 11/11/2020 | | | | | | | 0.19 |
| 12/15/2020 | | | | 0.21 | 0.67 | | |
| 12/16/2020 | | | | | | | 0.18 |
| 1/19/2021 | | | | 0.16 | 0.74 | | |
| 1/20/2021 | | | | | | | 0.22 |
| 3/10/2021 | 0.079 (J) | | | | | 0.65 | |
| 3/11/2021 | | 0.059 (J) | 0.1 | <0.1 | 0.2 | | |
| 3/12/2021 | | | | | | | 0.2 |
| 8/11/2021 | 0.058 (J) | | | | 0.15 | | |
| 8/12/2021 | | | <0.1 | <0.1 | | | |
| 8/13/2021 | | 0.065 (J) | | | | 0.87 | 0.2 |
| 2/1/2022 | 0.064 (J) | 0.062 (J) | <0.1 | <0.1 | 0.19 | 0.96 | 0.15 |
| 8/2/2022 | 0.09 (J) | 0.1 | 0.053 (J) | 0.067 (J) | 0.22 | 0.8 | 0.21 |

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|-----------|----------|----------|
| 8/31/2016 | 0.65 | 0.14 (J) | 0.15 (J) | | |
| 10/26/2016 | 0.6 | | 0.3 | | |
| 11/7/2016 | | 0.18 (J) | | | |
| 1/13/2017 | | 0.14 (J) | | | |
| 1/27/2017 | 1.2 | | 0.3 | | |
| 5/25/2017 | 1.4 | | 0.05 (J) | | |
| 6/3/2017 | | 0.15 (J) | | | |
| 8/11/2017 | | | 0.1 (J) | | |
| 10/2/2017 | 1 | 1.2 | | | |
| 11/15/2017 | 1.3 | 0.6 | <0.1 | | |
| 6/5/2018 | 0.48 | 0.19 (J) | 0.078 (J) | | |
| 10/2/2018 | 0.34 | | 0.078 (J) | | |
| 10/5/2018 | | 0.23 (J) | | | |
| 4/2/2019 | 0.47 | | | | |
| 4/3/2019 | | 0.14 (J) | 0.089 (J) | | |
| 6/17/2019 | 1.2 | | | | |
| 8/22/2019 | 0.3 (J) | 0.2 (J) | | | |
| 8/23/2019 | | | 0.11 (J) | | |
| 10/21/2019 | | 0.18 (J) | 0.073 (J) | | |
| 10/22/2019 | 0.53 | | | | |
| 3/24/2020 | | | <0.1 | | |
| 3/25/2020 | 0.43 | 0.095 (J) | | | |
| 5/22/2020 | | | | 0.1 (J) | 0.46 |
| 6/15/2020 | 0.37 | | | | |
| 6/16/2020 | | | | 0.12 | 0.44 |
| 8/25/2020 | | | | 0.16 | 0.52 |
| 8/26/2020 | 0.48 | 0.16 | | | |
| 8/27/2020 | | | <0.1 | | |
| 9/18/2020 | | | | | 0.43 |
| 9/21/2020 | 0.33 | | | 0.11 | |
| 9/28/2020 | | 0.15 | <0.1 | | |
| 11/11/2020 | | | | | 0.45 |
| 11/12/2020 | | | | 0.12 | |
| 12/16/2020 | | | | 0.2 | 0.49 |
| 1/20/2021 | | | | 0.13 | 0.44 |
| 3/12/2021 | 0.42 | | | 0.12 | 0.46 |
| 3/15/2021 | | 0.16 | <0.1 | | |
| 8/16/2021 | 0.39 | 0.15 | <0.1 | | |
| 8/19/2021 | | | | 0.17 | 0.43 |
| 2/2/2022 | 0.36 | 0.15 | <0.1 | | |
| 2/3/2022 | | | | 0.18 | 0.51 |
| 8/4/2022 | 0.38 | 0.18 | 0.074 (J) | 0.15 | 0.5 |

Time Series

Constituent: Lead (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|------------|-------------|-------------|-------------|-------------|
| 8/31/2016 | <0.001 | <0.001 | <0.001 | | |
| 10/26/2016 | 0.0002 (J) | | <0.001 | | |
| 11/7/2016 | | <0.001 | | | |
| 1/13/2017 | | <0.001 | | | |
| 1/27/2017 | <0.001 | | <0.001 | | |
| 5/25/2017 | 9E-05 (J) | | <0.001 | | |
| 6/3/2017 | | 7E-05 (J) | | | |
| 8/11/2017 | | | 8E-05 (J) | | |
| 10/2/2017 | 8E-05 (J) | <0.001 | | | |
| 11/15/2017 | <0.001 | <0.001 | <0.001 | | |
| 6/5/2018 | <0.001 | 0.00036 (J) | <0.001 | | |
| 10/2/2018 | <0.001 | | <0.001 | | |
| 10/5/2018 | | <0.001 | | | |
| 8/22/2019 | <0.001 | <0.001 | | | |
| 8/23/2019 | | | 4.9E-05 (J) | | |
| 10/21/2019 | | <0.001 | 4.9E-05 (J) | | |
| 10/22/2019 | <0.001 | | | | |
| 3/24/2020 | | | 9.4E-05 (J) | | |
| 3/25/2020 | <0.001 | <0.001 | | | |
| 5/22/2020 | | | | 0.00014 (J) | <0.001 |
| 6/16/2020 | | | | 0.00013 (J) | <0.001 |
| 8/25/2020 | | | | <0.001 | 4.5E-05 (J) |
| 8/26/2020 | <0.001 | <0.001 | | | |
| 8/27/2020 | | | <0.001 | | |
| 9/18/2020 | | | | | <0.001 |
| 9/21/2020 | <0.001 | | | <0.001 | |
| 9/28/2020 | | <0.001 | 7.5E-05 (J) | | |
| 11/11/2020 | | | | | 4.2E-05 (J) |
| 11/12/2020 | | | | 4.7E-05 (J) | |
| 12/16/2020 | | | | <0.001 | <0.001 |
| 1/20/2021 | | | | 9.2E-05 (J) | <0.001 |
| 3/12/2021 | <0.001 | | | 4.4E-05 (J) | 4.6E-05 (J) |
| 3/15/2021 | | 0.00015 (J) | <0.001 | | |
| 8/16/2021 | <0.001 | <0.001 | <0.001 | | |
| 8/19/2021 | | | | <0.001 | <0.001 |
| 2/2/2022 | <0.001 | <0.001 | <0.001 | | |
| 2/3/2022 | | | | <0.001 | <0.001 |
| 8/4/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | <0.03 | | <0.03 | <0.03 | | | |
| 7/11/2016 | <0.03 | | 0.0014 (J) | | | | |
| 7/12/2016 | | | | 0.0024 (J) | | | |
| 8/30/2016 | <0.03 | <0.03 | <0.03 | 0.0025 (J) | | | |
| 10/19/2016 | <0.03 | | <0.03 | 0.003 (J) | | | |
| 10/20/2016 | | <0.03 | | | | | |
| 12/6/2016 | <0.03 | | <0.03 | 0.0033 (J) | | | |
| 1/24/2017 | <0.03 | | <0.03 | 0.003 (J) | | | |
| 1/25/2017 | | <0.03 | | | | | |
| 3/21/2017 | <0.03 | | 0.0012 (J) | 0.0034 (J) | | | |
| 5/22/2017 | <0.03 | | <0.03 | 0.003 (J) | | | |
| 5/25/2017 | | <0.03 | | | | | |
| 8/11/2017 | | <0.03 | | | | | |
| 11/15/2017 | | <0.03 | | | | | |
| 4/2/2018 | <0.03 | | 0.0015 (J) | | | | |
| 4/3/2018 | | | | 0.003 (J) | | | |
| 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) | | | |
| 4/1/2019 | | | | 0.0032 (J) | | | |
| 4/2/2019 | 0.001 (J) | | 0.0018 (J) | | | | |
| 8/22/2019 | | <0.03 | | | | | |
| 9/23/2019 | 0.0011 (J) | | 0.0016 (J) | 0.0029 (J) | | | |
| 10/21/2019 | | <0.03 | | | | | |
| 3/2/2020 | 0.0012 (J) | | 0.0017 (J) | 0.0037 (J) | | | |
| 3/24/2020 | | <0.03 | | | | | |
| 3/25/2020 | 0.00083 (J) | | 0.0017 (J) | 0.0035 (J) | | | |
| 8/24/2020 | | <0.03 | | | | | |
| 8/25/2020 | | | 0.0015 (J) | 0.0027 (J) | | | |
| 8/28/2020 | 0.00087 (J) | | | | | | |
| 9/15/2020 | 0.00087 (J) | <0.03 | 0.0015 (J) | 0.0026 (J) | | | |
| 9/16/2020 | | | | | 0.0018 (J) | 0.014 (J) | |
| 9/25/2020 | | | | | | | 0.0049 (J) |
| 11/10/2020 | | | | | 0.0013 (J) | 0.025 (J) | |
| 11/11/2020 | | | | | | | 0.0032 (J) |
| 12/15/2020 | | | | | 0.0019 (J) | 0.028 (J) | |
| 12/16/2020 | | | | | | | 0.0045 (J) |
| 1/19/2021 | | | | | 0.0025 (J) | <0.03 | |
| 1/20/2021 | | | | | | | 0.0025 (J) |
| 3/10/2021 | 0.0009 (J) | | | | | 0.03 | |
| 3/11/2021 | | <0.03 | 0.0011 (J) | 0.0035 (J) | 0.0022 (J) | | |
| 3/12/2021 | | | | | | | 0.005 (J) |
| 8/11/2021 | 0.00078 (J) | | | | 0.0024 (J) | | |
| 8/12/2021 | | | 0.0012 (J) | 0.0028 (J) | | | |
| 8/13/2021 | | <0.03 | | | | 0.032 | 0.0044 (J) |
| 2/1/2022 | 0.0011 (J) | <0.03 | 0.0017 (J) | 0.0037 (J) | 0.0024 (J) | 0.048 | 0.0055 (J) |
| 8/2/2022 | <0.03 | <0.03 | 0.0013 (J) | 0.003 (J) | 0.0019 (J) | 0.041 | 0.0045 (J) |

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|------------|------------|-------------|------------|------------|
| 8/31/2016 | 0.0333 (J) | 0.0077 (J) | <0.03 | | |
| 10/26/2016 | 0.0352 (J) | | <0.03 | | |
| 11/7/2016 | | 0.0089 (J) | | | |
| 1/13/2017 | | 0.0091 (J) | | | |
| 1/27/2017 | 0.0329 (J) | | <0.03 | | |
| 5/25/2017 | 0.0347 (J) | | 0.0011 (J) | | |
| 6/3/2017 | | 0.0104 (J) | | | |
| 8/11/2017 | | | <0.03 | | |
| 10/2/2017 | 0.0337 (J) | 0.0095 (J) | | | |
| 11/15/2017 | 0.0347 (J) | 0.0086 (J) | <0.03 | | |
| 6/5/2018 | 0.033 (J) | 0.0092 (J) | 0.0012 (J) | | |
| 10/2/2018 | 0.031 (J) | | 0.0012 (J) | | |
| 10/5/2018 | | 0.0091 (J) | | | |
| 8/22/2019 | 0.029 (J) | 0.0084 (J) | | | |
| 8/23/2019 | | | 0.0011 (J) | | |
| 10/21/2019 | | 0.009 (J) | 0.0011 (J) | | |
| 10/22/2019 | 0.03 (J) | | | | |
| 3/24/2020 | | | 0.0012 (J) | | |
| 3/25/2020 | 0.024 (J) | 0.0066 (J) | | | |
| 5/22/2020 | | | | 0.0052 (J) | 0.0046 (J) |
| 6/16/2020 | | | | 0.0053 (J) | 0.0045 (J) |
| 8/25/2020 | | | | 0.0037 (J) | 0.0037 (J) |
| 8/26/2020 | 0.023 (J) | 0.0071 (J) | | | |
| 8/27/2020 | | | 0.00091 (J) | | |
| 9/18/2020 | | | | | 0.0035 (J) |
| 9/21/2020 | 0.023 (J) | | | 0.0038 (J) | |
| 9/28/2020 | | 0.0076 (J) | 0.0011 (J) | | |
| 11/11/2020 | | | | | 0.0032 (J) |
| 11/12/2020 | | | | 0.0038 (J) | |
| 12/16/2020 | | | | 0.0055 (J) | 0.0029 (J) |
| 1/20/2021 | | | | 0.0046 (J) | 0.0038 (J) |
| 3/12/2021 | 0.023 (J) | | | 0.0039 (J) | 0.0038 (J) |
| 3/15/2021 | | 0.0077 (J) | 0.001 (J) | | |
| 8/16/2021 | 0.025 (J) | 0.0075 (J) | 0.0011 (J) | | |
| 8/19/2021 | | | | 0.0074 (J) | 0.0032 (J) |
| 2/2/2022 | 0.025 (J) | 0.0082 (J) | 0.0012 (J) | | |
| 2/3/2022 | | | | 0.0057 (J) | 0.0038 (J) |
| 8/4/2022 | 0.023 (J) | 0.0069 (J) | 0.0011 (J) | 0.0035 (J) | 0.0034 (J) |

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|-----------|-----------|-------------|----------|----------|
| 8/31/2016 | 4E-05 (J) | <0.0002 | <0.0002 | | |
| 10/26/2016 | <0.0002 | | <0.0002 | | |
| 11/7/2016 | | <0.0002 | | | |
| 1/13/2017 | | <0.0002 | | | |
| 1/27/2017 | <0.0002 | | <0.0002 | | |
| 5/25/2017 | 7E-05 (J) | | 5.1E-05 (J) | | |
| 6/3/2017 | | <0.0002 | | | |
| 8/11/2017 | | | <0.0002 | | |
| 10/2/2017 | <0.0002 | <0.0002 | | | |
| 11/15/2017 | <0.0002 | <0.0002 | <0.0002 | | |
| 6/5/2018 | <0.0002 | <0.0002 | <0.0002 | | |
| 10/2/2018 | <0.0002 | | <0.0002 | | |
| 10/5/2018 | | <0.0002 | | | |
| 8/22/2019 | <0.0002 | <0.0002 | | | |
| 8/23/2019 | | | <0.0002 | | |
| 5/22/2020 | | | | <0.0002 | <0.0002 |
| 6/16/2020 | | | | <0.0002 | <0.0002 |
| 8/25/2020 | | | | <0.0002 | <0.0002 |
| 8/26/2020 | <0.0002 | <0.0002 | | | |
| 8/27/2020 | | | <0.0002 | | |
| 9/18/2020 | | | | | <0.0002 |
| 9/21/2020 | | | | <0.0002 | |
| 11/11/2020 | | | | | <0.0002 |
| 11/12/2020 | | | | <0.0002 | |
| 12/16/2020 | | | | <0.0002 | <0.0002 |
| 1/20/2021 | | | | <0.0002 | <0.0002 |
| 8/16/2021 | <0.0002 | <0.0002 | <0.0002 | | |
| 8/19/2021 | | | | <0.0002 | <0.0002 |
| 2/2/2022 | <0.0002 | <0.0002 | <0.0002 | | |
| 2/3/2022 | | | | <0.0002 | <0.0002 |
| 8/4/2022 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | <0.01 | | <0.01 | <0.01 | | | |
| 7/11/2016 | <0.01 | | <0.01 | | | | |
| 7/12/2016 | | | | <0.01 | | | |
| 8/30/2016 | <0.01 | 0.0026 (J) | <0.01 | <0.01 | | | |
| 10/19/2016 | <0.01 | | <0.01 | <0.01 | | | |
| 10/20/2016 | | 0.005 (J) | | | | | |
| 12/6/2016 | <0.01 | | <0.01 | <0.01 | | | |
| 1/24/2017 | <0.01 | | <0.01 | <0.01 | | | |
| 1/25/2017 | | 0.0054 (J) | | | | | |
| 3/21/2017 | <0.01 | | <0.01 | <0.01 | | | |
| 5/22/2017 | <0.01 | | <0.01 | <0.01 | | | |
| 5/25/2017 | | 0.0018 (J) | | | | | |
| 8/11/2017 | | 0.0029 (J) | | | | | |
| 11/15/2017 | | 0.0018 (J) | | | | | |
| 4/2/2018 | <0.01 | | <0.01 | | | | |
| 4/3/2018 | | | | <0.01 | | | |
| 6/4/2018 | <0.01 | | <0.01 | <0.01 | | | |
| 6/5/2018 | | 0.0028 (J) | | | | | |
| 10/1/2018 | <0.01 | | <0.01 | <0.01 | | | |
| 10/2/2018 | | <0.01 | | | | | |
| 3/12/2019 | <0.01 | | <0.01 | <0.01 | | | |
| 4/1/2019 | | | | <0.01 | | | |
| 4/2/2019 | <0.01 | | <0.01 | | | | |
| 8/22/2019 | | 0.003 (J) | | | | | |
| 9/23/2019 | <0.01 | | <0.01 | <0.01 | | | |
| 10/21/2019 | | 0.0049 (J) | | | | | |
| 3/2/2020 | <0.01 | | <0.01 | <0.01 | | | |
| 3/24/2020 | | 0.0091 (J) | | | | | |
| 3/25/2020 | <0.01 | | <0.01 | <0.01 | | | |
| 6/16/2020 | <0.01 | | | <0.01 | | | |
| 8/24/2020 | | 0.0031 (J) | | | | | |
| 8/25/2020 | | | <0.01 | <0.01 | | | |
| 8/28/2020 | <0.01 | | | | | | |
| 9/15/2020 | <0.01 | 0.0045 (J) | <0.01 | <0.01 | | | |
| 9/16/2020 | | | | | 0.0044 (J) | 0.0019 (J) | |
| 9/25/2020 | | | | | | | 0.0014 (J) |
| 11/10/2020 | | | | | 0.0072 (J) | 0.0018 (J) | |
| 11/11/2020 | | | | | | | 0.0049 (J) |
| 12/15/2020 | | | | | 0.0044 (J) | 0.0019 (J) | |
| 12/16/2020 | | | | | | | 0.0024 (J) |
| 1/19/2021 | | | | | 0.0038 (J) | <0.01 | |
| 1/20/2021 | | | | | | | 0.0063 (J) |
| 3/10/2021 | <0.01 | | | | | 0.0019 (J) | |
| 3/11/2021 | | 0.0014 (J) | <0.01 | <0.01 | 0.0064 (J) | | |
| 3/12/2021 | | | | | | | 0.0019 (J) |
| 8/11/2021 | <0.01 | | | | 0.0034 (J) | | |
| 8/12/2021 | | | <0.01 | <0.01 | | | |
| 8/13/2021 | | 0.0022 (J) | | | | 0.0051 (J) | <0.01 |
| 2/1/2022 | <0.01 | 0.002 (J) | <0.01 | <0.01 | 0.0036 (J) | 0.0055 (J) | <0.01 |
| 8/2/2022 | <0.01 | 0.0042 (J) | <0.01 | <0.01 | 0.0042 (J) | 0.002 (J) | <0.01 |

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|-------------|-------------|----------|
| 8/31/2016 | 0.0176 | <0.01 | <0.01 | | |
| 10/26/2016 | 0.0187 | | <0.01 | | |
| 11/7/2016 | | <0.01 | | | |
| 1/13/2017 | | <0.01 | | | |
| 1/27/2017 | 0.0214 | | <0.01 | | |
| 5/25/2017 | 0.0231 | | 0.0009 (J) | | |
| 6/3/2017 | | <0.01 | | | |
| 8/11/2017 | | | 0.0013 (J) | | |
| 10/2/2017 | 0.0259 | <0.01 | | | |
| 11/15/2017 | 0.0281 | <0.01 | 0.0012 (J) | | |
| 6/5/2018 | 0.033 | <0.01 | <0.01 | | |
| 10/2/2018 | 0.036 | | <0.01 | | |
| 10/5/2018 | | <0.01 | | | |
| 8/22/2019 | 0.039 | <0.01 | | | |
| 8/23/2019 | | | 0.0014 (J) | | |
| 10/21/2019 | | <0.01 | 0.0013 (J) | | |
| 10/22/2019 | 0.04 | | | | |
| 3/24/2020 | | | 0.001 (J) | | |
| 3/25/2020 | 0.034 | <0.01 | | | |
| 5/22/2020 | | | | <0.01 | <0.01 |
| 6/16/2020 | | | | <0.01 | <0.01 |
| 8/25/2020 | | | | 0.00099 (J) | <0.01 |
| 8/26/2020 | 0.05 | <0.01 | | | |
| 8/27/2020 | | | 0.00091 (J) | | |
| 9/18/2020 | | | | | <0.01 |
| 9/21/2020 | 0.043 | | | <0.01 | |
| 9/28/2020 | | <0.01 | 0.0009 (J) | | |
| 11/11/2020 | | | | | <0.01 |
| 11/12/2020 | | | | 0.0017 (J) | |
| 12/16/2020 | | | | 0.014 | <0.01 |
| 1/20/2021 | | | | 0.0013 (J) | <0.01 |
| 3/12/2021 | 0.033 | | | 0.0012 (J) | <0.01 |
| 3/15/2021 | | <0.01 | 0.00092 (J) | | |
| 8/16/2021 | 0.035 | <0.01 | 0.00091 (J) | | |
| 8/19/2021 | | | | 0.021 | <0.01 |
| 2/2/2022 | 0.034 | <0.01 | 0.001 (J) | | |
| 2/3/2022 | | | | 0.0067 (J) | <0.01 |
| 8/4/2022 | 0.032 | <0.01 | <0.01 | 0.0023 (J) | <0.01 |

Time Series

Constituent: pH (s.u.) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | 7.27 | | 5.81 | 7.45 | | | |
| 7/11/2016 | 7.06 | | 5.68 | | | | |
| 7/12/2016 | | | | 7.32 | | | |
| 8/30/2016 | 7.28 | 6.75 | 5.63 | 7.43 | | | |
| 10/19/2016 | 7.02 | | 5.46 | 7.03 | | | |
| 10/20/2016 | | 6.73 | | | | | |
| 12/6/2016 | 7.09 | | 5.38 | 7.08 | | | |
| 1/24/2017 | 7.2 | | 5.37 | 7.39 | | | |
| 1/25/2017 | | 6.88 | | | | | |
| 3/21/2017 | 7.01 | | 4.9 | 6.83 | | | |
| 5/22/2017 | 7.11 | | 5.2 | 7.02 | | | |
| 5/25/2017 | | 6.55 | | | | | |
| 8/11/2017 | | 6.56 | | | | | |
| 10/3/2017 | 7.21 | | 5.3 | 7.47 | | | |
| 11/15/2017 | | 6.47 | | | | | |
| 4/2/2018 | 7.1 | | 5.4 | | | | |
| 4/3/2018 | | | | 7.38 | | | |
| 6/4/2018 | 7.06 | | 5.27 | 7.38 | | | |
| 6/5/2018 | | 6.66 | | | | | |
| 10/1/2018 | 7.09 | | 5.31 | 7.13 | | | |
| 10/2/2018 | | 6.44 | | | | | |
| 3/12/2019 | 7.03 | | 5.42 | 7.29 | | | |
| 4/1/2019 | | | | 7.16 | | | |
| 4/2/2019 | 6.86 | 6.57 | 5.41 | | | | |
| 8/22/2019 | | 6.51 | | | | | |
| 9/23/2019 | 7.02 | | 5.33 | 7.3 | | | |
| 10/21/2019 | | 6.69 | | | | | |
| 3/2/2020 | 7.1 | | 5.43 | 7.12 | | | |
| 3/24/2020 | | 7.08 | | | | | |
| 3/25/2020 | 6.95 | | 5.36 | 7.4 | | | |
| 6/16/2020 | 6.97 | | | 7.31 | | | |
| 8/24/2020 | | 6.54 | | | | | |
| 8/25/2020 | | | 5.17 | 7.14 | | | |
| 8/28/2020 | 7.02 | | | | | | |
| 9/15/2020 | 7.15 | 6.68 | 5.22 | 7.29 | | | |
| 9/16/2020 | | | | | 7.52 | 7.83 | |
| 9/25/2020 | | | | | | | 7.57 |
| 11/10/2020 | | | | 7.27 | 7.84 | | |
| 11/11/2020 | | | | | | | 7.4 |
| 12/15/2020 | | | | 7.39 | 7.87 | | |
| 12/16/2020 | | | | | | | 7.39 |
| 1/19/2021 | | | | 7.39 | 7.86 | | |
| 1/20/2021 | | | | | | | 7.47 |
| 3/10/2021 | 6.95 | | | | | 7.92 | |
| 3/11/2021 | | 6.65 | 5.8 | 7.33 | 7.46 | | |
| 3/12/2021 | | | | | | | 7.52 |
| 8/11/2021 | 6.98 | | | | 7.4 | | |
| 8/12/2021 | | | 5.05 | 7.31 | | | |
| 8/13/2021 | | 6.56 | | | | 7.77 | 7.42 |
| 2/1/2022 | 7.19 | 6.57 | 5.24 | 7.45 | 7.52 | 8.25 | 7.45 |
| 8/2/2022 | 7.03 | 6.67 | 4.57 | 7.02 | 7.15 | 7.9 | 7.39 |

Time Series

Constituent: pH (s.u.) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|----------|----------|----------|
| 8/31/2016 | 6.73 | 6.62 | 6.99 | | |
| 10/27/2016 | 6.77 | | 7.06 | | |
| 11/7/2016 | | 6.71 | | | |
| 1/13/2017 | | 6.57 | | | |
| 1/27/2017 | 6.74 | | 7.13 | | |
| 5/25/2017 | 6.99 | | 7.1 | | |
| 6/3/2017 | | 6.71 | | | |
| 8/11/2017 | | | 7.02 | | |
| 10/2/2017 | 7.66 | 7.65 | | | |
| 11/15/2017 | 6.71 | 6.69 | 7.04 | | |
| 6/5/2018 | 6.83 | 6.79 | 7.17 | | |
| 10/2/2018 | 6.83 | | 7.08 | | |
| 10/5/2018 | | 6.71 | | | |
| 4/2/2019 | 6.87 | | | | |
| 4/3/2019 | | 6.73 | 7.14 | | |
| 8/22/2019 | 6.79 | 6.77 | | | |
| 8/23/2019 | | | 7.02 | | |
| 10/21/2019 | | 6.74 | 7.05 | | |
| 10/22/2019 | 6.74 | | | | |
| 3/24/2020 | | | 7.18 | | |
| 3/25/2020 | 6.8 | 6.91 | | | |
| 5/22/2020 | | | | 6.43 | 7.22 |
| 6/15/2020 | 6.8 | | | | |
| 6/16/2020 | | | | 6.29 | 6.92 |
| 8/25/2020 | | | | 6.36 | 6.78 |
| 8/26/2020 | 6.96 | 6.73 | | | |
| 8/27/2020 | | | 7.15 | | |
| 9/18/2020 | | | | | 6.97 |
| 9/21/2020 | 6.98 | | | 6.22 | |
| 9/28/2020 | | 6.93 | 7.27 | | |
| 11/11/2020 | | | | | 6.86 |
| 11/12/2020 | | | | 6.13 | |
| 12/16/2020 | | | | 6.61 | 6.93 |
| 1/20/2021 | | | | 6.23 | 6.99 |
| 3/12/2021 | 6.95 | | | 6.18 | 7.05 |
| 3/15/2021 | | 6.87 | 7.22 | | |
| 8/16/2021 | 6.92 | 6.74 | 7.09 | | |
| 8/19/2021 | | | | 7.24 | 7.32 |
| 2/2/2022 | 7 | 6.92 | 7.28 | | |
| 2/3/2022 | | | | 6.56 | 7.01 |
| 8/4/2022 | 6.93 | 6.8 | 7.15 | 6.09 | 6.99 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | <0.005 | | <0.005 | <0.005 | | | |
| 7/11/2016 | <0.005 | | <0.005 | | | | |
| 7/12/2016 | | | | <0.005 | | | |
| 8/30/2016 | <0.005 | <0.005 | <0.005 | <0.005 | | | |
| 10/19/2016 | <0.005 | | <0.005 | <0.005 | | | |
| 10/20/2016 | | <0.005 | | | | | |
| 12/6/2016 | <0.005 | | <0.005 | <0.005 | | | |
| 1/24/2017 | <0.005 | | <0.005 | <0.005 | | | |
| 1/25/2017 | | <0.005 | | | | | |
| 3/21/2017 | <0.005 | | <0.005 | <0.005 | | | |
| 5/22/2017 | <0.005 | | <0.005 | <0.005 | | | |
| 5/25/2017 | | <0.005 | | | | | |
| 8/11/2017 | | <0.005 | | | | | |
| 11/15/2017 | | <0.005 | | | | | |
| 4/2/2018 | <0.005 | | <0.005 | | | | |
| 4/3/2018 | | | | <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 | | 0.0015 (J) | | | | | |
| 3/12/2019 | <0.005 | | <0.005 | <0.005 | | | |
| 4/1/2019 | | | | <0.005 | | | |
| 4/2/2019 | <0.005 | | <0.005 | | | | |
| 8/22/2019 | | <0.005 | | | | | |
| 9/23/2019 | <0.005 | | <0.005 | <0.005 | | | |
| 3/2/2020 | <0.005 | | <0.005 | <0.005 | | | |
| 3/25/2020 | <0.005 | | <0.005 | <0.005 | | | |
| 8/24/2020 | | <0.005 | | | | | |
| 8/25/2020 | | | <0.005 | <0.005 | | | |
| 8/28/2020 | <0.005 | | | | | | |
| 9/15/2020 | <0.005 | | <0.005 | <0.005 | | | |
| 9/16/2020 | | | | | <0.005 | <0.005 | |
| 9/25/2020 | | | | | | | <0.005 |
| 11/10/2020 | | | | <0.005 | <0.005 | | |
| 11/11/2020 | | | | | | | <0.005 |
| 12/15/2020 | | | | <0.005 | <0.005 | | |
| 12/16/2020 | | | | | | | <0.005 |
| 1/19/2021 | | | | <0.005 | <0.005 | | |
| 1/20/2021 | | | | | | | <0.005 |
| 8/11/2021 | <0.005 | | | | <0.005 | | |
| 8/12/2021 | | | <0.005 | <0.005 | | | |
| 8/13/2021 | | <0.005 | | | | <0.005 | <0.005 |
| 2/1/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| 8/2/2022 | <0.005 | <0.005 | 0.0014 (J) | <0.005 | <0.005 | <0.005 | <0.005 |

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|-----------|------------|------------|----------|----------|
| 8/31/2016 | <0.005 | <0.005 | <0.005 | | |
| 10/26/2016 | <0.005 | | <0.005 | | |
| 11/7/2016 | | <0.005 | | | |
| 1/13/2017 | | 0.0011 (J) | | | |
| 1/27/2017 | <0.005 | | <0.005 | | |
| 5/25/2017 | <0.005 | | <0.005 | | |
| 6/3/2017 | | <0.005 | | | |
| 8/11/2017 | | | <0.005 | | |
| 10/2/2017 | 0.002 (J) | <0.005 | | | |
| 11/15/2017 | <0.005 | <0.005 | <0.005 | | |
| 6/5/2018 | <0.005 | <0.005 | <0.005 | | |
| 10/2/2018 | <0.005 | | 0.0014 (J) | | |
| 10/5/2018 | | <0.005 | | | |
| 8/22/2019 | <0.005 | <0.005 | | | |
| 8/23/2019 | | | <0.005 | | |
| 5/22/2020 | | | | <0.005 | <0.005 |
| 6/16/2020 | | | | <0.005 | <0.005 |
| 8/25/2020 | | | | <0.005 | <0.005 |
| 8/26/2020 | <0.005 | <0.005 | | | |
| 8/27/2020 | | | <0.005 | | |
| 9/18/2020 | | | | | <0.005 |
| 9/21/2020 | | | | <0.005 | |
| 11/11/2020 | | | | | <0.005 |
| 11/12/2020 | | | | <0.005 | |
| 12/16/2020 | | | | <0.005 | <0.005 |
| 1/20/2021 | | | | <0.005 | <0.005 |
| 8/16/2021 | <0.005 | <0.005 | <0.005 | | |
| 8/19/2021 | | | | <0.005 | <0.005 |
| 2/2/2022 | <0.005 | <0.005 | <0.005 | | |
| 2/3/2022 | | | | <0.005 | <0.005 |
| 8/4/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | 66.9 | | 48.6 | 42.3 | | | |
| 7/11/2016 | 41 | | 45 | | | | |
| 7/12/2016 | | | | 44 | | | |
| 8/30/2016 | 36 | 49 | 42 | 40 | | | |
| 10/19/2016 | 46 | | 44 | 43 | | | |
| 10/20/2016 | | 49 | | | | | |
| 12/6/2016 | 59 | | 44 | 43 | | | |
| 1/24/2017 | 46 | | 46 | 48 | | | |
| 1/25/2017 | | 48 | | | | | |
| 3/21/2017 | 63 | | 46 | 45 | | | |
| 5/22/2017 | 77 | | 48 | 46 | | | |
| 5/25/2017 | | 48 | | | | | |
| 8/11/2017 | | 47 | | | | | |
| 10/3/2017 | 42 | | 47 | 48 | | | |
| 11/15/2017 | | 49 | | | | | |
| 6/4/2018 | 71.8 | | 47.8 | 46.6 | | | |
| 6/5/2018 | | 48.9 | | | | | |
| 10/1/2018 | 49.1 | | 48.1 | 48.6 | | | |
| 10/2/2018 | | 48.6 | | | | | |
| 4/1/2019 | | | | 50.4 | | | |
| 4/2/2019 | 84.3 | 39.6 | 48.7 | | | | |
| 6/18/2019 | | 44.5 | | | | | |
| 9/23/2019 | 70.2 | | 47.2 | 43.9 | | | |
| 10/21/2019 | | 45.6 | | | | | |
| 3/24/2020 | | 25.9 | | | | | |
| 3/25/2020 | 85.9 | | 46.3 | 50.5 | | | |
| 6/16/2020 | 88.2 | | | 49.5 | | | |
| 9/15/2020 | 47.3 | 41.4 | 51.5 | 44.7 | | | |
| 9/16/2020 | | | | | 43 | 43 | |
| 9/25/2020 | | | | | | | 6.8 |
| 11/10/2020 | | | | 39 | 6.3 | | |
| 11/11/2020 | | | | | | | 11.2 |
| 12/15/2020 | | | | 38.8 | 6.7 | | |
| 12/16/2020 | | | | | | | 11.3 |
| 1/19/2021 | | | | 37.3 | 7.4 | | |
| 1/20/2021 | | | | | | | 14.2 |
| 3/10/2021 | 49.6 | | | | | <1 | |
| 3/11/2021 | | 40.7 | 52.9 | 50.4 | 38.6 | | |
| 3/12/2021 | | | | | | | 8.7 |
| 8/11/2021 | 48.9 | | | | 30.5 | | |
| 8/12/2021 | | | 47.4 | 38.6 | | | |
| 8/13/2021 | | 42.1 | | | | 56.1 | 8.1 |
| 2/1/2022 | 43.7 | 41.1 | 67.1 | 46 | 37.5 | 56.3 | 2.5 |
| 8/2/2022 | 58.1 | 41.5 | 86.9 | 43.5 | 37 | 13.2 | 2.1 |

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|----------|----------|----------|
| 8/31/2016 | 290 | 280 | 72 | | |
| 10/26/2016 | 280 | | 71 | | |
| 11/7/2016 | | 300 | | | |
| 1/13/2017 | | 270 | | | |
| 1/27/2017 | 290 | | 74 | | |
| 5/25/2017 | 280 | | 73 | | |
| 6/3/2017 | | 270 | | | |
| 8/11/2017 | | | 71 | | |
| 10/2/2017 | 300 | 330 | | | |
| 11/15/2017 | 300 | 280 | 70 | | |
| 6/5/2018 | 273 | 241 | 74 | | |
| 10/2/2018 | 328 | | 80.7 | | |
| 10/5/2018 | | 271 | | | |
| 4/2/2019 | 256 | | | | |
| 4/3/2019 | | 230 | 75.2 | | |
| 6/17/2019 | 243 | 219 | | | |
| 6/18/2019 | | | 75.3 | | |
| 10/21/2019 | | 238 | 78.5 | | |
| 10/22/2019 | 266 | | | | |
| 3/24/2020 | | | 74.6 | | |
| 3/25/2020 | 226 | 116 | | | |
| 5/22/2020 | | | | 345 | 56.1 |
| 6/15/2020 | 212 | | | | |
| 6/16/2020 | | | | 320 | 57.6 |
| 8/25/2020 | | | | 353 | 62.8 |
| 9/18/2020 | | | | | 62.7 |
| 9/21/2020 | 225 | | | 352 | |
| 9/28/2020 | | 182 | 86.2 | | |
| 11/11/2020 | | | | | 62.3 |
| 11/12/2020 | | | | 300 | |
| 12/16/2020 | | | | 306 | 68.1 |
| 1/20/2021 | | | | 335 | 66.6 |
| 3/12/2021 | 210 | | | 293 | 69.7 |
| 3/15/2021 | | 177 | 74 | | |
| 8/16/2021 | 211 | 158 | 74 | | |
| 8/19/2021 | | | | 264 | 64.4 |
| 2/2/2022 | 201 | 147 | 70.7 | | |
| 2/3/2022 | | | | 304 | 66.8 |
| 8/4/2022 | 230 | 162 | 73.1 | 331 | 68.3 |

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|----------|----------|----------|
| 8/31/2016 | <0.001 | <0.001 | <0.001 | | |
| 10/26/2016 | <0.001 | | <0.001 | | |
| 11/7/2016 | | <0.001 | | | |
| 1/13/2017 | | <0.001 | | | |
| 1/27/2017 | <0.001 | | <0.001 | | |
| 5/25/2017 | <0.001 | | <0.001 | | |
| 6/3/2017 | | <0.001 | | | |
| 8/11/2017 | | | <0.001 | | |
| 10/2/2017 | <0.001 | <0.001 | | | |
| 11/15/2017 | <0.001 | <0.001 | <0.001 | | |
| 6/5/2018 | <0.001 | <0.001 | <0.001 | | |
| 10/2/2018 | <0.001 | | <0.001 | | |
| 10/5/2018 | | <0.001 | | | |
| 8/22/2019 | <0.001 | <0.001 | | | |
| 8/23/2019 | | | <0.001 | | |
| 5/22/2020 | | | | <0.001 | <0.001 |
| 6/16/2020 | | | | <0.001 | <0.001 |
| 8/25/2020 | | | | <0.001 | <0.001 |
| 8/26/2020 | <0.001 | <0.001 | | | |
| 8/27/2020 | | | <0.001 | | |
| 9/18/2020 | | | | | <0.001 |
| 9/21/2020 | | | | <0.001 | |
| 11/11/2020 | | | | | <0.001 |
| 11/12/2020 | | | | <0.001 | |
| 12/16/2020 | | | | <0.001 | <0.001 |
| 1/20/2021 | | | | <0.001 | <0.001 |
| 8/16/2021 | <0.001 | <0.001 | <0.001 | | |
| 8/19/2021 | | | | <0.001 | <0.001 |
| 2/2/2022 | <0.001 | <0.001 | <0.001 | | |
| 2/3/2022 | | | | <0.001 | <0.001 |
| 8/4/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-122 (bg) | HGWA-2 (bg) | HGWA-3 (bg) | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|-------------|---------------|-------------|-------------|---------------|---------------|---------------|
| 5/19/2016 | 421 | | 143 | 267 | | | |
| 7/11/2016 | 363 | | 125 | | | | |
| 7/12/2016 | | | | 249 | | | |
| 8/30/2016 | 330 | 280 | 168 | 254 | | | |
| 10/19/2016 | 380 | | 176 | 357 | | | |
| 10/20/2016 | | 265 | | | | | |
| 12/6/2016 | 377 | | 145 | 285 | | | |
| 1/24/2017 | 342 | | 129 | 300 | | | |
| 1/25/2017 | | 371 | | | | | |
| 3/21/2017 | 340 | | 103 | 288 | | | |
| 5/22/2017 | 338 | | 92 | 263 | | | |
| 5/25/2017 | | 237 | | | | | |
| 8/11/2017 | | 253 | | | | | |
| 10/3/2017 | 343 | | 127 | 300 | | | |
| 11/15/2017 | | 261 | | | | | |
| 6/4/2018 | 415 | | 140 | 266 | | | |
| 6/5/2018 | | 276 | | | | | |
| 10/1/2018 | 354 | | 135 | 291 | | | |
| 10/2/2018 | | 256 | | | | | |
| 4/1/2019 | | | | 284 | | | |
| 4/2/2019 | 452 | 814 (o) | 133 | | | | |
| 6/18/2019 | | 233 | | | | | |
| 9/23/2019 | 442 | | 129 | 268 | | | |
| 10/21/2019 | | 296 | | | | | |
| 3/24/2020 | | 278 | | | | | |
| 3/25/2020 | 496 | | 138 | 284 | | | |
| 6/16/2020 | 632 | | | 448 | | | |
| 9/15/2020 | 265 | 267 | 124 | 258 | | | |
| 9/16/2020 | | | | | 272 | 270 | |
| 9/25/2020 | | | | | | | 263 |
| 11/10/2020 | | | | 307 | 287 | | |
| 11/11/2020 | | | | | | | 276 |
| 12/15/2020 | | | | 289 | 295 | | |
| 12/16/2020 | | | | | | | 294 |
| 1/19/2021 | | | | 270 | 278 | | |
| 1/20/2021 | | | | | | | 289 |
| 3/10/2021 | 348 | | | | | 289 | |
| 3/11/2021 | | 206 | 169 | 267 | 279 | | |
| 3/12/2021 | | | | | | | 260 |
| 8/11/2021 | 366 | | | | 277 | | |
| 8/12/2021 | | | 118 | 265 | | | |
| 8/13/2021 | | 201 | | | | 436 | 272 |
| 2/1/2022 | 270 | 203 | 156 | 350 | 156 | 444 | 268 |
| 8/2/2022 | 400 | 217 | 196 | 287 | 278 | 311 | 261 |

Time Series

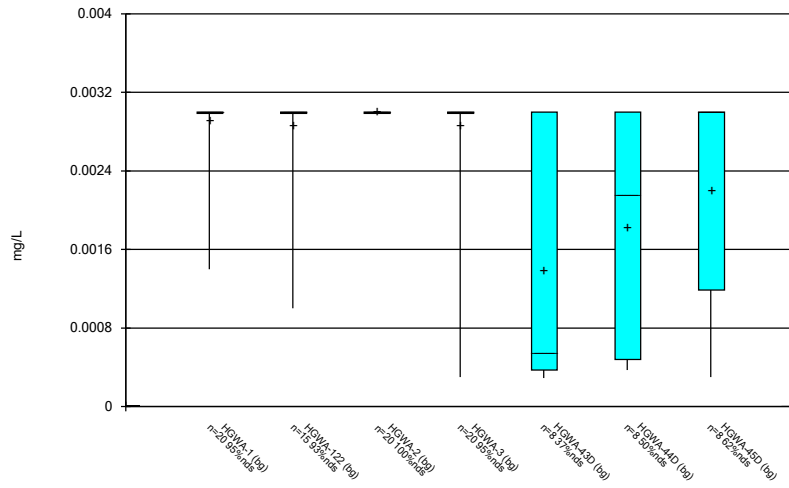
Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|----------|----------|----------|
| 8/31/2016 | 700 | 876 | 379 | | |
| 10/26/2016 | 795 | | 409 | | |
| 11/7/2016 | | 1000 | | | |
| 1/13/2017 | | 827 | | | |
| 1/27/2017 | 706 | | 370 | | |
| 5/25/2017 | 669 | | 351 | | |
| 6/3/2017 | | 846 | | | |
| 8/11/2017 | | | 322 | | |
| 10/2/2017 | 672 | 884 | | | |
| 11/15/2017 | 721 | 838 | 350 | | |
| 6/5/2018 | 723 | 823 | 360 | | |
| 10/2/2018 | 703 | | 363 | | |
| 10/5/2018 | | 813 | | | |
| 4/2/2019 | 540 | | | | |
| 4/3/2019 | | 785 | 369 | | |
| 6/17/2019 | | 751 | | | |
| 10/21/2019 | | 771 | 357 | | |
| 10/22/2019 | 693 | | | | |
| 3/24/2020 | | | 355 | | |
| 3/25/2020 | 665 | 521 | | | |
| 5/22/2020 | | | | 809 | 496 |
| 6/15/2020 | 685 | | | | |
| 6/16/2020 | | | | 665 | 508 |
| 8/25/2020 | | | | 772 | 505 |
| 9/18/2020 | | | | | 452 |
| 9/21/2020 | 272 | | | 956 | |
| 9/28/2020 | | <10 | 176 | | |
| 11/11/2020 | | | | | 468 |
| 11/12/2020 | | | | 694 | |
| 12/16/2020 | | | | 816 | 536 |
| 1/20/2021 | | | | 726 | 472 |
| 3/12/2021 | 584 | | | 664 | 474 |
| 3/15/2021 | | 614 | 340 | | |
| 8/16/2021 | 632 | 626 | 352 | | |
| 8/19/2021 | | | | 732 | 488 |
| 2/2/2022 | 612 | 638 | 347 | | |
| 2/3/2022 | | | | 726 | 466 |
| 8/4/2022 | 632 | 640 | 334 | 706 | 510 |

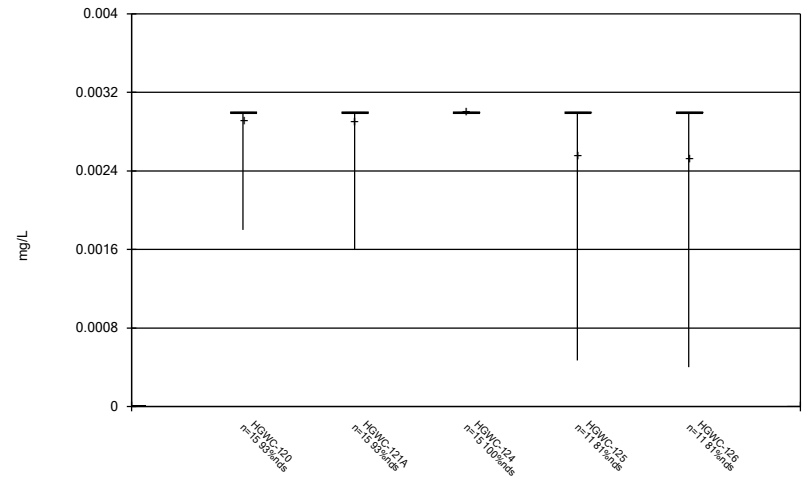
FIGURE B.

Box & Whiskers Plot



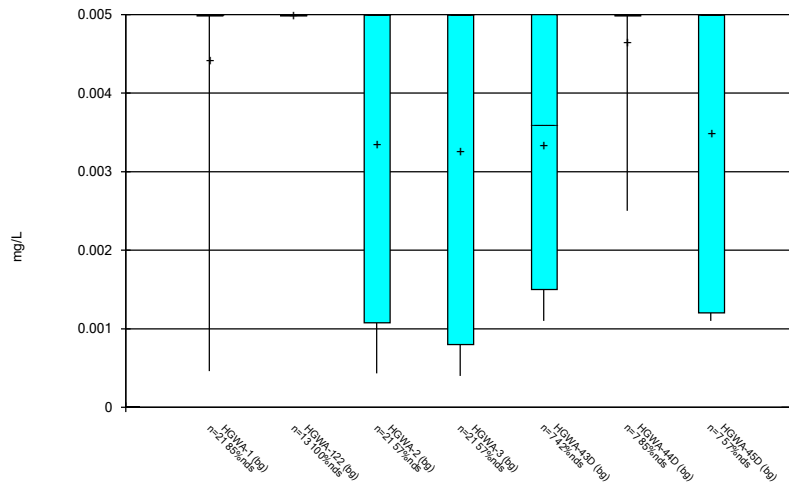
Constituent: Antimony Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



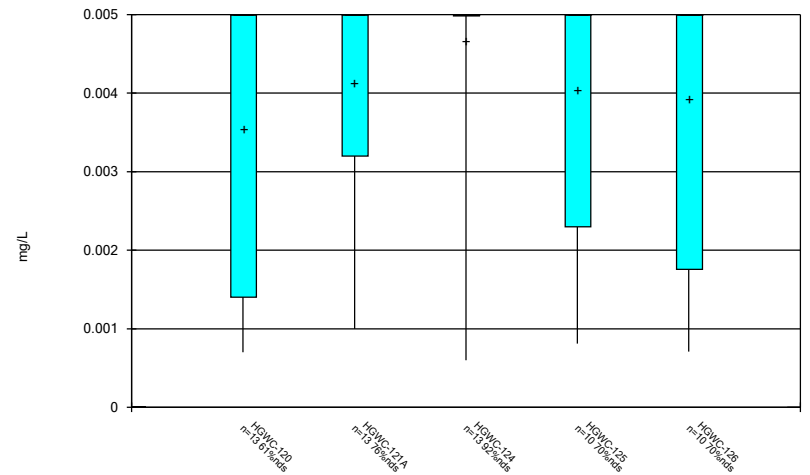
Constituent: Antimony Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



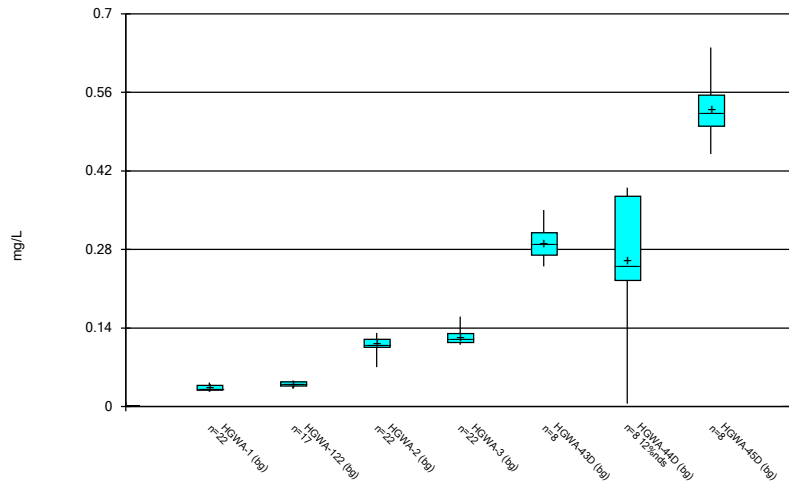
Constituent: Arsenic Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



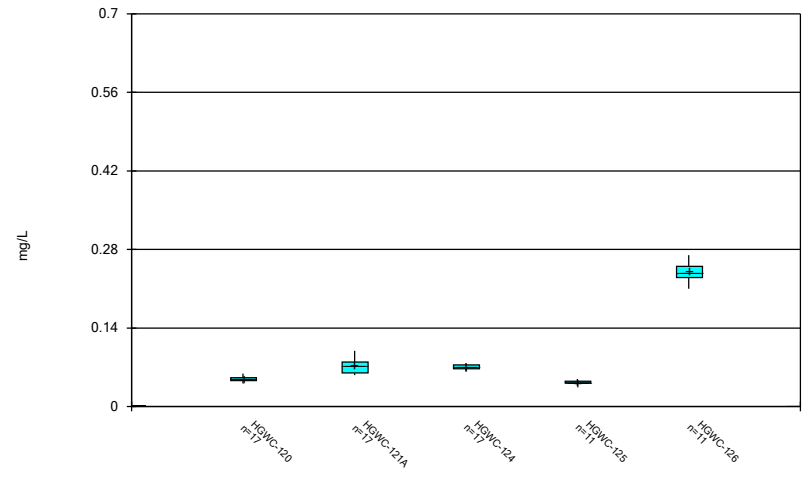
Constituent: Arsenic Analysis Run 10/27/2022 5:09 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



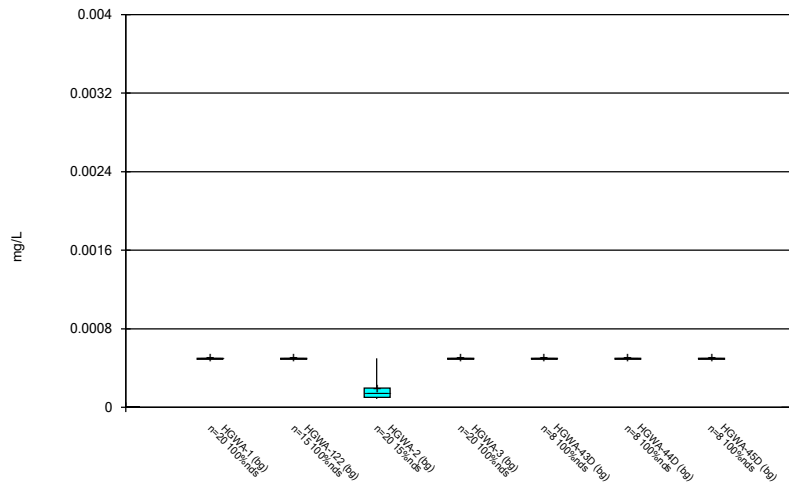
Constituent: Barium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



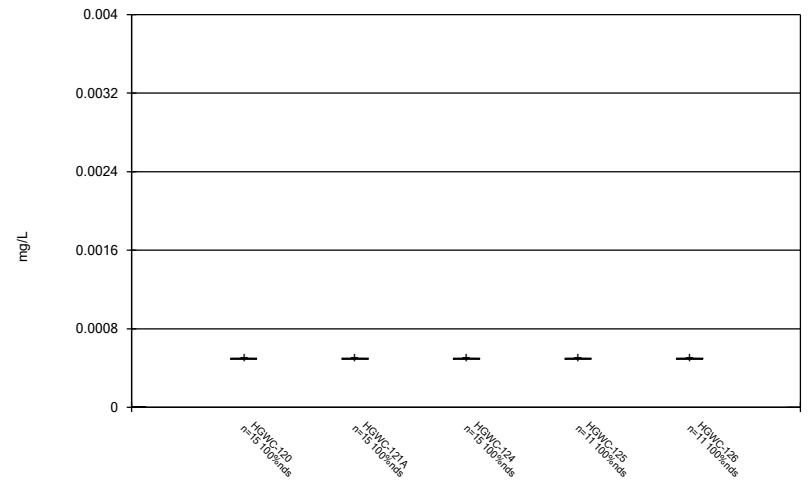
Constituent: Barium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



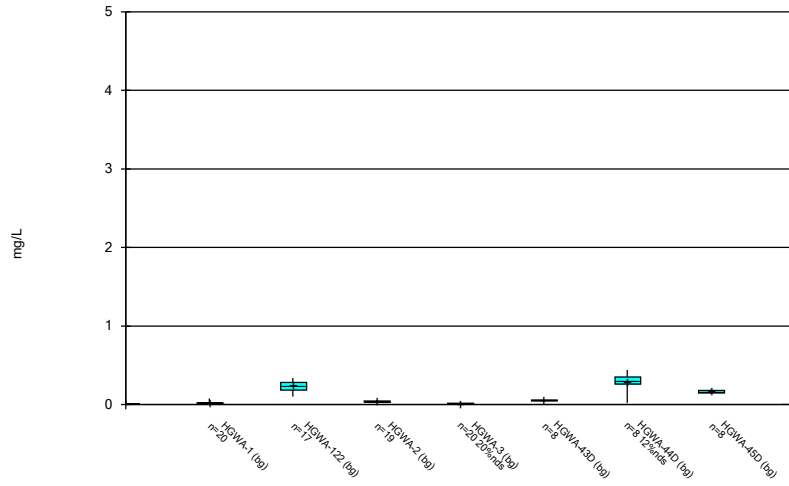
Constituent: Beryllium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



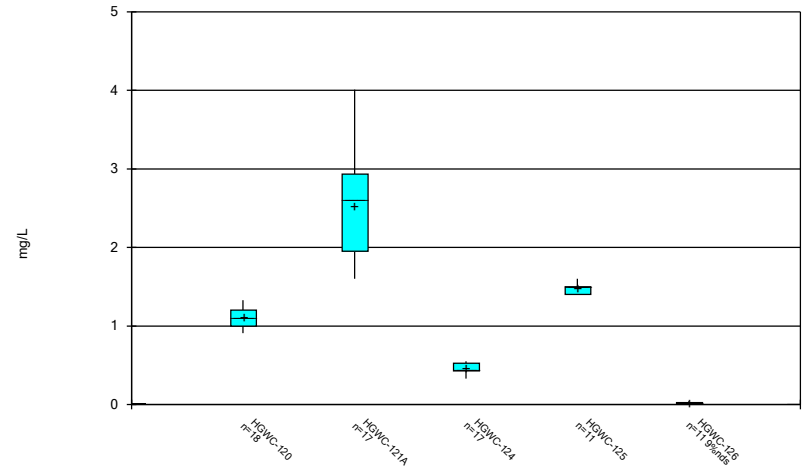
Constituent: Beryllium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



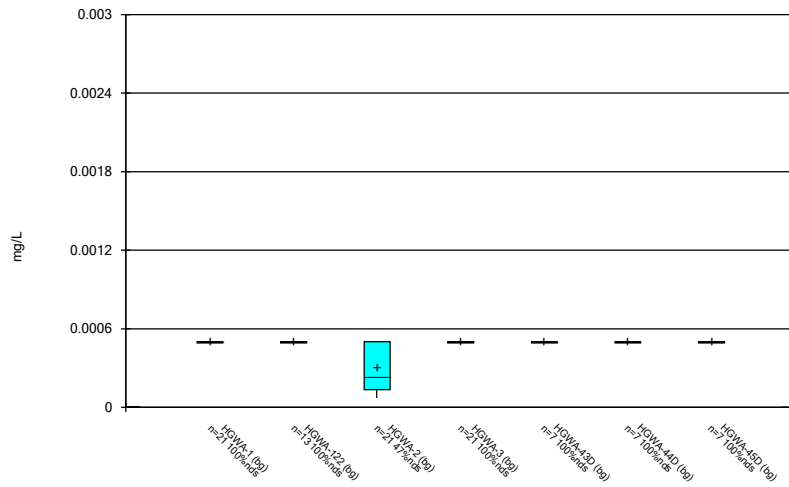
Constituent: Boron Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



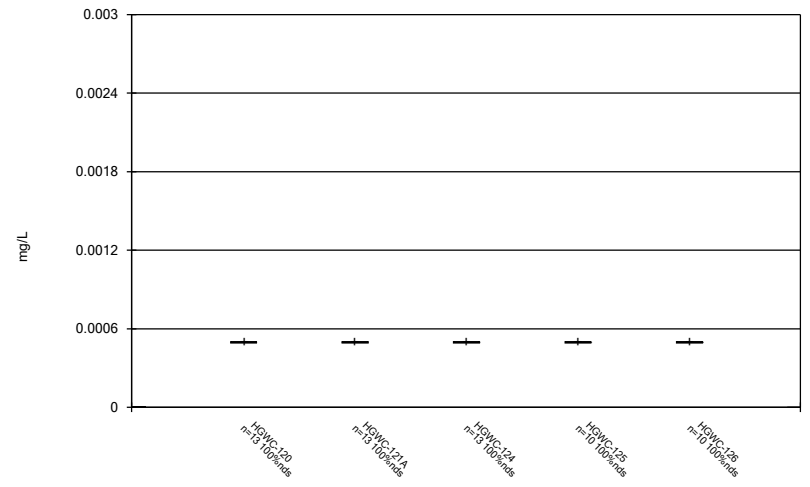
Constituent: Boron Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



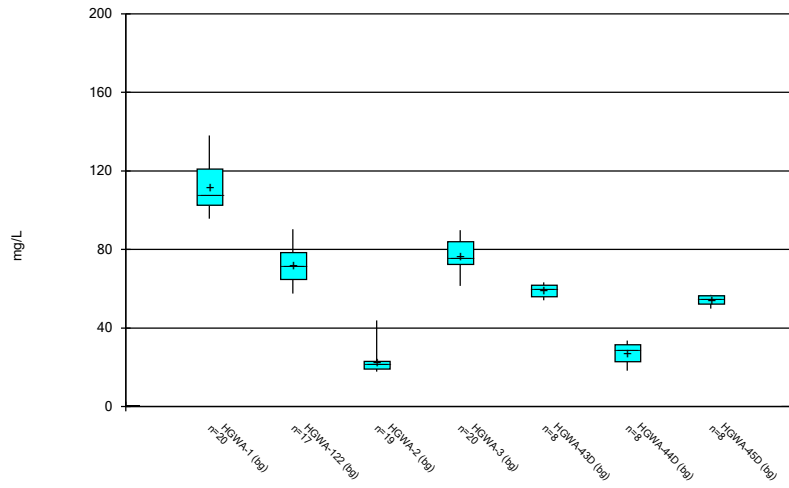
Constituent: Cadmium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



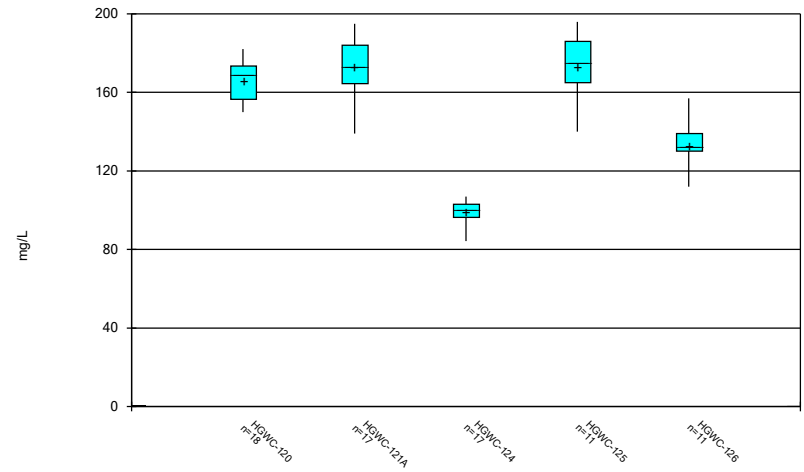
Constituent: Cadmium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



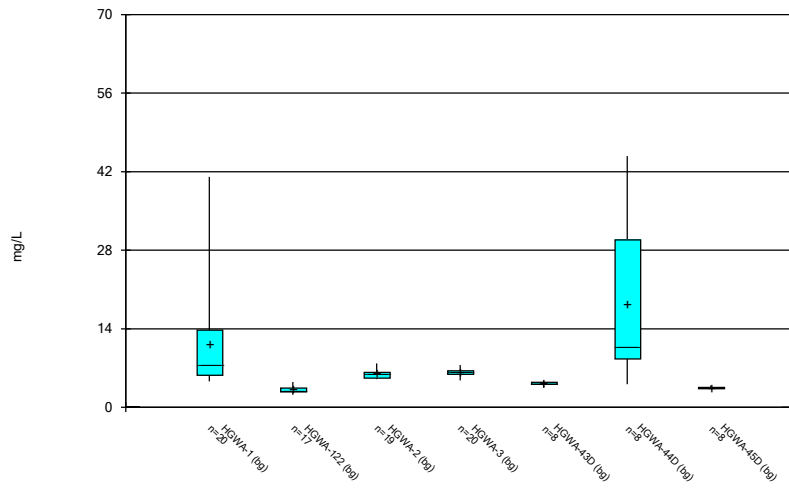
Constituent: Calcium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



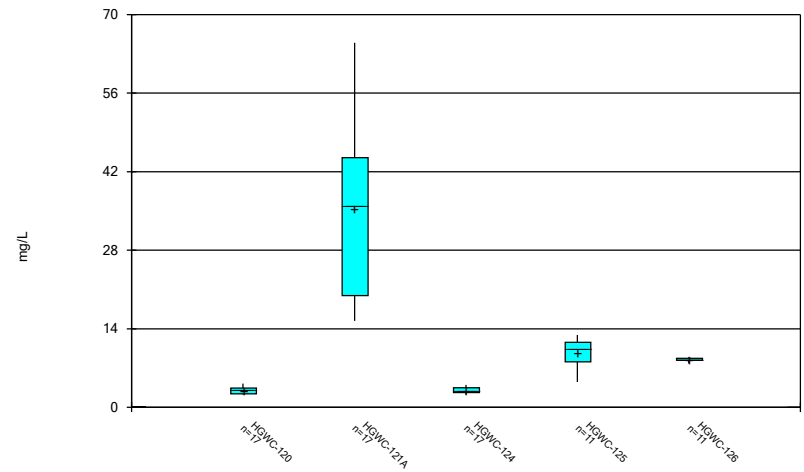
Constituent: Calcium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



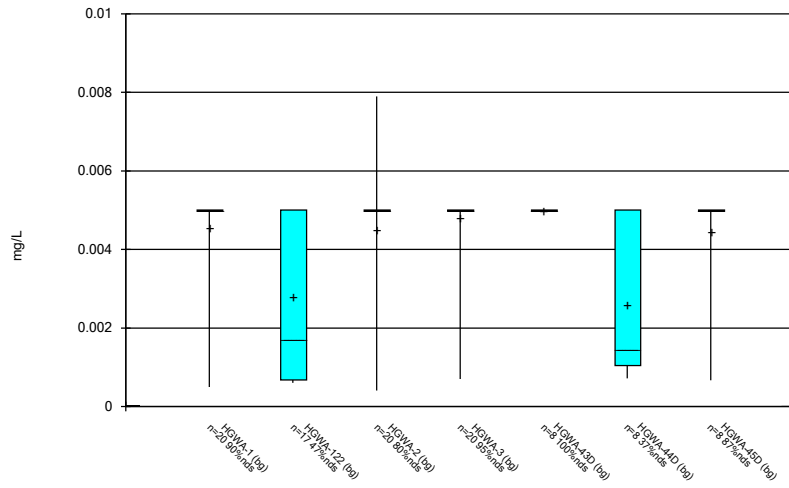
Constituent: Chloride Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



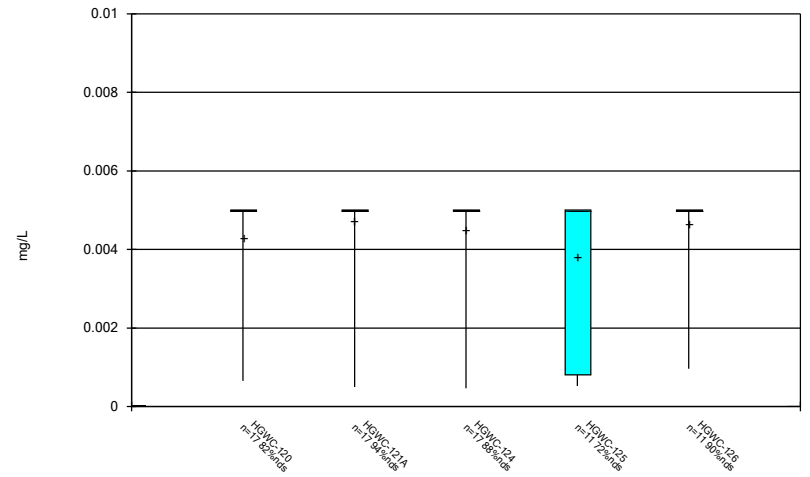
Constituent: Chloride Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



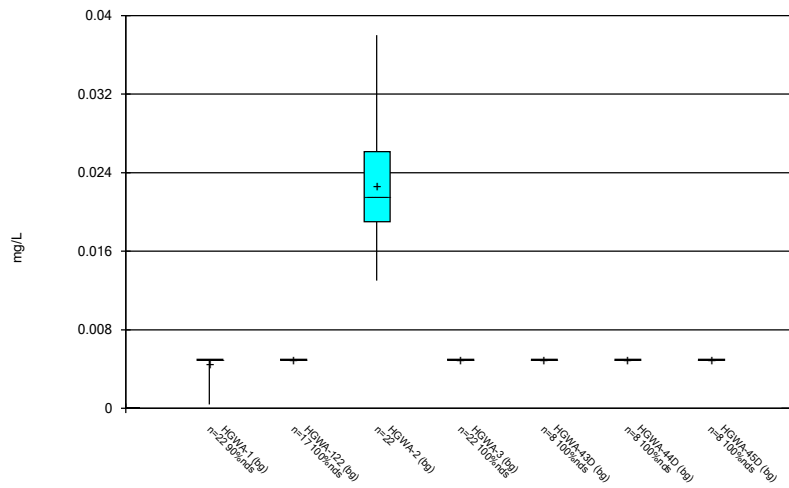
Constituent: Chromium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



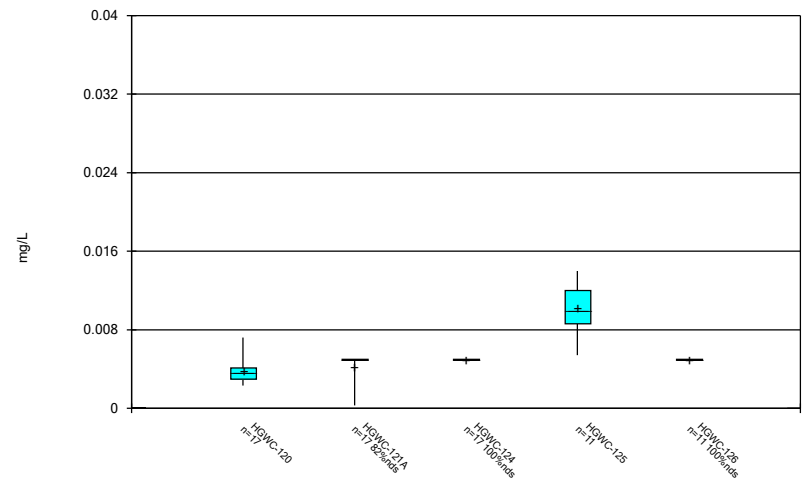
Constituent: Chromium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



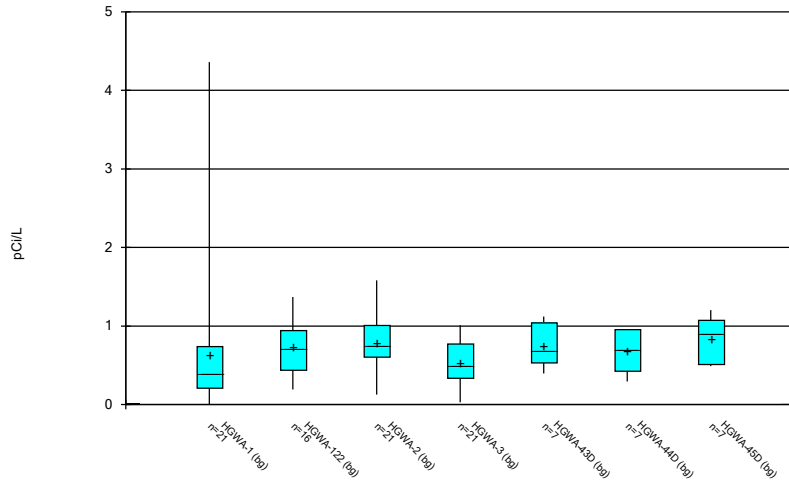
Constituent: Cobalt Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



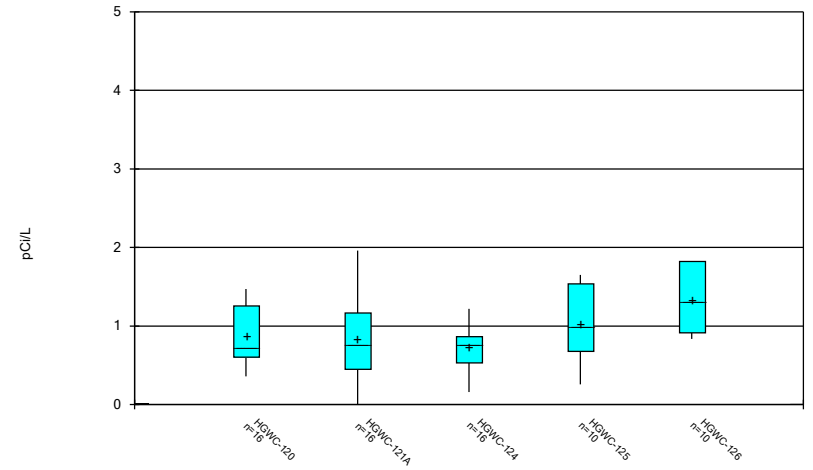
Constituent: Cobalt Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



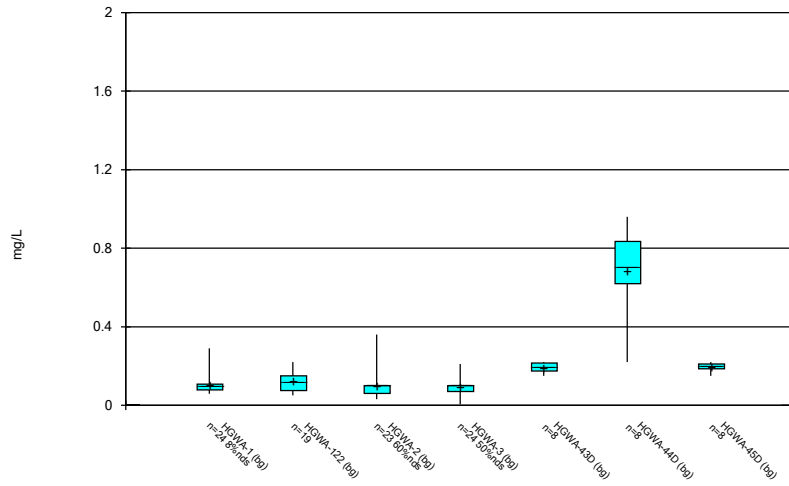
Constituent: Combined Radium 226 + 228 Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



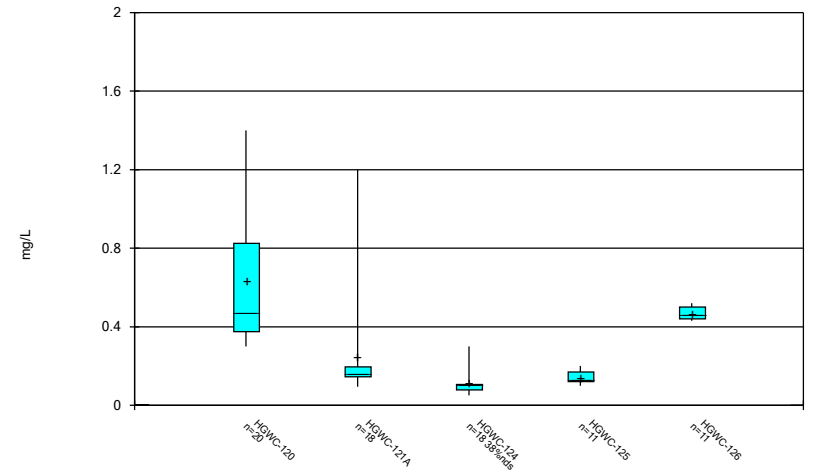
Constituent: Combined Radium 226 + 228 Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



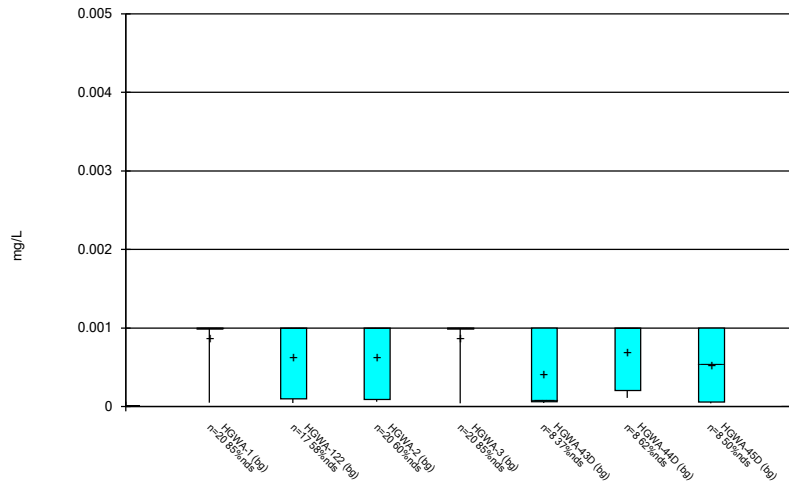
Constituent: Fluoride Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



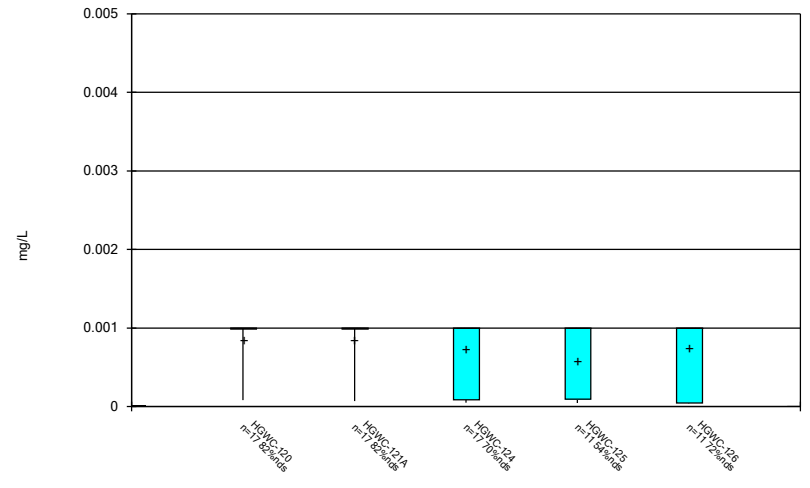
Constituent: Fluoride Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



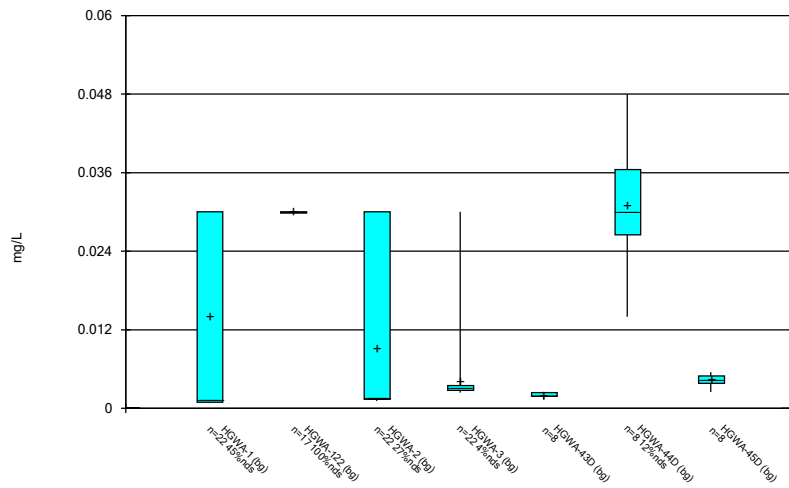
Constituent: Lead Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



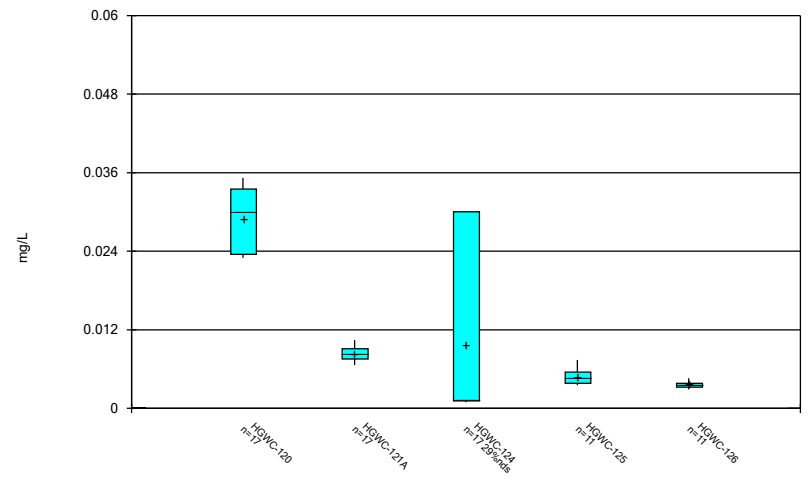
Constituent: Lead Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



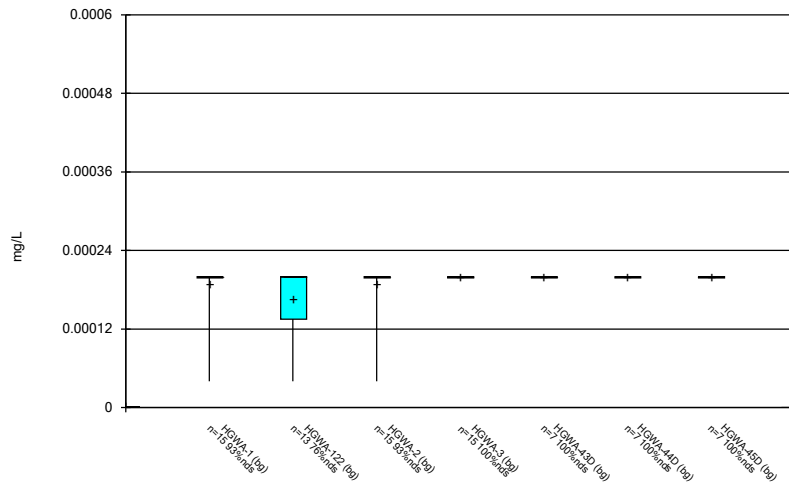
Constituent: Lithium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



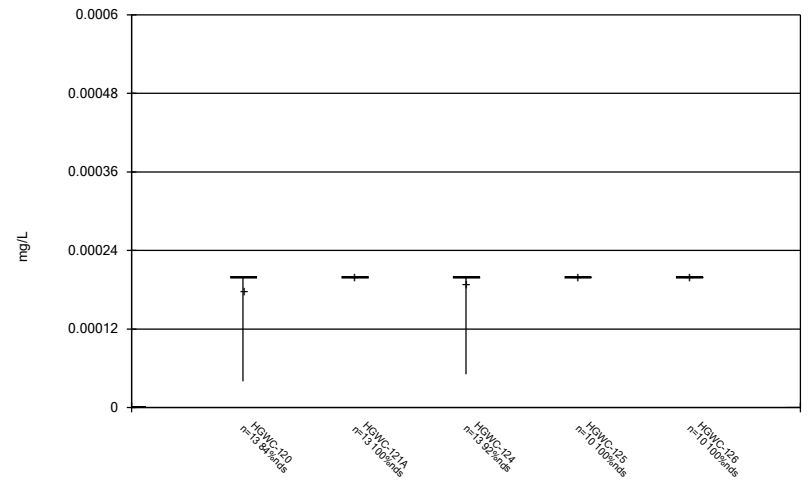
Constituent: Lithium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



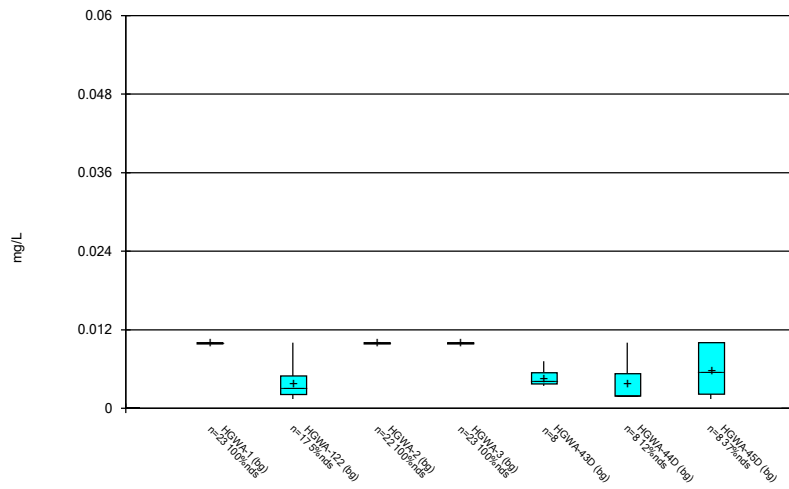
Constituent: Mercury Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



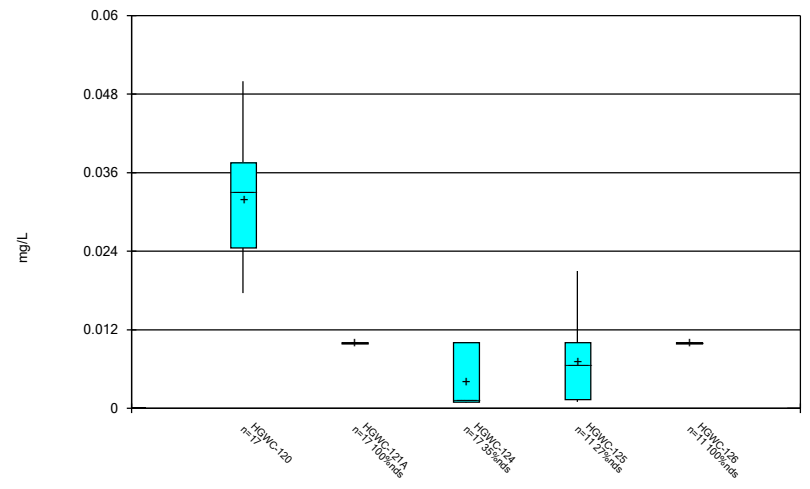
Constituent: Mercury Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



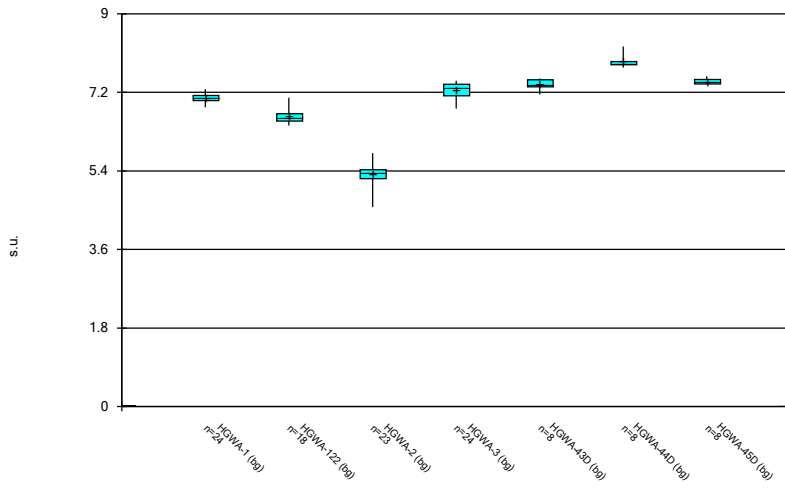
Constituent: Molybdenum Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



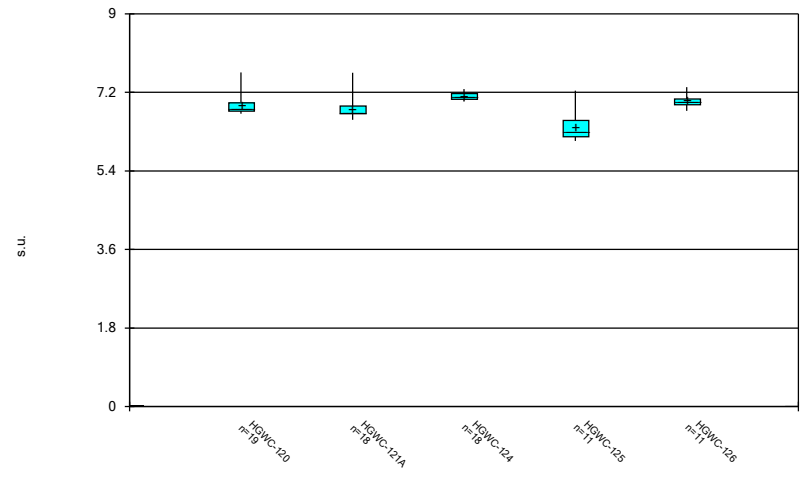
Constituent: Molybdenum Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



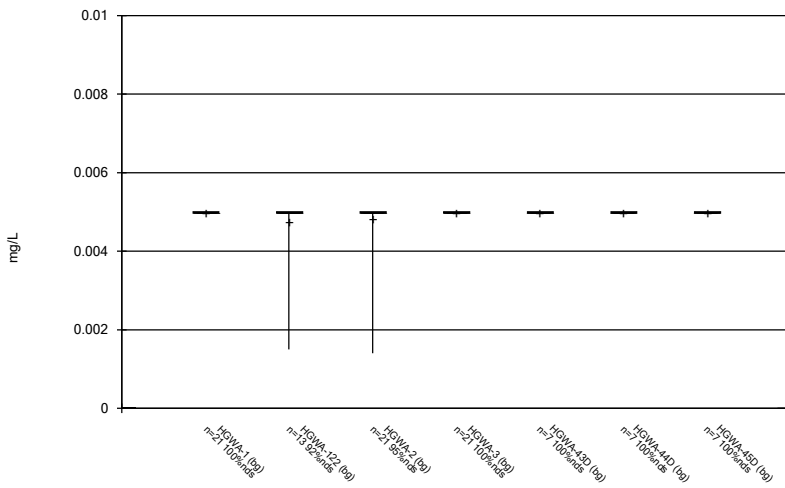
Constituent: pH Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



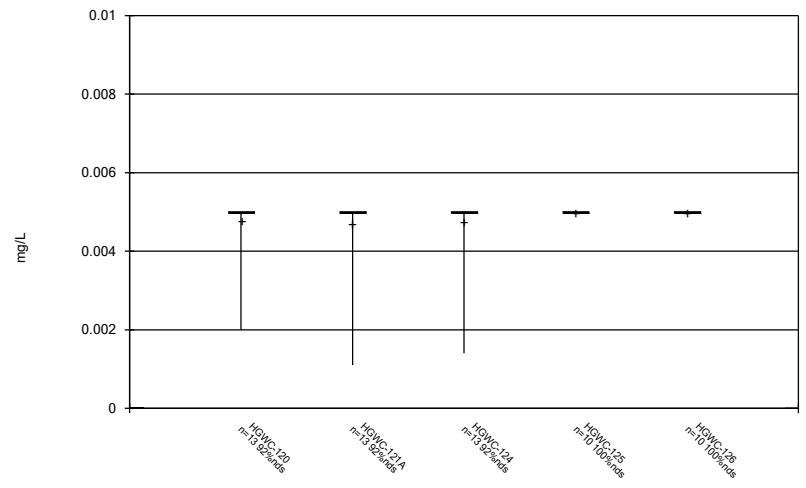
Constituent: pH Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



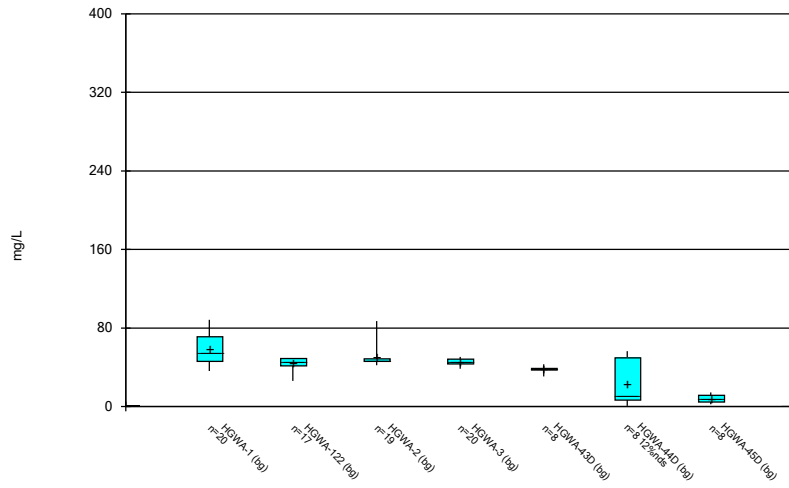
Constituent: Selenium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



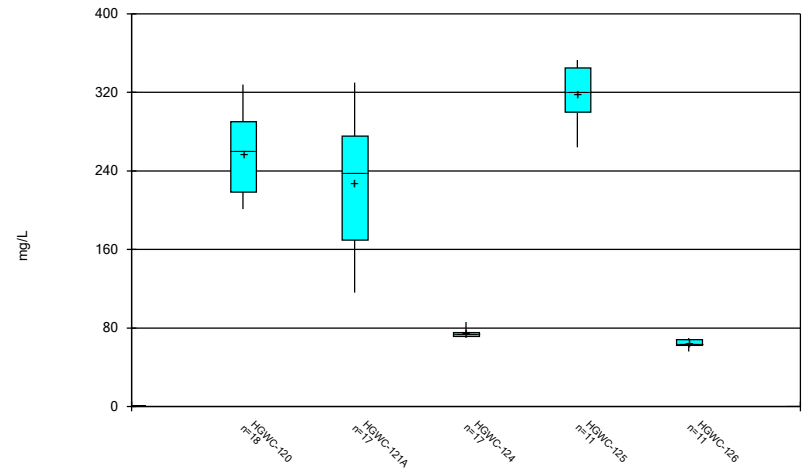
Constituent: Selenium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



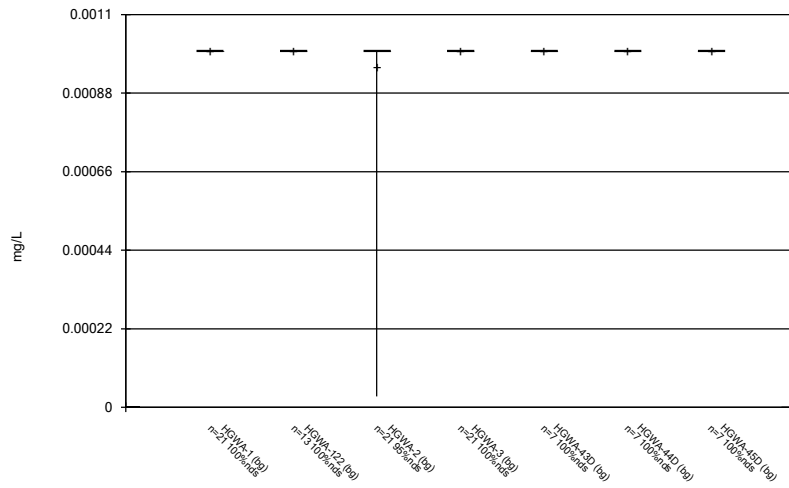
Constituent: Sulfate Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



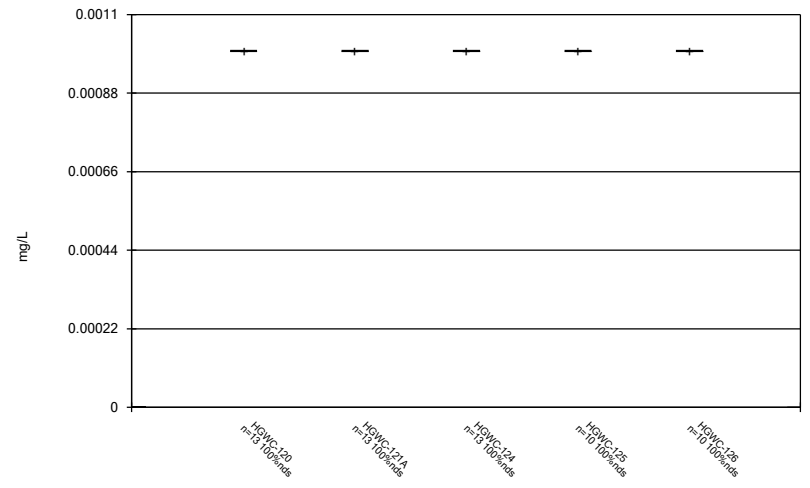
Constituent: Sulfate Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



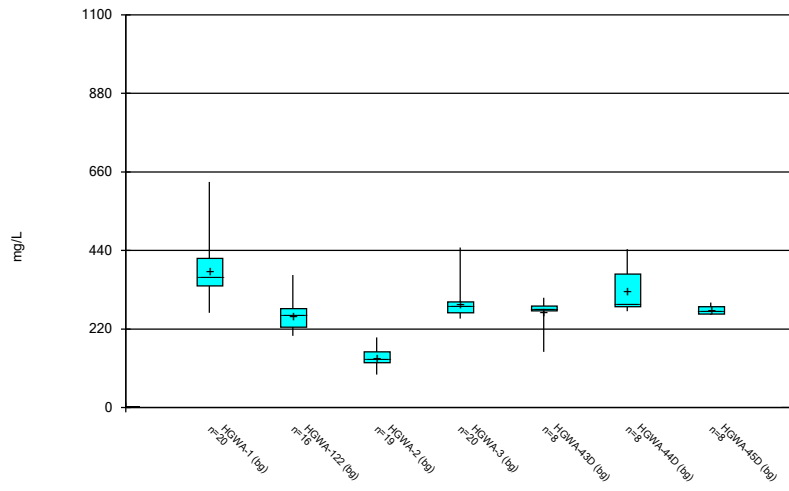
Constituent: Thallium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



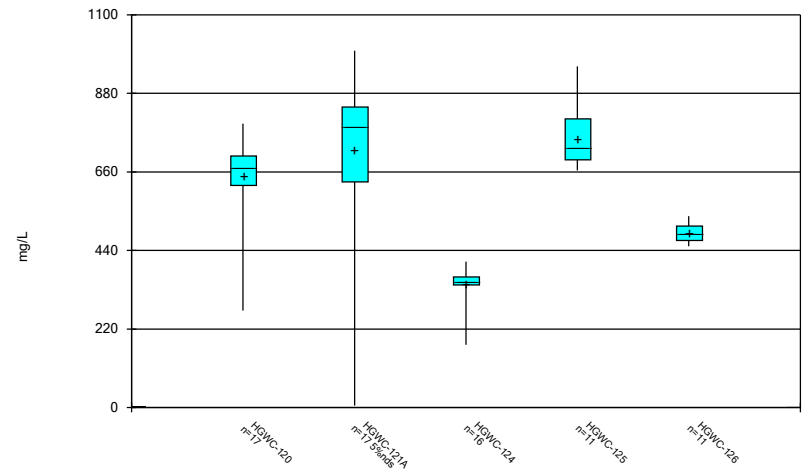
Constituent: Thallium Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/27/2022 5:10 PM View: Time Series & Box Plot
Plant Hammond Client: Southern Company Data: Hammond AP-3

FIGURE C.

Outlier Summary

Plant Hammond Client: Southern Company Data: Hammond AP-3 Printed 10/20/2022, 7:09 PM

HGWA-122 Total Dissolved Solids (mg/L)

4/2/2019

814 (o)

FIGURE D.

Interwell Prediction Limit - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-3 Printed 10/20/2022, 6:56 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%NDs</u> | <u>ND Adj.</u> | <u>Transform</u> | <u>Alpha</u> | <u>Method</u> |
|-------------------------------|-------------|-------------------|-------------------|-------------|----------------|-------------|-----------------|----------------|------------------|--------------|-----------------------------|
| Boron (mg/L) | HGWC-120 | 0.44 | n/a | 8/4/2022 | 1 | Yes | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-121A | 0.44 | n/a | 8/4/2022 | 1.8 | Yes | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-125 | 0.44 | n/a | 8/4/2022 | 1.4 | Yes | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-120 | 138 | n/a | 8/4/2022 | 173 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-121A | 138 | n/a | 8/4/2022 | 160 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-125 | 138 | n/a | 8/4/2022 | 170 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-126 | 138 | n/a | 8/4/2022 | 141 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-120 | 88.2 | n/a | 8/4/2022 | 230 | Yes | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-121A | 88.2 | n/a | 8/4/2022 | 162 | Yes | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-125 | 88.2 | n/a | 8/4/2022 | 331 | Yes | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-121A | 632 | n/a | 8/4/2022 | 640 | Yes | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-125 | 632 | n/a | 8/4/2022 | 706 | Yes | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |

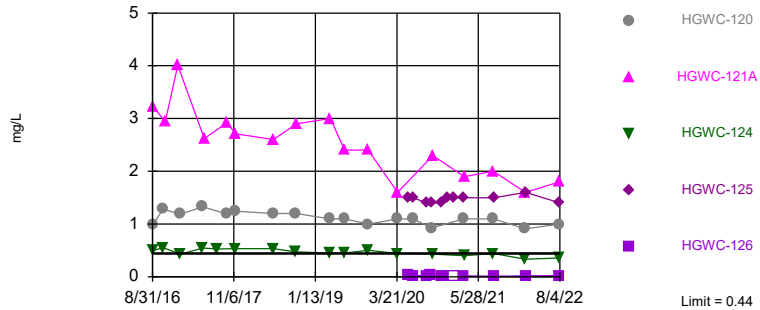
Interwell Prediction Limit - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-3 Printed 10/20/2022, 6:56 PM

| Constituent | Well | Upper Lim. | Lower Lim. | Date | Observ. | Sig. | Bg.N%NDs | ND Adj. | Transform | Alpha | Method |
|--------------------------------------|------------------|-------------|------------|-----------------|------------|------------|--------------|------------|------------|------------------|------------------------------------|
| Boron (mg/L) | HGWC-120 | 0.44 | n/a | 8/4/2022 | 1 | Yes | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-121A | 0.44 | n/a | 8/4/2022 | 1.8 | Yes | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-124 | 0.44 | n/a | 8/4/2022 | 0.36 | No | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-125 | 0.44 | n/a | 8/4/2022 | 1.4 | Yes | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Boron (mg/L) | HGWC-126 | 0.44 | n/a | 8/4/2022 | 0.023J | No | 100 5 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-120 | 138 | n/a | 8/4/2022 | 173 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-121A | 138 | n/a | 8/4/2022 | 160 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-124 | 138 | n/a | 8/4/2022 | 103 | No | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-125 | 138 | n/a | 8/4/2022 | 170 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Calcium (mg/L) | HGWC-126 | 138 | n/a | 8/4/2022 | 141 | Yes | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-120 | 44.8 | n/a | 8/4/2022 | 2.7 | No | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-121A | 44.8 | n/a | 8/4/2022 | 15.4 | No | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-124 | 44.8 | n/a | 8/4/2022 | 2.6 | No | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-125 | 44.8 | n/a | 8/4/2022 | 11.6 | No | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Chloride (mg/L) | HGWC-126 | 44.8 | n/a | 8/4/2022 | 8.7 | No | 100 0 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-120 | 0.96 | n/a | 8/4/2022 | 0.38 | No | 114 24.56 | n/a | n/a | 0.0001526 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-121A | 0.96 | n/a | 8/4/2022 | 0.18 | No | 114 24.56 | n/a | n/a | 0.0001526 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-124 | 0.96 | n/a | 8/4/2022 | 0.074J | No | 114 24.56 | n/a | n/a | 0.0001526 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-125 | 0.96 | n/a | 8/4/2022 | 0.15 | No | 114 24.56 | n/a | n/a | 0.0001526 | NP Inter (normality) 1 of 2 |
| Fluoride (mg/L) | HGWC-126 | 0.96 | n/a | 8/4/2022 | 0.5 | No | 114 24.56 | n/a | n/a | 0.0001526 | NP Inter (normality) 1 of 2 |
| pH (s.u.) | HGWC-120 | 8.25 | 4.57 | 8/4/2022 | 6.93 | No | 113 0 | n/a | n/a | 0.000311 | NP Inter (normality) 1 of 2 |
| pH (s.u.) | HGWC-121A | 8.25 | 4.57 | 8/4/2022 | 6.8 | No | 113 0 | n/a | n/a | 0.000311 | NP Inter (normality) 1 of 2 |
| pH (s.u.) | HGWC-124 | 8.25 | 4.57 | 8/4/2022 | 7.15 | No | 113 0 | n/a | n/a | 0.000311 | NP Inter (normality) 1 of 2 |
| pH (s.u.) | HGWC-125 | 8.25 | 4.57 | 8/4/2022 | 6.09 | No | 113 0 | n/a | n/a | 0.000311 | NP Inter (normality) 1 of 2 |
| pH (s.u.) | HGWC-126 | 8.25 | 4.57 | 8/4/2022 | 6.99 | No | 113 0 | n/a | n/a | 0.000311 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-120 | 88.2 | n/a | 8/4/2022 | 230 | Yes | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-121A | 88.2 | n/a | 8/4/2022 | 162 | Yes | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-124 | 88.2 | n/a | 8/4/2022 | 73.1 | No | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-125 | 88.2 | n/a | 8/4/2022 | 331 | Yes | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Sulfate (mg/L) | HGWC-126 | 88.2 | n/a | 8/4/2022 | 68.3 | No | 100 1 | n/a | n/a | 0.0001934 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-120 | 632 | n/a | 8/4/2022 | 632 | No | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-121A | 632 | n/a | 8/4/2022 | 640 | Yes | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-124 | 632 | n/a | 8/4/2022 | 334 | No | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-125 | 632 | n/a | 8/4/2022 | 706 | Yes | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |
| Total Dissolved Solids (mg/L) | HGWC-126 | 632 | n/a | 8/4/2022 | 510 | No | 99 0 | n/a | n/a | 0.0001978 | NP Inter (normality) 1 of 2 |

Exceeds Limit: HGWC-120, HGWC-121A,
HGWC-125

Prediction Limit
Interwell Non-parametric

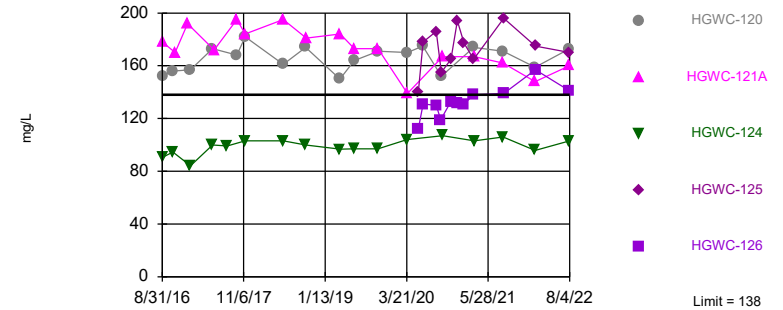


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. 5% NDs. Annual per-constituent alpha = 0.001932. Individual comparison alpha = 0.0001934 (1 of 2). Comparing 5 points to limit.

Constituent: Boron Analysis Run 10/20/2022 6:55 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

Exceeds Limit: HGWC-120, HGWC-121A,
HGWC-125, HGWC-126

Prediction Limit
Interwell Non-parametric

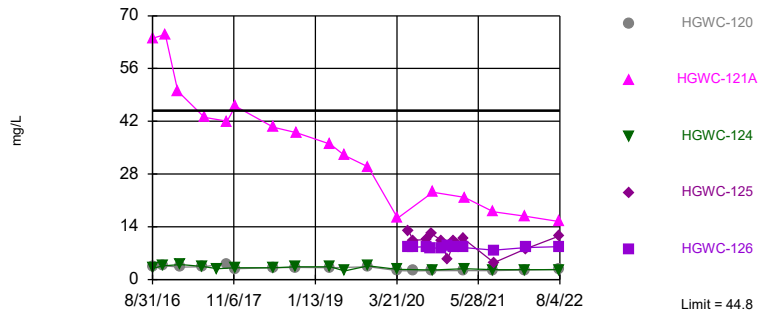


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. Annual per-constituent alpha = 0.001932. Individual comparison alpha = 0.0001934 (1 of 2). Comparing 5 points to limit.

Constituent: Calcium Analysis Run 10/20/2022 6:55 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

Within Limit

Prediction Limit
Interwell Non-parametric

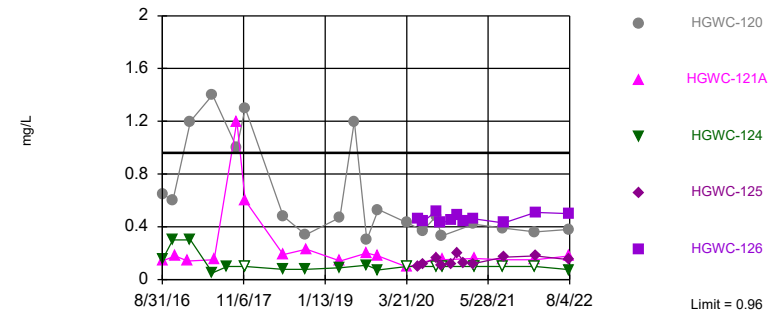


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. Annual per-constituent alpha = 0.001932. Individual comparison alpha = 0.0001934 (1 of 2). Comparing 5 points to limit.

Constituent: Chloride Analysis Run 10/20/2022 6:55 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

Within Limit

Prediction Limit
Interwell Non-parametric

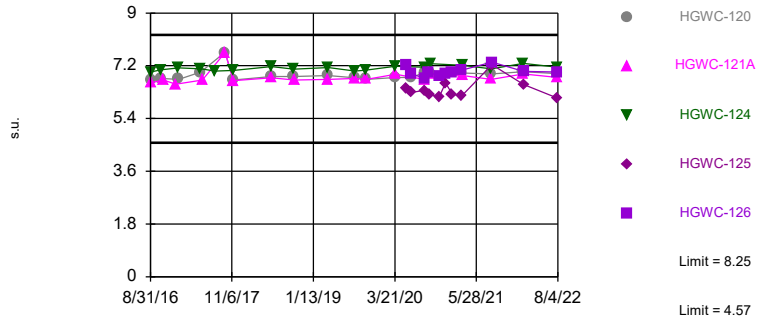


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 114 background values. 24.56% NDs. Annual per-constituent alpha = 0.001525. Individual comparison alpha = 0.0001526 (1 of 2). Comparing 5 points to limit.

Constituent: Fluoride Analysis Run 10/20/2022 6:55 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

Within Limits

Prediction Limit
Interwell Non-parametric

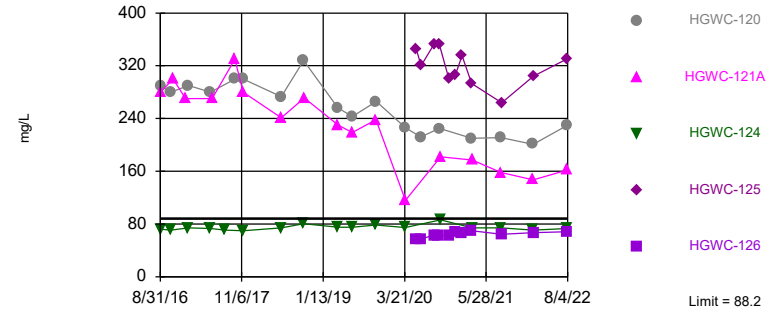


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 113 background values. Annual per-constituent alpha = 0.003107. Individual comparison alpha = 0.000311 (1 of 2). Comparing 5 points to limit.

Constituent: pH Analysis Run 10/20/2022 6:55 PM View: A3 PL
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Exceeds Limit: HGWC-120, HGWC-121A, HGWC-125

Prediction Limit
Interwell Non-parametric

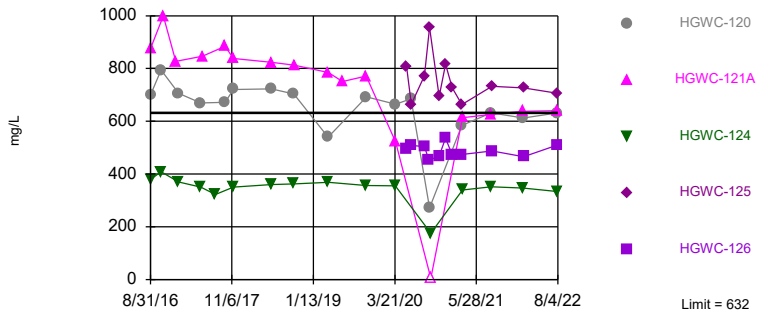


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 100 background values. 1% NDs. Annual per-constituent alpha = 0.001932. Individual comparison alpha = 0.0001934 (1 of 2). Comparing 5 points to limit.

Constituent: Sulfate Analysis Run 10/20/2022 6:55 PM View: A3 PL
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Exceeds Limit: HGWC-121A, HGWC-125

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 99 background values. Annual per-constituent alpha = 0.001976. Individual comparison alpha = 0.0001978 (1 of 2). Comparing 5 points to limit.

Constituent: Total Dissolved Solids Analysis Run 10/20/2022 6:55 PM View: A3 PL
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWA-122 (bg) | HGWC-121A | HGWC-120 | HGWC-124 | HGWC-126 | HGWC-125 |
|------------|-------------|-------------|-------------|---------------|-----------|----------|----------|-----------|----------|
| 5/19/2016 | 0.0214 (J) | <0.04 | 0.0321 (J) | | | | | | |
| 7/11/2016 | 0.0142 (J) | | 0.0337 (J) | | | | | | |
| 7/12/2016 | | 0.0074 (J) | | | | | | | |
| 8/30/2016 | 0.0074 (J) | <0.04 | 0.0173 (J) | 0.277 | | | | | |
| 8/31/2016 | | | | | 3.23 | 0.981 | 0.494 | | |
| 10/19/2016 | 0.0224 (J) | 0.0085 (J) | 0.0341 (J) | | | | | | |
| 10/20/2016 | | | | 0.336 | | | | | |
| 10/26/2016 | | | | | | 1.28 | 0.55 | | |
| 11/7/2016 | | | | | 2.95 | | | | |
| 12/6/2016 | 0.0211 (J) | 0.0085 (J) | 0.0326 (J) | | | | | | |
| 1/13/2017 | | | | | 4.01 | | | | |
| 1/24/2017 | 0.0165 (J) | 0.01 (J) | 0.0365 (J) | | | | | | |
| 1/25/2017 | | | | 0.274 | | | | | |
| 1/27/2017 | | | | | | 1.19 | 0.428 | | |
| 3/21/2017 | 0.0187 (J) | 0.0079 (J) | 0.0349 (J) | | | | | | |
| 5/22/2017 | 0.0782 | 0.0131 (J) | 0.0475 | | | | | | |
| 5/25/2017 | | | | 0.298 | | 1.33 | 0.544 | | |
| 6/3/2017 | | | | | 2.62 | | | | |
| 8/11/2017 | | | | 0.285 | | | | 0.524 | |
| 10/2/2017 | | | | | 2.92 | 1.19 | | | |
| 10/3/2017 | 0.0198 (J) | 0.0097 (J) | 0.0386 (J) | | | | | | |
| 11/15/2017 | | | | 0.322 | 2.71 | 1.24 | 0.531 | | |
| 6/4/2018 | 0.02 (J) | 0.017 (J) | 0.036 (J) | | | | | | |
| 6/5/2018 | | | | 0.24 | 2.6 | 1.2 | 0.53 | | |
| 10/1/2018 | 0.013 (J) | 0.0061 (J) | 0.035 (J) | | | | | | |
| 10/2/2018 | | | | 0.28 | | 1.2 | 0.47 | | |
| 10/5/2018 | | | | | 2.9 | | | | |
| 4/1/2019 | | 0.0066 (J) | | | | | | | |
| 4/2/2019 | 0.016 (J) | | 0.034 (J) | 0.18 | | 1.1 | | | |
| 4/3/2019 | | | | | 3 | | 0.45 | | |
| 6/17/2019 | | | | | 2.4 | 1.1 | | | |
| 6/18/2019 | | | | 0.25 | | | 0.45 | | |
| 9/23/2019 | 0.021 (J) | 0.0081 (J) | 0.04 (J) | | | | | | |
| 10/21/2019 | | | | 0.25 | 2.4 | | 0.5 | | |
| 10/22/2019 | | | | | | 1 | | | |
| 3/24/2020 | | | | 0.1 | | | 0.44 | | |
| 3/25/2020 | 0.025 (J) | 0.0096 (J) | 0.039 (J) | | 1.6 | 1.1 | | | |
| 5/22/2020 | | | | | | | | 0.026 (J) | 1.5 |
| 6/15/2020 | | | | | | 1.1 | | | |
| 6/16/2020 | 0.021 (J) | 0.01 (J) | | | | | | 0.023 (J) | 1.5 |
| 8/25/2020 | | | | | | | | 0.016 (J) | 1.4 |
| 9/15/2020 | 0.017 (J) | 0.0071 (J) | 0.044 (J) | 0.22 | | | | | |
| 9/16/2020 | | | | | | | | | |
| 9/18/2020 | | | | | | | | 0.041 (J) | |
| 9/21/2020 | | | | | | 0.93 | | | 1.4 |
| 9/25/2020 | | | | | | | | | |
| 9/28/2020 | | | | | 2.3 | | 0.43 | | |
| 11/10/2020 | | | | | | | | | |
| 11/11/2020 | | | | | | | | 0.009 (J) | |
| 11/12/2020 | | | | | | | | | 1.4 |
| 12/15/2020 | | | | | | | | | |
| 12/16/2020 | | | | | | | | 0.011 (J) | 1.5 |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWA-122 (bg) | HGWC-121A | HGWC-120 | HGWC-124 | HGWC-126 | HGWC-125 |
|-----------|-------------|-------------|-------------|---------------|-----------|----------|----------|-----------|----------|
| 1/19/2021 | | | | | | | | | |
| 1/20/2021 | | | | | | | | <0.04 | 1.5 |
| 3/10/2021 | 0.015 (J) | | | | | | | | |
| 3/11/2021 | | 0.015 (J) | 0.056 | 0.2 | | | | | |
| 3/12/2021 | | | | | | 1.1 | | 0.016 (J) | 1.5 |
| 3/15/2021 | | | | | 1.9 | | 0.4 | | |
| 8/11/2021 | 0.02 (J) | | | | | | | | |
| 8/12/2021 | | <0.04 | 0.044 | | | | | | |
| 8/13/2021 | | | | 0.19 | | | | | |
| 8/16/2021 | | | | | 2 | 1.1 | 0.44 | | |
| 8/19/2021 | | | | | | | | 0.011 (J) | 1.5 |
| 2/1/2022 | 0.016 (J) | 0.011 (J) | 0.056 | 0.17 | | | | | |
| 2/2/2022 | | | | | 1.6 | 0.91 | 0.33 | | |
| 2/3/2022 | | | | | | | | 0.016 (J) | 1.6 |
| 8/2/2022 | 0.012 (J) | <0.04 | 0.047 | 0.18 | | | | | |
| 8/4/2022 | | | | | 1.8 | 1 | 0.36 | 0.023 (J) | 1.4 |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-44D (bg) | HGWA-43D (bg) | HGWA-45D (bg) |
|------------|---------------|---------------|---------------|
| 5/19/2016 | | | |
| 7/11/2016 | | | |
| 7/12/2016 | | | |
| 8/30/2016 | | | |
| 8/31/2016 | | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/26/2016 | | | |
| 11/7/2016 | | | |
| 12/6/2016 | | | |
| 1/13/2017 | | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/27/2017 | | | |
| 3/21/2017 | | | |
| 5/22/2017 | | | |
| 5/25/2017 | | | |
| 6/3/2017 | | | |
| 8/11/2017 | | | |
| 10/2/2017 | | | |
| 10/3/2017 | | | |
| 11/15/2017 | | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | | | |
| 6/17/2019 | | | |
| 6/18/2019 | | | |
| 9/23/2019 | | | |
| 10/21/2019 | | | |
| 10/22/2019 | | | |
| 3/24/2020 | | | |
| 3/25/2020 | | | |
| 5/22/2020 | | | |
| 6/15/2020 | | | |
| 6/16/2020 | | | |
| 8/25/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | 0.23 | 0.061 (J) | |
| 9/18/2020 | | | |
| 9/21/2020 | | | |
| 9/25/2020 | | | 0.16 |
| 9/28/2020 | | | |
| 11/10/2020 | 0.29 | 0.057 (J) | |
| 11/11/2020 | | | 0.17 |
| 11/12/2020 | | | |
| 12/15/2020 | 0.31 | 0.052 (J) | |
| 12/16/2020 | | | 0.16 |

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-44D (bg) | HGWA-43D (bg) | HGWA-45D (bg) |
|-----------|---------------|---------------|---------------|
| 1/19/2021 | <0.04 | 0.049 (J) | |
| 1/20/2021 | | | 0.19 |
| 3/10/2021 | 0.39 | | |
| 3/11/2021 | | 0.06 | |
| 3/12/2021 | | | 0.19 |
| 3/15/2021 | | | |
| 8/11/2021 | | 0.042 | |
| 8/12/2021 | | | |
| 8/13/2021 | 0.31 | | 0.15 |
| 8/16/2021 | | | |
| 8/19/2021 | | | |
| 2/1/2022 | 0.44 | 0.05 | 0.14 |
| 2/2/2022 | | | |
| 2/3/2022 | | | |
| 8/2/2022 | 0.31 | 0.043 | 0.14 |
| 8/4/2022 | | | |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWA-122 (bg) | HGWC-121A | HGWC-120 | HGWC-124 | HGWC-126 | HGWC-125 |
|-----------|-------------|-------------|-------------|---------------|-----------|----------|----------|----------|----------|
| 1/19/2021 | | | | | | | | | |
| 1/20/2021 | | | | | | | | 131 | 177 (M1) |
| 3/10/2021 | 111 | | | | | | | | |
| 3/11/2021 | | 83.8 | 43.8 | 60.4 (M1) | | | | | |
| 3/12/2021 | | | | | | 174 | | 138 | 165 |
| 3/15/2021 | | | | | 167 | | 103 | | |
| 8/11/2021 | 113 | | | | | | | | |
| 8/12/2021 | | 84 | 21.9 | | | | | | |
| 8/13/2021 | | | | 62.9 | | | | | |
| 8/16/2021 | | | | | 162 | 171 | 106 | | |
| 8/19/2021 | | | | | | | | 139 | 196 |
| 2/1/2022 | 106 | 85.1 | 27.2 | 57.5 | | | | | |
| 2/2/2022 | | | | | 148 | 159 | 95.9 | | |
| 2/3/2022 | | | | | | | | 157 | 175 |
| 8/2/2022 | 117 | 84.6 | 31.2 | 69.5 | | | | | |
| 8/4/2022 | | | | | 160 | 173 | 103 | 141 | 170 |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-44D (bg) | HGWA-43D (bg) | HGWA-45D (bg) |
|------------|---------------|---------------|---------------|
| 5/19/2016 | | | |
| 7/11/2016 | | | |
| 7/12/2016 | | | |
| 8/30/2016 | | | |
| 8/31/2016 | | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/26/2016 | | | |
| 11/7/2016 | | | |
| 12/6/2016 | | | |
| 1/13/2017 | | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/27/2017 | | | |
| 3/21/2017 | | | |
| 5/22/2017 | | | |
| 5/25/2017 | | | |
| 6/3/2017 | | | |
| 8/11/2017 | | | |
| 10/2/2017 | | | |
| 10/3/2017 | | | |
| 11/15/2017 | | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | | | |
| 6/17/2019 | | | |
| 6/18/2019 | | | |
| 9/23/2019 | | | |
| 10/21/2019 | | | |
| 10/22/2019 | | | |
| 3/24/2020 | | | |
| 3/25/2020 | | | |
| 5/22/2020 | | | |
| 6/15/2020 | | | |
| 6/16/2020 | | | |
| 8/25/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | 30 | 56 | |
| 9/18/2020 | | | |
| 9/21/2020 | | | |
| 9/25/2020 | | | 56.8 |
| 9/28/2020 | | | |
| 11/10/2020 | 33.6 | 63.3 | |
| 11/11/2020 | | | 54.9 |
| 11/12/2020 | | | |
| 12/15/2020 | 28.7 | 62.6 | |
| 12/16/2020 | | | 56.4 |

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-44D (bg) | HGWA-43D (bg) | HGWA-45D (bg) |
|-----------|---------------|---------------|---------------|
| 1/19/2021 | 33 | 60.1 | |
| 1/20/2021 | | | 55 |
| 3/10/2021 | 18.3 | | |
| 3/11/2021 | | 59.6 | |
| 3/12/2021 | | | 56.5 |
| 3/15/2021 | | | |
| 8/11/2021 | | 61 | |
| 8/12/2021 | | | |
| 8/13/2021 | 28.9 | | 53 |
| 8/16/2021 | | | |
| 8/19/2021 | | | |
| 2/1/2022 | 24.8 | 55.9 | 51.3 |
| 2/2/2022 | | | |
| 2/3/2022 | | | |
| 8/2/2022 | 20.9 | 54.1 | 49.9 |
| 8/4/2022 | | | |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWA-122 (bg) | HGWC-121A | HGWC-120 | HGWC-124 | HGWC-126 | HGWC-125 |
|-----------|-------------|-------------|-------------|---------------|-----------|----------|----------|----------|----------|
| 1/19/2021 | | | | | | | | | |
| 1/20/2021 | | | | | | | | 8.5 | 10.2 |
| 3/10/2021 | 7.4 | | | | | | | | |
| 3/11/2021 | | 5.9 | 5.1 | 2.3 | | | | | |
| 3/12/2021 | | | | | | 2.4 | | 8.5 | 10.8 |
| 3/15/2021 | | | | | 21.8 | | 2.9 | | |
| 8/11/2021 | 9.6 | | | | | | | | |
| 8/12/2021 | | 4.8 | 5.2 | | | | | | |
| 8/13/2021 | | | | 2.6 | | | | | |
| 8/16/2021 | | | | | 18 | 2.4 | 2.6 | | |
| 8/19/2021 | | | | | | | | 7.8 | 4.5 |
| 2/1/2022 | 7.5 | 5.7 | 7 | 2.2 | | | | | |
| 2/2/2022 | | | | | 16.8 | 2.5 | 2.6 | | |
| 2/3/2022 | | | | | | | | 8.5 | 8.1 |
| 8/2/2022 | 14.1 | 5.9 | 7.8 | 2.7 | | | | | |
| 8/4/2022 | | | | | 15.4 | 2.7 | 2.6 | 8.7 | 11.6 |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|---------------|---------------|---------------|
| 5/19/2016 | | | |
| 7/11/2016 | | | |
| 7/12/2016 | | | |
| 8/30/2016 | | | |
| 8/31/2016 | | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/26/2016 | | | |
| 11/7/2016 | | | |
| 12/6/2016 | | | |
| 1/13/2017 | | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/27/2017 | | | |
| 3/21/2017 | | | |
| 5/22/2017 | | | |
| 5/25/2017 | | | |
| 6/3/2017 | | | |
| 8/11/2017 | | | |
| 10/2/2017 | | | |
| 10/3/2017 | | | |
| 11/15/2017 | | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | | | |
| 6/17/2019 | | | |
| 6/18/2019 | | | |
| 9/23/2019 | | | |
| 10/21/2019 | | | |
| 10/22/2019 | | | |
| 3/24/2020 | | | |
| 3/25/2020 | | | |
| 5/22/2020 | | | |
| 6/15/2020 | | | |
| 6/16/2020 | | | |
| 8/25/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | 4.1 | 4.1 | |
| 9/18/2020 | | | |
| 9/21/2020 | | | |
| 9/25/2020 | | | 3.6 |
| 9/28/2020 | | | |
| 11/10/2020 | 4.4 | 7.8 | |
| 11/11/2020 | | | 3.3 |
| 11/12/2020 | | | |
| 12/15/2020 | 4.7 | 9.4 | |
| 12/16/2020 | | | 3.4 |

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|-----------|---------------|---------------|---------------|
| 1/19/2021 | 4.1 | 9.5 | |
| 1/20/2021 | | | 3.5 |
| 3/10/2021 | | 12.3 | |
| 3/11/2021 | 4.5 | | |
| 3/12/2021 | | | 3.3 |
| 3/15/2021 | | | |
| 8/11/2021 | 3.5 | | |
| 8/12/2021 | | | |
| 8/13/2021 | | 39.9 | 3.3 |
| 8/16/2021 | | | |
| 8/19/2021 | | | |
| 2/1/2022 | 4.1 | 44.8 | 3.5 |
| 2/2/2022 | | | |
| 2/3/2022 | | | |
| 8/2/2022 | 4.3 | 19.8 | 3.9 |
| 8/4/2022 | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWA-122 (bg) | HGWC-120 | HGWC-124 | HGWC-121A | HGWC-125 | HGWC-126 |
|------------|-------------|-------------|-------------|---------------|----------|-----------|-----------|----------|----------|
| 5/19/2016 | 0.105 (J) | 0.0513 (J) | 0.0303 (J) | | | | | | |
| 7/11/2016 | 0.16 (J) | | 0.05 (J) | | | | | | |
| 7/12/2016 | | 0.12 (J) | | | | | | | |
| 8/30/2016 | 0.09 (J) | 0.09 (J) | 0.06 (J) | 0.19 (J) | | | | | |
| 8/31/2016 | | | | | 0.65 | 0.15 (J) | 0.14 (J) | | |
| 10/19/2016 | 0.1 (J) | 0.1 (J) | 0.04 (J) | | | | | | |
| 10/20/2016 | | | | 0.13 (J) | | | | | |
| 10/26/2016 | | | | | 0.6 | 0.3 | | | |
| 11/7/2016 | | | | | | | | | 0.18 (J) |
| 12/6/2016 | 0.11 (J) | 0.21 (J) | 0.36 | | | | | | |
| 1/13/2017 | | | | | | | | | 0.14 (J) |
| 1/24/2017 | 0.09 (J) | 0.06 (J) | <0.1 | | | | | | |
| 1/25/2017 | | | | 0.22 (J) | | | | | |
| 1/27/2017 | | | | | 1.2 | 0.3 | | | |
| 3/21/2017 | 0.13 (J) | 0.005 (J) | <0.1 | | | | | | |
| 5/22/2017 | 0.12 (J) | 0.05 (J) | <0.1 | | | | | | |
| 5/25/2017 | | | | 0.12 (J) | 1.4 | 0.05 (J) | | | |
| 6/3/2017 | | | | | | | | | 0.15 (J) |
| 8/11/2017 | | | | 0.12 (J) | | 0.1 (J) | | | |
| 10/2/2017 | | | | | 1 | | | 1.2 | |
| 10/3/2017 | 0.13 (J) | 0.13 (J) | <0.1 | | | | | | |
| 11/15/2017 | | | | 0.05 (J) | 1.3 | <0.1 | | 0.6 | |
| 4/2/2018 | <0.1 | | <0.1 | | | | | | |
| 4/3/2018 | | <0.1 | | | | | | | |
| 6/4/2018 | 0.074 (J) | <0.1 | <0.1 | | | | | | |
| 6/5/2018 | | | | 0.15 (J) | 0.48 | 0.078 (J) | | | 0.19 (J) |
| 10/1/2018 | <0.1 | <0.1 | <0.1 | | | | | | |
| 10/2/2018 | | | | 0.22 (J) | 0.34 | 0.078 (J) | | | |
| 10/5/2018 | | | | | | | | | 0.23 (J) |
| 3/12/2019 | 0.29 (J) | 0.072 (J) | 0.038 (J) | | | | | | |
| 4/1/2019 | | 0.029 (J) | | | | | | | |
| 4/2/2019 | 0.1 (J) | | 0.071 (J) | 0.2 (J) | 0.47 | | | | |
| 4/3/2019 | | | | | | 0.089 (J) | | | 0.14 (J) |
| 6/17/2019 | | | | | 1.2 | | | | |
| 6/18/2019 | | | | 0.14 (J) | | | | | |
| 8/22/2019 | | | | 0.12 (J) | 0.3 (J) | | | | 0.2 (J) |
| 8/23/2019 | | | | | | 0.11 (J) | | | |
| 9/23/2019 | 0.078 (J) | <0.1 | <0.1 | | | | | | |
| 10/21/2019 | | | | 0.15 (J) | | 0.073 (J) | | | 0.18 (J) |
| 10/22/2019 | | | | | 0.53 | | | | |
| 3/2/2020 | 0.076 (J) | <0.1 | <0.1 | | | | | | |
| 3/24/2020 | | | | 0.085 (J) | | <0.1 | | | |
| 3/25/2020 | 0.098 (J) | <0.1 | <0.1 | | 0.43 | | 0.095 (J) | | |
| 5/22/2020 | | | | | | | | 0.1 (J) | 0.46 |
| 6/15/2020 | | | | | 0.37 | | | | |
| 6/16/2020 | 0.071 (J) | <0.1 | | | | | | 0.12 | 0.44 |
| 8/24/2020 | | | | 0.075 (J) | | | | | |
| 8/25/2020 | | <0.1 | <0.1 | | | | | 0.16 | 0.52 |
| 8/26/2020 | | | | | 0.48 | | 0.16 | | |
| 8/27/2020 | | | | | | <0.1 | | | |
| 8/28/2020 | 0.08 (J) | | | | | | | | |
| 9/15/2020 | 0.082 (J) | <0.1 | <0.1 | 0.096 (J) | | | | | |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
 Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWA-122 (bg) | HGWC-120 | HGWC-124 | HGWC-121A | HGWC-125 | HGWC-126 |
|------------|-------------|-------------|-------------|---------------|----------|-----------|-----------|----------|----------|
| 9/16/2020 | | | | | | | | | |
| 9/18/2020 | | | | | | | | | 0.43 |
| 9/21/2020 | | | | | 0.33 | | | 0.11 | |
| 9/25/2020 | | | | | | | | | |
| 9/28/2020 | | | | | | <0.1 | 0.15 | | |
| 11/10/2020 | | | | | | | | | |
| 11/11/2020 | | | | | | | | | 0.45 |
| 11/12/2020 | | | | | | | | 0.12 | |
| 12/15/2020 | | | | | | | | | |
| 12/16/2020 | | | | | | | | 0.2 | 0.49 |
| 1/19/2021 | | | | | | | | | |
| 1/20/2021 | | | | | | | | 0.13 | 0.44 |
| 3/10/2021 | 0.079 (J) | | | | | | | | |
| 3/11/2021 | | <0.1 | 0.1 | 0.059 (J) | | | | | |
| 3/12/2021 | | | | | 0.42 | | | 0.12 | 0.46 |
| 3/15/2021 | | | | | | <0.1 | 0.16 | | |
| 8/11/2021 | 0.058 (J) | | | | | | | | |
| 8/12/2021 | | <0.1 | <0.1 | | | | | | |
| 8/13/2021 | | | | 0.065 (J) | | | | | |
| 8/16/2021 | | | | | 0.39 | <0.1 | 0.15 | | |
| 8/19/2021 | | | | | | | | 0.17 | 0.43 |
| 2/1/2022 | 0.064 (J) | <0.1 | <0.1 | 0.062 (J) | | | | | |
| 2/2/2022 | | | | | 0.36 | <0.1 | 0.15 | | |
| 2/3/2022 | | | | | | | | 0.18 | 0.51 |
| 8/2/2022 | 0.09 (J) | 0.067 (J) | 0.053 (J) | 0.1 | | | | | |
| 8/4/2022 | | | | | 0.38 | 0.074 (J) | 0.18 | 0.15 | 0.5 |

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

HGWA-44D (bg) HGWA-43D (bg) HGWA-45D (bg)

5/19/2016
7/11/2016
7/12/2016
8/30/2016
8/31/2016
10/19/2016
10/20/2016
10/26/2016
11/7/2016
12/6/2016
1/13/2017
1/24/2017
1/25/2017
1/27/2017
3/21/2017
5/22/2017
5/25/2017
6/3/2017
8/11/2017
10/2/2017
10/3/2017
11/15/2017
4/2/2018
4/3/2018
6/4/2018
6/5/2018
10/1/2018
10/2/2018
10/5/2018
3/12/2019
4/1/2019
4/2/2019
4/3/2019
6/17/2019
6/18/2019
8/22/2019
8/23/2019
9/23/2019
10/21/2019
10/22/2019
3/2/2020
3/24/2020
3/25/2020
5/22/2020
6/15/2020
6/16/2020
8/24/2020
8/25/2020
8/26/2020
8/27/2020
8/28/2020
9/15/2020

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-44D (bg) | HGWA-43D (bg) | HGWA-45D (bg) |
|------------|---------------|---------------|---------------|
| 9/16/2020 | 0.22 | 0.22 | |
| 9/18/2020 | | | |
| 9/21/2020 | | | |
| 9/25/2020 | | | 0.21 |
| 9/28/2020 | | | |
| 11/10/2020 | 0.59 | 0.19 | |
| 11/11/2020 | | | 0.19 |
| 11/12/2020 | | | |
| 12/15/2020 | 0.67 | 0.21 | |
| 12/16/2020 | | | 0.18 |
| 1/19/2021 | 0.74 | 0.16 | |
| 1/20/2021 | | | 0.22 |
| 3/10/2021 | 0.65 | | |
| 3/11/2021 | | 0.2 | |
| 3/12/2021 | | | 0.2 |
| 3/15/2021 | | | |
| 8/11/2021 | | 0.15 | |
| 8/12/2021 | | | |
| 8/13/2021 | 0.87 | | 0.2 |
| 8/16/2021 | | | |
| 8/19/2021 | | | |
| 2/1/2022 | 0.96 | 0.19 | 0.15 |
| 2/2/2022 | | | |
| 2/3/2022 | | | |
| 8/2/2022 | 0.8 | 0.22 | 0.21 |
| 8/4/2022 | | | |

Prediction Limit

Constituent: pH (s.u.) Analysis Run 10/20/2022 6:56 PM View: A3 PL
 Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWA-122 (bg) | HGWC-120 | HGWC-124 | HGWC-121A | HGWC-125 | HGWC-126 |
|------------|-------------|-------------|-------------|---------------|----------|----------|-----------|----------|----------|
| 9/21/2020 | | | | | 6.98 | | | 6.22 | |
| 9/25/2020 | | | | | | | | | |
| 9/28/2020 | | | | | | 7.27 | 6.93 | | |
| 11/10/2020 | | | | | | | | | |
| 11/11/2020 | | | | | | | | | 6.86 |
| 11/12/2020 | | | | | | | | 6.13 | |
| 12/15/2020 | | | | | | | | | |
| 12/16/2020 | | | | | | | | 6.61 | 6.93 |
| 1/19/2021 | | | | | | | | | |
| 1/20/2021 | | | | | | | | 6.23 | 6.99 |
| 3/10/2021 | 6.95 | | | | | | | | |
| 3/11/2021 | | 7.33 | 5.8 | 6.65 | | | | | |
| 3/12/2021 | | | | | 6.95 | | | 6.18 | 7.05 |
| 3/15/2021 | | | | | | 7.22 | 6.87 | | |
| 8/11/2021 | 6.98 | | | | | | | | |
| 8/12/2021 | | 7.31 | 5.05 | | | | | | |
| 8/13/2021 | | | | 6.56 | | | | | |
| 8/16/2021 | | | | | 6.92 | 7.09 | 6.74 | | |
| 8/19/2021 | | | | | | | | 7.24 | 7.32 |
| 2/1/2022 | 7.19 | 7.45 | 5.24 | 6.57 | | | | | |
| 2/2/2022 | | | | | 7 | 7.28 | 6.92 | | |
| 2/3/2022 | | | | | | | | 6.56 | 7.01 |
| 8/2/2022 | 7.03 | 7.02 | 4.57 | 6.67 | | | | | |
| 8/4/2022 | | | | | 6.93 | 7.15 | 6.8 | 6.09 | 6.99 |

Prediction Limit

Constituent: pH (s.u.) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-44D (bg) | HGWA-43D (bg) | HGWA-45D (bg) |
|------------|---------------|---------------|---------------|
| 5/19/2016 | | | |
| 7/11/2016 | | | |
| 7/12/2016 | | | |
| 8/30/2016 | | | |
| 8/31/2016 | | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/27/2016 | | | |
| 11/7/2016 | | | |
| 12/6/2016 | | | |
| 1/13/2017 | | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/27/2017 | | | |
| 3/21/2017 | | | |
| 5/22/2017 | | | |
| 5/25/2017 | | | |
| 6/3/2017 | | | |
| 8/11/2017 | | | |
| 10/2/2017 | | | |
| 10/3/2017 | | | |
| 11/15/2017 | | | |
| 4/2/2018 | | | |
| 4/3/2018 | | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/5/2018 | | | |
| 3/12/2019 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | | | |
| 8/22/2019 | | | |
| 8/23/2019 | | | |
| 9/23/2019 | | | |
| 10/21/2019 | | | |
| 10/22/2019 | | | |
| 3/2/2020 | | | |
| 3/24/2020 | | | |
| 3/25/2020 | | | |
| 5/22/2020 | | | |
| 6/15/2020 | | | |
| 6/16/2020 | | | |
| 8/24/2020 | | | |
| 8/25/2020 | | | |
| 8/26/2020 | | | |
| 8/27/2020 | | | |
| 8/28/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | 7.83 | 7.52 | |
| 9/18/2020 | | | |

Prediction Limit

Constituent: pH (s.u.) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-44D (bg) | HGWA-43D (bg) | HGWA-45D (bg) |
|------------|---------------|---------------|---------------|
| 9/21/2020 | | | |
| 9/25/2020 | | | 7.57 |
| 9/28/2020 | | | |
| 11/10/2020 | 7.84 | 7.27 | |
| 11/11/2020 | | | 7.4 |
| 11/12/2020 | | | |
| 12/15/2020 | 7.87 | 7.39 | |
| 12/16/2020 | | | 7.39 |
| 1/19/2021 | 7.86 | 7.39 | |
| 1/20/2021 | | | 7.47 |
| 3/10/2021 | 7.92 | | |
| 3/11/2021 | | 7.46 | |
| 3/12/2021 | | | 7.52 |
| 3/15/2021 | | | |
| 8/11/2021 | | 7.4 | |
| 8/12/2021 | | | |
| 8/13/2021 | 7.77 | | 7.42 |
| 8/16/2021 | | | |
| 8/19/2021 | | | |
| 2/1/2022 | 8.25 | 7.52 | 7.45 |
| 2/2/2022 | | | |
| 2/3/2022 | | | |
| 8/2/2022 | 7.9 | 7.15 | 7.39 |
| 8/4/2022 | | | |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWA-122 (bg) | HGWC-121A | HGWC-120 | HGWC-124 | HGWC-126 | HGWC-125 |
|------------|-------------|-------------|-------------|---------------|-----------|----------|----------|----------|----------|
| 5/19/2016 | 66.9 | 42.3 | 48.6 | | | | | | |
| 7/11/2016 | 41 | | 45 | | | | | | |
| 7/12/2016 | | 44 | | | | | | | |
| 8/30/2016 | 36 | 40 | 42 | 49 | | | | | |
| 8/31/2016 | | | | | 280 | 290 | 72 | | |
| 10/19/2016 | 46 | 43 | 44 | | | | | | |
| 10/20/2016 | | | | 49 | | | | | |
| 10/26/2016 | | | | | | 280 | 71 | | |
| 11/7/2016 | | | | | 300 | | | | |
| 12/6/2016 | 59 | 43 | 44 | | | | | | |
| 1/13/2017 | | | | | 270 | | | | |
| 1/24/2017 | 46 | 48 | 46 | | | | | | |
| 1/25/2017 | | | | 48 | | | | | |
| 1/27/2017 | | | | | | 290 | 74 | | |
| 3/21/2017 | 63 | 45 | 46 | | | | | | |
| 5/22/2017 | 77 | 46 | 48 | | | | | | |
| 5/25/2017 | | | | 48 | | 280 | 73 | | |
| 6/3/2017 | | | | | 270 | | | | |
| 8/11/2017 | | | | 47 | | | 71 | | |
| 10/2/2017 | | | | | 330 | 300 | | | |
| 10/3/2017 | 42 | 48 | 47 | | | | | | |
| 11/15/2017 | | | | 49 | 280 | 300 | 70 | | |
| 6/4/2018 | 71.8 | 46.6 | 47.8 | | | | | | |
| 6/5/2018 | | | | 48.9 | 241 | 273 | 74 | | |
| 10/1/2018 | 49.1 | 48.6 | 48.1 | | | | | | |
| 10/2/2018 | | | | 48.6 | | 328 | 80.7 | | |
| 10/5/2018 | | | | | 271 | | | | |
| 4/1/2019 | | 50.4 | | | | | | | |
| 4/2/2019 | 84.3 | | 48.7 | 39.6 | | 256 | | | |
| 4/3/2019 | | | | | 230 | | 75.2 | | |
| 6/17/2019 | | | | | 219 | 243 | | | |
| 6/18/2019 | | | | 44.5 | | | 75.3 | | |
| 9/23/2019 | 70.2 | 43.9 | 47.2 | | | | | | |
| 10/21/2019 | | | | 45.6 | 238 | | 78.5 | | |
| 10/22/2019 | | | | | | 266 | | | |
| 3/24/2020 | | | | 25.9 | | | 74.6 | | |
| 3/25/2020 | 85.9 | 50.5 | 46.3 | | 116 | 226 | | | |
| 5/22/2020 | | | | | | | | 56.1 | 345 |
| 6/15/2020 | | | | | | 212 | | | |
| 6/16/2020 | 88.2 | 49.5 | | | | | | 57.6 | 320 |
| 8/25/2020 | | | | | | | | 62.8 | 353 |
| 9/15/2020 | 47.3 | 44.7 | 51.5 | 41.4 | | | | | |
| 9/16/2020 | | | | | | | | | |
| 9/18/2020 | | | | | | | | 62.7 | |
| 9/21/2020 | | | | | | 225 | | | 352 |
| 9/25/2020 | | | | | | | | | |
| 9/28/2020 | | | | | 182 | | 86.2 | | |
| 11/10/2020 | | | | | | | | | |
| 11/11/2020 | | | | | | | | 62.3 | |
| 11/12/2020 | | | | | | | | | 300 |
| 12/15/2020 | | | | | | | | | |
| 12/16/2020 | | | | | | | | 68.1 | 306 |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWA-122 (bg) | HGWC-121A | HGWC-120 | HGWC-124 | HGWC-126 | HGWC-125 |
|-----------|-------------|-------------|-------------|---------------|-----------|----------|----------|----------|----------|
| 1/19/2021 | | | | | | | | | |
| 1/20/2021 | | | | | | | | 66.6 | 335 |
| 3/10/2021 | 49.6 | | | | | | | | |
| 3/11/2021 | | 50.4 | 52.9 | 40.7 | | | | | |
| 3/12/2021 | | | | | | 210 | | 69.7 | 293 |
| 3/15/2021 | | | | | 177 | | 74 | | |
| 8/11/2021 | 48.9 | | | | | | | | |
| 8/12/2021 | | 38.6 | 47.4 | | | | | | |
| 8/13/2021 | | | | 42.1 | | | | | |
| 8/16/2021 | | | | | 158 | 211 | 74 | | |
| 8/19/2021 | | | | | | | | 64.4 | 264 |
| 2/1/2022 | 43.7 | 46 | 67.1 | 41.1 | | | | | |
| 2/2/2022 | | | | | 147 | 201 | 70.7 | | |
| 2/3/2022 | | | | | | | | 66.8 | 304 |
| 8/2/2022 | 58.1 | 43.5 | 86.9 | 41.5 | | | | | |
| 8/4/2022 | | | | | 162 | 230 | 73.1 | 68.3 | 331 |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-44D (bg) | HGWA-43D (bg) | HGWA-45D (bg) |
|------------|---------------|---------------|---------------|
| 5/19/2016 | | | |
| 7/11/2016 | | | |
| 7/12/2016 | | | |
| 8/30/2016 | | | |
| 8/31/2016 | | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/26/2016 | | | |
| 11/7/2016 | | | |
| 12/6/2016 | | | |
| 1/13/2017 | | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/27/2017 | | | |
| 3/21/2017 | | | |
| 5/22/2017 | | | |
| 5/25/2017 | | | |
| 6/3/2017 | | | |
| 8/11/2017 | | | |
| 10/2/2017 | | | |
| 10/3/2017 | | | |
| 11/15/2017 | | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | | | |
| 6/17/2019 | | | |
| 6/18/2019 | | | |
| 9/23/2019 | | | |
| 10/21/2019 | | | |
| 10/22/2019 | | | |
| 3/24/2020 | | | |
| 3/25/2020 | | | |
| 5/22/2020 | | | |
| 6/15/2020 | | | |
| 6/16/2020 | | | |
| 8/25/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | 43 | 43 | |
| 9/18/2020 | | | |
| 9/21/2020 | | | |
| 9/25/2020 | | | 6.8 |
| 9/28/2020 | | | |
| 11/10/2020 | 6.3 | 39 | |
| 11/11/2020 | | | 11.2 |
| 11/12/2020 | | | |
| 12/15/2020 | 6.7 | 38.8 | |
| 12/16/2020 | | | 11.3 |

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-44D (bg) | HGWA-43D (bg) | HGWA-45D (bg) |
|-----------|---------------|---------------|---------------|
| 1/19/2021 | 7.4 | 37.3 | |
| 1/20/2021 | | | 14.2 |
| 3/10/2021 | <1 | | |
| 3/11/2021 | | 38.6 | |
| 3/12/2021 | | | 8.7 |
| 3/15/2021 | | | |
| 8/11/2021 | | 30.5 | |
| 8/12/2021 | | | |
| 8/13/2021 | 56.1 | | 8.1 |
| 8/16/2021 | | | |
| 8/19/2021 | | | |
| 2/1/2022 | 56.3 | 37.5 | 2.5 |
| 2/2/2022 | | | |
| 2/3/2022 | | | |
| 8/2/2022 | 13.2 | 37 | 2.1 |
| 8/4/2022 | | | |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWA-122 (bg) | HGWC-121A | HGWC-120 | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|-------------|-------------|-------------|---------------|-----------|----------|----------|----------|----------|
| 5/19/2016 | 421 | 267 | 143 | | | | | | |
| 7/11/2016 | 363 | | 125 | | | | | | |
| 7/12/2016 | | 249 | | | | | | | |
| 8/30/2016 | 330 | 254 | 168 | 280 | | | | | |
| 8/31/2016 | | | | | 876 | 700 | 379 | | |
| 10/19/2016 | 380 | 357 | 176 | | | | | | |
| 10/20/2016 | | | | 265 | | | | | |
| 10/26/2016 | | | | | | 795 | 409 | | |
| 11/7/2016 | | | | | 1000 | | | | |
| 12/6/2016 | 377 | 285 | 145 | | | | | | |
| 1/13/2017 | | | | | 827 | | | | |
| 1/24/2017 | 342 | 300 | 129 | | | | | | |
| 1/25/2017 | | | | 371 | | | | | |
| 1/27/2017 | | | | | | 706 | 370 | | |
| 3/21/2017 | 340 | 288 | 103 | | | | | | |
| 5/22/2017 | 338 | 263 | 92 | | | | | | |
| 5/25/2017 | | | | 237 | | 669 | 351 | | |
| 6/3/2017 | | | | | 846 | | | | |
| 8/11/2017 | | | | 253 | | | 322 | | |
| 10/2/2017 | | | | | 884 | 672 | | | |
| 10/3/2017 | 343 | 300 | 127 | | | | | | |
| 11/15/2017 | | | | 261 | 838 | 721 | 350 | | |
| 6/4/2018 | 415 | 266 | 140 | | | | | | |
| 6/5/2018 | | | | 276 | 823 | 723 | 360 | | |
| 10/1/2018 | 354 | 291 | 135 | | | | | | |
| 10/2/2018 | | | | 256 | | 703 | 363 | | |
| 10/5/2018 | | | | | 813 | | | | |
| 4/1/2019 | | 284 | | | | | | | |
| 4/2/2019 | 452 | | 133 | 814 (o) | | 540 | | | |
| 4/3/2019 | | | | | 785 | | 369 | | |
| 6/17/2019 | | | | | 751 | | | | |
| 6/18/2019 | | | | 233 | | | | | |
| 9/23/2019 | 442 | 268 | 129 | | | | | | |
| 10/21/2019 | | | | 296 | 771 | | 357 | | |
| 10/22/2019 | | | | | | 693 | | | |
| 3/24/2020 | | | | 278 | | | 355 | | |
| 3/25/2020 | 496 | 284 | 138 | | 521 | 665 | | | |
| 5/22/2020 | | | | | | | | 809 | 496 |
| 6/15/2020 | | | | | | 685 | | | |
| 6/16/2020 | 632 | 448 | | | | | | 665 | 508 |
| 8/25/2020 | | | | | | | | 772 | 505 |
| 9/15/2020 | 265 | 258 | 124 | 267 | | | | | |
| 9/16/2020 | | | | | | | | | |
| 9/18/2020 | | | | | | | | | 452 |
| 9/21/2020 | | | | | | 272 | | 956 | |
| 9/25/2020 | | | | | | | | | |
| 9/28/2020 | | | | | <10 | | 176 | | |
| 11/10/2020 | | | | | | | | | |
| 11/11/2020 | | | | | | | | | 468 |
| 11/12/2020 | | | | | | | 694 | | |
| 12/15/2020 | | | | | | | | | |
| 12/16/2020 | | | | | | | 816 | | 536 |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-1 (bg) | HGWA-3 (bg) | HGWA-2 (bg) | HGWA-122 (bg) | HGWC-121A | HGWC-120 | HGWC-124 | HGWC-125 | HGWC-126 |
|-----------|-------------|-------------|-------------|---------------|-----------|----------|----------|----------|----------|
| 1/19/2021 | | | | | | | | | |
| 1/20/2021 | | | | | | | | 726 | 472 |
| 3/10/2021 | 348 | | | | | | | | |
| 3/11/2021 | | 267 | 169 | 206 | | | | | |
| 3/12/2021 | | | | | | 584 | | 664 | 474 |
| 3/15/2021 | | | | | 614 | | 340 | | |
| 8/11/2021 | 366 | | | | | | | | |
| 8/12/2021 | | 265 | 118 | | | | | | |
| 8/13/2021 | | | | 201 | | | | | |
| 8/16/2021 | | | | | 626 | 632 | 352 | | |
| 8/19/2021 | | | | | | | | 732 | 488 |
| 2/1/2022 | 270 | 350 | 156 | 203 | | | | | |
| 2/2/2022 | | | | | 638 | 612 | 347 | | |
| 2/3/2022 | | | | | | | | 726 | 466 |
| 8/2/2022 | 400 | 287 | 196 | 217 | | | | | |
| 8/4/2022 | | | | | 640 | 632 | 334 | 706 | 510 |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|------------|---------------|---------------|---------------|
| 5/19/2016 | | | |
| 7/11/2016 | | | |
| 7/12/2016 | | | |
| 8/30/2016 | | | |
| 8/31/2016 | | | |
| 10/19/2016 | | | |
| 10/20/2016 | | | |
| 10/26/2016 | | | |
| 11/7/2016 | | | |
| 12/6/2016 | | | |
| 1/13/2017 | | | |
| 1/24/2017 | | | |
| 1/25/2017 | | | |
| 1/27/2017 | | | |
| 3/21/2017 | | | |
| 5/22/2017 | | | |
| 5/25/2017 | | | |
| 6/3/2017 | | | |
| 8/11/2017 | | | |
| 10/2/2017 | | | |
| 10/3/2017 | | | |
| 11/15/2017 | | | |
| 6/4/2018 | | | |
| 6/5/2018 | | | |
| 10/1/2018 | | | |
| 10/2/2018 | | | |
| 10/5/2018 | | | |
| 4/1/2019 | | | |
| 4/2/2019 | | | |
| 4/3/2019 | | | |
| 6/17/2019 | | | |
| 6/18/2019 | | | |
| 9/23/2019 | | | |
| 10/21/2019 | | | |
| 10/22/2019 | | | |
| 3/24/2020 | | | |
| 3/25/2020 | | | |
| 5/22/2020 | | | |
| 6/15/2020 | | | |
| 6/16/2020 | | | |
| 8/25/2020 | | | |
| 9/15/2020 | | | |
| 9/16/2020 | 272 | 270 | |
| 9/18/2020 | | | |
| 9/21/2020 | | | |
| 9/25/2020 | | | 263 |
| 9/28/2020 | | | |
| 11/10/2020 | 307 | 287 | |
| 11/11/2020 | | | 276 |
| 11/12/2020 | | | |
| 12/15/2020 | 289 | 295 | |
| 12/16/2020 | | | 294 |

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/20/2022 6:56 PM View: A3 PL
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWA-43D (bg) | HGWA-44D (bg) | HGWA-45D (bg) |
|-----------|---------------|---------------|---------------|
| 1/19/2021 | 270 | 278 | |
| 1/20/2021 | | | 289 |
| 3/10/2021 | | 289 | |
| 3/11/2021 | 279 | | |
| 3/12/2021 | | | 260 |
| 3/15/2021 | | | |
| 8/11/2021 | 277 | | |
| 8/12/2021 | | | |
| 8/13/2021 | | 436 | 272 |
| 8/16/2021 | | | |
| 8/19/2021 | | | |
| 2/1/2022 | 156 | 444 | 268 |
| 2/2/2022 | | | |
| 2/3/2022 | | | |
| 8/2/2022 | 278 | 311 | 261 |
| 8/4/2022 | | | |

FIGURE E.

Appendix III Trend Test - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-3 Printed 10/20/2022, 7:00 PM

| Constituent | Well | Slope | Calc. | Critical | Sig. | N | %NDs | Normality | Xform | Alpha | Method |
|-------------------------------|---------------|----------|-------|----------|------|----|-------|-----------|-------|-------|--------|
| Boron (mg/L) | HGWA-122 (bg) | -0.02454 | -84 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-2 (bg) | 0.002545 | 111 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-120 | -0.04213 | -73 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-121A | -0.2499 | -96 | -63 | Yes | 17 | 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 |
| Calcium (mg/L) | HGWC-121A | -5.681 | -68 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-126 | 13.84 | 40 | 34 | Yes | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-122 (bg) | -1.483 | -76 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-2 (bg) | 1.619 | 101 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-120 | -16.59 | -98 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-121A | -25.95 | -96 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-121A | -52.05 | -94 | -63 | Yes | 17 | 5.882 | n/a | n/a | 0.01 | NP |

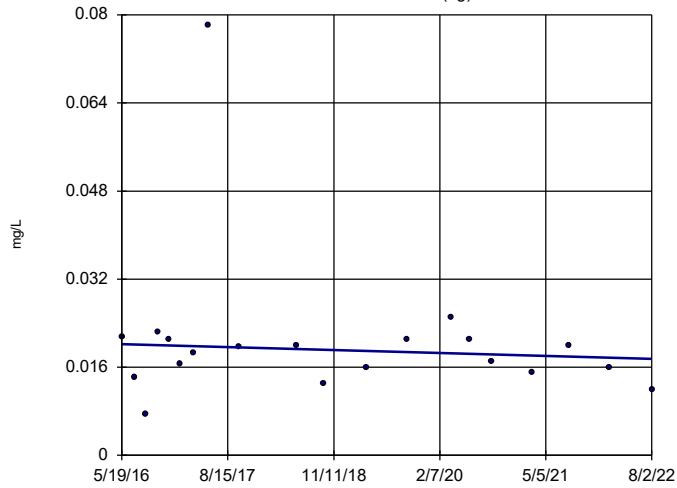
Appendix III Trend Test - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-3 Printed 10/20/2022, 7:00 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 |
| Boron (mg/L) | HGWA-122 (bg) | -0.02454 | -84 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-2 (bg) | 0.002545 | 111 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-3 (bg) | 0.0003378 | 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) | 0.1016 | 13 | 21 | No | 8 | 12.5 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWA-45D (bg) | -0.01353 | -11 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-120 | -0.04213 | -73 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-121A | -0.2499 | -96 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Boron (mg/L) | HGWC-125 | 0 | 8 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-1 (bg) | 2.653 | 61 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-122 (bg) | -2.468 | -40 | -63 | No | 17 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-2 (bg) | 0.7505 | 51 | 74 | No | 19 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-3 (bg) | 2.436 | 99 | 81 | Yes | 20 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-43D (bg) | -3.927 | -14 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-44D (bg) | -5.744 | -14 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWA-45D (bg) | -3.572 | -18 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-120 | 1.46 | 33 | 68 | No | 18 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-121A | -5.681 | -68 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-125 | 8.147 | 10 | 34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |
| Calcium (mg/L) | HGWC-126 | 13.84 | 40 | 34 | Yes | 11 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-1 (bg) | 1.779 | 35 | 81 | No | 20 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-122 (bg) | -1.483 | -76 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-2 (bg) | 1.619 | 101 | 74 | Yes | 19 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-3 (bg) | 0.673 | 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 | 8 | 21 | No | 8 | 12.5 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWA-45D (bg) | -4.804 | -12 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-120 | -16.59 | -98 | -68 | Yes | 18 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-121A | -25.95 | -96 | -63 | Yes | 17 | 0 | n/a | n/a | 0.01 | NP |
| Sulfate (mg/L) | HGWC-125 | -27.92 | -21 | -34 | No | 11 | 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-122 (bg) | -11.75 | -48 | -58 | No | 16 | 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 |
| Total Dissolved Solids (mg/L) | HGWA-45D (bg) | -7.51 | -8 | -21 | No | 8 | 0 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-121A | -52.05 | -94 | -63 | Yes | 17 | 5.882 | n/a | n/a | 0.01 | NP |
| Total Dissolved Solids (mg/L) | HGWC-125 | -33.98 | -12 | -34 | No | 11 | 0 | n/a | n/a | 0.01 | NP |

Sen's Slope Estimator

HGWA-1 (bg)

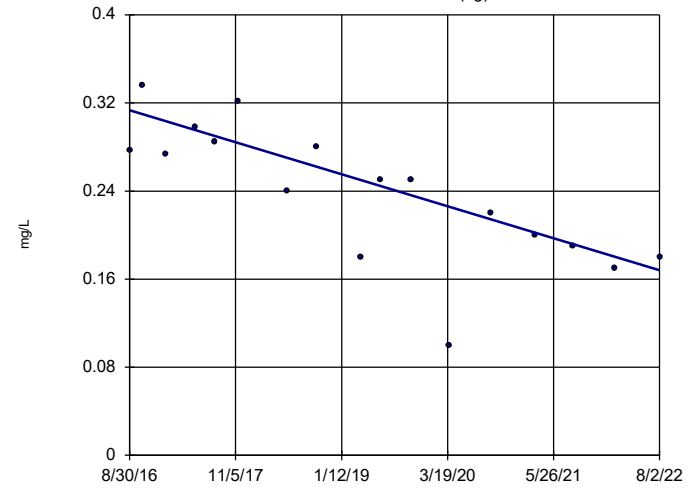


n = 20
 Slope = -0.0004303
 units per year.
 Mann-Kendall
 statistic = -27
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWA-122 (bg)

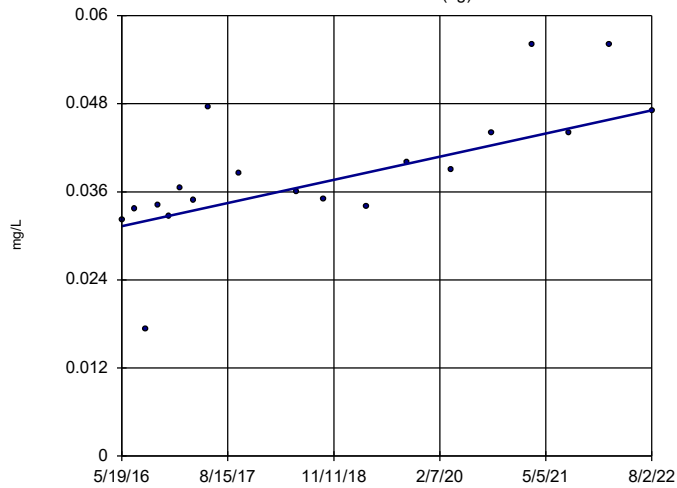


n = 17
 Slope = -0.02454
 units per year.
 Mann-Kendall
 statistic = -84
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWA-2 (bg)



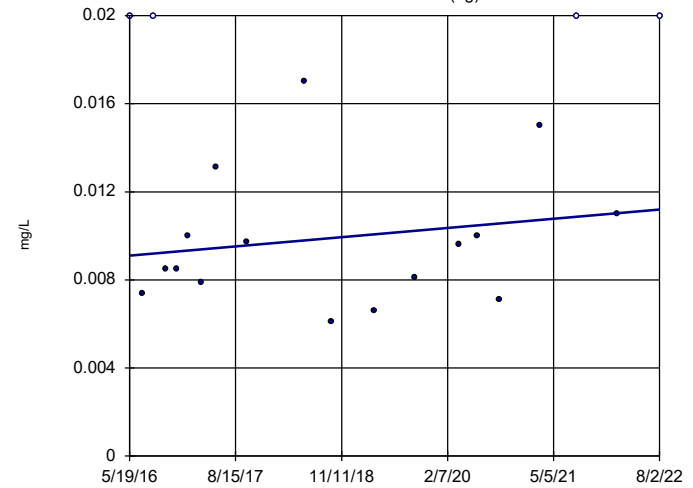
n = 19
 Slope = 0.002545
 units per year.
 Mann-Kendall
 statistic = 111
 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-3 (bg)

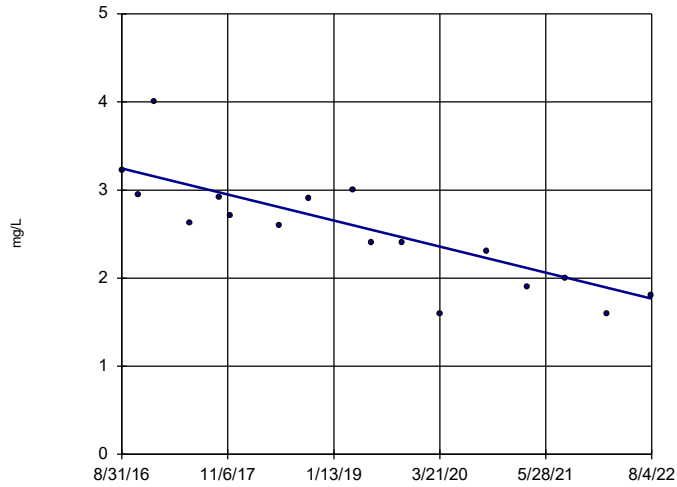


n = 20
 Slope = 0.0003378
 units per year.
 Mann-Kendall
 statistic = 22
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWC-121A

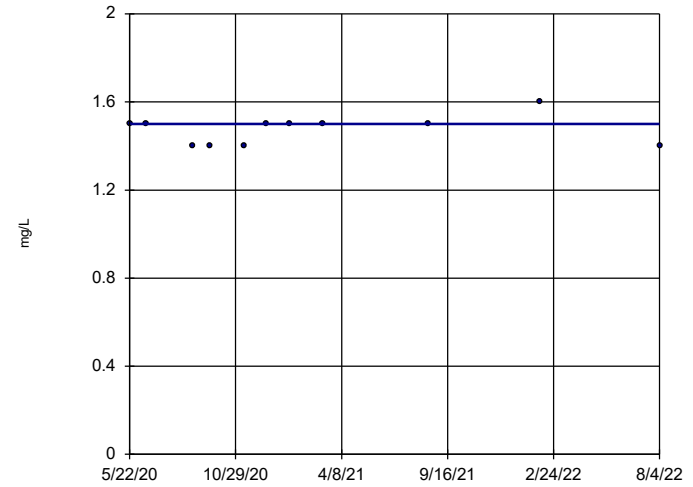


n = 17
 Slope = -0.2499
 units per year.
 Mann-Kendall
 statistic = -96
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

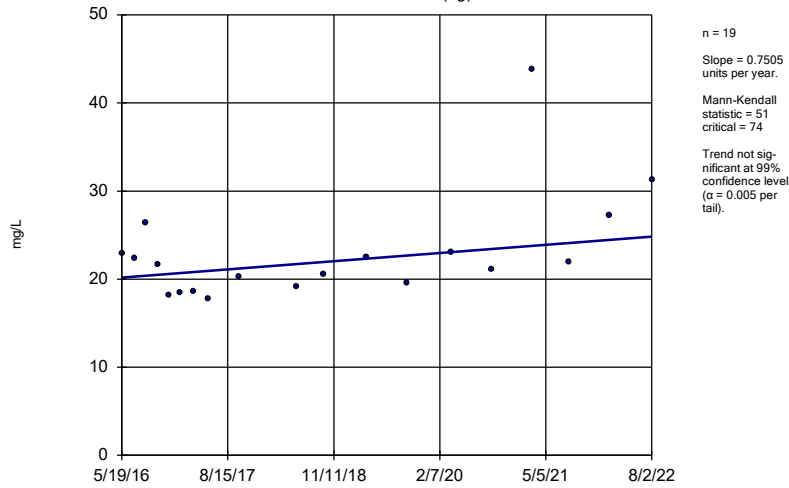
Sen's Slope Estimator

HGWC-125



Sen's Slope Estimator

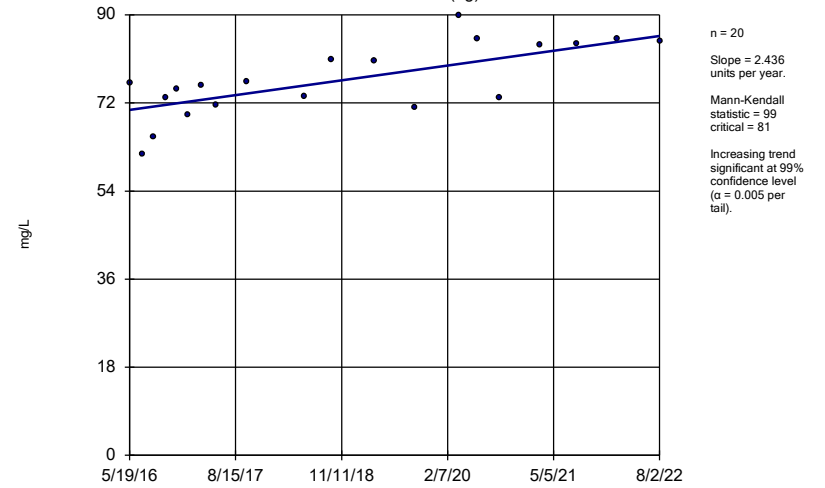
HGWA-2 (bg)



Constituent: Calcium Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

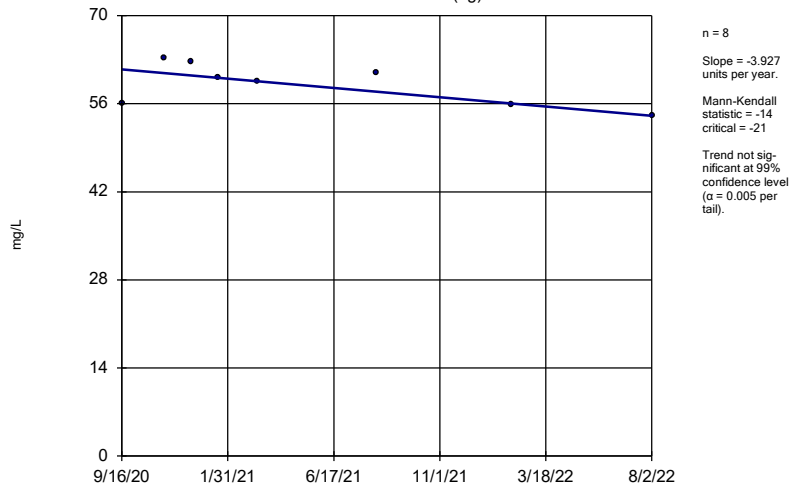
HGWA-3 (bg)



Constituent: Calcium Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

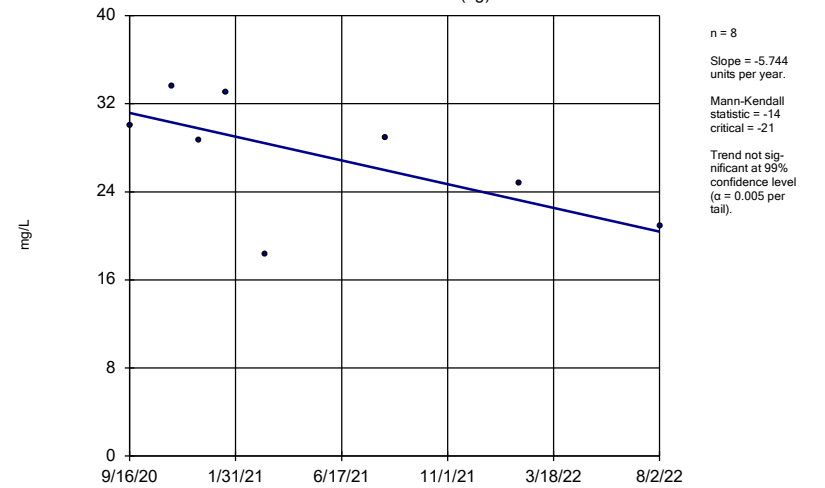
HGWA-43D (bg)



Constituent: Calcium Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

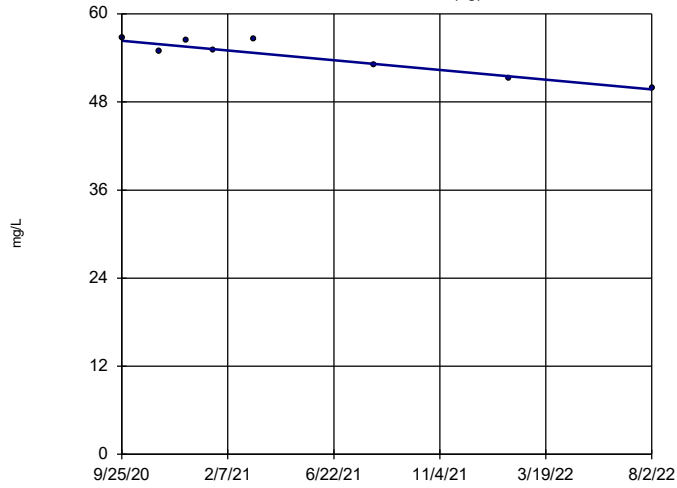
HGWA-44D (bg)



Constituent: Calcium Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWA-45D (bg)

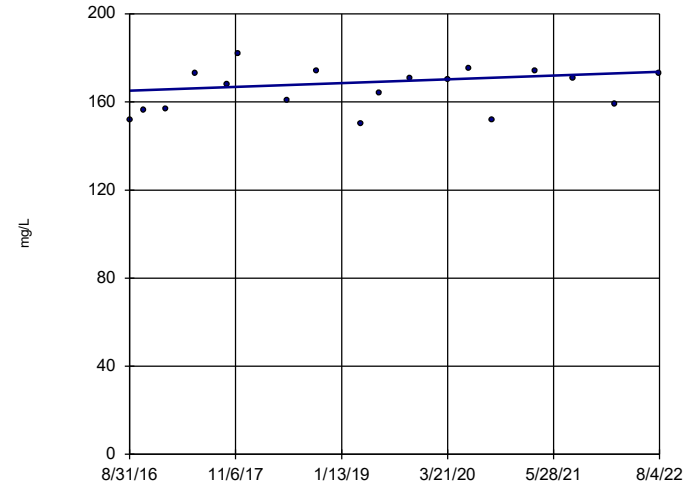


n = 8
 Slope = -3.572 units per year.
 Mann-Kendall statistic = -18
 critical = -21
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWC-120

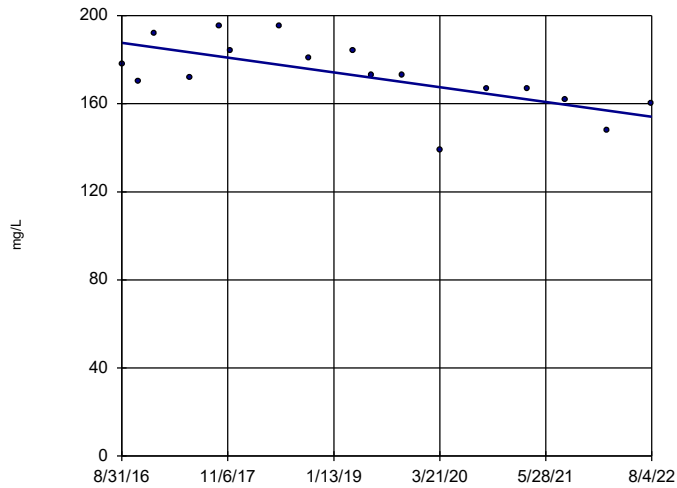


n = 18
 Slope = 1.46 units per year.
 Mann-Kendall statistic = 33
 critical = 68
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWC-121A

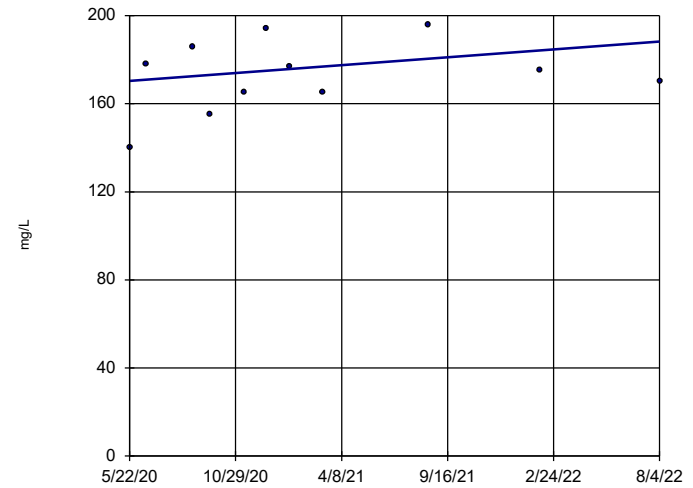


n = 17
 Slope = -5.681 units per year.
 Mann-Kendall statistic = -68
 critical = -63
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWC-125

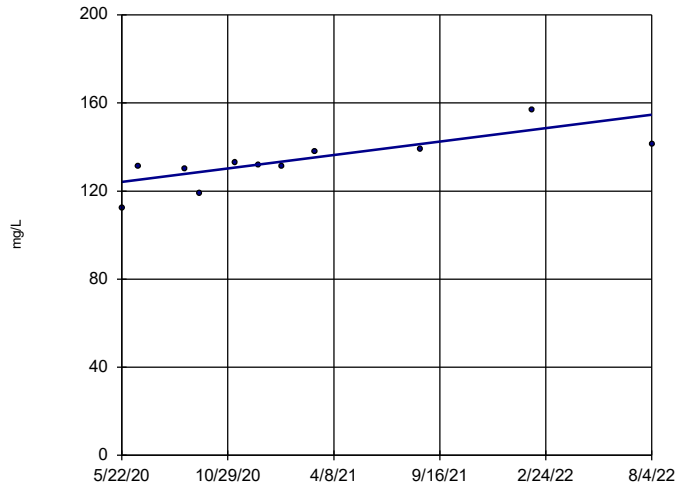


n = 11
 Slope = 8.147 units per year.
 Mann-Kendall statistic = 10
 critical = 34
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWC-126

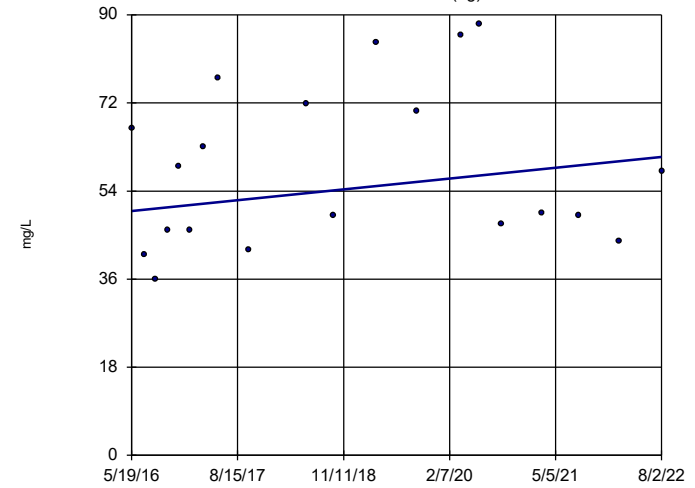


n = 11
 Slope = 13.84 units per year.
 Mann-Kendall statistic = 40
 critical = 34
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWA-1 (bg)

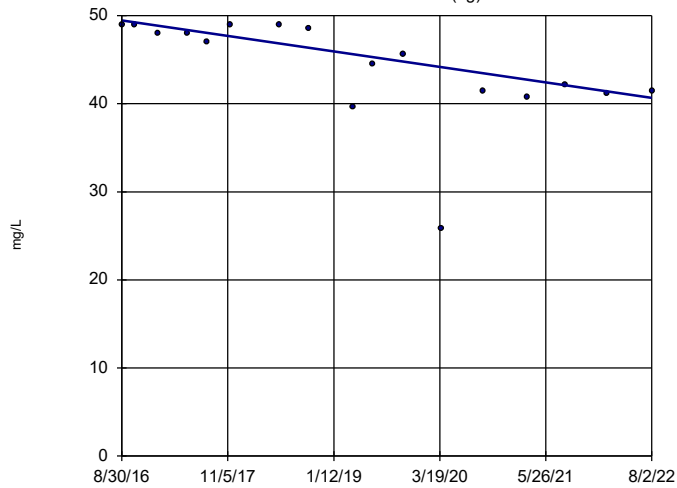


n = 20
 Slope = 1.779 units per year.
 Mann-Kendall statistic = 35
 critical = 81
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWA-122 (bg)

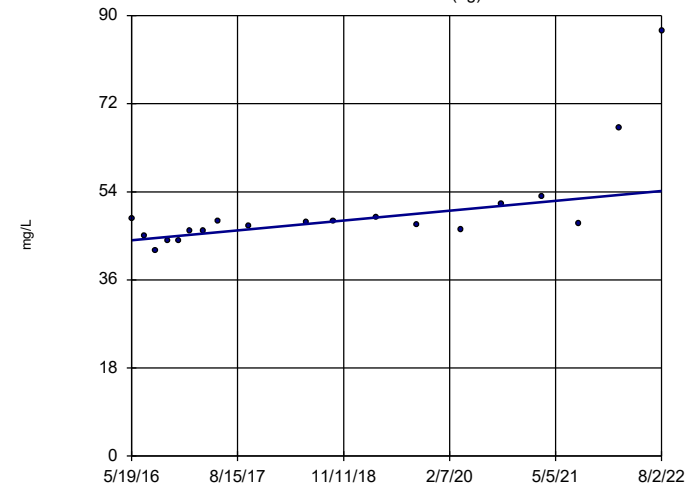


n = 17
 Slope = -1.483 units per year.
 Mann-Kendall statistic = -76
 critical = -63
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWA-2 (bg)

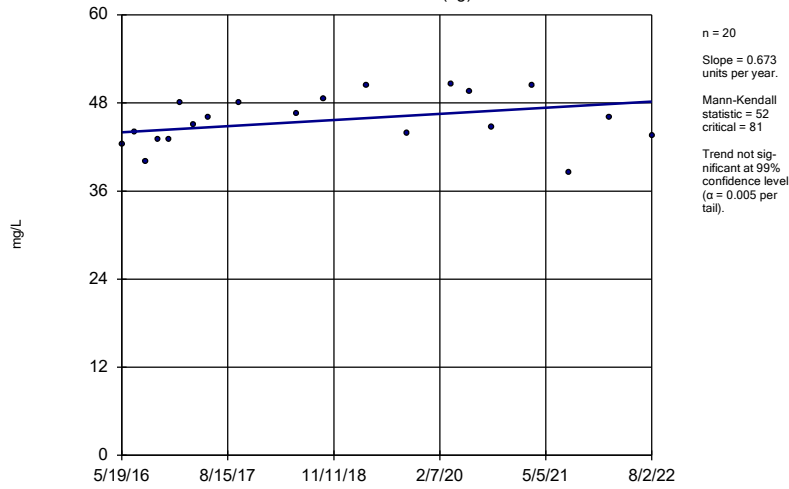


n = 19
 Slope = 1.619 units per year.
 Mann-Kendall statistic = 101
 critical = 74
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

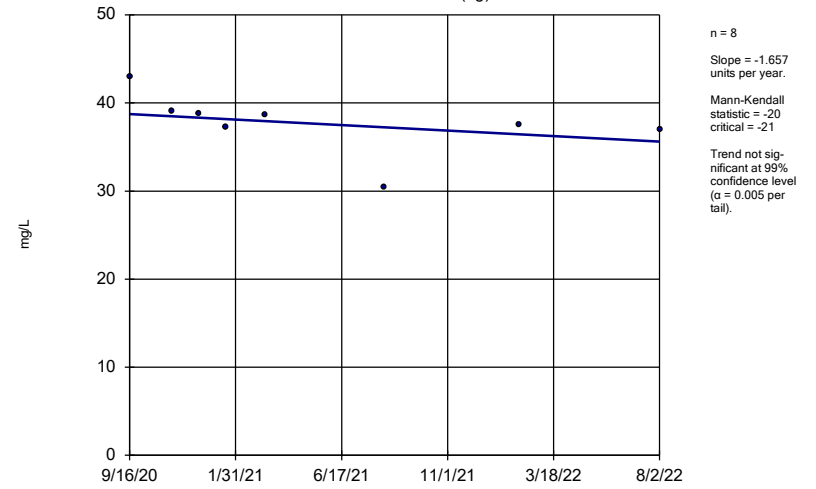
HGWA-3 (bg)



Constituent: Sulfate Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

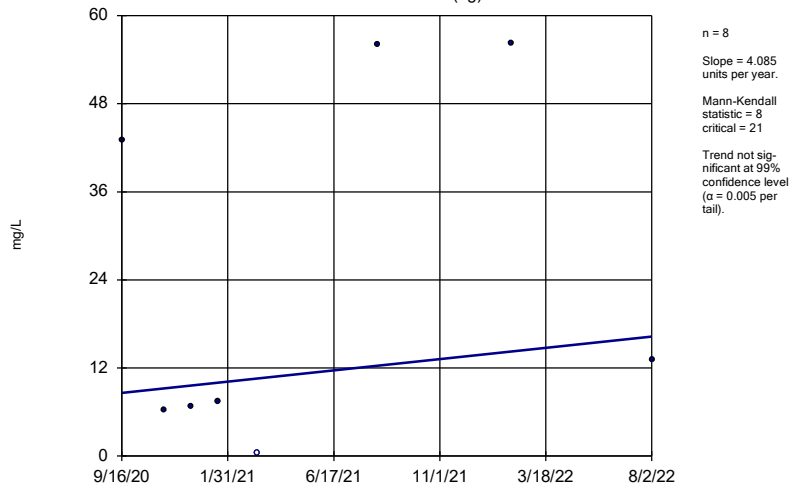
HGWA-43D (bg)



Constituent: Sulfate Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

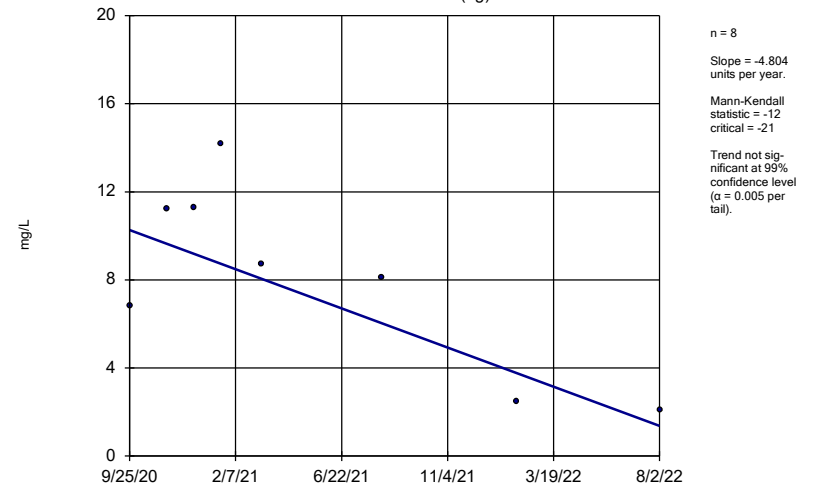
HGWA-44D (bg)



Constituent: Sulfate Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

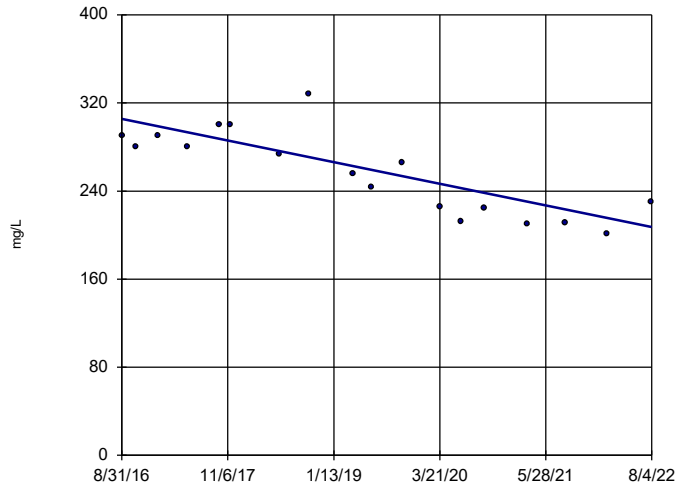
HGWA-45D (bg)



Constituent: Sulfate Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWC-120

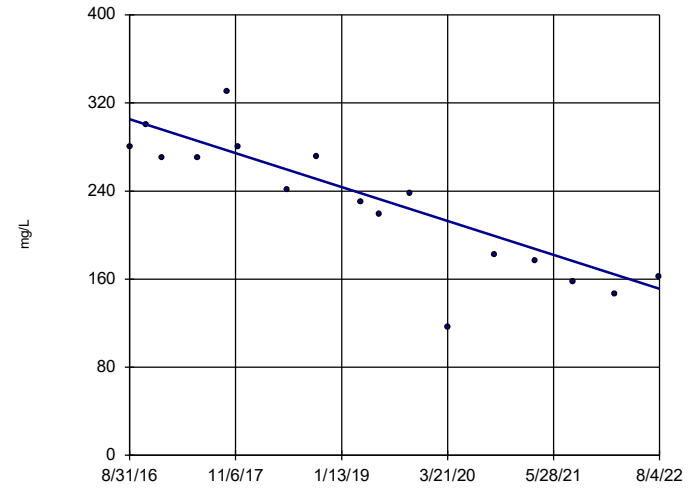


n = 18
 Slope = -16.59
 units per year.
 Mann-Kendall
 statistic = -.98
 critical = -.68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWC-121A

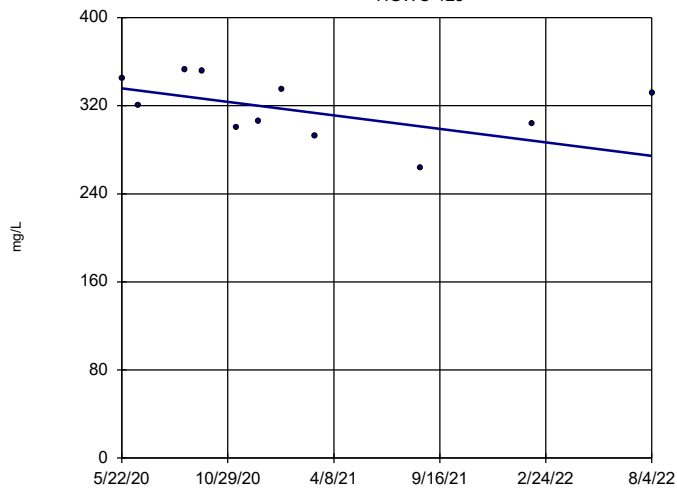


n = 17
 Slope = -25.95
 units per year.
 Mann-Kendall
 statistic = -.96
 critical = -.63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWC-125

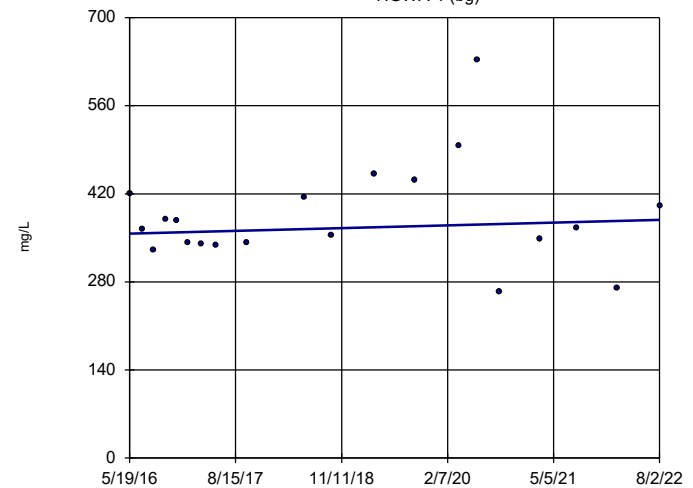


n = 11
 Slope = -27.92
 units per year.
 Mann-Kendall
 statistic = -.21
 critical = -.34
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWA-1 (bg)

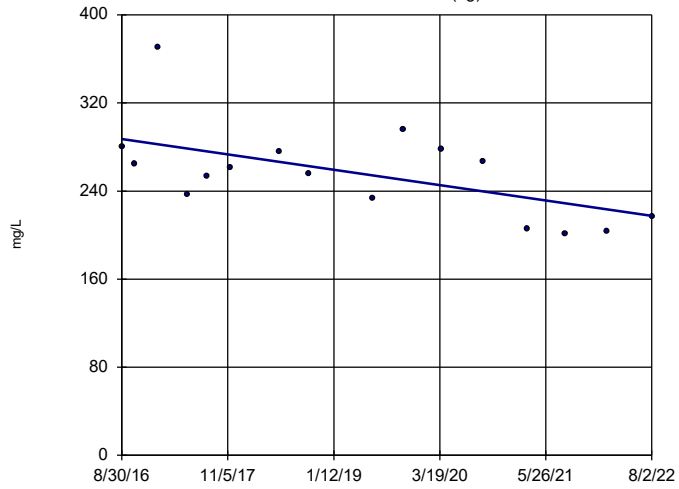


n = 20
 Slope = 3.538
 units per year.
 Mann-Kendall
 statistic = .14
 critical = .81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWA-122 (bg)

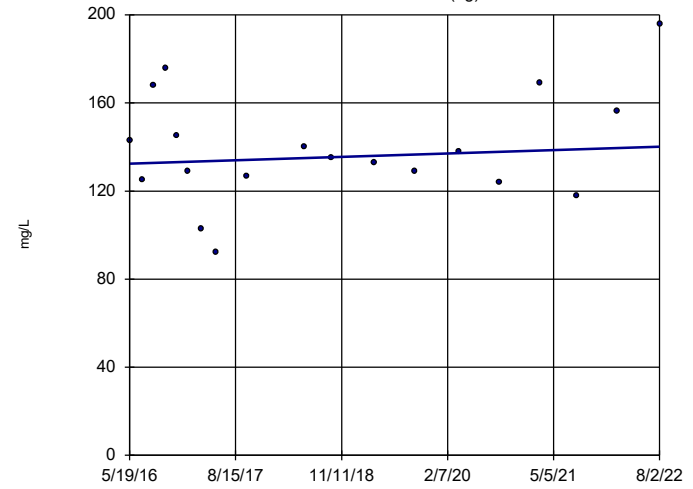


n = 16
 Slope = -11.75
 units per year.
 Mann-Kendall
 statistic = -48
 critical = -58
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWA-2 (bg)

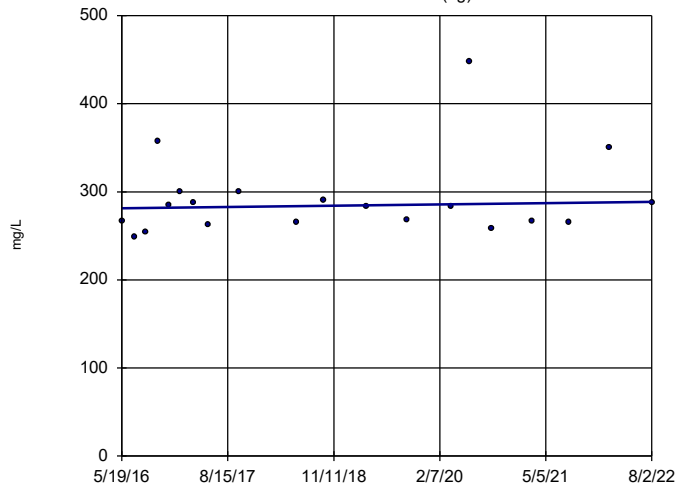


n = 19
 Slope = 1.249
 units per year.
 Mann-Kendall
 statistic = 6
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWA-3 (bg)

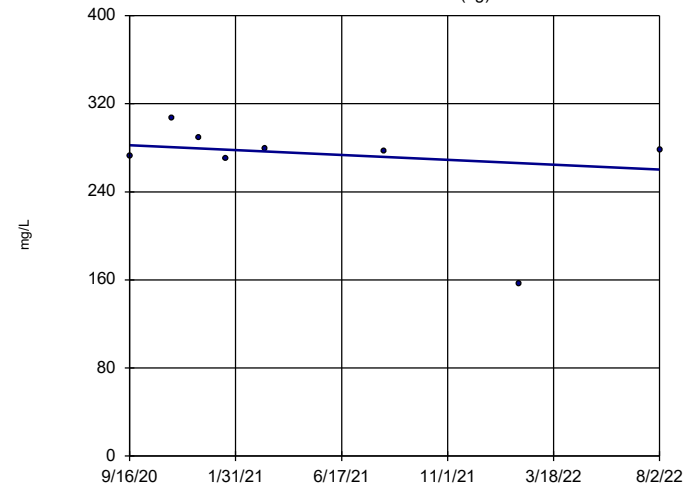


n = 20
 Slope = 1.162
 units per year.
 Mann-Kendall
 statistic = 17
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWA-43D (bg)

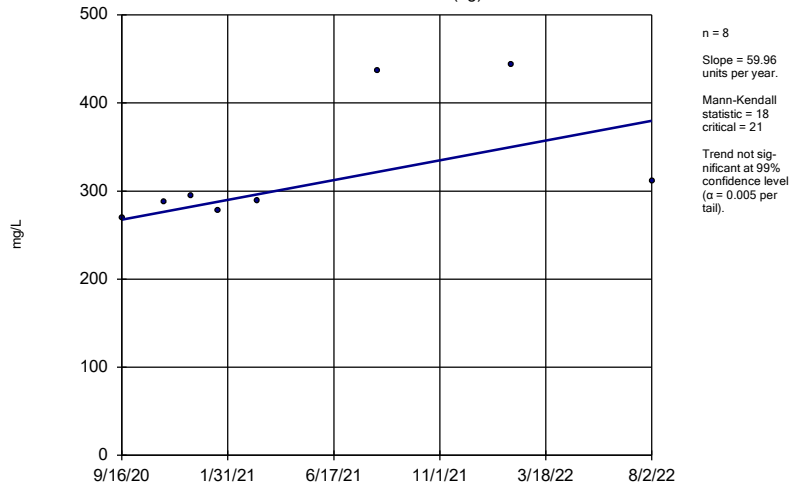


n = 8
 Slope = -11.77
 units per year.
 Mann-Kendall
 statistic = -8
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Total Dissolved Solids Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

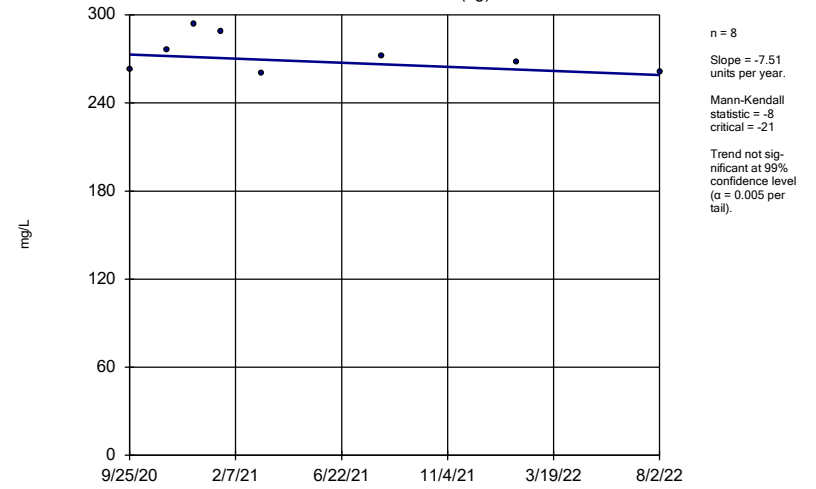
HGWA-44D (bg)



Constituent: Total Dissolved Solids Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

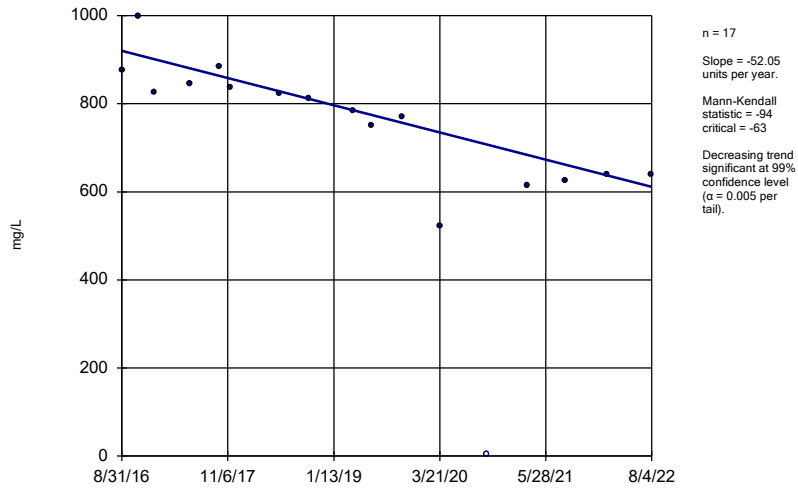
HGWA-45D (bg)



Constituent: Total Dissolved Solids Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

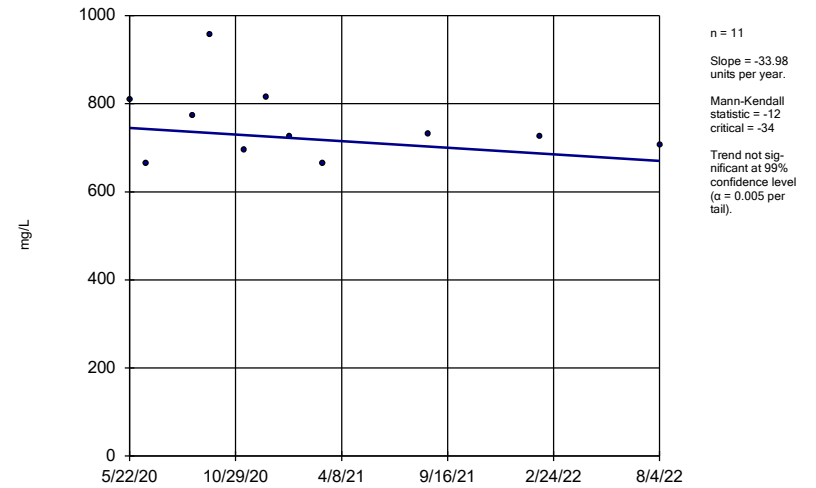
HGWC-121A



Constituent: Total Dissolved Solids Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-3

Sen's Slope Estimator

HGWC-125



Constituent: Total Dissolved Solids Analysis Run 10/20/2022 6:59 PM View: A3 Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-3

FIGURE F.

Upper Tolerance Limits

Plant Hammond Client: Southern Company Data: Hammond AP-3 Printed 10/20/2022, 7:13 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 | 99 | n/a | n/a | 84.85 | n/a | n/a | 0.006232 | NP Inter(NDs) |
| Arsenic (mg/L) | n/a | 0.005 | n/a | n/a | n/a | 97 | n/a | n/a | 70.1 | n/a | n/a | 0.006905 | NP Inter(NDs) |
| Barium (mg/L) | n/a | 0.64 | n/a | n/a | n/a | 107 | n/a | n/a | 0.9346 | n/a | n/a | 0.004135 | NP Inter(normality) |
| Beryllium (mg/L) | n/a | 0.0005 | n/a | n/a | n/a | 99 | n/a | n/a | 82.83 | n/a | n/a | 0.006232 | NP Inter(NDs) |
| Cadmium (mg/L) | n/a | 0.0005 | n/a | n/a | n/a | 97 | n/a | n/a | 88.66 | n/a | n/a | 0.006905 | NP Inter(NDs) |
| Chromium (mg/L) | n/a | 0.0079 | n/a | n/a | n/a | 101 | n/a | n/a | 78.22 | n/a | n/a | 0.005625 | NP Inter(NDs) |
| Cobalt (mg/L) | n/a | 0.038 | n/a | n/a | n/a | 107 | n/a | n/a | 77.57 | n/a | n/a | 0.004135 | NP Inter(NDs) |
| Combined Radium 226 + 228 (pCi/L) | n/a | 1.648 | n/a | n/a | n/a | 100 | 0.787 | 0.2581 | 0 | None | sqrt(x) | 0.05 | Inter |
| Fluoride (mg/L) | n/a | 0.96 | n/a | n/a | n/a | 114 | n/a | n/a | 24.56 | n/a | n/a | 0.002887 | NP Inter(normality) |
| Lead (mg/L) | n/a | 0.001 | n/a | n/a | n/a | 101 | n/a | n/a | 67.33 | n/a | n/a | 0.005625 | NP Inter(NDs) |
| Lithium (mg/L) | n/a | 0.048 | n/a | n/a | n/a | 107 | n/a | n/a | 32.71 | n/a | n/a | 0.004135 | NP Inter(normality) |
| Mercury (mg/L) | n/a | 0.0002 | n/a | n/a | n/a | 79 | n/a | n/a | 93.67 | n/a | n/a | 0.01738 | NP Inter(NDs) |
| Molybdenum (mg/L) | n/a | 0.01 | n/a | n/a | n/a | 109 | n/a | n/a | 66.97 | n/a | n/a | 0.003731 | NP Inter(NDs) |
| Selenium (mg/L) | n/a | 0.005 | n/a | n/a | n/a | 97 | n/a | n/a | 97.94 | n/a | n/a | 0.006905 | NP Inter(NDs) |
| Thallium (mg/L) | n/a | 0.001 | n/a | n/a | n/a | 97 | n/a | n/a | 98.97 | n/a | n/a | 0.006905 | NP Inter(NDs) |

FIGURE G.

| PLANT HAMMOND AP-3 GWPS | | | | |
|--------------------------------|------------|---------------------------|-------------------------|-------------|
| Constituent Name | MCL | CCR-Rule Specified | Background Limit | GWPS |
| Antimony, Total (mg/L) | 0.006 | | 0.003 | 0.006 |
| Arsenic, Total (mg/L) | 0.01 | | 0.005 | 0.01 |
| Barium, Total (mg/L) | 2 | | 0.64 | 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 | | 1.65 | 5 |
| Fluoride, Total (mg/L) | 4 | | 0.96 | 4 |
| Lead, Total (mg/L) | n/a | 0.015 | 0.001 | 0.015 |
| Lithium, Total (mg/L) | n/a | 0.04 | 0.048 | 0.048 |
| Mercury, Total (mg/L) | 0.002 | | 0.0002 | 0.002 |
| Molybdenum, Total (mg/L) | n/a | 0.1 | 0.01 | 0.1 |
| Selenium, Total (mg/L) | 0.05 | | 0.005 | 0.05 |
| Thallium, Total (mg/L) | 0.002 | | 0.001 | 0.002 |

**Grey cell indicates background is higher than MCL or CCR-Rule*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

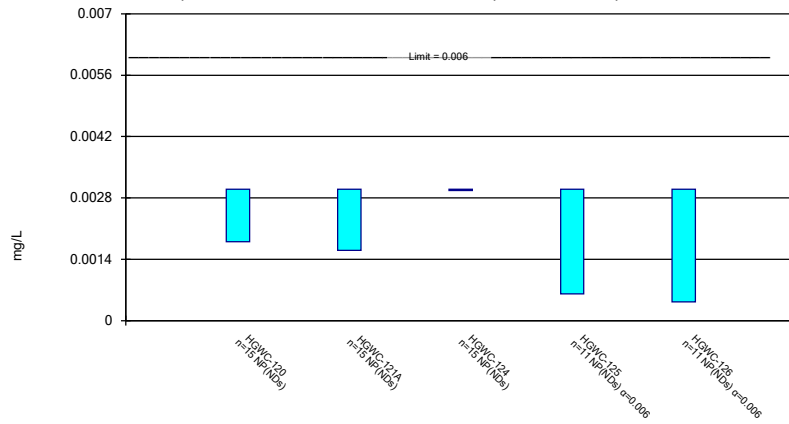
Confidence Interval - All Results (No Significant)

Plant Hammond Client: Southern Company Data: Hammond AP-3 Printed 11/1/2022, 9:54 AM

| Constituent | Well | Upper Lim. | Lower Lim. | Compliance | Sig. | N | %NDs | Transform | Alpha | Method |
|-----------------------------------|-----------|------------|------------|------------|------|----|-------|-----------|-------|----------------|
| Antimony (mg/L) | HGWC-120 | 0.003 | 0.0018 | 0.006 | No | 15 | 93.33 | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-121A | 0.003 | 0.0016 | 0.006 | No | 15 | 93.33 | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-124 | 0.003 | 0.003 | 0.006 | No | 15 | 100 | No | 0.01 | NP (NDs) |
| Antimony (mg/L) | HGWC-125 | 0.003 | 0.00061 | 0.006 | No | 11 | 81.82 | No | 0.006 | NP (NDs) |
| Antimony (mg/L) | HGWC-126 | 0.003 | 0.00043 | 0.006 | No | 11 | 81.82 | No | 0.006 | NP (NDs) |
| Arsenic (mg/L) | HGWC-120 | 0.005 | 0.001 | 0.01 | No | 13 | 61.54 | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-121A | 0.005 | 0.0014 | 0.01 | No | 13 | 76.92 | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-124 | 0.005 | 0.0006 | 0.01 | No | 13 | 92.31 | No | 0.01 | NP (NDs) |
| Arsenic (mg/L) | HGWC-125 | 0.005 | 0.0014 | 0.01 | No | 10 | 70 | No | 0.011 | NP (NDs) |
| Arsenic (mg/L) | HGWC-126 | 0.005 | 0.00091 | 0.01 | No | 10 | 70 | No | 0.011 | NP (NDs) |
| Barium (mg/L) | HGWC-120 | 0.05171 | 0.04652 | 2 | No | 17 | 0 | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-121A | 0.08026 | 0.06462 | 2 | No | 17 | 0 | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-124 | 0.0728 | 0.06747 | 2 | No | 17 | 0 | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-125 | 0.04629 | 0.0408 | 2 | No | 11 | 0 | No | 0.01 | Param. |
| Barium (mg/L) | HGWC-126 | 0.2562 | 0.2275 | 2 | No | 11 | 0 | No | 0.01 | Param. |
| Chromium (mg/L) | HGWC-120 | 0.005 | 0.0015 | 0.1 | No | 17 | 82.35 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-121A | 0.005 | 0.0005 | 0.1 | No | 17 | 94.12 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-124 | 0.005 | 0.00051 | 0.1 | No | 17 | 88.24 | No | 0.01 | NP (NDs) |
| Chromium (mg/L) | HGWC-125 | 0.005 | 0.00058 | 0.1 | No | 11 | 72.73 | No | 0.006 | NP (NDs) |
| Chromium (mg/L) | HGWC-126 | 0.005 | 0.005 | 0.1 | No | 11 | 90.91 | No | 0.006 | NP (NDs) |
| Cobalt (mg/L) | HGWC-120 | 0.004435 | 0.002982 | 0.038 | No | 17 | 0 | sqrt(x) | 0.01 | Param. |
| Cobalt (mg/L) | HGWC-121A | 0.005 | 0.0005 | 0.038 | No | 17 | 82.35 | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | HGWC-124 | 0.005 | 0.005 | 0.038 | No | 17 | 100 | No | 0.01 | NP (NDs) |
| Cobalt (mg/L) | HGWC-125 | 0.01265 | 0.007679 | 0.038 | No | 11 | 0 | No | 0.01 | Param. |
| Cobalt (mg/L) | HGWC-126 | 0.005 | 0.005 | 0.038 | No | 11 | 100 | No | 0.006 | NP (NDs) |
| Combined Radium 226 + 228 (pCi/L) | HGWC-120 | 1.087 | 0.6342 | 5 | No | 16 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-121A | 1.169 | 0.492 | 5 | No | 16 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-124 | 0.8959 | 0.5525 | 5 | No | 16 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-125 | 1.423 | 0.6226 | 5 | No | 10 | 0 | No | 0.01 | Param. |
| Combined Radium 226 + 228 (pCi/L) | HGWC-126 | 1.687 | 0.9815 | 5 | No | 10 | 0 | No | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-120 | 1 | 0.37 | 4 | No | 20 | 0 | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-121A | 0.2 | 0.14 | 4 | No | 18 | 0 | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-124 | 0.11 | 0.05 | 4 | No | 18 | 38.89 | No | 0.01 | NP (normality) |
| Fluoride (mg/L) | HGWC-125 | 0.1686 | 0.115 | 4 | No | 11 | 0 | No | 0.01 | Param. |
| Fluoride (mg/L) | HGWC-126 | 0.4938 | 0.4389 | 4 | No | 11 | 0 | No | 0.01 | Param. |
| Lead (mg/L) | HGWC-120 | 0.001 | 0.0002 | 0.015 | No | 17 | 82.35 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-121A | 0.001 | 0.00036 | 0.015 | No | 17 | 82.35 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-124 | 0.001 | 0.00008 | 0.015 | No | 17 | 70.59 | No | 0.01 | NP (NDs) |
| Lead (mg/L) | HGWC-125 | 0.001 | 0.000047 | 0.015 | No | 11 | 54.55 | No | 0.006 | NP (NDs) |
| Lead (mg/L) | HGWC-126 | 0.001 | 0.000045 | 0.015 | No | 11 | 72.73 | No | 0.006 | NP (NDs) |
| Lithium (mg/L) | HGWC-120 | 0.0337 | 0.023 | 0.048 | No | 17 | 0 | No | 0.01 | NP (normality) |
| Lithium (mg/L) | HGWC-121A | 0.00897 | 0.007677 | 0.048 | No | 17 | 0 | No | 0.01 | Param. |
| Lithium (mg/L) | HGWC-124 | 0.015 | 0.001 | 0.048 | No | 17 | 29.41 | No | 0.01 | NP (normality) |
| Lithium (mg/L) | HGWC-125 | 0.005757 | 0.00377 | 0.048 | No | 11 | 0 | No | 0.01 | Param. |
| Lithium (mg/L) | HGWC-126 | 0.004109 | 0.003236 | 0.048 | No | 11 | 0 | No | 0.01 | Param. |
| Mercury (mg/L) | HGWC-120 | 0.0002 | 0.00007 | 0.002 | No | 13 | 84.62 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-121A | 0.0002 | 0.0002 | 0.002 | No | 13 | 100 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-124 | 0.0002 | 0.000051 | 0.002 | No | 13 | 92.31 | No | 0.01 | NP (NDs) |
| Mercury (mg/L) | HGWC-125 | 0.0002 | 0.0002 | 0.002 | No | 10 | 100 | No | 0.011 | NP (NDs) |
| Mercury (mg/L) | HGWC-126 | 0.0002 | 0.0002 | 0.002 | No | 10 | 100 | No | 0.011 | NP (NDs) |
| Molybdenum (mg/L) | HGWC-120 | 0.03746 | 0.02651 | 0.1 | No | 17 | 0 | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-121A | 0.01 | 0.01 | 0.1 | No | 17 | 100 | No | 0.01 | NP (NDs) |
| Molybdenum (mg/L) | HGWC-124 | 0.01 | 0.00091 | 0.1 | No | 17 | 35.29 | No | 0.01 | NP (normality) |
| Molybdenum (mg/L) | HGWC-125 | 0.01036 | -0.0001221 | 0.1 | No | 11 | 27.27 | No | 0.01 | Param. |
| Molybdenum (mg/L) | HGWC-126 | 0.01 | 0.01 | 0.1 | No | 11 | 100 | No | 0.006 | NP (NDs) |
| Selenium (mg/L) | HGWC-120 | 0.005 | 0.002 | 0.05 | No | 13 | 92.31 | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-121A | 0.005 | 0.0011 | 0.05 | No | 13 | 92.31 | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-124 | 0.005 | 0.0014 | 0.05 | No | 13 | 92.31 | No | 0.01 | NP (NDs) |
| Selenium (mg/L) | HGWC-125 | 0.005 | 0.005 | 0.05 | No | 10 | 100 | No | 0.011 | NP (NDs) |
| Selenium (mg/L) | HGWC-126 | 0.005 | 0.005 | 0.05 | No | 10 | 100 | No | 0.011 | NP (NDs) |

Non-Parametric Confidence Interval

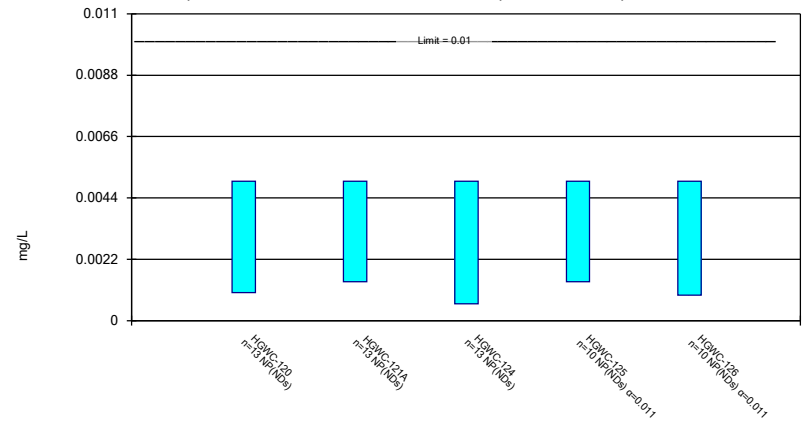
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Antimony Analysis Run 11/1/2022 9:52 AM View: Confidence Interval
Plant Hammond Client: Southern Company Data: Hammond AP-3

Non-Parametric Confidence Interval

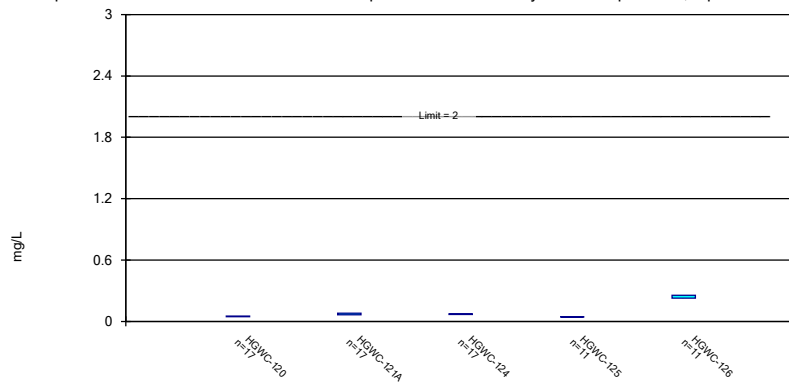
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Arsenic Analysis Run 11/1/2022 9:52 AM View: Confidence Interval
Plant Hammond Client: Southern Company Data: Hammond AP-3

Parametric Confidence Interval

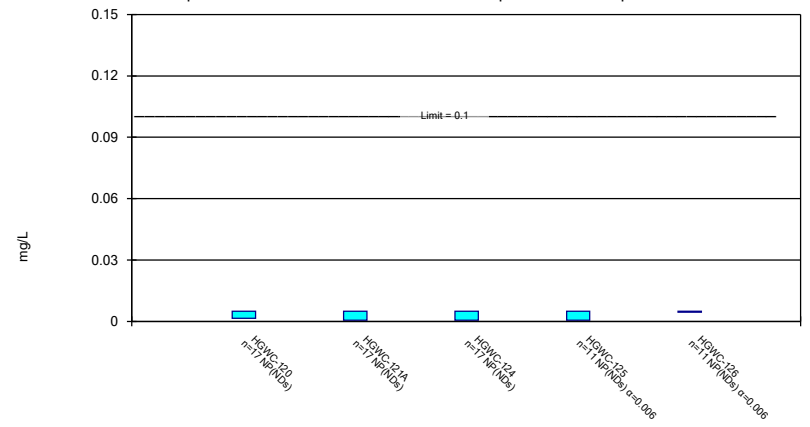
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/1/2022 9:52 AM View: Confidence Interval
Plant Hammond Client: Southern Company Data: Hammond AP-3

Non-Parametric Confidence Interval

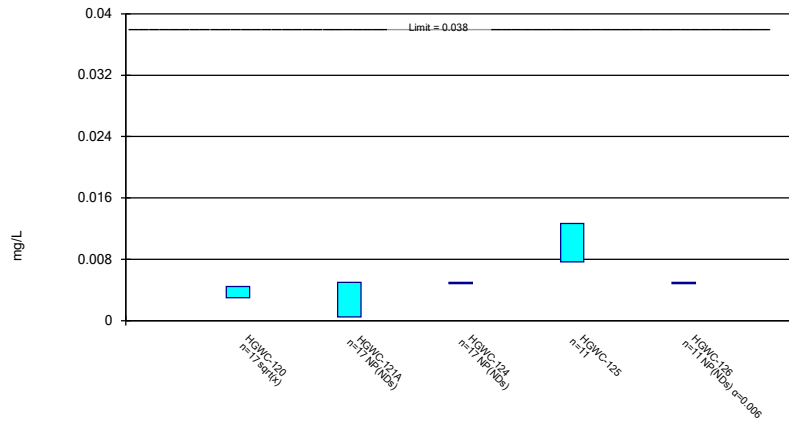
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 11/1/2022 9:52 AM View: Confidence Interval
Plant Hammond Client: Southern Company Data: Hammond AP-3

Parametric and Non-Parametric (NP) Confidence Interval

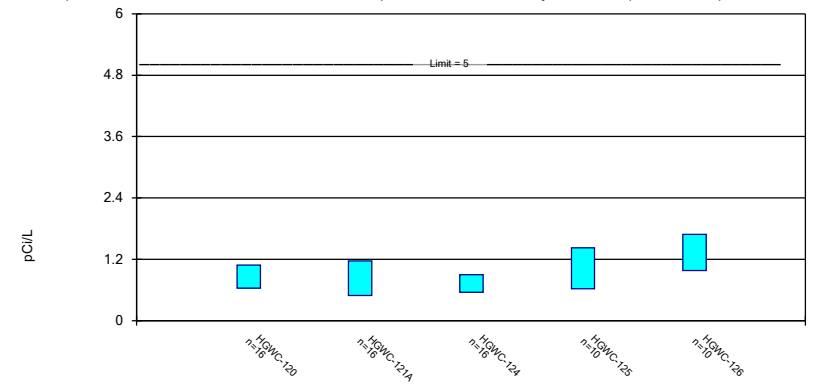
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/1/2022 9:52 AM View: Confidence Interval
Plant Hammond Client: Southern Company Data: Hammond AP-3

Parametric Confidence Interval

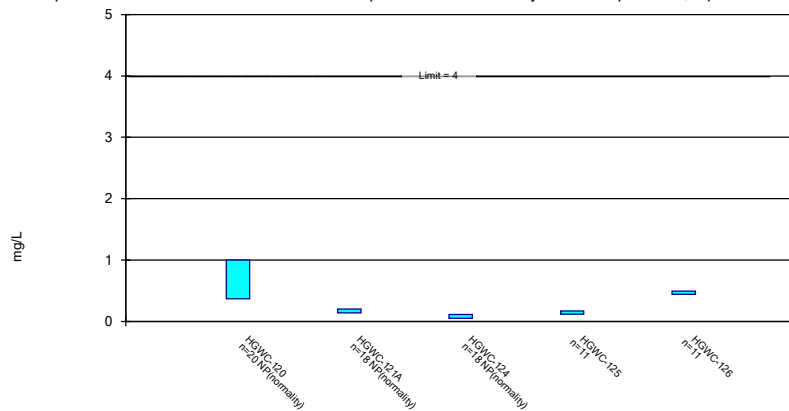
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/1/2022 9:52 AM View: Confidence Interval
Plant Hammond Client: Southern Company Data: Hammond AP-3

Parametric and Non-Parametric (NP) Confidence Interval

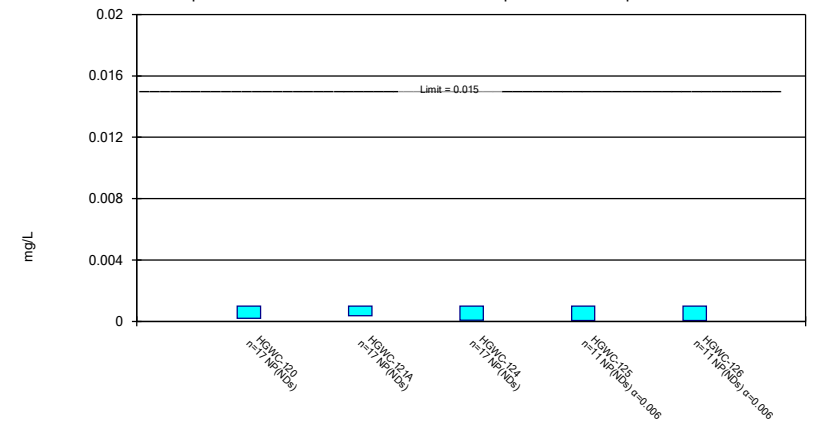
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/1/2022 9:52 AM View: Confidence Interval
Plant Hammond Client: Southern Company Data: Hammond AP-3

Non-Parametric Confidence Interval

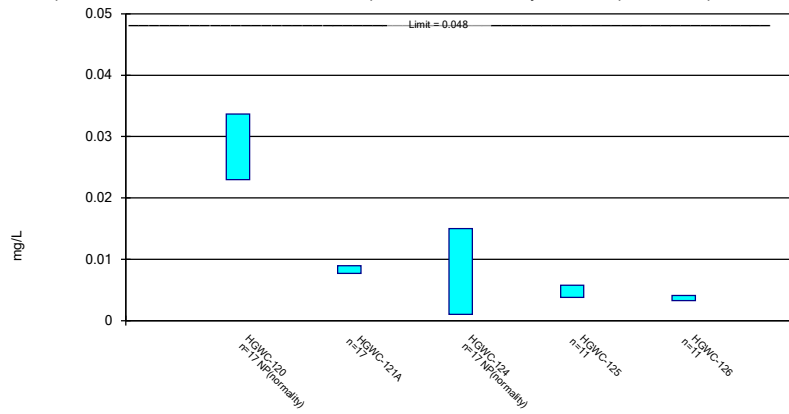
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 11/1/2022 9:52 AM View: Confidence Interval
Plant Hammond Client: Southern Company Data: Hammond AP-3

Parametric and Non-Parametric (NP) Confidence Interval

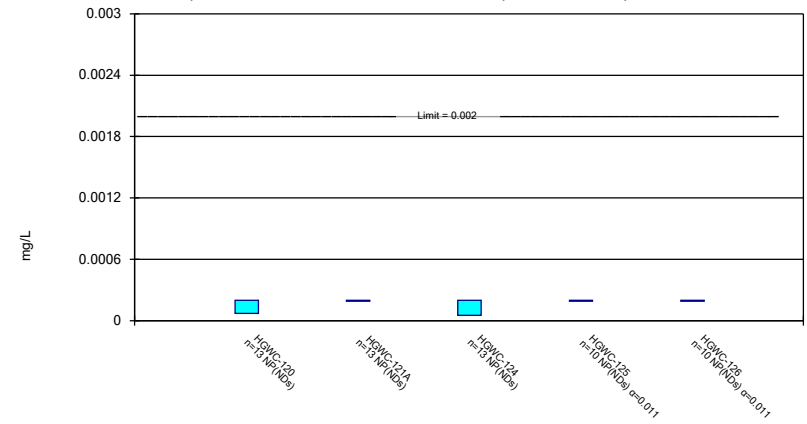
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/1/2022 9:52 AM View: Confidence Interval
Plant Hammond Client: Southern Company Data: Hammond AP-3

Non-Parametric Confidence Interval

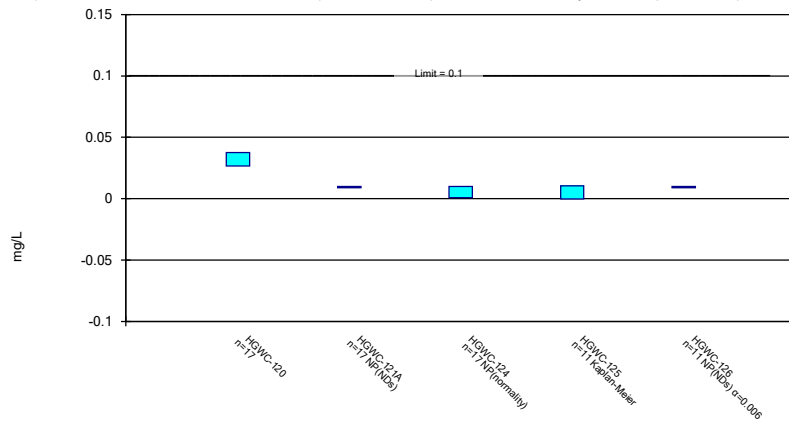
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Mercury Analysis Run 11/1/2022 9:52 AM View: Confidence Interval
Plant Hammond Client: Southern Company Data: Hammond AP-3

Parametric and Non-Parametric (NP) Confidence Interval

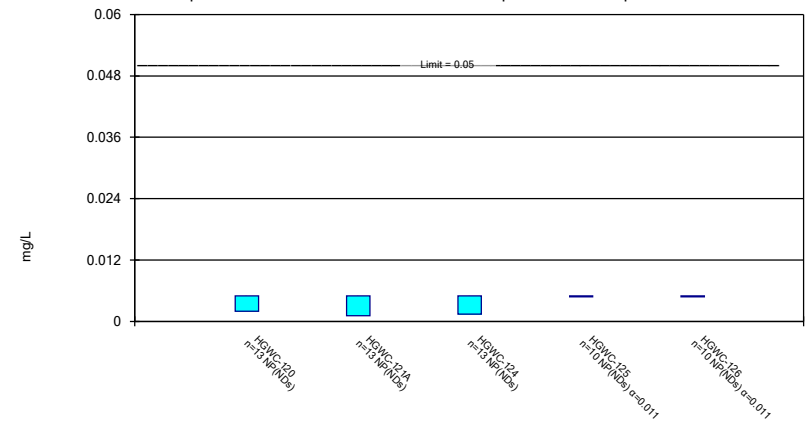
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 11/1/2022 9:52 AM View: Confidence Interval
Plant Hammond Client: Southern Company Data: Hammond AP-3

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Selenium Analysis Run 11/1/2022 9:52 AM View: Confidence Interval
Plant Hammond Client: Southern Company Data: Hammond AP-3

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/1/2022 9:54 AM View: Confidence Interval
 Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|------------|------------|----------|-------------|-------------|
| 8/31/2016 | <0.003 | <0.003 | <0.003 | | |
| 10/26/2016 | <0.003 | | <0.003 | | |
| 11/7/2016 | | <0.003 | | | |
| 1/13/2017 | | <0.003 | | | |
| 1/27/2017 | <0.003 | | <0.003 | | |
| 5/25/2017 | <0.003 | | <0.003 | | |
| 6/3/2017 | | <0.003 | | | |
| 8/11/2017 | | | <0.003 | | |
| 10/2/2017 | <0.003 | <0.003 | | | |
| 11/15/2017 | <0.003 | <0.003 | <0.003 | | |
| 6/5/2018 | <0.003 | <0.003 | <0.003 | | |
| 10/2/2018 | <0.003 | | <0.003 | | |
| 10/5/2018 | | <0.003 | | | |
| 8/22/2019 | <0.003 | <0.003 | | | |
| 8/23/2019 | | | <0.003 | | |
| 5/22/2020 | | | | 0.00047 (J) | <0.003 |
| 6/16/2020 | | | | <0.003 | <0.003 |
| 8/25/2020 | | | | <0.003 | <0.003 |
| 8/26/2020 | <0.003 | <0.003 | | | |
| 8/27/2020 | | | <0.003 | | |
| 9/18/2020 | | | | | <0.003 |
| 9/21/2020 | <0.003 | | | <0.003 | |
| 9/28/2020 | | <0.003 | <0.003 | | |
| 11/11/2020 | | | | | 0.0004 (J) |
| 11/12/2020 | | | | <0.003 | |
| 12/16/2020 | | | | <0.003 | <0.003 |
| 1/20/2021 | | | | <0.003 | <0.003 |
| 3/12/2021 | 0.0018 (J) | | | 0.00061 (J) | 0.00043 (J) |
| 3/15/2021 | | <0.003 | <0.003 | | |
| 8/16/2021 | <0.003 | <0.003 | <0.003 | | |
| 8/19/2021 | | | | <0.003 | <0.003 |
| 2/2/2022 | <0.003 | <0.003 | <0.003 | | |
| 2/3/2022 | | | | <0.003 | <0.003 |
| 8/4/2022 | <0.003 | 0.0016 (J) | <0.003 | <0.003 | <0.003 |
| Mean | 0.00292 | 0.002907 | 0.003 | 0.002553 | 0.00253 |
| Std. Dev. | 0.0003098 | 0.0003615 | 0 | 0.0009956 | 0.001046 |
| Upper Lim. | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 |
| Lower Lim. | 0.0018 | 0.0016 | 0.003 | 0.00061 | 0.00043 |

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/1/2022 9:54 AM View: Confidence Interval
 Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|------------|------------|------------|-------------|-------------|
| 8/31/2016 | <0.005 | <0.005 | <0.005 | | |
| 10/26/2016 | <0.005 | | <0.005 | | |
| 11/7/2016 | | <0.005 | | | |
| 1/13/2017 | | <0.005 | | | |
| 1/27/2017 | <0.005 | | <0.005 | | |
| 5/25/2017 | 0.0014 (J) | | 0.0006 (J) | | |
| 6/3/2017 | | 0.001 (J) | | | |
| 8/11/2017 | | | <0.005 | | |
| 10/2/2017 | 0.0007 (J) | <0.005 | | | |
| 11/15/2017 | <0.005 | <0.005 | <0.005 | | |
| 6/5/2018 | 0.001 (J) | 0.0014 (J) | <0.005 | | |
| 10/2/2018 | <0.005 | | <0.005 | | |
| 10/5/2018 | | <0.005 | | | |
| 8/22/2019 | <0.005 | <0.005 | | | |
| 8/23/2019 | | | <0.005 | | |
| 5/22/2020 | | | | 0.00081 (J) | 0.00071 (J) |
| 6/16/2020 | | | | 0.0014 (J) | 0.00091 (J) |
| 8/25/2020 | | | | <0.005 | <0.005 |
| 8/26/2020 | <0.005 | <0.005 | | | |
| 8/27/2020 | | | <0.005 | | |
| 9/18/2020 | | | | | <0.005 |
| 9/21/2020 | | | | <0.005 | |
| 11/11/2020 | | | | | <0.005 |
| 11/12/2020 | | | | <0.005 | |
| 12/16/2020 | | | | <0.005 | <0.005 |
| 1/20/2021 | | | | <0.005 | <0.005 |
| 8/16/2021 | 0.0015 (J) | 0.0014 (J) | <0.005 | | |
| 8/19/2021 | | | | <0.005 | <0.005 |
| 2/2/2022 | 0.0014 (J) | <0.005 | <0.005 | | |
| 2/3/2022 | | | | 0.0032 (J) | 0.0026 (J) |
| 8/4/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Mean | 0.003538 | 0.004138 | 0.004662 | 0.004041 | 0.003922 |
| Std. Dev. | 0.001934 | 0.00164 | 0.00122 | 0.001652 | 0.001803 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.001 | 0.0014 | 0.0006 | 0.0014 | 0.00091 |

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/1/2022 9:54 AM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|----------|----------|----------|
| 8/31/2016 | 0.045 | 0.0782 | 0.0744 | | |
| 10/26/2016 | 0.0462 | | 0.0735 | | |
| 11/7/2016 | | 0.0764 | | | |
| 1/13/2017 | | 0.0744 | | | |
| 1/27/2017 | 0.0451 | | 0.0632 | | |
| 5/25/2017 | 0.0488 | | 0.0773 | | |
| 6/3/2017 | | 0.0933 | | | |
| 8/11/2017 | | | 0.0672 | | |
| 10/2/2017 | 0.0479 | 0.0815 | | | |
| 11/15/2017 | 0.051 | 0.0807 | 0.0707 | | |
| 6/5/2018 | 0.051 | 0.078 | 0.07 | | |
| 10/2/2018 | 0.059 | | 0.067 | | |
| 10/5/2018 | | 0.074 | | | |
| 8/22/2019 | 0.05 | 0.066 | | | |
| 8/23/2019 | | | 0.066 | | |
| 10/21/2019 | | 0.074 | 0.075 | | |
| 10/22/2019 | 0.051 | | | | |
| 3/24/2020 | | | 0.075 | | |
| 3/25/2020 | 0.052 | 0.099 | | | |
| 5/22/2020 | | | | 0.048 | 0.24 |
| 6/16/2020 | | | | 0.049 | 0.24 |
| 8/25/2020 | | | | 0.045 | 0.23 |
| 8/26/2020 | 0.041 | 0.057 | | | |
| 8/27/2020 | | | 0.062 | | |
| 9/18/2020 | | | | | 0.21 |
| 9/21/2020 | 0.046 | | | 0.042 | |
| 9/28/2020 | | 0.056 | 0.071 | | |
| 11/11/2020 | | | | | 0.23 |
| 11/12/2020 | | | | 0.042 | |
| 12/16/2020 | | | | 0.041 | 0.24 |
| 1/20/2021 | | | | 0.045 | 0.25 |
| 3/12/2021 | 0.047 | | | 0.043 | 0.27 |
| 3/15/2021 | | 0.059 | 0.071 | | |
| 8/16/2021 | 0.052 | 0.06 | 0.069 | | |
| 8/19/2021 | | | | 0.044 | 0.27 |
| 2/2/2022 | 0.054 | 0.064 | 0.072 | | |
| 2/3/2022 | | | | 0.043 | 0.24 |
| 8/4/2022 | 0.048 | 0.06 | 0.068 | 0.037 | 0.24 |
| Mean | 0.04912 | 0.07244 | 0.07014 | 0.04355 | 0.2418 |
| Std. Dev. | 0.004139 | 0.01248 | 0.004251 | 0.003297 | 0.01722 |
| Upper Lim. | 0.05171 | 0.08026 | 0.0728 | 0.04629 | 0.2562 |
| Lower Lim. | 0.04652 | 0.06462 | 0.06747 | 0.0408 | 0.2275 |

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/1/2022 9:54 AM View: Confidence Interval
 Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|-------------|------------|-------------|-------------|-------------|
| 8/31/2016 | <0.005 | <0.005 | <0.005 | | |
| 10/26/2016 | <0.005 | | <0.005 | | |
| 11/7/2016 | | <0.005 | | | |
| 1/13/2017 | | <0.005 | | | |
| 1/27/2017 | <0.005 | | <0.005 | | |
| 5/25/2017 | <0.005 | | <0.005 | | |
| 6/3/2017 | | <0.005 | | | |
| 8/11/2017 | | | <0.005 | | |
| 10/2/2017 | <0.005 | <0.005 | | | |
| 11/15/2017 | <0.005 | <0.005 | <0.005 | | |
| 6/5/2018 | <0.005 | <0.005 | <0.005 | | |
| 10/2/2018 | <0.005 | | <0.005 | | |
| 10/5/2018 | | <0.005 | | | |
| 8/22/2019 | 0.00072 (J) | <0.005 | | | |
| 8/23/2019 | | | <0.005 | | |
| 10/21/2019 | | <0.005 | 0.00046 (J) | | |
| 10/22/2019 | <0.005 | | | | |
| 3/24/2020 | | | 0.00051 (J) | | |
| 3/25/2020 | 0.0015 (J) | 0.0005 (J) | | | |
| 5/22/2020 | | | | 0.00058 (J) | <0.005 |
| 6/16/2020 | | | | 0.00052 (J) | <0.005 |
| 8/25/2020 | | | | <0.005 | 0.00096 (J) |
| 8/26/2020 | <0.005 | <0.005 | | | |
| 8/27/2020 | | | <0.005 | | |
| 9/18/2020 | | | | | <0.005 |
| 9/21/2020 | 0.00065 (J) | | | <0.005 | |
| 9/28/2020 | | <0.005 | <0.005 | | |
| 11/11/2020 | | | | | <0.005 |
| 11/12/2020 | | | | <0.005 | |
| 12/16/2020 | | | | <0.005 | <0.005 |
| 1/20/2021 | | | | 0.00081 (J) | <0.005 |
| 3/12/2021 | <0.005 | | | <0.005 | <0.005 |
| 3/15/2021 | | <0.005 | <0.005 | | |
| 8/16/2021 | <0.005 | <0.005 | <0.005 | | |
| 8/19/2021 | | | | <0.005 | <0.005 |
| 2/2/2022 | <0.005 | <0.005 | <0.005 | | |
| 2/3/2022 | | | | <0.005 | <0.005 |
| 8/4/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Mean | 0.004286 | 0.004735 | 0.004469 | 0.00381 | 0.004633 |
| Std. Dev. | 0.001598 | 0.001091 | 0.001499 | 0.002039 | 0.001218 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.0015 | 0.0005 | 0.00051 | 0.00058 | 0.005 |

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/1/2022 9:54 AM View: Confidence Interval
 Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|------------|------------|----------|----------|----------|
| 8/31/2016 | 0.0052 (J) | <0.005 | <0.005 | | |
| 10/26/2016 | 0.0041 (J) | | <0.005 | | |
| 11/7/2016 | | <0.005 | | | |
| 1/13/2017 | | <0.005 | | | |
| 1/27/2017 | 0.0034 (J) | | <0.005 | | |
| 5/25/2017 | 0.0035 (J) | | <0.005 | | |
| 6/3/2017 | | 0.0005 (J) | | | |
| 8/11/2017 | | | <0.005 | | |
| 10/2/2017 | 0.0036 (J) | 0.0003 (J) | | | |
| 11/15/2017 | 0.0032 (J) | 0.0003 (J) | <0.005 | | |
| 6/5/2018 | 0.0031 (J) | <0.005 | <0.005 | | |
| 10/2/2018 | 0.0025 (J) | | <0.005 | | |
| 10/5/2018 | | <0.005 | | | |
| 8/22/2019 | 0.0028 (J) | <0.005 | | | |
| 8/23/2019 | | | <0.005 | | |
| 10/21/2019 | | <0.005 | <0.005 | | |
| 10/22/2019 | 0.0031 (J) | | | | |
| 3/24/2020 | | | <0.005 | | |
| 3/25/2020 | 0.0036 (J) | <0.005 | | | |
| 5/22/2020 | | | | 0.01 | <0.005 |
| 6/16/2020 | | | | 0.0096 | <0.005 |
| 8/25/2020 | | | | 0.0087 | <0.005 |
| 8/26/2020 | 0.0023 (J) | <0.005 | | | |
| 8/27/2020 | | | <0.005 | | |
| 9/18/2020 | | | | | <0.005 |
| 9/21/2020 | 0.0041 (J) | | | 0.012 | |
| 9/28/2020 | | <0.005 | <0.005 | | |
| 11/11/2020 | | | | | <0.005 |
| 11/12/2020 | | | | 0.012 | |
| 12/16/2020 | | | | 0.0055 | <0.005 |
| 1/20/2021 | | | | 0.012 | <0.005 |
| 3/12/2021 | 0.0027 (J) | | | 0.014 | <0.005 |
| 3/15/2021 | | <0.005 | <0.005 | | |
| 8/16/2021 | 0.0037 (J) | <0.005 | <0.005 | | |
| 8/19/2021 | | | | 0.0054 | <0.005 |
| 2/2/2022 | 0.0072 | <0.005 | <0.005 | | |
| 2/3/2022 | | | | 0.0086 | <0.005 |
| 8/4/2022 | 0.0058 | <0.005 | <0.005 | 0.014 | <0.005 |
| Mean | 0.003759 | 0.004182 | 0.005 | 0.01016 | 0.005 |
| Std. Dev. | 0.001262 | 0.001821 | 0 | 0.002982 | 0 |
| Upper Lim. | 0.004435 | 0.005 | 0.005 | 0.01265 | 0.005 |
| Lower Lim. | 0.002982 | 0.0005 | 0.005 | 0.007679 | 0.005 |

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/1/2022 9:54 AM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|-----------|-----------|-----------|-----------|-----------|
| 8/31/2016 | 1.47 | 1.57 | 1.22 | | |
| 10/26/2016 | 0.864 (U) | | 0.637 (U) | | |
| 11/7/2016 | | 0.739 (U) | | | |
| 1/13/2017 | | 0.744 (U) | | | |
| 1/27/2017 | 0.521 (U) | | 0.795 (U) | | |
| 5/25/2017 | 0.681 (U) | | 0.896 (U) | | |
| 6/3/2017 | | 0 (U) | | | |
| 8/11/2017 | | | 0.828 (U) | | |
| 10/2/2017 | 0.632 (U) | 0.68 (U) | | | |
| 11/15/2017 | 1.3 | 0.911 (U) | 0.478 (U) | | |
| 6/5/2018 | 1.26 (U) | 0.948 (U) | 0.947 (U) | | |
| 10/2/2018 | 0.572 (U) | | 0.617 (U) | | |
| 10/5/2018 | | 1.17 (U) | | | |
| 8/22/2019 | 1.35 | 1.3 | | | |
| 8/23/2019 | | | 0.834 | | |
| 10/21/2019 | | 0.393 (U) | 1.11 (U) | | |
| 10/22/2019 | 0.76 (U) | | | | |
| 3/24/2020 | | | 0.796 (U) | | |
| 3/25/2020 | 0.696 (U) | 0.505 (U) | | | |
| 5/22/2020 | | | | 1.1 (U) | 1.82 |
| 6/16/2020 | | | | 1.62 | 1.82 |
| 8/25/2020 | | | | 1.65 | 1.82 |
| 8/26/2020 | 0.357 (U) | 1.96 | | | |
| 8/27/2020 | | | 0.494 (U) | | |
| 9/18/2020 | | | | | 0.841 (U) |
| 9/21/2020 | 0.553 (U) | | | 1.45 | |
| 9/28/2020 | | 0.761 (U) | 0.477 (U) | | |
| 11/11/2020 | | | | | 0.837 (U) |
| 11/12/2020 | | | | 0.633 (U) | |
| 12/16/2020 | | | | 0.818 (U) | 1.26 (U) |
| 1/20/2021 | | | | 1.01 (U) | 0.985 (U) |
| 8/16/2021 | 1.25 | 0.192 (U) | 0.734 (U) | | |
| 8/19/2021 | | | | 0.721 (U) | 1.11 |
| 2/2/2022 | 0.816 (U) | 0.254 (U) | 0.564 (U) | | |
| 2/3/2022 | | | | 0.257 (U) | 1.51 |
| 8/4/2022 | 0.687 (U) | 1.16 (U) | 0.16 (U) | 0.971 (U) | 1.34 (U) |
| Mean | 0.8606 | 0.8304 | 0.7242 | 1.023 | 1.334 |
| Std. Dev. | 0.3479 | 0.5201 | 0.2639 | 0.4488 | 0.3954 |
| Upper Lim. | 1.087 | 1.169 | 0.8959 | 1.423 | 1.687 |
| Lower Lim. | 0.6342 | 0.492 | 0.5525 | 0.6226 | 0.9815 |

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/1/2022 9:54 AM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|-----------|----------|----------|
| 8/31/2016 | 0.65 | 0.14 (J) | 0.15 (J) | | |
| 10/26/2016 | 0.6 | | 0.3 | | |
| 11/7/2016 | | 0.18 (J) | | | |
| 1/13/2017 | | 0.14 (J) | | | |
| 1/27/2017 | 1.2 | | 0.3 | | |
| 5/25/2017 | 1.4 | | 0.05 (J) | | |
| 6/3/2017 | | 0.15 (J) | | | |
| 8/11/2017 | | | 0.1 (J) | | |
| 10/2/2017 | 1 | 1.2 | | | |
| 11/15/2017 | 1.3 | 0.6 | <0.1 | | |
| 6/5/2018 | 0.48 | 0.19 (J) | 0.078 (J) | | |
| 10/2/2018 | 0.34 | | 0.078 (J) | | |
| 10/5/2018 | | 0.23 (J) | | | |
| 4/2/2019 | 0.47 | | | | |
| 4/3/2019 | | 0.14 (J) | 0.089 (J) | | |
| 6/17/2019 | 1.2 | | | | |
| 8/22/2019 | 0.3 (J) | 0.2 (J) | | | |
| 8/23/2019 | | | 0.11 (J) | | |
| 10/21/2019 | | 0.18 (J) | 0.073 (J) | | |
| 10/22/2019 | 0.53 | | | | |
| 3/24/2020 | | | <0.1 | | |
| 3/25/2020 | 0.43 | 0.095 (J) | | | |
| 5/22/2020 | | | | 0.1 (J) | 0.46 |
| 6/15/2020 | 0.37 | | | | |
| 6/16/2020 | | | | 0.12 | 0.44 |
| 8/25/2020 | | | | 0.16 | 0.52 |
| 8/26/2020 | 0.48 | 0.16 | | | |
| 8/27/2020 | | | <0.1 | | |
| 9/18/2020 | | | | | 0.43 |
| 9/21/2020 | 0.33 | | | 0.11 | |
| 9/28/2020 | | 0.15 | <0.1 | | |
| 11/11/2020 | | | | | 0.45 |
| 11/12/2020 | | | | 0.12 | |
| 12/16/2020 | | | | 0.2 | 0.49 |
| 1/20/2021 | | | | 0.13 | 0.44 |
| 3/12/2021 | 0.42 | | | 0.12 | 0.46 |
| 3/15/2021 | | 0.16 | <0.1 | | |
| 8/16/2021 | 0.39 | 0.15 | <0.1 | | |
| 8/19/2021 | | | | 0.17 | 0.43 |
| 2/2/2022 | 0.36 | 0.15 | <0.1 | | |
| 2/3/2022 | | | | 0.18 | 0.51 |
| 8/4/2022 | 0.38 | 0.18 | 0.074 (J) | 0.15 | 0.5 |
| Mean | 0.6315 | 0.2442 | 0.09733 | 0.1418 | 0.4664 |
| Std. Dev. | 0.3655 | 0.2615 | 0.07858 | 0.03219 | 0.03295 |
| Upper Lim. | 1 | 0.2 | 0.11 | 0.1686 | 0.4938 |
| Lower Lim. | 0.37 | 0.14 | 0.05 | 0.115 | 0.4389 |

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/1/2022 9:54 AM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|------------|-------------|-------------|-------------|-------------|
| 8/31/2016 | <0.001 | <0.001 | <0.001 | | |
| 10/26/2016 | 0.0002 (J) | | <0.001 | | |
| 11/7/2016 | | <0.001 | | | |
| 1/13/2017 | | <0.001 | | | |
| 1/27/2017 | <0.001 | | <0.001 | | |
| 5/25/2017 | 9E-05 (J) | | <0.001 | | |
| 6/3/2017 | | 7E-05 (J) | | | |
| 8/11/2017 | | | 8E-05 (J) | | |
| 10/2/2017 | 8E-05 (J) | <0.001 | | | |
| 11/15/2017 | <0.001 | <0.001 | <0.001 | | |
| 6/5/2018 | <0.001 | 0.00036 (J) | <0.001 | | |
| 10/2/2018 | <0.001 | | <0.001 | | |
| 10/5/2018 | | <0.001 | | | |
| 8/22/2019 | <0.001 | <0.001 | | | |
| 8/23/2019 | | | 4.9E-05 (J) | | |
| 10/21/2019 | | <0.001 | 4.9E-05 (J) | | |
| 10/22/2019 | <0.001 | | | | |
| 3/24/2020 | | | 9.4E-05 (J) | | |
| 3/25/2020 | <0.001 | <0.001 | | | |
| 5/22/2020 | | | | 0.00014 (J) | <0.001 |
| 6/16/2020 | | | | 0.00013 (J) | <0.001 |
| 8/25/2020 | | | | <0.001 | 4.5E-05 (J) |
| 8/26/2020 | <0.001 | <0.001 | | | |
| 8/27/2020 | | | <0.001 | | |
| 9/18/2020 | | | | | <0.001 |
| 9/21/2020 | <0.001 | | | <0.001 | |
| 9/28/2020 | | <0.001 | 7.5E-05 (J) | | |
| 11/11/2020 | | | | | 4.2E-05 (J) |
| 11/12/2020 | | | | 4.7E-05 (J) | |
| 12/16/2020 | | | | <0.001 | <0.001 |
| 1/20/2021 | | | | 9.2E-05 (J) | <0.001 |
| 3/12/2021 | <0.001 | | | 4.4E-05 (J) | 4.6E-05 (J) |
| 3/15/2021 | | 0.00015 (J) | <0.001 | | |
| 8/16/2021 | <0.001 | <0.001 | <0.001 | | |
| 8/19/2021 | | | | <0.001 | <0.001 |
| 2/2/2022 | <0.001 | <0.001 | <0.001 | | |
| 2/3/2022 | | | | <0.001 | <0.001 |
| 8/4/2022 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Mean | 0.0008453 | 0.0008576 | 0.0007263 | 0.0005866 | 0.0007394 |
| Std. Dev. | 0.0003453 | 0.0003214 | 0.0004372 | 0.0004758 | 0.0004464 |
| Upper Lim. | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Lower Lim. | 0.0002 | 0.00036 | 8E-05 | 4.7E-05 | 4.5E-05 |

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/1/2022 9:54 AM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|------------|------------|-------------|------------|------------|
| 8/31/2016 | 0.0333 (J) | 0.0077 (J) | <0.03 | | |
| 10/26/2016 | 0.0352 (J) | | <0.03 | | |
| 11/7/2016 | | 0.0089 (J) | | | |
| 1/13/2017 | | 0.0091 (J) | | | |
| 1/27/2017 | 0.0329 (J) | | <0.03 | | |
| 5/25/2017 | 0.0347 (J) | | 0.0011 (J) | | |
| 6/3/2017 | | 0.0104 (J) | | | |
| 8/11/2017 | | | <0.03 | | |
| 10/2/2017 | 0.0337 (J) | 0.0095 (J) | | | |
| 11/15/2017 | 0.0347 (J) | 0.0086 (J) | <0.03 | | |
| 6/5/2018 | 0.033 (J) | 0.0092 (J) | 0.0012 (J) | | |
| 10/2/2018 | 0.031 (J) | | 0.0012 (J) | | |
| 10/5/2018 | | 0.0091 (J) | | | |
| 8/22/2019 | 0.029 (J) | 0.0084 (J) | | | |
| 8/23/2019 | | | 0.0011 (J) | | |
| 10/21/2019 | | 0.009 (J) | 0.0011 (J) | | |
| 10/22/2019 | 0.03 (J) | | | | |
| 3/24/2020 | | | 0.0012 (J) | | |
| 3/25/2020 | 0.024 (J) | 0.0066 (J) | | | |
| 5/22/2020 | | | | 0.0052 (J) | 0.0046 (J) |
| 6/16/2020 | | | | 0.0053 (J) | 0.0045 (J) |
| 8/25/2020 | | | | 0.0037 (J) | 0.0037 (J) |
| 8/26/2020 | 0.023 (J) | 0.0071 (J) | | | |
| 8/27/2020 | | | 0.00091 (J) | | |
| 9/18/2020 | | | | | 0.0035 (J) |
| 9/21/2020 | 0.023 (J) | | | 0.0038 (J) | |
| 9/28/2020 | | 0.0076 (J) | 0.0011 (J) | | |
| 11/11/2020 | | | | | 0.0032 (J) |
| 11/12/2020 | | | | 0.0038 (J) | |
| 12/16/2020 | | | | 0.0055 (J) | 0.0029 (J) |
| 1/20/2021 | | | | 0.0046 (J) | 0.0038 (J) |
| 3/12/2021 | 0.023 (J) | | | 0.0039 (J) | 0.0038 (J) |
| 3/15/2021 | | 0.0077 (J) | 0.001 (J) | | |
| 8/16/2021 | 0.025 (J) | 0.0075 (J) | 0.0011 (J) | | |
| 8/19/2021 | | | | 0.0074 (J) | 0.0032 (J) |
| 2/2/2022 | 0.025 (J) | 0.0082 (J) | 0.0012 (J) | | |
| 2/3/2022 | | | | 0.0057 (J) | 0.0038 (J) |
| 8/4/2022 | 0.023 (J) | 0.0069 (J) | 0.0011 (J) | 0.0035 (J) | 0.0034 (J) |
| Mean | 0.02903 | 0.008324 | 0.005195 | 0.004764 | 0.003673 |
| Std. Dev. | 0.004881 | 0.001032 | 0.006524 | 0.001192 | 0.0005236 |
| Upper Lim. | 0.0337 | 0.00897 | 0.015 | 0.005757 | 0.004109 |
| Lower Lim. | 0.023 | 0.007677 | 0.001 | 0.00377 | 0.003236 |

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/1/2022 9:54 AM View: Confidence Interval
 Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|-----------|-----------|-------------|----------|----------|
| 8/31/2016 | 4E-05 (J) | <0.0002 | <0.0002 | | |
| 10/26/2016 | <0.0002 | | <0.0002 | | |
| 11/7/2016 | | <0.0002 | | | |
| 1/13/2017 | | <0.0002 | | | |
| 1/27/2017 | <0.0002 | | <0.0002 | | |
| 5/25/2017 | 7E-05 (J) | | 5.1E-05 (J) | | |
| 6/3/2017 | | <0.0002 | | | |
| 8/11/2017 | | | <0.0002 | | |
| 10/2/2017 | <0.0002 | <0.0002 | | | |
| 11/15/2017 | <0.0002 | <0.0002 | <0.0002 | | |
| 6/5/2018 | <0.0002 | <0.0002 | <0.0002 | | |
| 10/2/2018 | <0.0002 | | <0.0002 | | |
| 10/5/2018 | | <0.0002 | | | |
| 8/22/2019 | <0.0002 | <0.0002 | | | |
| 8/23/2019 | | | <0.0002 | | |
| 5/22/2020 | | | | <0.0002 | <0.0002 |
| 6/16/2020 | | | | <0.0002 | <0.0002 |
| 8/25/2020 | | | | <0.0002 | <0.0002 |
| 8/26/2020 | <0.0002 | <0.0002 | | | |
| 8/27/2020 | | | <0.0002 | | |
| 9/18/2020 | | | | | <0.0002 |
| 9/21/2020 | | | | <0.0002 | |
| 11/11/2020 | | | | | <0.0002 |
| 11/12/2020 | | | | <0.0002 | |
| 12/16/2020 | | | | <0.0002 | <0.0002 |
| 1/20/2021 | | | | <0.0002 | <0.0002 |
| 8/16/2021 | <0.0002 | <0.0002 | <0.0002 | | |
| 8/19/2021 | | | | <0.0002 | <0.0002 |
| 2/2/2022 | <0.0002 | <0.0002 | <0.0002 | | |
| 2/3/2022 | | | | <0.0002 | <0.0002 |
| 8/4/2022 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Mean | 0.0001777 | 0.0002 | 0.0001885 | 0.0002 | 0.0002 |
| Std. Dev. | 5.48E-05 | 0 | 4.133E-05 | 0 | 0 |
| Upper Lim. | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 |
| Lower Lim. | 7E-05 | 0.0002 | 5.1E-05 | 0.0002 | 0.0002 |

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/1/2022 9:54 AM View: Confidence Interval

Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|----------|-----------|-------------|-------------|----------|
| 8/31/2016 | 0.0176 | <0.01 | <0.01 | | |
| 10/26/2016 | 0.0187 | | <0.01 | | |
| 11/7/2016 | | <0.01 | | | |
| 1/13/2017 | | <0.01 | | | |
| 1/27/2017 | 0.0214 | | <0.01 | | |
| 5/25/2017 | 0.0231 | | 0.0009 (J) | | |
| 6/3/2017 | | <0.01 | | | |
| 8/11/2017 | | | 0.0013 (J) | | |
| 10/2/2017 | 0.0259 | <0.01 | | | |
| 11/15/2017 | 0.0281 | <0.01 | 0.0012 (J) | | |
| 6/5/2018 | 0.033 | <0.01 | <0.01 | | |
| 10/2/2018 | 0.036 | | <0.01 | | |
| 10/5/2018 | | <0.01 | | | |
| 8/22/2019 | 0.039 | <0.01 | | | |
| 8/23/2019 | | | 0.0014 (J) | | |
| 10/21/2019 | | <0.01 | 0.0013 (J) | | |
| 10/22/2019 | 0.04 | | | | |
| 3/24/2020 | | | 0.001 (J) | | |
| 3/25/2020 | 0.034 | <0.01 | | | |
| 5/22/2020 | | | | <0.01 | <0.01 |
| 6/16/2020 | | | | <0.01 | <0.01 |
| 8/25/2020 | | | | 0.00099 (J) | <0.01 |
| 8/26/2020 | 0.05 | <0.01 | | | |
| 8/27/2020 | | | 0.00091 (J) | | |
| 9/18/2020 | | | | | <0.01 |
| 9/21/2020 | 0.043 | | | <0.01 | |
| 9/28/2020 | | <0.01 | 0.0009 (J) | | |
| 11/11/2020 | | | | | <0.01 |
| 11/12/2020 | | | | 0.0017 (J) | |
| 12/16/2020 | | | | 0.014 | <0.01 |
| 1/20/2021 | | | | 0.0013 (J) | <0.01 |
| 3/12/2021 | 0.033 | | | 0.0012 (J) | <0.01 |
| 3/15/2021 | | <0.01 | 0.00092 (J) | | |
| 8/16/2021 | 0.035 | <0.01 | 0.00091 (J) | | |
| 8/19/2021 | | | | 0.021 | <0.01 |
| 2/2/2022 | 0.034 | <0.01 | 0.001 (J) | | |
| 2/3/2022 | | | | 0.0067 (J) | <0.01 |
| 8/4/2022 | 0.032 | <0.01 | <0.01 | 0.0023 (J) | <0.01 |
| Mean | 0.03199 | 0.01 | 0.00422 | 0.007199 | 0.01 |
| Std. Dev. | 0.008737 | 0 | 0.004403 | 0.006512 | 0 |
| Upper Lim. | 0.03746 | 0.01 | 0.01 | 0.01036 | 0.01 |
| Lower Lim. | 0.02651 | 0.01 | 0.00091 | -0.0001221 | 0.01 |

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/1/2022 9:54 AM View: Confidence Interval
Plant Hammond Client: Southern Company Data: Hammond AP-3

| | HGWC-120 | HGWC-121A | HGWC-124 | HGWC-125 | HGWC-126 |
|------------|-----------|------------|------------|----------|----------|
| 8/31/2016 | <0.005 | <0.005 | <0.005 | | |
| 10/26/2016 | <0.005 | | <0.005 | | |
| 11/7/2016 | | <0.005 | | | |
| 1/13/2017 | | 0.0011 (J) | | | |
| 1/27/2017 | <0.005 | | <0.005 | | |
| 5/25/2017 | <0.005 | | <0.005 | | |
| 6/3/2017 | | <0.005 | | | |
| 8/11/2017 | | | <0.005 | | |
| 10/2/2017 | 0.002 (J) | <0.005 | | | |
| 11/15/2017 | <0.005 | <0.005 | <0.005 | | |
| 6/5/2018 | <0.005 | <0.005 | <0.005 | | |
| 10/2/2018 | <0.005 | | 0.0014 (J) | | |
| 10/5/2018 | | <0.005 | | | |
| 8/22/2019 | <0.005 | <0.005 | | | |
| 8/23/2019 | | | <0.005 | | |
| 5/22/2020 | | | | <0.005 | <0.005 |
| 6/16/2020 | | | | <0.005 | <0.005 |
| 8/25/2020 | | | | <0.005 | <0.005 |
| 8/26/2020 | <0.005 | <0.005 | | | |
| 8/27/2020 | | | <0.005 | | |
| 9/18/2020 | | | | | <0.005 |
| 9/21/2020 | | | | <0.005 | |
| 11/11/2020 | | | | | <0.005 |
| 11/12/2020 | | | | <0.005 | |
| 12/16/2020 | | | | <0.005 | <0.005 |
| 1/20/2021 | | | | <0.005 | <0.005 |
| 8/16/2021 | <0.005 | <0.005 | <0.005 | | |
| 8/19/2021 | | | | <0.005 | <0.005 |
| 2/2/2022 | <0.005 | <0.005 | <0.005 | | |
| 2/3/2022 | | | | <0.005 | <0.005 |
| 8/4/2022 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Mean | 0.004769 | 0.0047 | 0.004723 | 0.005 | 0.005 |
| Std. Dev. | 0.0008321 | 0.001082 | 0.0009985 | 0 | 0 |
| Upper Lim. | 0.005 | 0.005 | 0.005 | 0.005 | 0.005 |
| Lower Lim. | 0.002 | 0.0011 | 0.0014 | 0.005 | 0.005 |