



Prepared for

Georgia Power Company
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2022 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT HAMMOND ASH POND 1 (AP-1)

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Project Number GW6581B

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CERTIFICATION STATEMENT

This 2022 *Semiannual Groundwater Monitoring and Corrective Action Report, Plant Hammond Ash Pond 1 (AP-1)* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g).



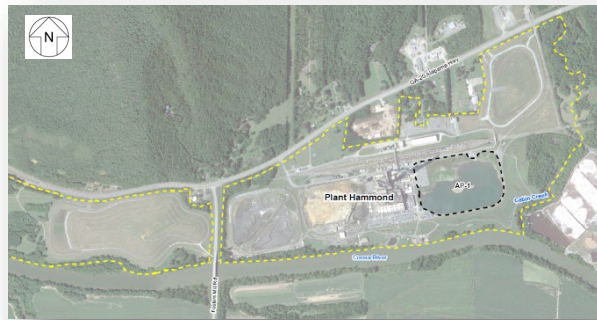
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August 31, 2022
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SUMMARY

This summary of the *2022 Semiannual Groundwater Monitoring and Corrective Action Report* provides the status of the groundwater monitoring and corrective action program for the reporting period of January through July 2022 (referred to herein as the 2022 semiannual reporting period) at Georgia Power Company's (Georgia Power's) Plant Hammond Ash Pond 1 (AP-1) (the Site). This summary was prepared by Geosyntec Consultants, Inc. (Geosyntec) on behalf of Georgia Power to meet the requirements listed in Part A, Section 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. CCR material resulting from power generation were historically transferred and stored in AP-1 until 1969. After 1969, AP-1 was utilized as a co-treatment pond to handle return water flows from the other ponds and for recycling of process water for plant operations. The Site is located on the southeastern portion of the Plant Hammond property. The Georgia Environmental Protection Division (GA EPD) approved Closure permit No. 057-023D(CCR) for AP-1 on June 22, 2020.



Plant Hammond and the Site

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

During the 2022 semiannual reporting period, Geosyntec conducted one groundwater sampling event in January/February 2022. Groundwater samples were submitted to Pace

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

Analytical Services, LLC, for analysis. Per the federal CCR Rule, groundwater data from the January/February 2022 event were evaluated in accordance with the certified statistical methods. The evaluations identified statistically significant values of select Appendix III² and Appendix IV³ constituents in excess of established groundwater protection standards (GWPS) in select monitoring wells, as summarized in the table below for the 2022 semiannual reporting period. On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where a maximum contaminant level (MCL) has not been established. These levels were specified for cobalt (0.006 milligrams per liter [mg/L]), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents are higher. Statistical evaluation for the January/February 2022 event was updated to reflect these changes.

Appendix III Constituent	January/February 2022
Boron	HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13
Calcium	HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13
Chloride	HGWC-8, HGWC-9, HGWC-12
Sulfate	HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13
Total Dissolved Solids	HGWC-9, HGWC-12, HGWC-13
Appendix IV Constituent⁴	January/February 2022
Arsenic	HGWC-13
Molybdenum	HGWC-8

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

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

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

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

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

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
3.0 SAMPLING METHODOLOGY AND ANALYSES.....	7
3.1 Groundwater Level Measurement.....	7
3.2 Groundwater Gradient and Flow Velocity.....	7
3.3 Groundwater Sampling Procedures.....	8
3.4 Laboratory Analyses.....	9
3.5 Quality Assurance and Quality Control Summary.....	9
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
4.2.1 January/February 2022 Data.....	13
4.2.2 Summary of Statistical Analyses.....	13
5.0 NATURE AND EXTENT.....	14
5.1 Alternate Source Demonstrations.....	14
6.0 MONITORING PROGRAM STATUS.....	15
6.1 Assessment Monitoring Status.....	15
6.2 Assessment of Corrective Measures.....	15

7.0	CONCLUSIONS AND FUTURE ACTIONS.....	16
8.0	REFERENCES	17

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 Groundwater Analytical Data
Table 6	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 – January 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
Appendix D	Alternate Source Demonstration – Lithium, Georgia Power Company, Plant Hammond Ash Pond 1

LIST OF ACRONYMS AND ABBREVIATIONS

ACM	Assessment of Corrective Measures
AP-1	Ash Pond 1
ASD	Alternate Source Demonstration
CCR	coal combustion residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
ft/day	feet per day
ft/ft	feet per foot
GA-20	Georgia Highway 20
GA EPD	Georgia Environmental Protection Division
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
GSC	Groundwater Stats Consulting
GWPS	Groundwater Protection Standard
HAR	Hydrogeologic Assessment Report
i	horizontal hydraulic gradient
K_h	horizontal hydraulic conductivity
MCL	Maximum Contaminant Level
mg/L	milligram per liter
n_e	effective porosity
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity units
ORP	oxidation reduction potential
Pace Analytical	Pace Analytical Services, LLC.
PE	professional engineer
PL	prediction limit
QA/QC	Quality Assurance/Quality Control
SSI	statistically significant increase
SSL	statistically significant level
s.u.	standard unit
Unified Guidance	Statistical Analysis of Groundwater Data at RCRA Facilities Unified Guidance
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residual Rule (federal CCR Rule) [40 Code of Federal Regulations (CFR) Part 257, Subpart D] and the Georgia Environmental Protection Division (GA EPD) Rules for Solid Waste Management 391-3-4-.10, Geosyntec Consultants, Inc. (Geosyntec) has prepared this *2022 Semiannual Groundwater Monitoring and Corrective Action Report* to document groundwater monitoring activities conducted at Georgia Power Company (Georgia Power) Plant Hammond (Site) Ash Pond 1 (AP-1) for the reporting period of January through July 2022 (referred to herein as the 2022 semiannual reporting period).

Groundwater monitoring and reporting for the CCR unit is performed in accordance with the monitoring requirements of § 257.90 through 257.95 of the federal CCR Rule, and GA EPD Rules for Solid Waste Management 391-3-4-.10(6). To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the federal CCR Rule. For ease of reference, the federal CCR Rule is cited within this report in lieu of citing both sets of regulations.

Due to statistically significant levels (SSLs) of arsenic and molybdenum identified in the *2018 Annual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2019a), Georgia Power initiated an assessment of corrective measures (ACM) program for AP-1 in January 2019. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-1 in accordance with the assessment monitoring program established for the unit, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

The current reporting period groundwater data indicate that SSLs for arsenic and molybdenum concentrations are horizontally and vertically delineated to below their corresponding groundwater protection standards (GWPS) and contained within the property boundary.

1.1 Site Description and Background

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

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

AP-1 is a 35-acre surface impoundment located at Plant Hammond that received CCR materials from its commission in 1952 until 1969. After 1969, AP-1 was utilized as a co-treatment pond to handle return water flows from the other ponds and for recycling of process water for plant operations. Georgia Power will close AP-1 through removal of the CCR material from the CCR unit; closure activities will be conducted in accordance with § 257.102 and corresponding Rule 391-3-4-.10(7)(b). The proposed closure by removal approach provides a source control measure that reduces the potential for migration of CCR constituents to groundwater. Details of the closure approach are provided in the Initial Written Closure Plan, published in 2016 to Georgia Power's CCR Rule Compliance website. Closure permit No. 057-023D(CCR) was approved by GA EPD on June 22, 2020.

1.2 Regional Geology and Hydrogeologic Setting

The following section summarizes the geologic and hydrogeologic conditions at AP-1 as described in the *Hydrogeologic Assessment Report Revision 01 – AP-1* (HAR Rev 01) submitted to GA EPD in December 2019 in support of the AP-1 solid waste handling permit (Geosyntec, 2019c).

1.2.1 Regional and Site Geology

The Site is located within the Great Valley District of the Valley and Ridge Physiographic Province (Valley and Ridge) in northwest Georgia. The Valley and Ridge is characterized by Paleozoic sedimentary rocks that have been folded and faulted into the ridges and valleys that gave this region its name. Geologic mapping performed at the Site by Petrologic Solutions, Inc., under the direction of Golder (Golder, 2018), indicates that AP-1 is underlain by the middle units of the Cambrian age Conasauga Formation, consisting of mostly shaley limestone. Subsurface investigations at AP-1 describe the bedrock as limestone or shaley limestone. AP-1 is underlain primarily by five lithologic units: (i) fill; (ii) terrace alluvium; (iii) residuum; (iv) highly weathered/fractured shaley limestone bedrock; and (v) competent shaley limestone bedrock.

Based on subsurface investigations, the fill material is composed of lean clay or gravelly lean clay with sand from the construction of the pond. The terrace alluvium consists of unconsolidated sediments associated with deposition from the Coosa River and Cabin Creek. Alluvium was variously described as well sorted and poorly sorted sand, clayey sand, sandy gravel, clayey gravel, or gravelly clay. The residuum clay layer or native

soils have been derived from the in-place weathering of the shaley limestone bedrock. The residuum is generally described as a lean to fat clay, sometimes silty with some sand, and rarely gravel. The subsurface investigation data suggest that the residuum thins out in places, and the alluvial deposits is in direct contact with the upper fractured or the unweathered limestone bedrock. Just below the residuum clay layer is a gradational zone of varying proportions of clayey residuum and sand, gravel, and cobble-sized angular pieces of partially weathered limestone, grading into a zone of fractured shaley limestone, before grading into unweathered, fresh shaley limestone bedrock. The upper highly weathered zone appears more as residuum with various sized rock fragments. The lower zone becomes less clayey with depth and is estimated to be approximately 10 feet thick. The limestone is described as medium to dark gray, very finely laminated with lighter and darker gray layers, and contains interbeds of calcareous shale.

1.2.2 Hydrogeologic Setting

The uppermost aquifer at AP-1 is a regional groundwater aquifer that occurs in the terrace alluvium, residuum, and the weathered and fractured bedrock. The uppermost aquifer is considered to be unconfined; however, localized, semi-confined conditions may be encountered due to the low-permeability clayey nature of the residual soils, or as a result of perched groundwater or poorly interconnected fracture networks in the bedrock. The movement of groundwater in the uppermost aquifer can be characterized as low-to moderate permeability porous media flow. Groundwater flow in the more competent underlying bedrock is characterized as fracture flow. The regional groundwater flow direction is expected to be from north to south; however, the local flow direction proximal to AP-1 is to both the east and south under current pre-closure conditions. Under post-closure conditions, the groundwater flow direction is anticipated to resemble the regional flow regime more closely (north to south toward the Coosa River).

1.3 Groundwater Monitoring Well Network

In accordance with § 257.91, a groundwater monitoring system was installed at AP-1 that consists of a sufficient number of wells installed at appropriate locations and depths to yield groundwater samples from the uppermost aquifer to represent the groundwater quality both upgradient of the units (i.e., background conditions) and passing the waste boundary of the units. The number, spacing, and depths of the groundwater monitoring wells were selected based on the characterization of site-specific hydrogeologic conditions.

As part of the assessment monitoring program, delineation wells have been installed since mid-2018 to characterize the nature and extent of arsenic, lithium, and molybdenum in

groundwater downgradient of AP-1. Pursuant to § 257.195(g)(1)(iv), the wells classified as “delineation wells” will continue to be sampled concurrently with the compliance monitoring well network as part of the ongoing assessment groundwater monitoring program.

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

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

2.0 GROUNDWATER MONITORING ACTIVITIES

In accordance with § 257.90(e), the following describes monitoring-related activities performed during the 2022 semiannual 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 compliance monitoring wells, delineation wells, or piezometers were installed during this 2022 semiannual reporting period.

The well and piezometer networks are inspected semiannually to evaluate if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In January/February 2022, the networks were inspected, necessary corrective actions were identified and subsequently completed, as documented in **Appendix A**. This documentation was performed under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Georgia Power initiated an assessment monitoring program for groundwater at AP-1 in January 2018. Statistical analyses of the 2018 assessment monitoring data identified an SSL of arsenic in HGWC-13 and SSLs of molybdenum in HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, and HGWC-13 in excess of their associated federal and/or state GWPS, as derived at that time. Statistical analyses of groundwater data obtained since 2018 has identified SSLs of lithium in HGWC-13, MW-25D, and MW-30D, fluoride in MW-30D, and molybdenum in MW-19 and MW-40D in excess of federal and/or state GWPS, as derived at that time.

Pursuant to § 257.96, an ACM was initiated for AP-1 in January 2019. An *Assessment of Corrective Measures Report – Plant Hammond Ash Pond 1 (AP-1)* (ACM Report) was subsequently prepared for AP-1 (Geosyntec, 2019b) and submitted to GA EPD in June 2019 and posted to Georgia Power’s CCR Rule Compliance website in July 2019. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022, under separate cover (Geosyntec, 2022a). In accordance with § 257.96(b), groundwater continues to be monitored at AP-1 under the assessment monitoring program while the ACM phase is implemented.

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

In support of the routine assessment monitoring program, the first semiannual assessment monitoring event was conducted in January/February 2022. The number of groundwater samples collected for analysis and the dates the samples were collected at AP-1 during this 2022 semiannual reporting period are summarized in **Table 2**. Details of this event and analytical results are discussed in Section 3.

3.0 SAMPLING METHODOLOGY AND ANALYSES

The following section presents a summary of the field sampling procedures that were implemented, and the groundwater sampling results that were obtained in connection with the assessment monitoring program conducted at AP-1 in January/February 2022 during the 2022 semiannual reporting period.

3.1 Groundwater Level Measurement

A synoptic round of depth-to-groundwater-level measurements were recorded from the AP-1 wells and piezometers on January 31, 2022, and used to calculate the corresponding groundwater elevations, which are presented in **Table 3**. The reported elevations are generally representative of the groundwater elevations reported for prior monitoring events.

The groundwater elevation data were used to prepare a potentiometric surface map for the January/February 2022 event, which is presented on **Figure 3**. Groundwater in the AP-1 area flows under the influence of topography from slightly higher elevations on the north side of the Site in a generally easterly and southerly direction.

3.2 Groundwater Gradient and Flow Velocity

The horizontal groundwater hydraulic gradients within the uppermost aquifer beneath AP-1 were calculated using the groundwater elevation data from the January/February 2022 event. Horizontal hydraulic gradients were calculated along the flow path south of AP-1 between HGWC-13 and MW-7 and between HGWC-8 and MW-20 along the flow path east of AP-1. The supporting calculations are presented in **Table 4**. The table also presents the average hydraulic gradients calculated from the January/February event. The general trajectory of the flow paths used in the calculations and associated potentiometric contour lines are shown on **Figure 3**. The calculated average hydraulic gradients along the southerly and easterly groundwater flow path lines associated with AP-1 for the 2022 semiannual reporting period are 0.023 feet per foot (ft/ft) and 0.027 ft/ft, respectively.

The approximate horizontal flow velocities associated with AP-1 were calculated using the following derivative of Darcy's Law. The calculations are presented on **Table 4**.

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

where:

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

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

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

h_1 and h_2 = Groundwater elevation at location 1 and 2

L = Distance between location 1 and 2

n_e = Effective porosity

The average horizontal hydraulic conductivity (K_h) for AP-1 of 11.82 feet per day (ft/day) was computed from slug test data derived from ten locations across the AP-1 area and presented in the HAR Rev 01 (Geosyntec, 2019c). An estimated effective porosity (n_e) of 0.15 is used to represent average conditions at AP-1, derived based on review of literature (Kresic, 2007), observed site lithology, and professional judgement. With these variables defined, and accounting for the averaged hydraulic gradient discussed above for the January/February 2022 event, the average groundwater flow velocity in the vicinity of AP-1, for the 2022 semiannual reporting period, was calculated to be 2.0 ft/day (i.e., average of the southerly and easterly flow velocities).

3.3 Groundwater Sampling Procedures

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

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

- pH \pm 0.1 standard units (s.u.).
- Conductivity \pm 5%.
- \pm 0.2 milligrams per liter (mg/L) or \pm 10% (whichever is greater) for DO $>$ 0.5 mg/L. No criterion applies if DO $<$ 0.5 mg/L, record only.
- Turbidity measured less than 5 nephelometric turbidity units (NTU) or measured between 5 and 10 NTU following three hours of purging.

Following purging, and once stabilization was achieved, unfiltered samples were collected into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Pace Analytical Services, LLC. (Pace Analytical) in Peachtree Corners, Georgia following chain-of-custody protocol. The field sampling and equipment calibration forms generated during the monitoring events conducted throughout the 2022 semiannual 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 analyzed for this project. Analytical methods used for groundwater sample analyses, and associated results, are listed in the analytical laboratory reports included in **Appendix B**. The groundwater analytical results from the 2022 semiannual assessment monitoring event are summarized in **Table 5**.

3.5 Quality Assurance and Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events in accordance with the site's *Groundwater Monitoring Plan* (Geosyntec, 2021c), and included the following: field duplicates, equipment blanks,

and field blank samples. QA/QC samples were collected in appropriately preserved laboratory-provided containers and submitted under the same chain of custody as the primary samples for analysis of the same constituents by Pace Analytical.

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

4.0 STATISTICAL ANALYSIS

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

4.1 Statistical Methods

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

Appendix III statistical analysis was performed to assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis reports provided in **Appendix C** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 6**. On February 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4.10(6) to incorporate updated Federal GWPS where a maximum contaminant level (MCL) has not been established. These levels were specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L) and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents are higher. Therefore the statistical reports and **Table 6** do not differentiate between two sets of GWPS as previously required.

4.1.1 Appendix III Statistical Methods

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs) combined with a 1-of-2 verification resample plan for each of the Appendix III constituents. Interwell PLs pool upgradient well data to establish a background limit for an individual constituent, and the

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

4.1.2 Appendix IV Statistical Methods

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

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

USEPA revised the federal CCR Rule on July 30, 2018, updating GWPS for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is defined by the below criteria. These criteria were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022. Therefore, the statistical evaluation for the January/February 2022 event was updated to reflect these changes.

- (1) The MCL established under § 141.62 and § 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L;
 - (ii) Lead 0.015 mg/L;
 - (iii) Lithium 0.040 mg/L; and

(iv) Molybdenum 0.10 mg/L.

- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

Following the above requirements, GWPS have been established for statistical comparison of Appendix IV constituents and are presented in **Table 6**.

4.2 Statistical Analyses Results

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

4.2.1 January/February 2022 Data

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

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

4.2.2 Summary of Statistical Analyses

The SSLs identified for the 2022 semiannual reporting period are generally consistent with previous reporting periods, with the following exceptions:

- No SSLs of molybdenum were identified in HGWC-7, HGWC-9, HGWC-11, HGWC-12, and MW-19. All previously identified SSLs of molybdenum in these wells have at all times complied with the GWPS, as established by GA EPD on February 22, 2022.
- Lithium was detected in background compliance monitoring well HGWA-44D at 0.048 mg/L, and above the USEPA federal GWPS of 0.04 mg/L. As described in Section 4.1.2, the background concentration supersedes the federal GWPS. All previous SSLs of lithium reported in MW-25D have at all times complied with the GWPS of 0.048 mg/L.

5.0 NATURE AND EXTENT

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

The identified SSL of arsenic in HGWC-13 is horizontally and vertically delineated to below the GWPS by MW-19 and MW-24D, respectively. Similarly, the SSL of molybdenum in HGWC-8 is horizontally and vertically delineated by MW-20 and MW-27D, respectively.

5.1 Alternate Source Demonstrations

An initial ASD was prepared and submitted to GA EPD on January 29, 2021, to address the fluoride and lithium SSLs reported for MW-30D and molybdenum SSL reported for MW-40D (Geosyntec, 2021a). The ASD presented multiple lines of evidence that the SSLs are not associated with a release from AP-1, but are instead a result of natural variation in groundwater quality due to the limited (i.e., MW-30D) or no (i.e., MW-40D) connection these wells have to the uppermost aquifer as evidenced by: (i) slow recharge encountered within the deeper delineation wells installed in less fractured bedrock zones; (ii) starkly different groundwater elevations in these wells compared to other site wells; and (iii) very different geochemical conditions. In addition to being submitted to GA EPD under separate cover, the ASD was also included as an appendix to the *2020 Annual Groundwater Monitoring and Corrective Action Report* (Geosyntec, 2021b).

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

6.0 MONITORING PROGRAM STATUS

6.1 Assessment Monitoring Status

Pursuant to § 257.96(b), Georgia Power will continue to monitor the groundwater at AP-1 in accordance with the assessment monitoring program regulations of § 257.95 while ACM efforts are implemented to address SSLs of arsenic and molybdenum in select AP-1 wells. Pursuant to § 257.195(g)(1)(iv), the delineation wells will continue to be sampled as part of the ongoing assessment groundwater monitoring program.

6.2 Assessment of Corrective Measures

During the 2022 semiannual reporting period, a *Draft Remedy Selection Report* was prepared in lieu of the *Semiannual Remedy Selection and Design Progress Reports* previously included in the appendix of this semiannual groundwater monitoring and corrective action report. The *Draft Remedy Selection Report* was submitted under separate cover on August 31, 2022. The report summarizes:

- The current groundwater conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Geosyntec, 2019b);
- Assessment of corrective action investigations completed to date;
- An evaluation of each corrective measure retained for further consideration following the completed investigations;
- A comparison of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation; and
- A summary of the proposed corrective measure, or measures, for AP- 1.

7.0 CONCLUSIONS AND FUTURE ACTIONS

This 2022 *Semiannual Groundwater Monitoring and Corrective Action Report* for Plant Hammond AP-1 was prepared to fulfill the requirements of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10. Statistical analyses of the groundwater monitoring data for AP-1 for the 2022 semiannual reporting period identified the continued presence of SSLs of arsenic and molybdenum in HGWC-13 and HGWC-8, respectively. Based on the most current groundwater quality, the SSLs are vertically and horizontally delineated to below their respective GWPS within the property boundary.

Georgia Power will continue to monitor AP-1 groundwater under the assessment monitoring program as aspects of the ACM program are implemented to address the Appendix IV SSLs. A *Draft Remedy Selection Report*, which summarizes the evaluation and proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022, under separate cover. The next routine semiannual assessment monitoring event for AP-1 is scheduled for August 2022. The August 2022 assessment monitoring event will include sampling and analysis of all Appendix III and IV constituents.

8.0 REFERENCES

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TABLES

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

Well ID	Hydraulic Location	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (ft)	Top of Casing Elevation ⁽¹⁾ (ft)	Top of Screen Elevation ⁽¹⁾ (ft)	Bottom of Screen Elevation ⁽¹⁾ (ft)	Well Depth (ft BTOC) ⁽²⁾	Screen Interval Length (ft)
Compliance Monitoring Well										
HGWA-1	Upgradient	12/3/2014	1550423.32	1940770.00	592.32	595.21	573.12	563.12	32.49	10
HGWA-2	Upgradient	12/2/2015	1549796.87	1939845.15	585.29	587.92	570.29	560.29	27.95	10
HGWA-3	Upgradient	12/2/2015	1549794.41	1939833.39	585.23	587.74	553.23	543.23	44.51	10
HGWA-43D	Upgradient	8/26/2020	1550422.85	1940753.81	592.08	595.08	544.08	534.08	61.25	10
HGWA-44D	Upgradient	8/25/2020	1550409.13	1940756.19	592.01	594.79	491.76	481.76	113.50	10
HGWC-7	Downgradient	12/3/2015	1549520.67	1942319.75	576.55	579.18	561.55	551.55	27.96	10
HGWC-8	Downgradient	12/8/2015	1549114.61	1942392.56	577.14	579.82	564.64	554.64	25.51	10
HGWC-9	Downgradient	12/9/2015	1548693.30	1942215.03	577.72	580.36	543.72	533.72	46.97	10
HGWC-10	Downgradient	12/8/2015	1548469.25	1941644.43	576.76	579.37	566.76	556.76	22.94	10
HGWC-11	Downgradient	12/15/2015	1548477.91	1941146.79	578.12	580.67	565.19	555.19	25.78	10
HGWC-12	Downgradient	12/9/2015	1548476.53	1941152.34	578.14	580.73	555.64	545.64	35.42	10
HGWC-13	Downgradient	12/10/2015	1548628.03	1940900.60	592.94	595.76	560.94	550.94	45.15	10
Delineation Monitoring Well										
MW-5	Downgradient	11/4/2014	1548436.02	1942448.85	578.00	581.14	560.70	550.70	30.84	10
MW-6	Downgradient	11/4/2014	1548383.12	1941689.01	579.18	581.84	559.28	549.28	32.96	10
MW-7	Downgradient	10/30/2014	1548230.47	1941087.44	574.94	577.73	561.24	551.24	26.89	10
MW-19	Downgradient	9/26/2018	1548422.94	1940943.01	577.46	580.65	561.45	551.45	29.53	10
MW-20	Downgradient	9/27/2018	1549029.68	1942736.85	575.96	579.00	554.96	544.96	34.37	10
MW-24D	Downgradient	11/7/2018	1548638.80	1940900.37	592.91	595.68	532.91	522.91	72.77	10
MW-25D	Downgradient	11/6/2018	1548473.00	1941162.20	577.71	580.59	527.71	517.71	63.21	10
MW-26D	Downgradient	11/14/2018	1548699.91	1942222.36	577.63	580.41	512.63	502.63	78.11	10
MW-27D	Downgradient	11/8/2018	1549103.57	1942390.80	576.84	579.70	526.84	516.84	63.19	10
MW-28D	Downgradient	11/13/2018	1549510.90	1942321.14	576.20	579.08	531.20	521.20	58.21	10
MW-29	Downgradient	11/13/2018	1549437.67	1942633.60	572.14	575.06	557.14	547.14	28.25	10
Piezometer										
APIA-1	Upgradient	12/15/2015	1550080.01	1941614.12	584.78	587.44	575.84	565.84	21.93	10
MW-1	Upgradient	12/2/2014	1549938.24	1941589.06	585.63	588.66	567.93	557.93	31.06	10
MW-8	Downgradient	10/29/2014	1548171.86	1940016.70	584.25	586.93	565.05	555.05	32.72	10
MW-30D	Downgradient	6/19/2019	1549530.00	1942318.45	576.20	578.59	481.20	471.20	107.72	10
MW-40D	Downgradient	4/29/2020	1549542.29	1942316.55	576.41	578.92	450.41	440.41	138.84	10

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Elevations referenced to the North American Vertical Datum of 1988 (NAVD88). Survey data certified by GEL Solutions May 19, 2020. Survey data for HGWA-43D and HGWA-44D certified by GEL Solutions September 10, 2020.

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

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

Well ID	Hydraulic Location	January 31 - February 10, 2022	Status of Monitoring Well
Purpose of Sampling Event:		Assessment	
<i>Compliance 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
HGWC-7	Downgradient	X	Assessment
HGWC-8	Downgradient	X	Assessment
HGWC-9	Downgradient	X	Assessment
HGWC-10	Downgradient	X	Assessment
HGWC-11	Downgradient	X	Assessment
HGWC-12	Downgradient	X	Assessment
HGWC-13	Downgradient	X	Assessment
<i>Delineation Monitoring Well</i>			
MW-5	Downgradient	X	Assessment
MW-6	Downgradient	X	Assessment
MW-7	Downgradient	X	Assessment
MW-19	Downgradient	X	Assessment
MW-20	Downgradient	X	Assessment
MW-24D	Downgradient	X	Assessment
MW-25D	Downgradient	X	Assessment
MW-26D	Downgradient	X	Assessment
MW-27D	Downgradient	X	Assessment
MW-28D	Downgradient	X	Assessment
MW-29	Downgradient	X	Assessment

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

Well ID	Top of Casing Elevation ⁽¹⁾ (ft)	January 31, 2022	
		Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)
<i>Compliance Monitoring Well Network</i>			
HGWA-1	595.21	13.02	582.19
HGWA-2	587.92	8.18	579.74
HGWA-3	587.74	7.73	580.01
HGWA-43D	595.08	12.97	582.11
HGWA-44D	594.79	13.05	581.74
HGWC-7	579.18	5.95	573.23
HGWC-8	579.82	6.85	572.97
HGWC-9	580.36	16.29	564.07
HGWC-10	579.37	17.15	562.22
HGWC-11	580.67	18.22	562.45
HGWC-12	580.73	18.31	562.42
HGWC-13	595.76	24.36	571.40
<i>Delineation Monitoring Well</i>			
MW-5	581.14	18.95	562.19
MW-6	581.84	19.59	562.25
MW-7	577.73	16.64	561.09
MW-19	580.65	15.04	565.61
MW-20	579.00	15.42	563.58
MW-24D	595.68	30.05	565.63
MW-25D	580.59	18.06	562.53
MW-26D	580.41	16.39	564.02
MW-27D	579.70	6.73	572.97
MW-28D	579.08	5.88	573.20
MW-29	575.06	5.60	569.46
<i>Piezometer</i>			
AP1A-1	587.44	7.85	579.59
MW-1	588.66	9.08	579.58
MW-8	586.93	19.65	567.28
MW-30D	578.59	3.49	575.10
MW-40D	578.92	125.79	453.13
<i>Surface Water Level Gauge Point</i>			
AP-1 Staff	--	--	577.00
Coosa River	--	--	560.40

Notes:

-- = not applicable

ft = feet

ft BTOC = feet below top of casing

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

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

Flow Path Direction ⁽¹⁾	January 31, 2022			
	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)
Southerly Flow Path (HGWC-13 to MW-7)	571.40	561.09	450	0.023
Easterly Flow Path (HGWC-8 to MW-20)	572.97	563.58	350	0.027

Flow Path Direction ⁽¹⁾	K _h (ft/day)	n _e	Average		
			i (ft/ft)	V (ft/day) ⁽²⁾	V (ft/day) ⁽³⁾
Southerly Flow Path (HGWC-13 to MW-7)	11.82	0.15	0.023	1.8	2.0
Easterly Flow Path (HGWC-8 to MW-20)	11.82	0.15	0.027	2.1	

Notes:

ft = feet

ft/day = feet per day

ft/ft = feet per foot

h₁ and h₂ = groundwater elevation at location 1 and 2

i = h₁-h₂/L = horizontal hydraulic gradient

K_h = horizontal hydraulic conductivity

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

n_e = effective porosity

V = groundwater flow velocity

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

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

(3) Average groundwater flow velocity for unit.

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

Well ID:		HGWA-1	HGWA-2	HGWA-3	HGWA-43D	HGWA-44D	HGWC-7	HGWC-8	HGWC-9	HGWC-10	HGWC-11	HGWC-12	HGWC-13
Sample Date:		2/1/2022	2/1/2022	2/1/2022	2/1/2022	2/1/2022	2/10/2022	2/10/2022	2/9/2022	2/9/2022	2/9/2022	2/9/2022	2/10/2022
Parameter ^(1,2,3)													
APPENDIX III	Boron	0.016 J	0.056	0.011 J	0.050	0.44	1.3	1.7	2.3	0.10	1.0	2.0	1.0
	Calcium	106	27.2	85.1	55.9	24.8	108	153	183	76.8	144	172	206
	Chloride	7.5	7.0	5.7	4.1	44.8	39.8	48.2	84.4	1.2	20.4	46.8	17.4
	Fluoride	0.064 J	<0.050	<0.050	0.19	0.96	0.083 J	0.42	0.10	0.12	0.20	0.20	0.53
	pH	7.19	5.24	7.45	7.52	8.25	7.22	6.99	7.30	7.00	6.55	7.23	7.54
	Sulfate	43.7	67.1	46.0	37.5	56.3	97.5	224	224	49.2	276	252	371
	TDS	270	156	350	156	444	414	578	756	250	544	678	814
APPENDIX IV	Antimony	<0.00078	<0.00078	<0.00078	<0.00078	0.0013 J	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078
	Arsenic	0.0016 J	0.0023 J	0.0024 J	0.0036 J	0.0025 J	<0.0011	0.0020 J	0.0021 J	<0.0011	0.0047 J	0.0053	0.38
	Barium	0.031	0.13	0.12	0.29	0.23	0.063	0.056	0.096	0.042	0.042	0.075	0.053
	Beryllium	<0.000054	0.00020 J	<0.000054	<0.000054	<0.000054	<0.000054	0.000071 J	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054
	Cadmium	<0.00011	0.00017 J	<0.00011	<0.00011	<0.00011	<0.00011	0.00029 J	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011
	Chromium	<0.0011	<0.0011	<0.0011	<0.0011	0.0013 J	<0.0011	<0.0011	0.0011 J	0.0011 J	<0.0011	<0.0011	<0.0011
	Cobalt	<0.00039	0.025	<0.00039	<0.00039	<0.00039	0.0011 J	0.0021 J	0.00051 J	<0.00039	<0.00039	0.0013 J	0.0026 J
	Fluoride	0.064 J	<0.050	<0.050	0.19	0.96	0.083 J	0.42	0.10	0.12	0.20	0.20	0.53
	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	0.0011 J	0.0017 J	0.0037 J	0.0024 J	0.048	0.0022 J	0.0030 J	0.0041 J	<0.00073	<0.00073	0.010 J	0.031
	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	0.0036 J	0.0055 J	0.045	0.34	0.034	<0.00074	0.03	0.042	0.033
	Comb. Radium 226/228	0.143 U	0.588 U	0.266 U	1.12	0.665 U	0.175 U	0.945 U	0.198 U	0.490 U	0.444 U	0.564 U	0.442 U
	Selenium	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014	0.0031 J	0.0035 J	<0.0014	<0.0014
Thallium	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	<0.00018	

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 SM2540-2011, and combined radium 226/228 by EPA Methods 9315/9320.

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

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

Well ID:		MW-5	MW-6	MW-7	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D	MW-28D	MW-29
Sample Date:		2/9/2022	2/9/2022	2/8/2022	2/9/2022	2/10/2022	2/10/2022	2/9/2022	2/9/2022	2/10/2022	2/10/2022	2/10/2022
Parameter ^(1,2,3)												
APPENDIX III	Boron	0.042	0.96	0.19	0.49	0.13	0.55	0.43	2.3	0.13	0.23	1.4
	Calcium	68.1	178	73.3	97.6	123	110	23.5	176	31.4	58.5	156
	Chloride	0.74 J	37.9	6.9	10.2	31.4	38.2	26.5	85.7	31.4	29.0	66.0
	Fluoride	0.056 J	0.059 J	<0.050	0.076 J	<0.050	0.051 J	1.7	0.092 J	0.25	0.22	<0.050
	pH	6.13	7.01	6.73	6.28	7.19	7.82	7.82	7.32	7.96	7.59	7.27
	Sulfate	123	197	80.4	221	95.9	127	1.7	224	13.2	32.5	141
	TDS	314	652	290	503	459	412	364	734	242	299	508
APPENDIX IV	Antimony	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078	<0.00078
	Arsenic	0.0013 J	0.0034 J	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0017 J	<0.0011	<0.0011	<0.0011
	Barium	0.042	0.074	0.053	0.042	0.082	0.048	0.60	0.066	0.99	0.76	0.072
	Beryllium	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054	<0.000054
	Cadmium	<0.00011	<0.00011	<0.00011	0.0011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011	<0.00011
	Chromium	0.0031 J	<0.0011	0.0016 J	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0011 J	<0.0011
	Cobalt	<0.00039	0.00059 J	<0.00039	0.03	<0.00039	<0.00039	<0.00039	0.00059 J	<0.00039	<0.00039	0.00089 J
	Fluoride	0.056 J	0.059 J	<0.050	0.076 J	<0.050	0.051 J	1.7	0.092 J	0.25	0.22	<0.050
	Lead	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.00089	<0.0044
	Lithium	<0.00073	<0.00073	<0.00073	0.0067 J	0.00099 J	0.0029 J	0.048	0.0039 J	0.0086 J	0.014 J	0.0023 J
	Mercury	<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	0.0026 J	0.0012 J	0.011	<0.00074	0.00080 J	<0.00074	0.028	0.0017 J	0.0031 J	0.0036 J
	Comb. Radium 226/228	0.567 U	0.619 U	0.417 U	0.245 U	0.320 U	0.178 U	0.754 U	0.0677 U	0.809 U	1.96 U	0.594 U
	Selenium	0.0027 J	<0.0014	0.0015 J	0.0036 J	<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	<0.00090	

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

Analyte	Units	MCL	CCR-Rule Specified ⁽¹⁾	Background Limit ⁽²⁾	GWPS ⁽³⁾
Antimony	mg/L	0.006		0.003	0.006
Arsenic	mg/L	0.01		0.005	0.01
Barium	mg/L	2		0.46	2
Beryllium	mg/L	0.004		0.0005	0.004
Cadmium	mg/L	0.005		0.0005	0.005
Chromium	mg/L	0.1		0.0079	0.1
Cobalt	mg/L	N/A	0.006	0.038	0.038
Fluoride	mg/L	4		0.96	4
Lead	mg/L	N/A	0.015	0.001	0.015
Lithium	mg/L	N/A	0.04	0.048	0.048
Mercury	mg/L	0.002		0.0002	0.002
Molybdenum	mg/L	N/A	0.1	0.01	0.1
Selenium	mg/L	0.05		0.005	0.05
Thallium	mg/L	0.002		0.001	0.002
Combined Radium-226/228	pCi/L	5		4.36	5

Notes:

mg/L = milligrams per liter

pCi/L = picocuries per liter

MCL = Maximum Contaminant Level

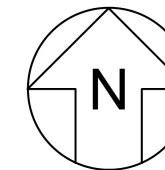
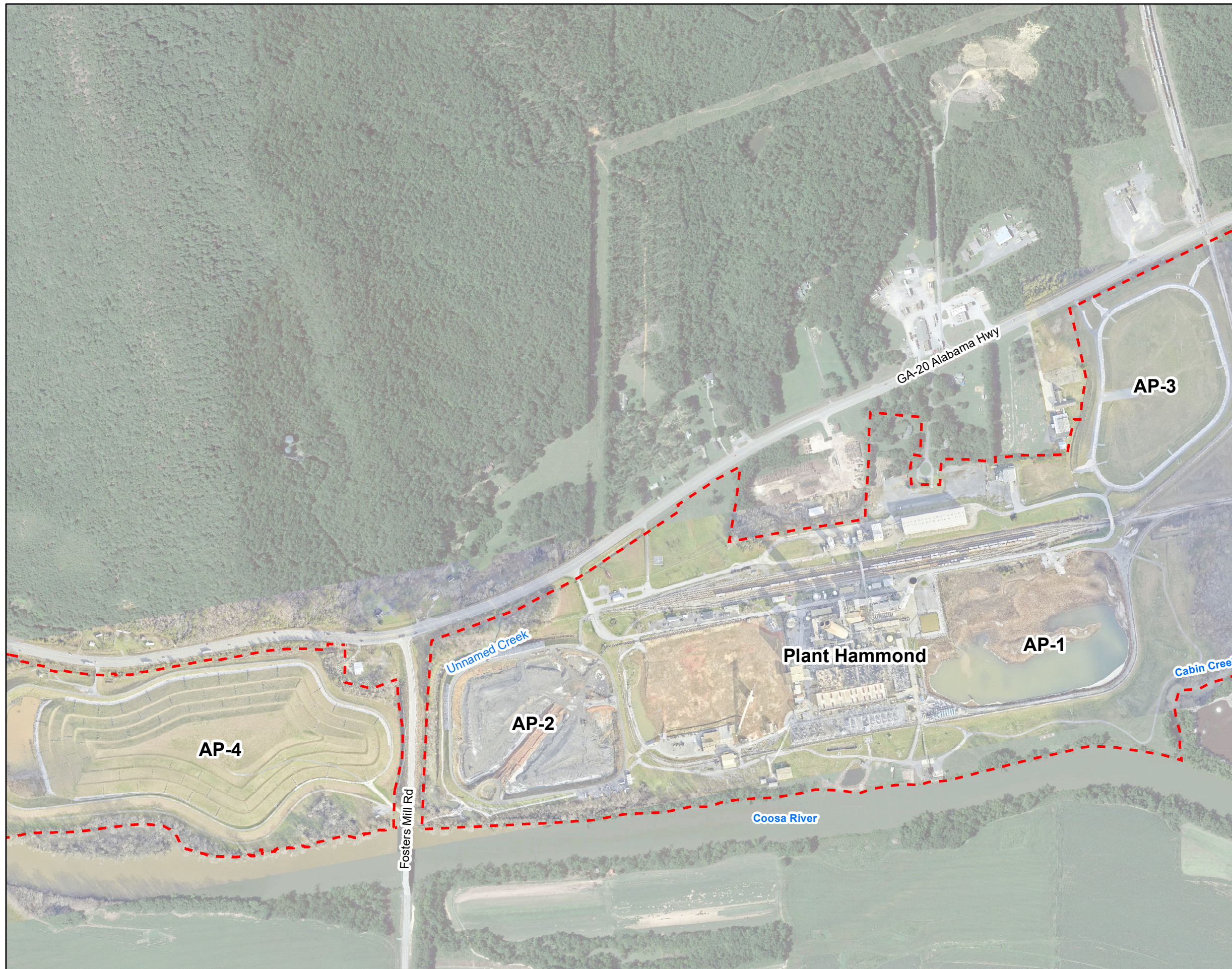
CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard

N/A = Not Applicable

- (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.

FIGURES



LEGEND

Plant Hammond Property Boundary



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



SCALE IN FEET

SITE LOCATION MAP

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

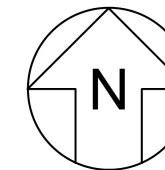
Prepared For: Georgia Power

Prepared By: Geosyntec
 consultants

KENNESAW, GA

AUGUST 2022

**FIGURE
 1**



LEGEND

- Compliance Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Surface Water Level Gauge Point
- Approximate AP-1 Boundary
- Plant Hammond Property Boundary

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



MONITORING WELL NETWORK AND SAMPLING LOCATION MAP

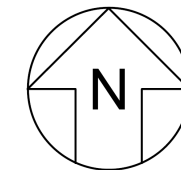
GEORGIA POWER COMPANY
 PLANT HAMMOND AP-1
 ROME, FLOYD COUNTY, GEORGIA

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA AUGUST 2022

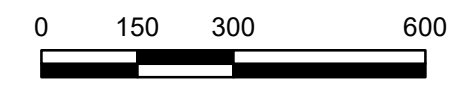
FIGURE
2



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

Notes:

1. Water level elevation recorded on January 31, 2022. Elevation provided in feet (ft) referenced to the North American Vertical Datum of 1988 (NAVD 88).
2. Groundwater elevations in parentheses were not used to make the groundwater contours because these wells are screened at a different elevation in the formation/aquifer.
3. Aerial photograph source: Google Earth Pro, August 2019 and Georgia Power Company, January 2022.



SCALE IN FEET



POTENTIOMETRIC SURFACE CONTOUR MAP - JANUARY 2022

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

Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA AUGUST 2022

FIGURE
3

APPENDIX A

Well Maintenance and Repair Documentation Memorandum

MEMORANDUM

DATE: March 25, 2022

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

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

FROM: Geosyntec Consultants

SUBJECT: Plant Hammond Ash Pond 1 (AP-1) – Well Maintenance and Repair Documentation, Georgia Power Company

Geosyntec Consultants has prepared this memorandum to provide documentation of groundwater monitoring well maintenance and/or repair performed at Plant Hammond AP-1 during the 2022 semiannual reporting period. All repairs and maintenance were completed in accordance with the Georgia Environmental Protection Division (GA EPD) guidance on routine visual inspections of groundwater monitoring wells. Documentation of the well inspections are provided as an attachment to this memorandum.

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

Attachment

Well Inspection Forms

Well Inspection Form

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

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

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<u>1/31/22</u>
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<u>Baldror pump</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a Are corrective actions needed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond JAP 1/1/13
 Field Technician C. CAIN
 Well ID HGLCA-2

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

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

Well Inspection Form

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

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

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

Well Inspection Form

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

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

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

Well Inspection Form

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

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1
 Field Technician Thomas Hessler
 Well ID HG102-7

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

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well in a high traffic area?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d Are appropriate measures in place to protect the well (e.g., bollards)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the well locked?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f If locked, is the well lock in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Is the well lid in good condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e Is the depth of the well consistent with past well logs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger.			<u>N/A</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>N/A</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>N/A</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>N/A</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>N/A</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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
 Field Technician A. Szwant
 Well ID HQ-WC-8

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

	Yes	No	Comments
1 Location/Identification			
a Is the well visible and accessible?	✓		
b Is the well properly identified with the correct well ID?	✓		
c Is the well in a high traffic area?		✓	
d Are appropriate measures in place to protect the well (e.g., bollards)?	✓		
e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	✓		
2 Protective Casing			
a Is the protective casing free from apparent damage and able to be secured?	✓		
b Is the casing free of degradation or deterioration?	✓		
c Does the casing have a functioning weep hole?	✓		
d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	✓		
e Is the well locked?	✓		
f If locked, is the well lock in good condition?	✓		
g Is the well lid in good condition?	✓		
3 Surface Pad			
a Is the well pad in good condition (not cracked or broken)?	✓		
b Is the well pad sloped away from the protective casing?	✓		
c Is the well pad in complete contact with the protective casing?	✓		
d Is the well pad in complete contact with the ground surface and stable (not undermined by erosion, animal burrows, and does not move when stepped on)?	✓		
e Is the pad surface clean (not covered with sediment or debris)?	✓		
4 Internal Casing			
a Does the cap prevent entry of foreign material into the well?	✓		
b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	✓		
c Is the well properly vented for equilibration of air pressure?	✓		
d Is the survey point clearly marked on the inner casing?	✓		
e Is the depth of the well consistent with the original well log?	✓		
f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling and Data Collection Equipment			
a Indicate if the well is equipped with dedicated sampling equipment , a dedicated water quality sonde , and/or dedicated water level data logger .			<i>water quality sonde dedicated sampling equipment 08/15/22 dedicated water level data logger</i>
b If equipped with dedicated sampling equipment, is it in good operational condition?		N/A	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	✓		
d Does the desiccant need to be replaced on the water quality sonde?		N/A	
e If equipped with a water level data logger, is it in good operational condition?	✓		
f Does the well recharge adequately when purged?	✓		
g Does the well require redevelopment (low flow, excess turbidity)?		✓	
6 Corrective Actions			
a Are corrective actions needed?		✓	
If yes, indicate here:			

Well Inspection Form

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

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-1
 Field Technician A. Szewast
 Well ID HGW C-10

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-1
 Field Technician C. CAIN
 Well ID HGW6-11

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-1
 Field Technician C. GAIN
 Well ID HGW-12

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

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

Well Inspection Form

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

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1
 Field Technician C. CAIN
 Well ID MW-5

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AR 1
 Field Technician C. CAIN
 Well ID MW-6

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1
 Field Technician C. CAIN
 Well ID MW-7

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-1
 Field Technician C. CAIN
 Well ID MW-19

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

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

Bollard pump

NA

NA

NA

Well Inspection Form

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

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1
 Field Technician C. CAW
 Well ID MW-24D

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

	Yes	No	Comments
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>Blander pump</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f Does the well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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
 Field Technician C. CAMN
 Well ID MW-25D

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

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

Well Inspection Form

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

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond LAP-1
 Field Technician G. GAIN
 Well ID MW-27D

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

	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 checked="" type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing			
a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5 Sampling and Data Collection Equipment			
a			<u>Blander pump</u>
b	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
d	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
e	<input type="checkbox"/>	<input type="checkbox"/>	<u>NA</u>
f	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Corrective Actions			
a	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
If yes, indicate here:			

Well Inspection Form

Plant Name/Unit Name Plant Hammond / AP-1
 Field Technician C. CAIN
 Well ID MW-28D

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

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

Well Inspection Form

Plant Name/Unit Name Plant Hammond/AP-1
 Field Technician A. Swast
 Well ID MW-29

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

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

Well Inspection Form

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

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

	Yes	No	Comments
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>NA</u>
b If equipped with dedicated sampling equipment, is it in good operational condition?			<u>NA</u>
c If equipped with a dedicated water quality sonde, is it in good operational condition?			<u>NA</u>
d Does the desiccant need to be replaced on the water quality sonde?			<u>NA</u>
e If equipped with a water level data logger, is it in good operational condition?			<u>NA</u>
f Does the well recharge adequately when purged?			<u>NA</u>
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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/HR-1
 Field Technician C. CAIN
 Well ID MW-1

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

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

Well Inspection Form

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

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

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

Well Inspection Form

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

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

	Yes	No	Comments
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"/>	NA
b If equipped with dedicated sampling equipment, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	NA
c If equipped with a dedicated water quality sonde, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	NA
d Does the desiccant need to be replaced on the water quality sonde?	<input type="checkbox"/>	<input type="checkbox"/>	NA
e If equipped with a water level data logger, is it in good operational condition?	<input type="checkbox"/>	<input type="checkbox"/>	NA
f Does the well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	NA
g Does the well require redevelopment (low flow, excess turbidity)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
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 / WP-1
 Field Technician G. CAIN
 Well ID Mbr-42D

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

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

APPENDIX B

Laboratory Analytical and Field Sampling Reports

LABORATORY ANALYTICAL REPORTS

March 22, 2022

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

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

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 03, 2022 and February 11, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Revision 1: This revision was issued on 3/22/22 to include an update COC.

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

Sincerely,



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

Enclosures

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

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: HAMMOND AP-1

Pace Project No.: 92587319

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006

9800 Kinsey Ave. Ste 100, Huntersville, NC 28078

North Carolina Drinking Water Certification #: 37706

North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001

South Carolina Drinking Water Cert. #: 99006003

Florida/NELAP Certification #: E87627

Kentucky UST Certification #: 84

Louisiana DoH Drinking Water #: LA029

Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: HAMMOND AP-1

Pace Project No.: 92587319

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1

Pace Project No.: 92587319

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587319001	MW-7	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587319002	HGWA-44D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587319003	HGWA-2	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587319004	HGWA-3	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587319005	HGWA-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587319006	HGWA-43D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92587319007	HGWC-9	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92587319008	HGWC-10	EPA 6010D	KH	1
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

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

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587319009	HGWC-11	EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92587319010	HGWC-12	SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587319011	MW-5	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92587319012	MW-6	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
92587319013	MW-19	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
92587319014	MW-25D	EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92587319015	MW-26D	SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1

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SAMPLE ANALYTE COUNT

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

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587319016	DUP-1	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587319017	HGWC-7	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587319018	HGWC-8	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587319019	HGWC-13	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587319020	MW-20	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587319021	MW-24D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587319022	MW-27D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
92587319023	MW-28D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1

Pace Project No.: 92587319

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92587319024	MW-29	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1, KH	13
		EPA 7470A	VB	1
92587319025	EB-1	SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92587319026	FB-1	SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-1

Pace Project No.: 92587319

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587319001	MW-7					
	Performed by	CUSTOMER			02/09/22 17:14	
	pH	6.73	Std. Units		02/09/22 17:14	
EPA 6010D	Calcium	73.3	mg/L	1.0	02/25/22 00:59	M1
EPA 6020B	Barium	0.053	mg/L	0.0050	02/24/22 17:54	
EPA 6020B	Boron	0.19	mg/L	0.040	02/24/22 17:54	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	02/24/22 17:54	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	02/24/22 17:54	
EPA 6020B	Selenium	0.0015J	mg/L	0.0050	02/24/22 17:54	
SM 2540C-2015	Total Dissolved Solids	290	mg/L	10.0	02/15/22 16:04	
EPA 300.0 Rev 2.1 1993	Chloride	6.9	mg/L	1.0	02/16/22 09:15	
EPA 300.0 Rev 2.1 1993	Sulfate	80.4	mg/L	1.0	02/16/22 09:15	
92587319002	HGWA-44D					
	Performed by	CUSTOMER			02/09/22 17:13	
	pH	8.25	Std. Units		02/09/22 17:13	
EPA 6010D	Calcium	24.8	mg/L	1.0	02/17/22 16:48	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	02/18/22 17:43	
EPA 6020B	Arsenic	0.0025J	mg/L	0.0050	02/18/22 17:43	
EPA 6020B	Barium	0.23	mg/L	0.0050	02/18/22 17:43	
EPA 6020B	Boron	0.44	mg/L	0.040	02/18/22 17:43	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/18/22 17:43	
EPA 6020B	Lithium	0.048	mg/L	0.030	02/18/22 17:43	
EPA 6020B	Molybdenum	0.0055J	mg/L	0.010	02/18/22 17:43	
SM 2540C-2015	Total Dissolved Solids	444	mg/L	10.0	02/07/22 16:43	
EPA 300.0 Rev 2.1 1993	Chloride	44.8	mg/L	1.0	02/08/22 12:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.96	mg/L	0.10	02/08/22 12:23	
EPA 300.0 Rev 2.1 1993	Sulfate	56.3	mg/L	1.0	02/08/22 12:23	
92587319003	HGWA-2					
	Performed by	CUSTOMER			02/09/22 17:14	
	pH	5.24	Std. Units		02/09/22 17:14	
EPA 6010D	Calcium	27.2	mg/L	1.0	02/17/22 16:53	
EPA 6020B	Arsenic	0.0023J	mg/L	0.0050	02/18/22 17:49	
EPA 6020B	Barium	0.13	mg/L	0.0050	02/18/22 17:49	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	02/18/22 17:49	
EPA 6020B	Boron	0.056	mg/L	0.040	02/18/22 17:49	
EPA 6020B	Cadmium	0.00017J	mg/L	0.00050	02/18/22 17:49	
EPA 6020B	Cobalt	0.025	mg/L	0.0050	02/18/22 17:49	
EPA 6020B	Lithium	0.0017J	mg/L	0.030	02/18/22 17:49	
SM 2540C-2015	Total Dissolved Solids	156	mg/L	10.0	02/07/22 16:43	H3
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	02/08/22 13:36	
EPA 300.0 Rev 2.1 1993	Sulfate	67.1	mg/L	1.0	02/08/22 13:36	
92587319004	HGWA-3					
	Performed by	CUSTOMER			02/09/22 17:14	
	pH	7.45	Std. Units		02/09/22 17:14	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-1

Pace Project No.: 92587319

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92587319004	HGWA-3					
EPA 6010D	Calcium	85.1	mg/L	1.0	02/17/22 16:58	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/18/22 17:55	
EPA 6020B	Barium	0.12	mg/L	0.0050	02/18/22 17:55	
EPA 6020B	Boron	0.011J	mg/L	0.040	02/18/22 17:55	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	02/18/22 17:55	
SM 2540C-2015	Total Dissolved Solids	350	mg/L	10.0	02/07/22 16:43	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/08/22 13:50	
EPA 300.0 Rev 2.1 1993	Sulfate	46.0	mg/L	1.0	02/08/22 13:50	
92587319005	HGWA-1					
	Performed by	CUSTOMER			02/09/22 17:14	
	pH	7.19	Std. Units		02/09/22 17:14	
EPA 6010D	Calcium	106	mg/L	1.0	02/17/22 17:02	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	02/18/22 18:01	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/18/22 18:01	
EPA 6020B	Boron	0.016J	mg/L	0.040	02/18/22 18:01	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	02/18/22 18:01	
SM 2540C-2015	Total Dissolved Solids	270	mg/L	10.0	02/07/22 16:44	
EPA 300.0 Rev 2.1 1993	Chloride	7.5	mg/L	1.0	02/08/22 14:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	02/08/22 14:03	
EPA 300.0 Rev 2.1 1993	Sulfate	43.7	mg/L	1.0	02/08/22 14:03	
92587319006	HGWA-43D					
	Performed by	CUSTOMER			02/09/22 17:14	
	pH	7.52	Std. Units		02/09/22 17:14	
EPA 6010D	Calcium	55.9	mg/L	1.0	02/17/22 17:07	
EPA 6020B	Arsenic	0.0036J	mg/L	0.0050	02/18/22 18:07	
EPA 6020B	Barium	0.29	mg/L	0.0050	02/18/22 18:07	
EPA 6020B	Boron	0.050	mg/L	0.040	02/18/22 18:07	
EPA 6020B	Lithium	0.0024J	mg/L	0.030	02/18/22 18:07	
EPA 6020B	Molybdenum	0.0036J	mg/L	0.010	02/18/22 18:07	
SM 2540C-2015	Total Dissolved Solids	156	mg/L	10.0	02/07/22 16:44	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	02/08/22 14:17	
EPA 300.0 Rev 2.1 1993	Fluoride	0.19	mg/L	0.10	02/08/22 14:17	
EPA 300.0 Rev 2.1 1993	Sulfate	37.5	mg/L	1.0	02/08/22 14:17	
92587319007	HGWC-9					
	Performed by	CUSTOMER			02/11/22 16:06	
	pH	7.30	Std. Units		02/11/22 16:06	
EPA 6010D	Calcium	183	mg/L	1.0	02/25/22 01:47	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	02/24/22 19:06	B
EPA 6020B	Barium	0.096	mg/L	0.0050	02/24/22 19:06	
EPA 6020B	Boron	2.3	mg/L	0.040	02/24/22 19:06	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	02/24/22 19:06	
EPA 6020B	Cobalt	0.00051J	mg/L	0.0050	02/24/22 19:06	
EPA 6020B	Lithium	0.0041J	mg/L	0.030	02/24/22 19:06	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-1

Pace Project No.: 92587319

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

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

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

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SUMMARY OF DETECTION

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

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-1

Pace Project No.: 92587319

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: HAMMOND AP-1

Pace Project No.: 92587319

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

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SUMMARY OF DETECTION

Project: HAMMOND AP-1

Pace Project No.: 92587319

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

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ANALYTICAL RESULTS

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

Sample: MW-7		Lab ID: 92587319001		Collected: 02/08/22 17:05		Received: 02/09/22 12:40		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 17:14		
pH	6.73	Std. Units			1		02/09/22 17:14		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	73.3	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 00:59	7440-70-2	M1
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 17:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 17:54	7440-38-2	
Barium	0.053	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 17:54	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 17:54	7440-41-7	
Boron	0.19	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 17:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 17:54	7440-43-9	
Chromium	0.0016J	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 17:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 17:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 17:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 17:54	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 17:54	7439-98-7	
Selenium	0.0015J	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 17:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 17:54	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:10	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	290	mg/L	10.0	10.0	1		02/15/22 16:04		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	6.9	mg/L	1.0	0.60	1		02/16/22 09:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/16/22 09:15	16984-48-8	
Sulfate	80.4	mg/L	1.0	0.50	1		02/16/22 09:15	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-1

Pace Project No.: 92587319

Sample: HGWA-44D		Lab ID: 92587319002		Collected: 02/01/22 13:35		Received: 02/03/22 12:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 17:13		
pH	8.25	Std. Units			1		02/09/22 17:13		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	24.8	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 16:48	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0013J	mg/L	0.0030	0.00078	1	02/17/22 09:52	02/18/22 17:43	7440-36-0	
Arsenic	0.0025J	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:43	7440-38-2	
Barium	0.23	mg/L	0.0050	0.00067	1	02/17/22 09:52	02/18/22 17:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/17/22 09:52	02/18/22 17:43	7440-41-7	
Boron	0.44	mg/L	0.040	0.0086	1	02/17/22 09:52	02/18/22 17:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/17/22 09:52	02/18/22 17:43	7440-43-9	
Chromium	0.0013J	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/17/22 09:52	02/18/22 17:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/17/22 09:52	02/18/22 17:43	7439-92-1	
Lithium	0.048	mg/L	0.030	0.00073	1	02/17/22 09:52	02/18/22 17:43	7439-93-2	
Molybdenum	0.0055J	mg/L	0.010	0.00074	1	02/17/22 09:52	02/18/22 17:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/17/22 09:52	02/18/22 17:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/17/22 09:52	02/18/22 17:43	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/22 08:00	02/15/22 13:24	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	444	mg/L	10.0	10.0	1		02/07/22 16:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	44.8	mg/L	1.0	0.60	1		02/08/22 12:23	16887-00-6	
Fluoride	0.96	mg/L	0.10	0.050	1		02/08/22 12:23	16984-48-8	
Sulfate	56.3	mg/L	1.0	0.50	1		02/08/22 12:23	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: HGWA-2		Lab ID: 92587319003		Collected: 02/01/22 11:52		Received: 02/03/22 12:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 17:14		
pH	5.24	Std. Units			1		02/09/22 17:14		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	27.2	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 16:53	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/17/22 09:52	02/18/22 17:49	7440-36-0	
Arsenic	0.0023J	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:49	7440-38-2	
Barium	0.13	mg/L	0.0050	0.00067	1	02/17/22 09:52	02/18/22 17:49	7440-39-3	
Beryllium	0.00020J	mg/L	0.00050	0.000054	1	02/17/22 09:52	02/18/22 17:49	7440-41-7	
Boron	0.056	mg/L	0.040	0.0086	1	02/17/22 09:52	02/18/22 17:49	7440-42-8	
Cadmium	0.00017J	mg/L	0.00050	0.00011	1	02/17/22 09:52	02/18/22 17:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:49	7440-47-3	
Cobalt	0.025	mg/L	0.0050	0.00039	1	02/17/22 09:52	02/18/22 17:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/17/22 09:52	02/18/22 17:49	7439-92-1	
Lithium	0.0017J	mg/L	0.030	0.00073	1	02/17/22 09:52	02/18/22 17:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/17/22 09:52	02/18/22 17:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/17/22 09:52	02/18/22 17:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/17/22 09:52	02/18/22 17:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/22 08:00	02/15/22 13:27	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	156	mg/L	10.0	10.0	1		02/07/22 16:43		H3
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.0	mg/L	1.0	0.60	1		02/08/22 13:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 13:36	16984-48-8	
Sulfate	67.1	mg/L	1.0	0.50	1		02/08/22 13:36	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-1

Pace Project No.: 92587319

Sample: HGWA-3		Lab ID: 92587319004		Collected: 02/01/22 09:58		Received: 02/03/22 12:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 17:14		
pH	7.45	Std. Units			1		02/09/22 17:14		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	85.1	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 16:58	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/17/22 09:52	02/18/22 17:55	7440-36-0	
Arsenic	0.0024J	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:55	7440-38-2	
Barium	0.12	mg/L	0.0050	0.00067	1	02/17/22 09:52	02/18/22 17:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/17/22 09:52	02/18/22 17:55	7440-41-7	
Boron	0.011J	mg/L	0.040	0.0086	1	02/17/22 09:52	02/18/22 17:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/17/22 09:52	02/18/22 17:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 17:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/17/22 09:52	02/18/22 17:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/17/22 09:52	02/18/22 17:55	7439-92-1	
Lithium	0.0037J	mg/L	0.030	0.00073	1	02/17/22 09:52	02/18/22 17:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/17/22 09:52	02/18/22 17:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/17/22 09:52	02/18/22 17:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/17/22 09:52	02/18/22 17:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/22 15:15	02/16/22 10:53	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	350	mg/L	10.0	10.0	1		02/07/22 16:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.7	mg/L	1.0	0.60	1		02/08/22 13:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/08/22 13:50	16984-48-8	
Sulfate	46.0	mg/L	1.0	0.50	1		02/08/22 13:50	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: HGWA-1		Lab ID: 92587319005		Collected: 02/01/22 12:13		Received: 02/03/22 12:32		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 17:14		
pH	7.19	Std. Units			1		02/09/22 17:14		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	106	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 17:02	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/17/22 09:52	02/18/22 18:01	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 18:01	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	02/17/22 09:52	02/18/22 18:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/17/22 09:52	02/18/22 18:01	7440-41-7	
Boron	0.016J	mg/L	0.040	0.0086	1	02/17/22 09:52	02/18/22 18:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/17/22 09:52	02/18/22 18:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 18:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/17/22 09:52	02/18/22 18:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/17/22 09:52	02/18/22 18:01	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00073	1	02/17/22 09:52	02/18/22 18:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/17/22 09:52	02/18/22 18:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/17/22 09:52	02/18/22 18:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/17/22 09:52	02/18/22 18:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/22 15:15	02/16/22 11:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	270	mg/L	10.0	10.0	1		02/07/22 16:44		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	7.5	mg/L	1.0	0.60	1		02/08/22 14:03	16887-00-6	
Fluoride	0.064J	mg/L	0.10	0.050	1		02/08/22 14:03	16984-48-8	
Sulfate	43.7	mg/L	1.0	0.50	1		02/08/22 14:03	14808-79-8	

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ANALYTICAL RESULTS

Project: HAMMOND AP-1

Pace Project No.: 92587319

Sample: HGWA-43D **Lab ID: 92587319006** Collected: 02/01/22 10:28 Received: 02/03/22 12:32 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/09/22 17:14		
pH	7.52	Std. Units			1		02/09/22 17:14		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	55.9	mg/L	1.0	0.12	1	02/17/22 10:31	02/17/22 17:07	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/17/22 09:52	02/18/22 18:07	7440-36-0	
Arsenic	0.0036J	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 18:07	7440-38-2	
Barium	0.29	mg/L	0.0050	0.00067	1	02/17/22 09:52	02/18/22 18:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/17/22 09:52	02/18/22 18:07	7440-41-7	
Boron	0.050	mg/L	0.040	0.0086	1	02/17/22 09:52	02/18/22 18:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/17/22 09:52	02/18/22 18:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/17/22 09:52	02/18/22 18:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/17/22 09:52	02/18/22 18:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/17/22 09:52	02/18/22 18:07	7439-92-1	
Lithium	0.0024J	mg/L	0.030	0.00073	1	02/17/22 09:52	02/18/22 18:07	7439-93-2	
Molybdenum	0.0036J	mg/L	0.010	0.00074	1	02/17/22 09:52	02/18/22 18:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/17/22 09:52	02/18/22 18:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/17/22 09:52	02/18/22 18:07	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/15/22 15:15	02/16/22 11:06	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	156	mg/L	10.0	10.0	1		02/07/22 16:44		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.1	mg/L	1.0	0.60	1		02/08/22 14:17	16887-00-6	
Fluoride	0.19	mg/L	0.10	0.050	1		02/08/22 14:17	16984-48-8	
Sulfate	37.5	mg/L	1.0	0.50	1		02/08/22 14:17	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: HGWC-9		Lab ID: 92587319007		Collected: 02/09/22 11:06		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:06		
pH	7.30	Std. Units			1		02/11/22 16:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	183	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 01:47	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:06	7440-36-0	
Arsenic	0.0021J	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:06	7440-38-2	B
Barium	0.096	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:06	7440-41-7	
Boron	2.3	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:06	7440-43-9	
Chromium	0.0011J	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:06	7440-47-3	
Cobalt	0.00051J	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:06	7439-92-1	
Lithium	0.0041J	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:06	7439-93-2	
Molybdenum	0.034	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:06	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:21	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	756	mg/L	20.0	20.0	1		02/16/22 13:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	84.4	mg/L	1.0	0.60	1		02/17/22 14:56	16887-00-6	M1
Fluoride	0.10	mg/L	0.10	0.050	1		02/17/22 14:56	16984-48-8	
Sulfate	224	mg/L	5.0	2.5	5		02/18/22 01:08	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: HGWC-10		Lab ID: 92587319008		Collected: 02/09/22 15:37		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:06		
pH	7.00	Std. Units			1		02/11/22 16:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	76.8	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 01:52	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:12	7440-38-2	
Barium	0.042	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:12	7440-41-7	
Boron	0.10	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:12	7440-43-9	
Chromium	0.0011J	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:12	7439-98-7	
Selenium	0.0031J	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:12	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:24	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	250	mg/L	10.0	10.0	1		02/16/22 13:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.2	mg/L	1.0	0.60	1		02/17/22 15:41	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		02/17/22 15:41	16984-48-8	
Sulfate	49.2	mg/L	1.0	0.50	1		02/17/22 15:41	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: HGWC-11		Lab ID: 92587319009		Collected: 02/09/22 10:02		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:06		
pH	6.55	Std. Units			1		02/11/22 16:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	144	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 01:56	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:18	7440-36-0	
Arsenic	0.0047J	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:18	7440-38-2	B
Barium	0.042	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:18	7440-41-7	
Boron	1.0	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:18	7439-93-2	
Molybdenum	0.030	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:18	7439-98-7	
Selenium	0.0035J	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:18	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:26	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	544	mg/L	20.0	20.0	1		02/16/22 13:54		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	20.4	mg/L	1.0	0.60	1		02/17/22 15:56	16887-00-6	
Fluoride	0.20	mg/L	0.10	0.050	1		02/17/22 15:56	16984-48-8	
Sulfate	276	mg/L	6.0	3.0	6		02/18/22 01:52	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: HGWC-12		Lab ID: 92587319010		Collected: 02/09/22 11:38		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:06		
pH	7.23	Std. Units			1		02/11/22 16:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	172	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:01	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:24	7440-36-0	
Arsenic	0.0053	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:24	7440-38-2	B
Barium	0.075	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:24	7440-41-7	
Boron	2.0	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:24	7440-47-3	
Cobalt	0.0013J	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:24	7439-92-1	
Lithium	0.010J	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:24	7439-93-2	
Molybdenum	0.042	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:24	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:29	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	678	mg/L	20.0	20.0	1		02/16/22 13:55		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	46.8	mg/L	1.0	0.60	1		02/17/22 16:11	16887-00-6	
Fluoride	0.20	mg/L	0.10	0.050	1		02/17/22 16:11	16984-48-8	
Sulfate	252	mg/L	5.0	2.5	5		02/18/22 02:07	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: MW-5		Lab ID: 92587319011		Collected: 02/09/22 12:33		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:06		
pH	6.13	Std. Units			1		02/11/22 16:06		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	68.1	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:06	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:30	7440-36-0	
Arsenic	0.0013J	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:30	7440-38-2	B
Barium	0.042	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:30	7440-41-7	
Boron	0.042	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:30	7440-43-9	
Chromium	0.0031J	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:30	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:30	7439-98-7	
Selenium	0.0027J	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:30	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:37	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	314	mg/L	10.0	10.0	1		02/16/22 13:55		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.74J	mg/L	1.0	0.60	1		02/17/22 16:26	16887-00-6	
Fluoride	0.056J	mg/L	0.10	0.050	1		02/17/22 16:26	16984-48-8	
Sulfate	123	mg/L	3.0	1.5	3		02/18/22 03:23	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: MW-6		Lab ID: 92587319012		Collected: 02/09/22 14:13		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:07		
pH	7.01	Std. Units			1		02/11/22 16:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	178	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:11	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:36	7440-36-0	
Arsenic	0.0034J	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:36	7440-38-2	B
Barium	0.074	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:36	7440-41-7	
Boron	0.96	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:36	7440-47-3	
Cobalt	0.00059J	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:36	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:36	7439-93-2	
Molybdenum	0.0026J	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:36	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:39	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	652	mg/L	20.0	20.0	1		02/16/22 13:55		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	37.9	mg/L	1.0	0.60	1		02/17/22 16:41	16887-00-6	
Fluoride	0.059J	mg/L	0.10	0.050	1		02/17/22 16:41	16984-48-8	
Sulfate	197	mg/L	4.0	2.0	4		02/18/22 03:38	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: MW-19		Lab ID: 92587319013		Collected: 02/09/22 16:25		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:07		
pH	6.28	Std. Units			1		02/11/22 16:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	97.6	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:16	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 19:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:42	7440-38-2	
Barium	0.042	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 19:42	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 19:42	7440-41-7	
Boron	0.49	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 19:42	7440-42-8	
Cadmium	0.0011	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 19:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 19:42	7440-47-3	
Cobalt	0.030	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 19:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 19:42	7439-92-1	
Lithium	0.0067J	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 19:42	7439-93-2	
Molybdenum	0.011	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 19:42	7439-98-7	
Selenium	0.0036J	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 19:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 19:42	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:42	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	503	mg/L	10.0	10.0	1		02/16/22 13:55		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	10.2	mg/L	1.0	0.60	1		02/17/22 16:56	16887-00-6	
Fluoride	0.076J	mg/L	0.10	0.050	1		02/17/22 16:56	16984-48-8	
Sulfate	221	mg/L	5.0	2.5	5		02/18/22 03:53	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: MW-25D		Lab ID: 92587319014		Collected: 02/09/22 14:00		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:07		
pH	7.82	Std. Units			1		02/11/22 16:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	23.5	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:20	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 20:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:00	7440-38-2	
Barium	0.60	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 20:00	7440-41-7	
Boron	0.43	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 20:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 20:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 20:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 20:00	7439-92-1	
Lithium	0.048	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 20:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 20:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 20:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 20:00	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:45	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	364	mg/L	10.0	10.0	1		02/16/22 13:55		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	26.5	mg/L	1.0	0.60	1		02/17/22 17:11	16887-00-6	
Fluoride	1.7	mg/L	0.10	0.050	1		02/17/22 17:11	16984-48-8	
Sulfate	1.7	mg/L	1.0	0.50	1		02/17/22 17:11	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: MW-26D		Lab ID: 92587319015		Collected: 02/09/22 09:54		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:07		
pH	7.32	Std. Units			1		02/11/22 16:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	176	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:35	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 20:18	7440-36-0	
Arsenic	0.0017J	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:18	7440-38-2	B
Barium	0.066	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 20:18	7440-41-7	
Boron	2.3	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 20:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 20:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:18	7440-47-3	
Cobalt	0.00059J	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 20:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 20:18	7439-92-1	
Lithium	0.0039J	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 20:18	7439-93-2	
Molybdenum	0.028	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 20:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 20:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 20:18	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:47	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	734	mg/L	20.0	20.0	1		02/16/22 13:55		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	85.7	mg/L	1.0	0.60	1		02/17/22 17:56	16887-00-6	
Fluoride	0.092J	mg/L	0.10	0.050	1		02/17/22 17:56	16984-48-8	
Sulfate	224	mg/L	5.0	2.5	5		02/18/22 04:08	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: DUP-1		Lab ID: 92587319016		Collected: 02/09/22 00:00	Received: 02/11/22 11:35	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	85.0	mg/L	1.0	0.12	1	02/24/22 10:47	02/25/22 02:40	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 20:24	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:24	7440-38-2		
Barium	0.043	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:24	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 20:24	7440-41-7		
Boron	0.18	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 20:24	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 20:24	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:24	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 20:24	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 20:24	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 20:24	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 20:24	7439-98-7		
Selenium	0.0025J	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 20:24	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 20:24	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:50	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	292	mg/L	10.0	10.0	1		02/16/22 13:55			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	3.5	mg/L	1.0	0.60	1		02/17/22 18:11	16887-00-6		
Fluoride	0.11	mg/L	0.10	0.050	1		02/17/22 18:11	16984-48-8		
Sulfate	61.6	mg/L	1.0	0.50	1		02/17/22 18:11	14808-79-8		

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ANALYTICAL RESULTS

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

Sample: HGWC-7		Lab ID: 92587319017		Collected: 02/10/22 12:12		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:07		
pH	7.22	Std. Units			1		02/11/22 16:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	108	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 17:40	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 20:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:30	7440-38-2	
Barium	0.063	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 20:30	7440-41-7	
Boron	1.3	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 20:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 20:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:30	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 20:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 20:30	7439-92-1	
Lithium	0.0022J	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 20:30	7439-93-2	
Molybdenum	0.045	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 20:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 20:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 20:30	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:52	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	414	mg/L	10.0	10.0	1		02/16/22 14:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	39.8	mg/L	1.0	0.60	1		02/17/22 16:16	16887-00-6	
Fluoride	0.083J	mg/L	0.10	0.050	1		02/17/22 16:16	16984-48-8	
Sulfate	97.5	mg/L	2.0	1.0	2		02/18/22 03:55	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: HGWC-8		Lab ID: 92587319018		Collected: 02/10/22 15:45		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:07		
pH	6.99	Std. Units			1		02/11/22 16:07		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	153	mg/L	1.0	0.12	1	02/25/22 07:39	02/28/22 21:32	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/24/22 12:07	02/24/22 20:35	7440-36-0	
Arsenic	0.0020J	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:35	7440-38-2	B
Barium	0.056	mg/L	0.0050	0.00067	1	02/24/22 12:07	02/24/22 20:35	7440-39-3	
Beryllium	0.000071J	mg/L	0.00050	0.000054	1	02/24/22 12:07	02/24/22 20:35	7440-41-7	
Boron	1.7	mg/L	0.040	0.0086	1	02/24/22 12:07	02/24/22 20:35	7440-42-8	
Cadmium	0.00029J	mg/L	0.00050	0.00011	1	02/24/22 12:07	02/24/22 20:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/24/22 12:07	02/24/22 20:35	7440-47-3	
Cobalt	0.0021J	mg/L	0.0050	0.00039	1	02/24/22 12:07	02/24/22 20:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/24/22 12:07	02/24/22 20:35	7439-92-1	
Lithium	0.0030J	mg/L	0.030	0.00073	1	02/24/22 12:07	02/24/22 20:35	7439-93-2	
Molybdenum	0.34	mg/L	0.010	0.00074	1	02/24/22 12:07	02/24/22 20:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/24/22 12:07	02/24/22 20:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/24/22 12:07	02/24/22 20:35	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:55	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	578	mg/L	20.0	20.0	1		02/16/22 14:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	48.2	mg/L	1.0	0.60	1		02/17/22 16:30	16887-00-6	
Fluoride	0.42	mg/L	0.10	0.050	1		02/17/22 16:30	16984-48-8	
Sulfate	224	mg/L	5.0	2.5	5		02/18/22 04:09	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: HGWC-13		Lab ID: 92587319019		Collected: 02/10/22 14:55		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:08		
pH	7.54	Std. Units			1		02/11/22 16:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	206	mg/L	1.0	0.12	1	02/25/22 07:39	02/28/22 21:37	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 19:20	7440-36-0	
Arsenic	0.38	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:20	7440-38-2	
Barium	0.053	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 19:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 19:20	7440-41-7	
Boron	1.0	mg/L	0.040	0.0086	1	02/25/22 07:37	02/28/22 19:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 19:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:20	7440-47-3	
Cobalt	0.0026J	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 19:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 19:20	7439-92-1	
Lithium	0.031	mg/L	0.030	0.00073	1	02/25/22 07:37	02/28/22 19:53	7439-93-2	
Molybdenum	0.033	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 19:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 19:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 19:20	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 11:58	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	814	mg/L	10.0	10.0	1		02/16/22 14:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	17.4	mg/L	1.0	0.60	1		02/17/22 16:44	16887-00-6	
Fluoride	0.53	mg/L	0.10	0.050	1		02/17/22 16:44	16984-48-8	
Sulfate	371	mg/L	9.0	4.5	9		02/18/22 04:22	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: MW-20		Lab ID: 92587319020		Collected: 02/10/22 11:33		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:08		
pH	7.19	Std. Units			1		02/11/22 16:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	123	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 18:04	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 19:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:25	7440-38-2	
Barium	0.082	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 19:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 19:25	7440-41-7	
Boron	0.13	mg/L	0.040	0.0086	1	02/25/22 07:37	02/28/22 19:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 19:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 19:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 19:25	7439-92-1	
Lithium	0.00099J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 19:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 19:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 19:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 19:25	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:00	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	459	mg/L	10.0	10.0	1		02/16/22 14:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	31.4	mg/L	1.0	0.60	1		02/17/22 16:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 16:58	16984-48-8	
Sulfate	95.9	mg/L	2.0	1.0	2		02/18/22 04:37	14808-79-8	M1

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ANALYTICAL RESULTS

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

Sample: MW-24D		Lab ID: 92587319021		Collected: 02/10/22 13:32		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:08		
pH	7.82	Std. Units			1		02/11/22 16:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	110	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 18:08	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 19:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:31	7440-38-2	
Barium	0.048	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 19:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 19:31	7440-41-7	
Boron	0.55	mg/L	0.20	0.043	5	02/25/22 07:37	02/28/22 20:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 19:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 19:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 19:31	7439-92-1	
Lithium	0.0029J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 19:31	7439-93-2	
Molybdenum	0.00080J	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 19:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 19:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 19:31	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:08	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	412	mg/L	10.0	10.0	1		02/16/22 14:18		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	38.2	mg/L	1.0	0.60	1		02/17/22 17:40	16887-00-6	
Fluoride	0.051J	mg/L	0.10	0.050	1		02/17/22 17:40	16984-48-8	
Sulfate	127	mg/L	3.0	1.5	3		02/18/22 05:21	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: MW-27D		Lab ID: 92587319022		Collected: 02/10/22 15:40		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:08		
pH	7.96	Std. Units			1		02/11/22 16:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	31.4	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 18:13	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 19:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:49	7440-38-2	
Barium	0.99	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 19:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 19:49	7440-41-7	
Boron	0.13	mg/L	0.040	0.0086	1	02/25/22 07:37	02/28/22 20:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 19:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 19:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 19:49	7439-92-1	
Lithium	0.0086J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 19:49	7439-93-2	
Molybdenum	0.0017J	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 19:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 19:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 19:49	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:11	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	242	mg/L	10.0	10.0	1		02/16/22 14:19		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	31.4	mg/L	1.0	0.60	1		02/17/22 17:54	16887-00-6	
Fluoride	0.25	mg/L	0.10	0.050	1		02/17/22 17:54	16984-48-8	
Sulfate	13.2	mg/L	1.0	0.50	1		02/17/22 17:54	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: MW-28D		Lab ID: 92587319023		Collected: 02/10/22 14:29		Received: 02/11/22 11:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		02/11/22 16:08		
pH	7.59	Std. Units			1		02/11/22 16:08		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	58.5	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 18:18	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 19:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:55	7440-38-2	
Barium	0.76	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 19:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 19:55	7440-41-7	
Boron	0.23	mg/L	0.040	0.0086	1	02/25/22 07:37	03/01/22 16:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 19:55	7440-43-9	
Chromium	0.0011J	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 19:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 19:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 19:55	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 19:55	7439-93-2	
Molybdenum	0.0031J	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 19:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 19:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 19:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:13	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	299	mg/L	10.0	10.0	1		02/17/22 16:05		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	29.0	mg/L	1.0	0.60	1		02/17/22 18:08	16887-00-6	
Fluoride	0.22	mg/L	0.10	0.050	1		02/17/22 18:08	16984-48-8	
Sulfate	32.5	mg/L	1.0	0.50	1		02/17/22 18:08	14808-79-8	

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ANALYTICAL RESULTS

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

Sample:	Lab ID:	Collected:	Received:	Matrix:					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-29	Lab ID: 92587319024	Collected: 02/10/22 09:44	Received: 02/11/22 11:35	Matrix: Water					
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	CUSTOMER				1		02/11/22 16:09		
pH	7.27	Std. Units			1		02/11/22 16:09		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	156	mg/L	5.0	0.61	5	02/25/22 07:39	02/25/22 18:28	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 20:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 20:01	7440-38-2	
Barium	0.072	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 20:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 20:01	7440-41-7	
Boron	1.4	mg/L	0.20	0.043	5	02/25/22 07:37	02/28/22 20:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 20:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 20:01	7440-47-3	
Cobalt	0.00089J	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 20:01	7440-48-4	
Lead	ND	mg/L	0.0050	0.0044	5	02/25/22 07:37	02/28/22 20:17	7439-92-1	D3
Lithium	0.0023J	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 20:01	7439-93-2	
Molybdenum	0.0036J	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 20:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 20:01	7782-49-2	
Thallium	ND	mg/L	0.0050	0.00090	5	02/25/22 07:37	02/28/22 20:17	7440-28-0	D3
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	508	mg/L	20.0	20.0	1		02/17/22 16:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	66.0	mg/L	1.0	0.60	1		02/17/22 18:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 18:50	16984-48-8	
Sulfate	141	mg/L	3.0	1.5	3		02/18/22 06:04	14808-79-8	

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ANALYTICAL RESULTS

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

Sample: EB-1		Lab ID: 92587319025		Collected: 02/10/22 15:59	Received: 02/11/22 11:35	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 18:33	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 20:13	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 20:13	7440-38-2		
Barium	0.0026J	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 20:13	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 20:13	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	02/25/22 07:37	02/25/22 20:13	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 20:13	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 20:13	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 20:13	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 20:13	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 20:13	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 20:13	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 20:13	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 20:13	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/25/22 08:00	02/25/22 12:19	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:05			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/17/22 19:04	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 19:04	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/17/22 19:04	14808-79-8		

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ANALYTICAL RESULTS

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

Sample: FB-1		Lab ID: 92587319026		Collected: 02/10/22 15:50	Received: 02/11/22 11:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/25/22 07:39	02/25/22 18:48	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/25/22 07:37	02/25/22 20:19	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 20:19	7440-38-2		
Barium	0.0027J	mg/L	0.0050	0.00067	1	02/25/22 07:37	02/25/22 20:19	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/25/22 07:37	02/25/22 20:19	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	02/25/22 07:37	02/25/22 20:19	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/25/22 07:37	02/25/22 20:19	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/25/22 07:37	02/25/22 20:19	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/25/22 07:37	02/25/22 20:19	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	02/25/22 07:37	02/25/22 20:19	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/25/22 07:37	02/25/22 20:19	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/25/22 07:37	02/25/22 20:19	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/25/22 07:37	02/25/22 20:19	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	02/25/22 07:37	02/25/22 20:19	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/28/22 10:30	02/28/22 14:05	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		02/17/22 16:06			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/17/22 19:18	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/17/22 19:18	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/17/22 19:18	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

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

QC Batch: 678931 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587319002, 92587319003, 92587319004, 92587319005, 92587319006

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

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/17/22 15:21	

LABORATORY CONTROL SAMPLE: 3552813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552814 3552815

Parameter	Units	3552814		3552815		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92586342002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	51.3	1	1	53.1	51.0	177	-37	75-125	4	20 M1

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QUALITY CONTROL DATA

Project: HAMMOND AP-1

Pace Project No.: 92587319

QC Batch:	680603	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587319001, 92587319007, 92587319008, 92587319009, 92587319010, 92587319011, 92587319012, 92587319013, 92587319014, 92587319015, 92587319016

METHOD BLANK: 3560577 Matrix: Water

Associated Lab Samples: 92587319001, 92587319007, 92587319008, 92587319009, 92587319010, 92587319011, 92587319012, 92587319013, 92587319014, 92587319015, 92587319016

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

LABORATORY CONTROL SAMPLE: 3560578

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560579 3560580

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

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QUALITY CONTROL DATA

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

QC Batch:	680760	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

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

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

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/25/22 16:35	

LABORATORY CONTROL SAMPLE: 3561424

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3561425 3561426

Parameter	Units	92587322003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	53.4	1	1	57.1	57.3	367	381	75-125	0	20	M1

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QUALITY CONTROL DATA

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

QC Batch: 678928 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587319002, 92587319003, 92587319004, 92587319005, 92587319006

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

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/17/22 21:50	
Arsenic	mg/L	ND	0.0050	0.0011	02/17/22 21:50	
Barium	mg/L	ND	0.0050	0.00067	02/17/22 21:50	
Beryllium	mg/L	ND	0.00050	0.000054	02/17/22 21:50	
Boron	mg/L	ND	0.040	0.0086	02/17/22 21:50	
Cadmium	mg/L	ND	0.00050	0.00011	02/17/22 21:50	
Chromium	mg/L	ND	0.0050	0.0011	02/17/22 21:50	
Cobalt	mg/L	ND	0.0050	0.00039	02/17/22 21:50	
Lead	mg/L	ND	0.0010	0.00089	02/17/22 21:50	
Lithium	mg/L	ND	0.030	0.00073	02/18/22 16:01	
Molybdenum	mg/L	ND	0.010	0.00074	02/17/22 21:50	
Selenium	mg/L	ND	0.0050	0.0014	02/17/22 21:50	
Thallium	mg/L	ND	0.0010	0.00018	02/17/22 21:50	

LABORATORY CONTROL SAMPLE: 3552809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.12	119	80-120	
Arsenic	mg/L	0.1	0.10	103	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.11	107	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.11	106	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.11	109	80-120	
Selenium	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552810 3552811

Parameter	Units	92586342001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.12	0.13	122	125	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-1

Pace Project No.: 92587319

Parameter	Units	3552810		3552811		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92586342001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.035	0.1	0.1	0.14	0.14	108	107	75-125	0	20		
Beryllium	mg/L	ND	0.1	0.1	0.091	0.091	91	91	75-125	0	20		
Boron	mg/L	0.17	1	1	1.1	1.1	90	89	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.11	0.11	108	109	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.11	0.11	108	108	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.11	102	106	75-125	4	20		
Molybdenum	mg/L	0.0020J	0.1	0.1	0.12	0.12	116	116	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.11	0.11	111	110	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20		

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QUALITY CONTROL DATA

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

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

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

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

LABORATORY CONTROL SAMPLE: 3560597

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560598 3560599

Parameter	Units	92587319001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	105	75-125	3	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-1

Pace Project No.: 92587319

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

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QUALITY CONTROL DATA

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

QC Batch: 680757 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587319019, 92587319020, 92587319021, 92587319022, 92587319023, 92587319024, 92587319025, 92587319026

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

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/25/22 16:19	
Arsenic	mg/L	ND	0.0050	0.0011	02/25/22 16:19	
Barium	mg/L	ND	0.0050	0.00067	02/25/22 16:19	
Beryllium	mg/L	ND	0.00050	0.000054	02/25/22 16:19	
Boron	mg/L	ND	0.040	0.0086	02/25/22 16:19	
Cadmium	mg/L	ND	0.00050	0.00011	02/25/22 16:19	
Chromium	mg/L	ND	0.0050	0.0011	02/25/22 16:19	
Cobalt	mg/L	ND	0.0050	0.00039	02/25/22 16:19	
Lead	mg/L	ND	0.0010	0.00089	02/25/22 16:19	
Lithium	mg/L	ND	0.030	0.00073	02/25/22 16:19	
Molybdenum	mg/L	ND	0.010	0.00074	02/25/22 16:19	
Selenium	mg/L	ND	0.0050	0.0014	02/25/22 16:19	
Thallium	mg/L	ND	0.0010	0.00018	02/25/22 16:19	

LABORATORY CONTROL SAMPLE: 3561408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.091	91	80-120	
Barium	mg/L	0.1	0.087	87	80-120	
Beryllium	mg/L	0.1	0.091	91	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.091	91	80-120	
Chromium	mg/L	0.1	0.091	91	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Lead	mg/L	0.1	0.088	88	80-120	
Lithium	mg/L	0.1	0.090	90	80-120	
Molybdenum	mg/L	0.1	0.094	94	80-120	
Selenium	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.088	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3561409 3561410

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Spike Conc.	Spike Conc.	Result	Result								
Antimony	mg/L	ND	0.1	0.1	0.10	0.091	102	91	75-125	12	20		

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QUALITY CONTROL DATA

Project: HAMMOND AP-1

Pace Project No.: 92587319

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3561409 3561410												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92587322002 Result	Spike Conc.	Spike Conc.	MS Result							
Arsenic	mg/L	ND	0.1	0.1	0.098	0.090	98	90	75-125	8	20	
Barium	mg/L	0.038	0.1	0.1	0.14	0.13	105	89	75-125	12	20	
Beryllium	mg/L	ND	0.1	0.1	0.094	0.087	94	87	75-125	8	20	
Boron	mg/L	ND	1	1	0.94	0.92	94	91	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.097	0.089	97	89	75-125	9	20	
Chromium	mg/L	ND	0.1	0.1	0.098	0.090	97	89	75-125	8	20	
Cobalt	mg/L	0.00055J	0.1	0.1	0.093	0.088	92	88	75-125	5	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.083	95	83	75-125	14	20	
Lithium	mg/L	0.0029J	0.1	0.1	0.097	0.088	94	85	75-125	10	20	
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.088	97	88	75-125	10	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.089	96	89	75-125	8	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.084	93	84	75-125	10	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

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

QC Batch: 678094 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587319002, 92587319003

METHOD BLANK: 3548852 Matrix: Water
Associated Lab Samples: 92587319002, 92587319003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/15/22 12:00	

LABORATORY CONTROL SAMPLE: 3548853

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3548854 3548855

Parameter	Units	3548854		3548855		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0024	0.0024	96	95	75-125	1	20	

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QUALITY CONTROL DATA

Project: HAMMOND AP-1

Pace Project No.: 92587319

QC Batch: 678396

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587319004, 92587319005, 92587319006

METHOD BLANK: 3550157

Matrix: Water

Associated Lab Samples: 92587319004, 92587319005, 92587319006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/16/22 10:48	

LABORATORY CONTROL SAMPLE: 3550158

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3550159 3550160

Parameter	Units	92586342010		3550159		3550160		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0023	85	92	75-125	8	20

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QUALITY CONTROL DATA

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

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

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

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

LABORATORY CONTROL SAMPLE: 3560813

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3560814 3560815

Parameter	Units	92587319001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0022	94	88	75-125	7	20	

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QUALITY CONTROL DATA

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

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

Associated Lab Samples: 92587319026

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

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

LABORATORY CONTROL SAMPLE: 3564036

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3564037 3564038

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

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QUALITY CONTROL DATA

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

QC Batch: 677215	Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587319002, 92587319003, 92587319004, 92587319005, 92587319006

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

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

LABORATORY CONTROL SAMPLE: 3544558

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

SAMPLE DUPLICATE: 3544559

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

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QUALITY CONTROL DATA

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

QC Batch: 678369	Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92587319001

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

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

LABORATORY CONTROL SAMPLE: 3550015

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

SAMPLE DUPLICATE: 3550016

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

SAMPLE DUPLICATE: 3550017

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

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QUALITY CONTROL DATA

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

QC Batch: 678707 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587319017, 92587319018, 92587319019, 92587319020, 92587319021, 92587319022

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

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	02/16/22 14:16	

LABORATORY CONTROL SAMPLE: 3551651

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	376	94	80-120	

SAMPLE DUPLICATE: 3551652

Parameter	Units	92587881001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	229	228	0	25	

SAMPLE DUPLICATE: 3551653

Parameter	Units	92587855001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	94.0	95.0	1	25	

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QUALITY CONTROL DATA

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

QC Batch: 679091 Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92587319023, 92587319024, 92587319025, 92587319026

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

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

LABORATORY CONTROL SAMPLE: 3553376

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

SAMPLE DUPLICATE: 3553377

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

SAMPLE DUPLICATE: 3553378

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

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QUALITY CONTROL DATA

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

QC Batch: 676561 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92587319002, 92587319003, 92587319004, 92587319005, 92587319006

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

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/08/22 06:35	
Fluoride	mg/L	ND	0.10	0.050	02/08/22 06:35	
Sulfate	mg/L	ND	1.0	0.50	02/08/22 06:35	

LABORATORY CONTROL SAMPLE: 3541396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.6	103	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541397 3541398

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92585561005 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	4.1	50	50	56.9	57.4	105	106	90-110	1	10		
Fluoride	mg/L	0.086J	2.5	2.5	2.5	2.6	98	99	90-110	2	10		
Sulfate	mg/L	25.5	50	50	77.5	78.0	104	105	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3541399 3541400

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92586342003 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.5	50	50	55.3	55.0	106	105	90-110	1	10		
Fluoride	mg/L	0.36	2.5	2.5	2.9	2.9	100	100	90-110	0	10		
Sulfate	mg/L	201	50	50	246	243	91	84	90-110	1	10 M1		

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QUALITY CONTROL DATA

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

QC Batch: 678309 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92587319001

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

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/16/22 07:00	
Fluoride	mg/L	ND	0.10	0.050	02/16/22 07:00	
Sulfate	mg/L	ND	1.0	0.50	02/16/22 07:00	

LABORATORY CONTROL SAMPLE: 3549773

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.2	98	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549774 3549775

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3549776 3549777

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

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QUALITY CONTROL DATA

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

QC Batch:	678880	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

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

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

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/17/22 11:56	
Fluoride	mg/L	ND	0.10	0.050	02/17/22 11:56	
Sulfate	mg/L	ND	1.0	0.50	02/17/22 11:56	

LABORATORY CONTROL SAMPLE: 3552687

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.6	97	90-110	
Fluoride	mg/L	2.5	2.4	95	90-110	
Sulfate	mg/L	50	47.8	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552688 3552689

Parameter	Units	92586225004		3552689		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	12.5	50	50	63.1	63.2	101	101	90-110	0	10
Fluoride	mg/L	0.15	2.5	2.5	2.7	2.7	102	104	90-110	1	10
Sulfate	mg/L	967	50	50	1000	1000	73	76	90-110	0	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552690 3552691

Parameter	Units	92587319007		3552691		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	84.4	50	50	125	125	81	82	90-110	0	10 M1
Fluoride	mg/L	0.10	2.5	2.5	2.7	2.7	103	105	90-110	2	10
Sulfate	mg/L	224	50	50	270	270	94	93	90-110	0	10

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QUALITY CONTROL DATA

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

QC Batch:	678978	Analysis Method:	EPA 300.0 Rev 2.1 1993
QC Batch Method:	EPA 300.0 Rev 2.1 1993	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Asheville

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

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

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

LABORATORY CONTROL SAMPLE: 3552933

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552934 3552935

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3552936 3552937

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

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QUALIFIERS

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

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

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

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-1

Pace Project No.: 92587319

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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

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

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt: **Client Name:** GA Power Project #: **WO# : 92587319**

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: JRE 2/9/22

Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: IR Gun ID: 083 Type of Ice: Wet Blue None

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 2.4 Correction Factor: Add/Subtract (°C) +2

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

Cooler Temp Corrected (°C): 2.6

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: November 15, 2021
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.08

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:
GA Power

Project #: **WO#: 92586342**



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/3/22
TJW

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?
 Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 2.4 Correction Factor: Add/Subtract (°C) +0.2

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

Cooler Temp Corrected (°C): 2.6

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?
 Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

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

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

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

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

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

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92587319**

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

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

Custody Seal Present? Yes No Seals Intact? Yes No

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

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

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

Cooler Temp: 4.2 Correction Factor: Add/Subtract (°C) +0.2

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

Cooler Temp Corrected (°C): 4.4

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCUR Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

March 29, 2022

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

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

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2022 and February 11, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



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

Enclosures

cc: Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec
Whitney Law, Geosyntec Consultants
Noelia Muskus, Geosyntec Consultants
Ms. Lauren Petty, Southern Company
Anthony Szwast, Geosyntec
Nardos Tilahun, GeoSyntec
Dawit Yifru, Geosyntec Consultants, Inc.



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

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

Pace Analytical Services Pennsylvania

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

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

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

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SAMPLE ANALYTE COUNT

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92587294026	FB-1	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	JC2	1	PASI-PA
		EPA 9320	JSM	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

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

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

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SUMMARY OF DETECTION

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

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

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SUMMARY OF DETECTION

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

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

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SUMMARY OF DETECTION

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

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

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SUMMARY OF DETECTION

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

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

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SUMMARY OF DETECTION

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

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

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SUMMARY OF DETECTION

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Sample: MW-7 **Lab ID: 92587294001** Collected: 02/08/22 17:05 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.158 ± 0.120 (0.196) C:95% T:NA	pCi/L	03/17/22 09:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.259 ± 0.338 (0.720) C:78% T:89%	pCi/L	03/14/22 13:18	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.417 ± 0.458 (0.916)	pCi/L	03/21/22 17:12	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Sample: HGWA-2 **Lab ID: 92587294003** Collected: 02/01/22 11:52 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.328 ± 0.142 (0.152) C:84% T:NA	pCi/L	03/09/22 09:31	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.260 ± 0.363 (0.775) C:72% T:85%	pCi/L	02/23/22 14:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.588 ± 0.505 (0.927)	pCi/L	03/10/22 17:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Sample: HGWA-3 **Lab ID: 92587294004** Collected: 02/01/22 09:58 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.144 ± 0.104 (0.175) C:93% T:NA	pCi/L	03/09/22 09:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.122 ± 0.302 (0.675) C:81% T:91%	pCi/L	02/23/22 14:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.266 ± 0.406 (0.850)	pCi/L	03/10/22 17:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Sample: HGWA-43D **Lab ID: 92587294006** Collected: 02/01/22 10:28 Received: 02/09/22 12:40 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.174 ± 0.111 (0.170) C:92% T:NA	pCi/L	03/09/22 09:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.944 ± 0.504 (0.891) C:74% T:81%	pCi/L	02/23/22 14:47	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.12 ± 0.615 (1.06)	pCi/L	03/10/22 17:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Sample: HGWC-10 **Lab ID: 92587294008** Collected: 02/09/22 15:37 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0116 ± 0.0787 (0.205) C:85% T:NA	pCi/L	03/16/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.478 ± 0.506 (1.06) C:69% T:91%	pCi/L	03/14/22 16:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.490 ± 0.585 (1.27)	pCi/L	03/18/22 13:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Sample: MW-5 **Lab ID: 92587294011** Collected: 02/09/22 12:33 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.137 ± 0.108 (0.190) C:88% T:NA	pCi/L	03/16/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.430 ± 0.462 (0.967) C:68% T:86%	pCi/L	03/14/22 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.567 ± 0.570 (1.16)	pCi/L	03/18/22 13:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-6 Lab ID: 92587294012 Collected: 02/09/22 14:13 Received: 02/11/22 11:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.181 ± 0.122 (0.203) C:87% T:NA	pCi/L	03/16/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.438 ± 0.437 (0.903) C:66% T:88%	pCi/L	03/14/22 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.619 ± 0.559 (1.11)	pCi/L	03/18/22 13:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Sample: MW-19 **Lab ID: 92587294013** Collected: 02/09/22 16:25 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.245 ± 0.128 (0.169) C:93% T:NA	pCi/L	03/16/22 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.000859 ± 0.424 (0.985) C:65% T:86%	pCi/L	03/14/22 16:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.245 ± 0.552 (1.15)	pCi/L	03/18/22 13:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Sample: MW-25D **Lab ID: 92587294014** Collected: 02/09/22 14:00 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.603 ± 0.198 (0.156) C:90% T:NA	pCi/L	03/16/22 09:13	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.151 ± 0.439 (0.982) C:67% T:89%	pCi/L	03/14/22 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.754 ± 0.637 (1.14)	pCi/L	03/18/22 13:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Sample: MW-26D **Lab ID: 92587294015** Collected: 02/09/22 09:54 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0677 ± 0.0805 (0.162) C:93% T:NA	pCi/L	03/16/22 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.00537 ± 0.386 (0.895) C:69% T:90%	pCi/L	03/14/22 16:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.0677 ± 0.467 (1.06)	pCi/L	03/18/22 13:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Sample: DUP-1 **Lab ID: 92587294016** Collected: 02/09/22 00:00 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.255 ± 0.148 (0.228) C:84% T:NA	pCi/L	03/16/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.391 ± 0.430 (0.898) C:63% T:89%	pCi/L	03/14/22 16:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.646 ± 0.578 (1.13)	pCi/L	03/18/22 13:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Sample: HGWC-7 **Lab ID: 92587294017** Collected: 02/10/22 12:12 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.0268 ± 0.0827 (0.203) C:89% T:NA	pCi/L	03/16/22 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.148 ± 0.394 (0.881) C:69% T:87%	pCi/L	03/14/22 16:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.175 ± 0.477 (1.08)	pCi/L	03/18/22 13:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Sample: HGWC-8 **Lab ID: 92587294018** Collected: 02/10/22 15:45 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.254 ± 0.126 (0.154) C:95% T:NA	pCi/L	03/16/22 09:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.691 ± 0.506 (0.996) C:63% T:92%	pCi/L	03/14/22 16:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.945 ± 0.632 (1.15)	pCi/L	03/18/22 13:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-24D Lab ID: 92587294021 Collected: 02/10/22 13:32 Received: 02/11/22 11:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.178 ± 0.111 (0.163) C:87% T:NA	pCi/L	03/16/22 09:19	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.0834 ± 0.310 (0.737) C:79% T:85%	pCi/L	03/14/22 13:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.178 ± 0.421 (0.900)	pCi/L	03/18/22 13:09	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

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

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: MW-28D Lab ID: 92587294023 Collected: 02/10/22 14:29 Received: 02/11/22 11:35 Matrix: Water PWS: Site ID: Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.219 ± 0.124 (0.172) C:96% T:NA	pCi/L	03/16/22 09:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.74 ± 4.63 (10.3) C:76% T:89%	pCi/L	03/14/22 13:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.96 ± 4.75 (10.5)	pCi/L	03/18/22 13:09	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Sample: MW-29 **Lab ID: 92587294024** Collected: 02/10/22 09:44 Received: 02/11/22 11:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0596 ± 0.0699 (0.135) C:85% T:NA	pCi/L	03/16/22 10:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.534 ± 0.424 (0.847) C:75% T:81%	pCi/L	03/14/22 13:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.594 ± 0.494 (0.982)	pCi/L	03/18/22 13:09	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EB-1 Lab ID: 92587294025 Collected: 02/10/22 15:59 Received: 02/11/22 11:35 Matrix: Water PWS: Site ID: Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.0149 ± 0.0603 (0.156) C:89% T:NA	pCi/L	03/16/22 10:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.148 ± 0.351 (0.779) C:73% T:83%	pCi/L	03/14/22 13:19	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.163 ± 0.411 (0.935)	pCi/L	03/18/22 13:09	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

QC Batch: 488843

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92587294001

METHOD BLANK: 2364144

Matrix: Water

Associated Lab Samples: 92587294001

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

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

QC Batch: 488358

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

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

METHOD BLANK: 2362219

Matrix: Water

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

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

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

QC Batch: 487656

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

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

METHOD BLANK: 2358730

Matrix: Water

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

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

QC Batch: 484160

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

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

METHOD BLANK: 2341236

Matrix: Water

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

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

QC Batch: 488357

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

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

METHOD BLANK: 2362218

Matrix: Water

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

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

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

QC Batch: 484283

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

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

METHOD BLANK: 2341882

Matrix: Water

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

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

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

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QUALIFIERS

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

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: HAMMOND AP-1 RAD

Pace Project No.: 92587294

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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

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

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: November 15, 2021 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.08	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt: **Client Name:** GA Power Project #: **WO# : 92587319**

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: JRE 2/9/22

Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: IR Gun ID: 083 Type of Ice: Wet Blue None

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 2.4 Correction Factor: Add/Subtract (°C) +2

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

Cooler Temp Corrected (°C): 2.6

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No
 Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: November 15, 2021
Page 1 of 2

Document No.:
F-CAR-CS-033-Rev.08

Issuing Authority:
Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO#: 92586342**

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 2/3/22
TJW

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Cooler Temp: 2.4 Correction Factor: Add/Subtract (°C) +0.2

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

Cooler Temp Corrected (°C): 2.6

USDA Regulated Soil (N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? Yes No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER CCR

Site Location: GA
 STATE: GA

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

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

SAMPLER NAME AND SIGNATURE

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

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

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

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO# : 92587319

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

PM: NMG

Due Date: 02/17/22

CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

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

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

Cooler Temp: *4.2* Correction Factor: Add/Subtract (°C) *+0.2*

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): *4.4*

USDA Regulated Soil (N/A, water sample)

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

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:		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____

Date/Time: _____

Project Manager SCUR Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



Quality Control Sample Performance Assessment

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

Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCSD65467	LCSD65467
Count Date:	3/17/2022	3/17/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.506
Target Conc. (pCi/L, g, F):	4.792	4.751
Uncertainty (Calculated):	0.058	0.057
Result (pCi/L, g, F):	5.598	4.801
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.584	0.536
Numerical Performance Indicator:	2.69	0.18
Percent Recovery:	116.82%	101.07%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

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

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

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

Comments:

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

LCM 3/17/22

QCMS 1/18/22

LCM 3/17/22



Quality Control Sample Performance Assessment

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

Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS65420	LCS/D65420
Count Date:	3/14/2022	3/14/2022
Spike I.D.:	22-016	22-016
Decay Corrected Spike Concentration (pCi/mL):	36.482	36.482
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.810
Target Conc. (pCi/L, g, F):	4.465	4.501
Uncertainty (Calculated):	0.219	0.221
Result (pCi/L, g, F):	4.305	3.914
LCS/LCS/D 2 Sigma CSU (pCi/L, g, F):	0.990	0.916
Numerical Performance Indicator:	-0.31	-1.22
Percent Recovery:	96.41%	86.96%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS65420	Enter Duplicate sample IDs if other than LCS/LCS/D in the space below.
Duplicate Sample I.D.:	LCS/D65420	
Sample Result (pCi/L, g, F):	4.305	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.990	
Sample Duplicate Result (pCi/L, g, F):	3.914	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.916	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.568	
(Based on the LCS/LCS/D Percent Recoveries) Duplicate RPD:	10.31%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.
Sample MS I.D.
Sample MSD I.D.
Sample Matrix Spike Result:
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):
Sample Matrix Spike Duplicate Result:
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Duplicate Numerical Performance Indicator:
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:
MS/ MSD Duplicate Status vs Numerical Indicator:
MS/ MSD Duplicate Status vs RPD:
% RPD Limit:

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

Comments:

M 3/15/22

M 3/18/22



Quality Control Sample Performance Assessment

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

Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65374	LCSD65374
Count Date:	3/16/2022	3/16/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.516	0.504
Target Conc. (pCi/L, g, F):	4.654	4.767
Uncertainty (Calculated):	0.056	0.057
Result (pCi/L, g, F):	5.124	5.036
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	0.352	0.344
Numerical Performance Indicator:	2.58	1.51
Percent Recovery:	110.10%	105.63%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

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

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

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

Comments:

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

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

OK
3/18/22

UAm 3/18/22



Quality Control Sample Performance Assessment

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

Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65088	LCSD65088
Count Date:	2/23/2022	2/23/2022
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	36.233	36.233
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.807	0.812
Target Conc. (pCi/L, g, F):	4.493	4.462
Uncertainty (Calculated):	0.220	0.219
Result (pCi/L, g, F):	3.310	3.183
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.840	0.812
Numerical Performance Indicator:	-2.67	-2.98
Percent Recovery:	73.67%	71.32%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment		
Sample I.D.:	LCS65088	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	LCSD65088	
Sample Result (pCi/L, g, F):	3.310	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.840	
Sample Duplicate Result (pCi/L, g, F):	3.183	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.812	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.213	92586334001
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.24%	92586334001DUP
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

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

Comments:



Quality Control Sample Performance Assessment

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

Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

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

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

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc.(pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:		

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

Comments:

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

VAL 3/15/22

VAL 3/15/22



Quality Control Sample Performance Assessment

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

Analyst Must Manually Enter All Fields Highlighted in Yellow.

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

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS65099	LCSD65099
Count Date:	3/9/2022	3/9/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.029	24.029
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.498
Target Conc. (pCi/L, g, F):	4.748	4.829
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	4.768	5.277
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.445	0.483
Numerical Performance Indicator:	0.09	1.81
Percent Recovery:	100.44%	109.28%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL):		
Spike Volume Used in MS (mL):		
Spike Volume Used in MSD (mL):		
MS Aliquot (L, g, F):		
MS Target Conc. (pCi/L, g, F):		
MSD Aliquot (L, g, F):		
MSD Target Conc. (pCi/L, g, F):		
MS Spike Uncertainty (calculated):		
MSD Spike Uncertainty (calculated):		
Sample Result:		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Duplicate Sample Assessment	LCS65099	LCSD65099
Sample I.D.:	LCS65099	92586334002
Duplicate Sample I.D.:	LCSD65099	92586334002DUP
Sample Result (pCi/L, g, F):	4.768	0.279
Sample Result Counting Uncertainty (pCi/L, g, F):	0.445	0.116
Sample Duplicate Result (pCi/L, g, F):	5.277	0.320
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.483	0.137
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-1.519	-0.448
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	8.43%	13.69%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD 1	MS/MSD 2
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/MSD Duplicate RPD:		
MS/MSD Duplicate Status vs Numerical Indicator:		
MS/MSD Duplicate Status vs RPD:		
% RPD Limit:		

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

Comments:

VALIDATION REPORT

Memorandum

Date: June 13, 2022
To: Whitney Law
From: Matthew Richardson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92587319 Revision 2**

SITE: Plant Hammond AP-1

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-three aqueous samples, one field duplicate, one field blank and one equipment blank, collected 1 and 8-10 February 2022, as part of the Plant Hammond AP on-site sampling event.

The samples were analyzed at Pace Analytical Services Atlanta, Peachtree Corners, Georgia, for the following analytical tests:

- Calcium by United States Environmental Protection Agency (US EPA) Methods 3010A/6010D
- Metals by USEPA Methods 3005A/6020B
- Mercury by USEPA Method 7470A
- Total Dissolved Solids (TDS) by Standard Method 2540C

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

- Anions (Chloride, Fluoride and Sulfate) by USEPA Method 300.0

EXECUTIVE SUMMARY

Overall, based on this Stage 2A data validation covering the quality control (QC) parameters listed below and based on the information provided, the data as qualified are usable for supporting project objectives. The qualified data should be used within the limitations of the qualifications.

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

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and
- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

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

Laboratory ID	Client ID
92587319001	MW-7
92587319002	HGWA-44D
92587319003	HGWA-2
92587319004	HGWA-3
92587319005	HGWA-1
92587319006	HGWA-43D
92587319007	HGWC-9
92587319008	HGWC-10
92587319009	HGWC-11
92587319010	HGWC-12
92587319011	MW-5
92587319012	MW-6
92587319013	MW-19

Laboratory ID	Client ID
92587319014	MW-25D
92587319015	MW-26D
92587319016	DUP-1
92587319017	HGWC-7
92587319018	HGWC-8
92587319019	HGWC-13
92587319020	MW-20
92587319021	MW-24D
92587319022	MW-27D
92587319023	MW-28D
92587319024	MW-29
92587319025	EB-1
92587319026	FB-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

Incorrect error corrections were observed on the chain of custody (COC) containing sample MW-7, instead of the proper procedure of a single strike through, correction, and initials and date of person making the corrections.

The laboratory report was revised twice. The first revision was provided on 22 March 2022 to include an updated COC. The second revision was provided on 3 June 2022 to remove a holding time laboratory flag for the TDS result in sample HGWA-2. The revised report was identified as 92587319 Revision 2.

The results flagged as “ND” in the electronic data deliverable (EDD) were changed to U.

The field pH data included in the laboratory report were not validated.

1.0 METALS

The samples were analyzed for metals by USEPA methods 3010A/6010D and USEPA methods 3005A/6020B. (Mercury was evaluated separately in Section 2.0, below).

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

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

1.1 Overall Assessment

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

1.2 Holding Time

The holding time for the metals analysis of a water sample is 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Six method blanks were reported (batches 678931, 680603, 680760, 678928, 680607 and 680757). Metals were not detected in the method blanks above the method detection limits (MDLs), with the following exceptions.

Calcium was detected in the method blank in batch 680603 at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since calcium was detected in the associated

samples at concentrations greater than the RL and based on professional and technical judgment, no qualifications were applied to the data.

Arsenic was detected in the method blank in batch 680607 at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated arsenic concentrations in samples HGWC-9, HGWC-11, MW-5, MW-6, MW-26D and HGWC-8 were U qualified as not detected at the RL, and based on professional and technical judgment, the arsenic concentration in sample HGWC-12 was J+ qualified as estimated with a high bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
HGWC-9	Arsenic	0.0021	J B	0.0050	U	3
HGWC-11	Arsenic	0.0047	J B	0.0050	U	3
HGWC-12	Arsenic	0.0053	B	0.0053	J+	3
MW-5	Arsenic	0.0013	J B	0.0050	U	3
MW-6	Arsenic	0.0034	J B	0.0050	U	3
MW-26D	Arsenic	0.0017	J B	0.0050	U	3
HGWC-8	Arsenic	0.0020	J B	0.0050	U	3

mg/L-milligrams per liter

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

B-laboratory indicating the analyte was detected in both the method blank and sample

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

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

1.4 Matrix Spike/Matrix Spike Duplicate (MS/MSD)

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples).

One sample set specific MS/MSD pair was reported for calcium by US EPA method 6010D, using sample MW-7. The relative percent difference (RPD) result was within the laboratory specified acceptance criteria, and the recoveries of calcium in the MD/MSD pair using sample MW-7 were high and outside of the laboratory specified acceptance criteria. Since the calcium concentration in sample MW-7 was greater than four times the spike concentration, no qualifications were applied to the data.

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

One sample set specific MS/MSD pair was reported for metals by US EPA method 6020B, using sample MW-7. The recovery and RPD results were within the laboratory specified acceptance criteria.

Two batch MS/MSD pairs were reported for metals by US EPA method 6020B. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.5 Laboratory Control Sample (LCS)

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

1.6 Equipment Blank

One equipment blank was collected with the sample set, EB-1. Metals were not detected in the equipment blank above the MDLs, with the following exception.

Barium was detected in the equipment blank at an estimated concentration greater than the MDL and less than the RL. Since the estimated barium concentration in the equipment blank was U qualified as not detected at the RL due to field blank contamination and based on professional and technical judgment, no additional qualifications were applied to the data.

1.7 Field Blank

One field blank was collected with the sample set, FB-1. Metals were not detected in the field blank above the MDLs, with the following exception.

Barium was detected in the field blank at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated barium concentration in sample EB-1 was U qualified as not detected at the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
EB-1	Barium	0.0026	J	0.0050	U	3

mg/L-milligrams per liter

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

1.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-1. Acceptable precision (RPD ≤ 30%) was demonstrated between the field duplicate and the original sample, HGWC-10, with the following exceptions.

The RPD for boron was greater than 30% in the field duplicate pair. Therefore, the boron concentrations in samples DUP-1 and HGWC-10 were J qualified as estimated

Chromium was detected at a concentration equal to the MDL in sample HGWC-10 and not detected in field duplicate sample DUP-1, resulting in a noncalculable RPD between the results. Therefore, the chromium concentration in sample HGWC-10 was J qualified as estimated, and the non-detect result of chromium in sample DUP-1 was UJ qualified as estimated less than the RL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
DUP-1	Boron	0.18	NA	57	0.18	J	7
HGWC-10	Boron	0.10	NA		0.10	J	7
DUP-1	Chromium	0.0011	U	NC	0.0011	UJ	7
HGWC-10	Chromium	0.0011	J		0.0011	J	7

mg/L-milligrams per liter

NA-not applicable

NC-noncalculable

U-not detected at or above RL

J-estimated concentration greater than or equal to the MDL and less than the RL

1.9 Sensitivity

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

1.10 Electronic Data Deliverable Review

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

2.0 MERCURY

The samples were analyzed for mercury by USEPA method 7470A.

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

- ✓ Overall Assessment
- ✓ Holding Time
- ✓ Method Blank

- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

2.1 Overall Assessment

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

2.2 Holding Time

The holding time for mercury analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

2.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Four method blanks were reported (batches 678094, 678396, 680659 and 681261). Mercury was not detected in the method blanks above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported, using sample MW-7. The recovery and RPD results were within the laboratory specified acceptance criteria.

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

2.5 Laboratory Control Sample

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

2.6 Equipment Blank

One equipment blank was collected with the sample set, EB-1. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Blank

One field blank was collected with the sample set, FB-1. Mercury was not detected in the field blank above the MDL.

2.8 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-1. Acceptable precision (RPD $\leq 30\%$) was demonstrated between the field duplicate and the original sample, HGWC-10.

2.9 Sensitivity

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

2.10 Electronic Data Deliverable Review

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

3.0 WET CHEMISTRY

The samples were analyzed for TDS by Standard method 2540C and anions by USEPA method 300.0.

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

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ⊗ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Equipment Blank
- ✓ Field Blank

- ⊗ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

3.1 **Overall Assessment**

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

3.2 **Holding Times**

The holding time for the TDS analysis of a water sample is 7 days from sample collection to analysis. The holding time for the anions (chloride, fluoride, and sulfate) analysis of a water sample is 28 days from sample collection to analysis. The holding times were met for the sample analyses.

3.3 **Method Blank**

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Five method blanks were reported for TDS (batches 677215, 678369, 678705, 678707 and 679091) and four method blanks were reported for the anions (batches 676561, 678309, 678880 and 678978). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 **Matrix Spike/Matrix Spike Duplicate**

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Two sample set specific MS/MSD pairs were reported for anions, using samples HGWC-9 and MW-20. The recovery and RPD results were within the laboratory specified acceptance criteria, with the following exceptions.

The recoveries of chloride in the MS/MSD pair using sample HGWC-9 were low and outside of the laboratory specified acceptance criteria. Therefore, the chloride concentration in sample HGWC-9 was J- qualified as estimated with a low bias.

The MS recovery of sulfate in the MS/MSD pair using sample MW-20 was low and outside of the laboratory specified acceptance criteria. Therefore, the sulfate concentration in sample MW-20 was J- qualified as estimated with a low bias.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier	Reason Code
HGWC-9	Chloride	84.4	M1	84.4	J-	4
MW-20	Sulfate	95.9	M1	95.9	J-	4

mg/L-milligrams per liter

M1-laboratory flag indicating MS recovery exceeded QC limits

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

3.5 Laboratory Control Sample

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

3.6 Laboratory Duplicate

Three sample set specific laboratory duplicates were reported for TDS, using samples HGWA-2, HGWC-9 and MW-28D. The RPD results were within the laboratory specified acceptance criteria.

Six batch laboratory duplicates were reported for TDS. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

3.7 Equipment Blank

One equipment blank was collected with the sample set, EB-1. The wet chemistry parameters were not detected in the equipment blank above the MDL.

3.8 Field Blank

One field blank was collected with the sample set, FB-1. The wet chemistry parameters were not detected in the field blank above the MDL.

3.9 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-1. Acceptable precision (RPD $\leq 30\%$) was demonstrated between the field duplicate and the original sample, HGWC-10, with the following exception.

The RPD for chloride was greater than 30% in the field duplicate pair. Therefore, the chloride concentrations in samples DUP-1 and HGWC-10 were J qualified as estimated

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
DUP-1	Chloride	3.5	NA	98	3.5	J	7
HGWC-10	Chloride	1.2	NA		1.2	J	7

mg/L-milligrams per liter

NA-not applicable

3.10 Sensitivity

The samples were reported to the MDLs for the anions and the RL for TDS. No elevated non-detect results were reported.

3.11 Electronic Data Deliverable Review

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

* * * * *

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

DATA QUALIFIER DEFINITIONS

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

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

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

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

Memorandum

Date: June 15, 2022
To: Whitney Law
From: Kristoffer Henderson
CC: J. Caprio
Subject: **Stage 2A Data Validation - Level II Data Deliverable – Pace Analytical Services, LLC Project Number 92587294**

SITE: Plant Hammond AP-1

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of twenty-three aqueous samples, one field duplicate, one field blank and one equipment blank, collected 1-10 February 2022, as part of the Plant Hammond AP on-site sampling event.

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

- Radium-226 by United States (US) Environmental Protection Agency (EPA) Method 9315
- Radium-228 by US EPA Method 9320
- Total Radium by Calculation

EXECUTIVE SUMMARY

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

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

- US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);
- USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, November 2020 (EPA 542-R-20-006); and

- American National Standard, Verification and Validation of Radiological Data for use in Waste Management and Environmental Remediation, February 15, 2012 (ANSI/ANS-41.5-2012).

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

Laboratory ID	Client ID
92587294001	MW-7
92587294002	HGWA-44D
92587294003	HGWA-2
92587294004	HGWA-3
92587294005	HGWA-1
92587294006	HGWA-43D
92587294007	HGWC-9
92587294008	HGWC-10
92587294009	HGWC-11
92587294010	HGWC-12
92587294011	MW-5
92587294012	MW-6
92587294013	MW-19

Laboratory ID	Client ID
92587294014	MW-25D
92587294015	MW-26D
92587294016	DUP-1
92587294017	HGWC-7
92587294018	HGWC-8
92587294019	HGWC-13
92587294020	MW-20
92587294021	MW-24D
92587294022	MW-27D
92587294023	MW-28D
92587294024	MW-29
92587294025	EB-1
92587294026	FB-1

The samples were received within 0-6 degrees Celsius (°C). No sample preservation issues were noted by the laboratory.

1.0 RADIOCHEMISTRY

The samples were analyzed for radium-226 by US EPA method 9315, radium-228 by US EPA method 9320 and total radium by calculation.

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

- ✓ Overall Assessment
- ✓ Holding Times
- ⊗ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate

- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

The radium-226 and radium-228 data reported in this data set are considered usable for meeting project objectives. The results are considered valid; the analytical completeness defined as the ratio of the number of valid analytical results (valid analytical results include values qualified as estimated) to the total number of analytical results requested on samples submitted for this analysis, for this data set is 100%.

1.2 Holding Times

The holding times for the radium-226 and radium-228 analyses of a water sample are 180 days from sample collection to analysis. The holding times were met for the sample analyses.

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three method blanks were reported for the radium-228 data (batches 488358, 484160 and 488357). Three method blanks were reported for the radium-226 data (batches 488843, 487656 and 484283). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs), with the following exceptions.

Radium-228 was detected in the method blank in batches 488358 (0.369 pCi/L) and 488357 (0.369 pCi/L) at concentrations greater than the MDCs. Since radium-228 was not detected in the associated samples above the MDCs, no qualifications were applied to the data.

Radium-226 (0.152 pCi/L) was detected in the method blank in batch 487656 at a concentration greater than the MDC. Therefore, the radium-226 concentrations in the associated samples greater than the MDCs were J+ qualified as estimated with high biases. In addition, the combined radium 226+228 concentrations for these samples were J+ qualified as estimated with high biases.

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
HGWC-9	Radium-226	0.198	NA	0.198	J+	3
HGWC-9	Combined Radium 226 + 228	0.198	U	0.198	J+	3
HGWC-11	Radium-226	0.251	NA	0.251	J+	3
HGWC-11	Combined Radium 226 + 228	0.444	U	0.444	J+	3

Sample	Analyte	Laboratory Result (pCi/L)	Laboratory Flag	Validation Result (pCi/L)	Validation Qualifier*	Reason Code**
HGWC-12	Radium-226	0.173	NA	0.173	J+	3
HGWC-12	Combined Radium 226 + 228	0.564	U	0.564	J+	3
MW-19	Radium-226	0.245	NA	0.245	J+	3
MW-19	Combined Radium 226 + 228	0.245	U	0.245	J+	3
MW-25D	Radium-226	0.603	NA	0.603	J+	3
MW-25D	Combined Radium 226 + 228	0.754	U	0.754	J+	3
DUP-1	Radium-226	0.255	NA	0.255	J+	3
DUP-1	Combined Radium 226 + 228	0.646	U	0.646	J+	3
HGWC-8	Radium-226	0.254	NA	0.254	J+	3
HGWC-8	Combined Radium 226 + 228	0.945	U	0.945	J+	3
HGWC-13	Radium-226	0.205	NA	0.205	J+	3
HGWC-13	Combined Radium 226 + 228	0.442	U	0.442	J+	3
MW-24D	Radium-226	0.178	NA	0.178	J+	3
MW-24D	Combined Radium 226 + 228	0.178	U	0.178	J+	3
MW-27D	Radium-226	0.589	NA	0.589	J+	3
MW-27D	Combined Radium 226 + 228	0.809	U	0.809	J+	3
MW-28D	Radium-226	0.219	NA	0.219	J+	3
MW-28D	Combined Radium 226 + 228	1.96	U	1.96	J+	3

pCi/L-picocuries per liter

NA-not applicable

U-not detected at or above the MDC

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

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

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the data.

1.5 Laboratory Control Sample

LCSs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). Three LCS/LCS duplicate (LCSD) pairs were reported for radium-226. Three LCS/LCSD pairs were reported for radium-228. The recovery and replicate error ratio (RER) [1 sigma (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 HWWC-9. The RER result was within the laboratory specified acceptance criteria.

Two batch laboratory duplicates were also reported for radium-226. Since these were batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

1.7 Tracers and Carriers

Carriers were reported for the radium-226 and radium-228 analyses and a tracer was reported for the radium-228 analyses. The recovery results were within the laboratory specified acceptance criteria.

1.8 Equipment Blank

One equipment blank was collected with the sample set, EB-01. Radium-226 and radium-228 were not detected in the equipment blank above the MDCs.

1.9 Field Blank

One field blank was collected with the sample set, FB-01. Radium-226 and radium-228 were not detected in the field blank above the MDCs.

1.10 Field Duplicate

One field duplicate sample was collected with the sample set, DUP-01. Acceptable precision (RER (1σ) < 3) was demonstrated between the field duplicate and the original sample, HGWC-10.

1.11 Sensitivity

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

1.12 Electronic Data Deliverable Review

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

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

DATA QUALIFIER DEFINITIONS

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

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

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: 2/1/2022 11:33:37 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.50 ft Total Depth: 32.50 ft Initial Depth to Water: 13.42 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 27.50 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.52 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 11:33 AM	00:00	7.28 pH	18.61 °C	556.69 µS/cm	2.06 mg/L	12.50 NTU	1.6 mV	13.73 ft	200.00 ml/min
2/1/2022 11:38 AM	05:00	7.25 pH	17.05 °C	581.92 µS/cm	1.89 mg/L	5.43 NTU	6.0 mV	13.95 ft	200.00 ml/min
2/1/2022 11:43 AM	10:00	7.25 pH	17.41 °C	575.00 µS/cm	1.67 mg/L	3.36 NTU	6.3 mV	13.92 ft	200.00 ml/min
2/1/2022 11:48 AM	15:00	7.23 pH	17.54 °C	574.57 µS/cm	1.32 mg/L	4.09 NTU	3.3 mV	13.93 ft	200.00 ml/min
2/1/2022 11:53 AM	20:00	7.21 pH	17.45 °C	580.36 µS/cm	1.01 mg/L	2.91 NTU	4.7 mV	13.93 ft	200.00 ml/min
2/1/2022 11:58 AM	25:00	7.19 pH	17.23 °C	583.39 µS/cm	0.73 mg/L	2.07 NTU	0.7 mV	13.93 ft	200.00 ml/min
2/1/2022 12:03 PM	30:00	7.19 pH	17.55 °C	579.09 µS/cm	0.63 mg/L	3.05 NTU	1.4 mV	13.93 ft	200.00 ml/min
2/1/2022 12:08 PM	35:00	7.19 pH	17.41 °C	582.19 µS/cm	0.56 mg/L	0.40 NTU	-1.4 mV	13.94 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-1	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/1/2022 10:42:11 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.95 ft Total Depth: 27.95 ft Initial Depth to Water: 8.27 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 22.95 ft Estimated Total Volume Pumped: 14 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 10:42 AM	00:00	5.14 pH	16.69 °C	232.20 µS/cm	0.63 mg/L	46.90 NTU	158.1 mV	8.34 ft	200.00 ml/min
2/1/2022 10:47 AM	05:00	5.15 pH	16.40 °C	192.80 µS/cm	0.75 mg/L	23.20 NTU	136.3 mV	8.35 ft	200.00 ml/min
2/1/2022 10:52 AM	10:00	5.13 pH	16.24 °C	231.06 µS/cm	0.48 mg/L	16.60 NTU	129.5 mV	8.35 ft	200.00 ml/min
2/1/2022 10:57 AM	15:00	5.17 pH	16.30 °C	224.16 µS/cm	0.43 mg/L	10.76 NTU	119.4 mV	8.37 ft	200.00 ml/min
2/1/2022 11:02 AM	20:00	5.17 pH	16.42 °C	233.37 µS/cm	0.42 mg/L	8.08 NTU	113.7 mV	8.37 ft	200.00 ml/min
2/1/2022 11:07 AM	25:00	5.19 pH	16.67 °C	234.45 µS/cm	0.56 mg/L	6.51 NTU	167.3 mV	8.37 ft	200.00 ml/min
2/1/2022 11:12 AM	30:00	5.20 pH	17.00 °C	192.38 µS/cm	0.43 mg/L	6.16 NTU	107.4 mV	8.40 ft	200.00 ml/min
2/1/2022 11:17 AM	35:00	5.19 pH	17.00 °C	149.79 µS/cm	0.39 mg/L	4.79 NTU	103.2 mV	8.40 ft	200.00 ml/min
2/1/2022 11:22 AM	40:00	5.24 pH	17.00 °C	231.77 µS/cm	0.43 mg/L	4.03 NTU	99.1 mV	8.40 ft	200.00 ml/min
2/1/2022 11:27 AM	45:00	5.23 pH	17.21 °C	234.14 µS/cm	0.45 mg/L	3.61 NTU	98.2 mV	8.41 ft	200.00 ml/min
2/1/2022 11:32 AM	50:00	5.24 pH	17.09 °C	199.83 µS/cm	0.51 mg/L	3.56 NTU	146.7 mV	8.41 ft	200.00 ml/min
2/1/2022 11:37 AM	55:00	5.22 pH	17.21 °C	234.19 µS/cm	0.52 mg/L	3.28 NTU	96.1 mV	8.41 ft	200.00 ml/min
2/1/2022 11:42 AM	01:00:00	5.24 pH	17.14 °C	233.68 µS/cm	0.46 mg/L	3.31 NTU	91.1 mV	8.41 ft	200.00 ml/min

2/1/2022 11:47 AM	01:05:00	5.24 pH	17.16 °C	235.29 µS/cm	0.48 mg/L	2.85 NTU	139.6 mV	8.41 ft	200.00 ml/min
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Samples

Sample ID:	Description:
HGWA-2	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/1/2022 9:18:03 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.87 ft Total Depth: 44.87 ft Initial Depth to Water: 7.86 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 39.87 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 31 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 9:18 AM	00:00	7.43 pH	14.38 °C	462.35 µS/cm	2.13 mg/L	8.40 NTU	-60.5 mV	7.86 ft	200.00 ml/min
2/1/2022 9:23 AM	05:00	7.42 pH	15.95 °C	470.26 µS/cm	0.50 mg/L	2.62 NTU	-81.6 mV	7.86 ft	200.00 ml/min
2/1/2022 9:28 AM	10:00	7.43 pH	16.15 °C	463.71 µS/cm	0.88 mg/L	2.86 NTU	-85.7 mV	7.86 ft	200.00 ml/min
2/1/2022 9:33 AM	15:00	7.44 pH	16.11 °C	466.16 µS/cm	0.40 mg/L	2.63 NTU	-115.1 mV	7.88 ft	200.00 ml/min
2/1/2022 9:38 AM	20:00	7.44 pH	16.24 °C	504.38 µS/cm	0.50 mg/L	1.63 NTU	-93.6 mV	7.88 ft	200.00 ml/min
2/1/2022 9:43 AM	25:00	7.44 pH	16.24 °C	467.40 µS/cm	0.25 mg/L	0.72 NTU	-94.2 mV	7.88 ft	200.00 ml/min
2/1/2022 9:48 AM	30:00	7.44 pH	16.27 °C	467.09 µS/cm	0.31 mg/L	0.62 NTU	-94.7 mV	7.88 ft	200.00 ml/min
2/1/2022 9:53 AM	35:00	7.45 pH	16.38 °C	466.51 µS/cm	0.20 mg/L	0.68 NTU	-95.7 mV	7.88 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-3	Grab Sample.

Low-Flow Test Report:

Test Date / Time: 2/1/2022 9:43:27 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-43D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.25 ft Total Depth: 61.25 ft Initial Depth to Water: 13.34 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 56.25 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3.19 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 9:43 AM	00:00	7.53 pH	16.74 °C	496.11 µS/cm	0.53 mg/L	8.09 NTU	-83.8 mV	15.27 ft	200.00 ml/min
2/1/2022 9:48 AM	05:00	7.51 pH	16.85 °C	499.11 µS/cm	0.42 mg/L	3.49 NTU	-119.9 mV	15.57 ft	200.00 ml/min
2/1/2022 9:53 AM	10:00	7.52 pH	16.92 °C	497.47 µS/cm	0.25 mg/L	0.92 NTU	-129.8 mV	15.94 ft	200.00 ml/min
2/1/2022 9:58 AM	15:00	7.53 pH	17.03 °C	489.27 µS/cm	0.18 mg/L	1.95 NTU	-109.8 mV	16.24 ft	200.00 ml/min
2/1/2022 10:03 AM	20:00	7.53 pH	17.01 °C	481.27 µS/cm	0.15 mg/L	0.29 NTU	-136.5 mV	16.41 ft	200.00 ml/min
2/1/2022 10:08 AM	24:37	7.53 pH	17.10 °C	474.80 µS/cm	0.13 mg/L	0.03 NTU	-136.8 mV	16.52 ft	200.00 ml/min
2/1/2022 10:13 AM	29:37	7.53 pH	17.22 °C	469.54 µS/cm	0.12 mg/L	1.72 NTU	-110.6 mV	16.59 ft	200.00 ml/min
2/1/2022 10:18 AM	34:37	7.52 pH	17.32 °C	465.38 µS/cm	0.12 mg/L	1.59 NTU	-108.8 mV	16.63 ft	200.00 ml/min
2/1/2022 10:23 AM	39:37	7.52 pH	17.27 °C	463.05 µS/cm	0.11 mg/L	1.63 NTU	-107.5 mV	16.53 ft	200.00 ml/min

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/1/2022 9:53:41 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: HGWA-44D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 103.28 ft Total Depth: 113.28 ft Initial Depth to Water: 13.34 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 108.28 ft Estimated Total Volume Pumped: 26 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.20 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 32 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 9:53 AM	00:00	8.03 pH	15.77 °C	788.25 µS/cm	2.41 mg/L	40.40 NTU	-1.7 mV	11.50 ft	200.00 ml/min
2/1/2022 9:58 AM	05:00	8.07 pH	16.24 °C	793.68 µS/cm	6.43 mg/L	30.50 NTU	-10.9 mV	11.85 ft	200.00 ml/min
2/1/2022 10:03 AM	10:00	8.11 pH	16.20 °C	798.19 µS/cm	8.19 mg/L	23.90 NTU	-10.3 mV	12.40 ft	200.00 ml/min
2/1/2022 10:08 AM	15:00	8.13 pH	16.28 °C	800.71 µS/cm	10.64 mg/L	24.30 NTU	-12.4 mV	12.62 ft	200.00 ml/min
2/1/2022 10:13 AM	20:00	8.14 pH	16.46 °C	799.34 µS/cm	12.75 mg/L	18.80 NTU	-11.7 mV	12.90 ft	200.00 ml/min
2/1/2022 10:18 AM	25:00	8.15 pH	16.72 °C	797.19 µS/cm	11.61 mg/L	17.60 NTU	-11.2 mV	13.05 ft	200.00 ml/min
2/1/2022 10:23 AM	30:00	8.16 pH	16.82 °C	795.06 µS/cm	11.42 mg/L	16.70 NTU	-11.0 mV	13.10 ft	200.00 ml/min
2/1/2022 10:28 AM	35:00	8.17 pH	16.28 °C	804.14 µS/cm	12.45 mg/L	16.60 NTU	-13.9 mV	13.30 ft	200.00 ml/min
2/1/2022 10:33 AM	40:00	8.18 pH	16.41 °C	801.48 µS/cm	12.08 mg/L	14.20 NTU	-13.6 mV	13.60 ft	100.00 ml/min
2/1/2022 10:38 AM	45:00	8.19 pH	16.45 °C	804.07 µS/cm	11.86 mg/L	14.00 NTU	-14.6 mV	13.60 ft	100.00 ml/min
2/1/2022 10:43 AM	50:00	8.20 pH	16.46 °C	804.80 µS/cm	11.98 mg/L	16.10 NTU	-16.6 mV	13.65 ft	100.00 ml/min
2/1/2022 10:48 AM	55:00	8.21 pH	16.60 °C	803.09 µS/cm	12.00 mg/L	18.90 NTU	-16.9 mV	13.70 ft	100.00 ml/min
2/1/2022 10:53 AM	01:00:00	8.21 pH	16.72 °C	803.58 µS/cm	12.70 mg/L	16.30 NTU	-17.0 mV	13.75 ft	100.00 ml/min

2/1/2022 10:58 AM	01:05:00	8.21 pH	16.82 °C	802.58 µS/cm	12.73 mg/L	20.00 NTU	-14.3 mV	13.90 ft	100.00 ml/min
2/1/2022 11:03 AM	01:10:00	8.23 pH	16.73 °C	806.13 µS/cm	12.61 mg/L	24.90 NTU	-15.9 mV	14.00 ft	100.00 ml/min
2/1/2022 11:08 AM	01:15:00	8.23 pH	16.82 °C	799.63 µS/cm	12.22 mg/L	15.60 NTU	-12.5 mV	14.10 ft	100.00 ml/min
2/1/2022 11:13 AM	01:20:00	8.23 pH	16.60 °C	803.48 µS/cm	12.18 mg/L	15.20 NTU	-11.4 mV	14.15 ft	100.00 ml/min
2/1/2022 11:18 AM	01:25:00	8.23 pH	16.84 °C	803.65 µS/cm	12.11 mg/L	11.70 NTU	-11.5 mV	14.23 ft	100.00 ml/min
2/1/2022 11:23 AM	01:30:00	8.23 pH	17.08 °C	801.82 µS/cm	12.10 mg/L	11.60 NTU	-12.9 mV	14.35 ft	100.00 ml/min
2/1/2022 11:28 AM	01:35:00	8.24 pH	17.10 °C	800.28 µS/cm	12.06 mg/L	9.96 NTU	-10.9 mV	14.35 ft	100.00 ml/min
2/1/2022 11:33 AM	01:40:00	8.24 pH	16.98 °C	802.78 µS/cm	12.20 mg/L	8.43 NTU	-10.7 mV	14.35 ft	100.00 ml/min
2/1/2022 11:38 AM	01:45:00	8.25 pH	16.55 °C	807.34 µS/cm	12.65 mg/L	8.17 NTU	-10.4 mV	14.40 ft	100.00 ml/min
2/1/2022 11:43 AM	01:50:00	8.25 pH	16.35 °C	809.51 µS/cm	12.60 mg/L	8.27 NTU	-11.9 mV	14.50 ft	100.00 ml/min
2/1/2022 11:48 AM	01:55:00	8.25 pH	16.28 °C	809.68 µS/cm	12.89 mg/L	7.64 NTU	-10.6 mV	14.50 ft	100.00 ml/min
2/1/2022 11:53 AM	02:00:00	8.25 pH	16.23 °C	811.81 µS/cm	12.86 mg/L	7.36 NTU	-10.5 mV	14.50 ft	100.00 ml/min
2/1/2022 11:58 AM	02:05:00	8.25 pH	16.20 °C	811.57 µS/cm	12.90 mg/L	6.17 NTU	-11.8 mV	14.50 ft	100.00 ml/min
2/1/2022 12:03 PM	02:10:00	8.26 pH	16.22 °C	810.30 µS/cm	12.71 mg/L	5.74 NTU	-10.5 mV	14.51 ft	100.00 ml/min
2/1/2022 12:08 PM	02:15:00	8.26 pH	16.19 °C	812.80 µS/cm	12.90 mg/L	5.76 NTU	-12.1 mV	14.51 ft	100.00 ml/min
2/1/2022 12:13 PM	02:20:00	8.26 pH	16.16 °C	812.48 µS/cm	12.88 mg/L	5.35 NTU	-12.2 mV	14.52 ft	100.00 ml/min
2/1/2022 12:18 PM	02:25:00	8.26 pH	16.22 °C	811.47 µS/cm	12.87 mg/L	5.23 NTU	-12.5 mV	14.52 ft	100.00 ml/min
2/1/2022 12:23 PM	02:30:00	8.27 pH	16.24 °C	812.48 µS/cm	12.75 mg/L	7.30 NTU	-12.6 mV	14.53 ft	100.00 ml/min
2/1/2022 12:28 PM	02:35:00	8.27 pH	16.33 °C	810.61 µS/cm	12.74 mg/L	6.77 NTU	-11.4 mV	14.54 ft	100.00 ml/min
2/1/2022 12:33 PM	02:40:00	8.27 pH	16.32 °C	812.17 µS/cm	12.75 mg/L	6.80 NTU	-11.4 mV	14.54 ft	100.00 ml/min
2/1/2022 12:38 PM	02:45:00	8.27 pH	16.39 °C	809.86 µS/cm	12.75 mg/L	6.52 NTU	-11.5 mV	14.54 ft	100.00 ml/min
2/1/2022 12:43 PM	02:50:00	8.27 pH	16.48 °C	810.57 µS/cm	12.73 mg/L	6.00 NTU	-12.1 mV	14.54 ft	100.00 ml/min
2/1/2022 12:47 PM	02:53:59	8.27 pH	16.46 °C	809.23 µS/cm	13.38 mg/L	6.75 NTU	-9.9 mV	14.54 ft	100.00 ml/min
2/1/2022 12:52 PM	02:58:59	8.27 pH	16.51 °C	796.69 µS/cm	12.96 mg/L	6.30 NTU	-13.0 mV	14.54 ft	100.00 ml/min
2/1/2022 12:57 PM	03:03:59	8.27 pH	16.44 °C	808.16 µS/cm	12.86 mg/L	6.41 NTU	-14.2 mV	14.54 ft	100.00 ml/min
2/1/2022 1:01 PM	03:07:44	8.26 pH	16.49 °C	782.67 µS/cm	13.44 mg/L	5.53 NTU	-13.9 mV	14.54 ft	100.00 ml/min
2/1/2022 1:06 PM	03:12:44	8.26 pH	16.49 °C	796.34 µS/cm	13.14 mg/L	13.70 NTU	-15.4 mV	14.54 ft	100.00 ml/min
2/1/2022 1:11 PM	03:17:44	8.26 pH	16.46 °C	806.69 µS/cm	12.44 mg/L	4.35 NTU	-18.4 mV	14.54 ft	100.00 ml/min
2/1/2022 1:16 PM	03:22:44	8.26 pH	16.55 °C	800.04 µS/cm	12.24 mg/L	4.36 NTU	-17.6 mV	14.54 ft	100.00 ml/min

2/1/2022 1:21 PM	03:27:44	8.26 pH	16.57 °C	799.46 µS/cm	12.26 mg/L	4.20 NTU	-18.6 mV	14.54 ft	100.00 ml/min
2/1/2022 1:26 PM	03:32:44	8.25 pH	16.83 °C	795.30 µS/cm	12.14 mg/L	4.25 NTU	-20.8 mV	14.54 ft	100.00 ml/min

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/10/2022 11:07:10 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: HGWC-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.17 ft Total Depth: 28.17 ft Initial Depth to Water: 5.01 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 23.17 ft Estimated Total Volume Pumped: 13 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/10/2022 11:07 AM	00:00	7.26 pH	17.70 °C	604.37 µS/cm	0.97 mg/L	2.32 NTU	-3.9 mV	5.09 ft	200.00 ml/min
2/10/2022 11:12 AM	05:00	7.25 pH	17.29 °C	620.79 µS/cm	0.60 mg/L	3.27 NTU	-8.7 mV	5.09 ft	200.00 ml/min
2/10/2022 11:17 AM	10:00	7.24 pH	17.33 °C	623.39 µS/cm	0.41 mg/L	2.92 NTU	-14.6 mV	5.09 ft	200.00 ml/min
2/10/2022 11:22 AM	15:00	7.23 pH	17.47 °C	623.37 µS/cm	0.29 mg/L	4.43 NTU	-9.6 mV	5.09 ft	200.00 ml/min
2/10/2022 11:27 AM	20:00	7.23 pH	17.47 °C	623.97 µS/cm	0.21 mg/L	5.91 NTU	-14.8 mV	5.09 ft	200.00 ml/min
2/10/2022 11:32 AM	25:00	7.23 pH	17.60 °C	623.78 µS/cm	0.18 mg/L	9.01 NTU	-9.7 mV	5.09 ft	200.00 ml/min
2/10/2022 11:37 AM	30:00	7.22 pH	17.58 °C	624.53 µS/cm	0.15 mg/L	11.49 NTU	-15.0 mV	5.09 ft	200.00 ml/min
2/10/2022 11:42 AM	35:00	7.22 pH	17.71 °C	623.07 µS/cm	0.13 mg/L	9.41 NTU	-14.9 mV	5.09 ft	200.00 ml/min
2/10/2022 11:47 AM	40:00	7.22 pH	17.79 °C	623.46 µS/cm	0.12 mg/L	7.70 NTU	-15.2 mV	5.09 ft	200.00 ml/min
2/10/2022 11:52 AM	45:00	7.22 pH	17.80 °C	624.27 µS/cm	0.12 mg/L	6.37 NTU	-15.2 mV	5.09 ft	200.00 ml/min
2/10/2022 11:57 AM	50:00	7.22 pH	17.89 °C	624.60 µS/cm	0.11 mg/L	5.98 NTU	-15.4 mV	5.09 ft	200.00 ml/min
2/10/2022 12:02 PM	55:00	7.22 pH	17.98 °C	624.18 µS/cm	0.11 mg/L	6.07 NTU	-10.0 mV	5.09 ft	200.00 ml/min
2/10/2022 12:07 PM	01:00:00	7.22 pH	18.05 °C	623.81 µS/cm	0.11 mg/L	4.20 NTU	-10.0 mV	5.09 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-7	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/10/2022 3:09:46 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: HGWC-8 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 16.65 ft Total Depth: 26.65 ft Initial Depth to Water: 5.03 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 21.65 ft Estimated Total Volume Pumped: 7 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: 728634
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 60 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/10/2022 3:09 PM	00:00	7.14 pH	18.95 °C	837.78 µS/cm	0.27 mg/L	17.60 NTU	-9.0 mV	5.05 ft	200.00 ml/min
2/10/2022 3:14 PM	05:00	7.08 pH	18.33 °C	827.67 µS/cm	0.19 mg/L	9.68 NTU	-19.0 mV	5.05 ft	200.00 ml/min
2/10/2022 3:19 PM	10:00	7.04 pH	18.38 °C	828.94 µS/cm	0.15 mg/L	5.45 NTU	-14.0 mV	5.05 ft	200.00 ml/min
2/10/2022 3:24 PM	15:00	7.02 pH	18.43 °C	828.95 µS/cm	0.13 mg/L	3.75 NTU	-20.3 mV	5.05 ft	200.00 ml/min
2/10/2022 3:29 PM	20:00	7.01 pH	18.45 °C	828.86 µS/cm	0.11 mg/L	3.68 NTU	-14.2 mV	5.05 ft	200.00 ml/min
2/10/2022 3:34 PM	25:00	7.00 pH	18.49 °C	828.13 µS/cm	0.10 mg/L	3.33 NTU	-20.7 mV	5.05 ft	200.00 ml/min
2/10/2022 3:39 PM	30:00	6.99 pH	18.55 °C	828.00 µS/cm	0.10 mg/L	3.06 NTU	-14.4 mV	5.05 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-8	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/9/2022 10:31:41 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWC-9 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 36.98 ft Total Depth: 46.98 ft Initial Depth to Water: 9.35 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 41.98 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.10 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 40 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 10:31 AM	00:00	7.23 pH	16.14 °C	998.83 µS/cm	0.89 mg/L	12.49 NTU	12.1 mV	9.40 ft	200.00 ml/min
2/9/2022 10:36 AM	05:00	7.26 pH	16.55 °C	992.40 µS/cm	0.48 mg/L	9.31 NTU	14.8 mV	9.42 ft	200.00 ml/min
2/9/2022 10:41 AM	10:00	7.27 pH	16.71 °C	993.25 µS/cm	0.36 mg/L	7.69 NTU	18.1 mV	9.42 ft	200.00 ml/min
2/9/2022 10:46 AM	15:00	7.29 pH	16.65 °C	990.11 µS/cm	0.27 mg/L	5.53 NTU	23.7 mV	9.43 ft	200.00 ml/min
2/9/2022 10:51 AM	20:00	7.29 pH	16.69 °C	991.56 µS/cm	0.23 mg/L	4.89 NTU	26.5 mV	9.44 ft	200.00 ml/min
2/9/2022 10:56 AM	25:00	7.29 pH	16.78 °C	992.30 µS/cm	0.21 mg/L	3.60 NTU	28.4 mV	9.45 ft	200.00 ml/min
2/9/2022 11:01 AM	30:00	7.30 pH	16.87 °C	992.99 µS/cm	0.19 mg/L	3.33 NTU	28.6 mV	9.45 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-9	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/9/2022 3:02:18 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWC-10 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 13 ft Total Depth: 23 ft Initial Depth to Water: 7.68 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 18 ft Estimated Total Volume Pumped: 7 ml Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.08 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 3:02 PM	00:00	6.95 pH	17.05 °C	371.75 µS/cm	4.67 mg/L	1.72 NTU	65.9 mV	7.73 ft	200.00 ml/min
2/9/2022 3:07 PM	05:00	6.98 pH	16.51 °C	376.95 µS/cm	4.70 mg/L	1.92 NTU	53.7 mV	7.74 ft	200.00 ml/min
2/9/2022 3:12 PM	10:00	6.99 pH	16.53 °C	378.49 µS/cm	4.64 mg/L	1.47 NTU	52.8 mV	7.74 ft	200.00 ml/min
2/9/2022 3:17 PM	15:00	7.00 pH	16.65 °C	378.15 µS/cm	4.55 mg/L	1.81 NTU	69.4 mV	7.75 ft	200.00 ml/min
2/9/2022 3:22 PM	20:00	7.00 pH	16.70 °C	379.62 µS/cm	4.46 mg/L	1.37 NTU	69.9 mV	7.75 ft	200.00 ml/min
2/9/2022 3:27 PM	25:00	7.00 pH	16.75 °C	383.56 µS/cm	4.36 mg/L	1.13 NTU	52.5 mV	7.76 ft	200.00 ml/min
2/9/2022 3:32 PM	30:00	7.00 pH	16.78 °C	385.15 µS/cm	4.27 mg/L	0.97 NTU	69.0 mV	7.76 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-10	Grab sample.
DUP-1	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/9/2022 9:27:10 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 15.78 ft Total Depth: 25.78 ft Initial Depth to Water: 10.19 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 20.78 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 27 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 9:27 AM	00:00	6.72 pH	13.76 °C	879.81 µS/cm	0.77 mg/L	1.63 NTU	126.5 mV	10.29 ft	200.00 ml/min
2/9/2022 9:32 AM	05:00	6.55 pH	15.96 °C	856.08 µS/cm	0.59 mg/L	2.06 NTU	73.7 mV	10.31 ft	200.00 ml/min
2/9/2022 9:37 AM	10:00	6.55 pH	16.43 °C	850.26 µS/cm	0.55 mg/L	1.63 NTU	60.4 mV	10.32 ft	200.00 ml/min
2/9/2022 9:42 AM	15:00	6.56 pH	16.29 °C	851.32 µS/cm	0.41 mg/L	1.75 NTU	54.3 mV	10.32 ft	200.00 ml/min
2/9/2022 9:47 AM	20:00	6.55 pH	16.47 °C	851.41 µS/cm	0.39 mg/L	1.31 NTU	51.9 mV	10.32 ft	200.00 ml/min
2/9/2022 9:52 AM	25:00	6.55 pH	16.78 °C	853.52 µS/cm	0.50 mg/L	1.26 NTU	49.7 mV	10.33 ft	200.00 ml/min
2/9/2022 9:57 AM	30:00	6.55 pH	16.74 °C	847.06 µS/cm	0.52 mg/L	1.06 NTU	73.7 mV	10.33 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-11	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/9/2022 10:43:23 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.68 ft Total Depth: 35.68 ft Initial Depth to Water: 10.51 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 30.68ft Estimated Total Volume Pumped: 11 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: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 48 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 10:43 AM	00:00	7.25 pH	17.89 °C	987.40 µS/cm	1.75 mg/L	16.40 NTU	20.9 mV	10.55 ft	200.00 ml/min
2/9/2022 10:48 AM	05:00	7.24 pH	18.25 °C	1,002.5 µS/cm	1.21 mg/L	15.90 NTU	9.0 mV	10.55 ft	200.00 ml/min
2/9/2022 10:53 AM	10:00	7.20 pH	18.25 °C	990.38 µS/cm	0.87 mg/L	12.00 NTU	6.0 mV	10.55 ft	200.00 ml/min
2/9/2022 10:58 AM	15:00	7.24 pH	18.16 °C	1,001.1 µS/cm	0.81 mg/L	7.25 NTU	5.5 mV	10.55 ft	200.00 ml/min
2/9/2022 11:03 AM	20:00	7.24 pH	18.29 °C	1,054.4 µS/cm	0.88 mg/L	4.07 NTU	4.0 mV	10.55 ft	200.00 ml/min
2/9/2022 11:08 AM	25:00	7.24 pH	18.39 °C	1,003.6 µS/cm	0.97 mg/L	4.01 NTU	5.0 mV	10.55 ft	200.00 ml/min
2/9/2022 11:13 AM	30:00	7.22 pH	18.37 °C	880.88 µS/cm	0.81 mg/L	1.33 NTU	7.5 mV	10.55 ft	200.00 ml/min
2/9/2022 11:18 AM	35:00	7.25 pH	18.36 °C	897.26 µS/cm	0.77 mg/L	0.68 NTU	3.9 mV	10.55 ft	200.00 ml/min
2/9/2022 11:23 AM	40:00	7.24 pH	18.39 °C	998.46 µS/cm	0.84 mg/L	0.53 NTU	4.0 mV	10.55 ft	200.00 ml/min
2/9/2022 11:28 AM	45:00	7.24 pH	18.43 °C	997.19 µS/cm	0.72 mg/L	0.46 NTU	4.4 mV	10.56 ft	200.00 ml/min
2/9/2022 11:33 AM	50:00	7.23 pH	18.39 °C	997.88 µS/cm	0.78 mg/L	0.48 NTU	4.7 mV	10.56 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-12	Grab sample.

Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/10/2022 2:20:43 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWC-13 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 35.07 ft Total Depth: 45.07 ft Initial Depth to Water: 22.34 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 40.07 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.06 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 65 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/10/2022 2:20 PM	00:00	7.46 pH	19.95 °C	1,015.2 µS/cm	0.42 mg/L	2.34 NTU	-100.1 mV	22.40 ft	200.00 ml/min
2/10/2022 2:25 PM	05:00	7.49 pH	19.79 °C	1,017.4 µS/cm	0.28 mg/L	2.49 NTU	-112.8 mV	22.40 ft	200.00 ml/min
2/10/2022 2:30 PM	10:00	7.51 pH	19.83 °C	1,017.2 µS/cm	0.23 mg/L	1.28 NTU	-98.3 mV	22.40 ft	200.00 ml/min
2/10/2022 2:35 PM	15:00	7.52 pH	19.81 °C	1,014.1 µS/cm	0.21 mg/L	0.93 NTU	-97.6 mV	22.40 ft	200.00 ml/min
2/10/2022 2:40 PM	20:00	7.53 pH	19.88 °C	1,015.5 µS/cm	0.19 mg/L	0.88 NTU	-97.0 mV	22.40 ft	200.00 ml/min
2/10/2022 2:45 PM	25:00	7.54 pH	19.88 °C	1,014.7 µS/cm	0.17 mg/L	0.65 NTU	-112.0 mV	22.40 ft	200.00 ml/min
2/10/2022 2:50 PM	30:00	7.54 pH	19.95 °C	1,015.4 µS/cm	0.16 mg/L	0.39 NTU	-97.1 mV	22.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-13	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/9/2022 11:58:18 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: MW-5 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 20.82 ft Total Depth: 30.82 ft Initial Depth to Water: 10.74 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 25.82 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.26 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 11:58 AM	00:00	6.15 pH	17.72 °C	439.67 µS/cm	2.21 mg/L	2.59 NTU	94.7 mV	10.96 ft	200.00 ml/min
2/9/2022 12:03 PM	05:00	6.14 pH	17.74 °C	440.08 µS/cm	1.86 mg/L	2.03 NTU	84.7 mV	10.96 ft	200.00 ml/min
2/9/2022 12:08 PM	10:00	6.14 pH	17.72 °C	440.49 µS/cm	1.84 mg/L	1.56 NTU	110.9 mV	10.99 ft	200.00 ml/min
2/9/2022 12:13 PM	15:00	6.13 pH	17.68 °C	439.46 µS/cm	1.76 mg/L	1.25 NTU	111.8 mV	10.95 ft	200.00 ml/min
2/9/2022 12:18 PM	20:00	6.13 pH	17.75 °C	438.14 µS/cm	1.68 mg/L	1.13 NTU	111.2 mV	10.99 ft	200.00 ml/min
2/9/2022 12:23 PM	25:00	6.13 pH	17.81 °C	437.66 µS/cm	1.68 mg/L	0.98 NTU	81.4 mV	11.00 ft	200.00 ml/min
2/9/2022 12:28 PM	30:00	6.13 pH	17.90 °C	436.64 µS/cm	1.62 mg/L	1.03 NTU	108.7 mV	11.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-5	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/9/2022 1:33:42 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: MW-6 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 23.00 ft Total Depth: 33.00 ft Initial Depth to Water: 11.15 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 28 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.10 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 1:33 PM	00:00	6.93 pH	19.61 °C	960.08 µS/cm	1.61 mg/L	41.10 NTU	-70.7 mV	11.20 ft	200.00 ml/min
2/9/2022 1:38 PM	05:00	6.96 pH	20.12 °C	935.75 µS/cm	0.35 mg/L	36.60 NTU	-18.4 mV	11.21 ft	200.00 ml/min
2/9/2022 1:43 PM	10:00	6.97 pH	20.23 °C	926.39 µS/cm	0.25 mg/L	16.90 NTU	-6.5 mV	11.21 ft	200.00 ml/min
2/9/2022 1:48 PM	15:00	6.98 pH	20.26 °C	924.13 µS/cm	0.26 mg/L	11.77 NTU	-4.8 mV	11.22 ft	200.00 ml/min
2/9/2022 1:53 PM	20:00	7.00 pH	20.26 °C	923.36 µS/cm	0.26 mg/L	8.89 NTU	-5.6 mV	11.24 ft	200.00 ml/min
2/9/2022 1:58 PM	25:00	7.01 pH	20.29 °C	920.57 µS/cm	0.23 mg/L	6.49 NTU	-4.7 mV	11.24 ft	200.00 ml/min
2/9/2022 2:03 PM	30:00	7.01 pH	20.27 °C	918.86 µS/cm	0.20 mg/L	5.08 NTU	-4.3 mV	11.24 ft	200.00 ml/min
2/9/2022 2:08 PM	35:00	7.01 pH	20.26 °C	917.55 µS/cm	0.17 mg/L	4.98 NTU	-5.2 mV	11.25 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-6	Grab sample

Low-Flow Test Report:

Test Date / Time: 2/8/2022 4:20:38 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: MW-7 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 16.80 ft Total Depth: 26.80 ft Initial Depth to Water: 6.13 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 21.80 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.04 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 52 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/8/2022 4:20 PM	00:00	6.62 pH	16.74 °C	417.45 µS/cm	3.62 mg/L	3.06 NTU	66.5 mV	16.13 ft	200.00 ml/min
2/8/2022 4:25 PM	05:00	6.67 pH	16.79 °C	409.50 µS/cm	2.77 mg/L	3.22 NTU	55.2 mV	16.13 ft	200.00 ml/min
2/8/2022 4:30 PM	10:00	6.67 pH	16.98 °C	406.85 µS/cm	2.65 mg/L	3.02 NTU	53.3 mV	16.15 ft	200.00 ml/min
2/8/2022 4:35 PM	15:00	6.66 pH	17.09 °C	398.29 µS/cm	2.43 mg/L	1.47 NTU	51.7 mV	16.15 ft	200.00 ml/min
2/8/2022 4:40 PM	20:00	6.67 pH	17.19 °C	421.42 µS/cm	2.27 mg/L	1.54 NTU	49.7 mV	16.17 ft	200.00 ml/min
2/8/2022 4:45 PM	25:00	6.72 pH	17.14 °C	394.75 µS/cm	2.43 mg/L	1.15 NTU	76.4 mV	16.17 ft	200.00 ml/min
2/8/2022 4:50 PM	30:00	6.72 pH	17.20 °C	425.66 µS/cm	2.35 mg/L	0.85 NTU	76.8 mV	16.17 ft	200.00 ml/min
2/8/2022 4:55 PM	35:00	6.71 pH	17.23 °C	430.83 µS/cm	2.20 mg/L	0.97 NTU	47.9 mV	16.17 ft	200.00 ml/min
2/8/2022 5:00 PM	40:00	6.73 pH	17.05 °C	425.12 µS/cm	2.22 mg/L	0.72 NTU	46.3 mV	16.17 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-7	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/9/2022 3:00:04 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: MW-19 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 19.87 ft Total Depth: 29.87 ft Initial Depth to Water: 9.40 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 24.87 ft Estimated Total Volume Pumped: 17 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.09 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 60 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 3:00 PM	00:00	6.29 pH	18.79 °C	642.81 µS/cm	1.55 mg/L	10.13 NTU	55.9 mV	9.45 ft	200.00 ml/min
2/9/2022 3:05 PM	05:00	6.25 pH	19.00 °C	584.72 µS/cm	1.00 mg/L	8.27 NTU	54.7 mV	9.47 ft	200.00 ml/min
2/9/2022 3:10 PM	10:00	6.27 pH	18.84 °C	651.00 µS/cm	0.91 mg/L	5.97 NTU	83.4 mV	9.47 ft	200.00 ml/min
2/9/2022 3:15 PM	15:00	6.27 pH	18.97 °C	665.68 µS/cm	0.86 mg/L	5.88 NTU	52.5 mV	9.47 ft	200.00 ml/min
2/9/2022 3:20 PM	20:00	6.27 pH	19.04 °C	679.35 µS/cm	0.77 mg/L	5.53 NTU	81.6 mV	9.49 ft	200.00 ml/min
2/9/2022 3:25 PM	25:00	6.27 pH	19.10 °C	693.31 µS/cm	0.79 mg/L	8.17 NTU	53.4 mV	9.49 ft	200.00 ml/min
2/9/2022 3:30 PM	30:00	6.29 pH	18.98 °C	698.21 µS/cm	0.74 mg/L	8.56 NTU	50.6 mV	9.49 ft	200.00 ml/min
2/9/2022 3:35 PM	35:00	6.29 pH	19.07 °C	699.23 µS/cm	0.79 mg/L	7.75 NTU	78.2 mV	9.49 ft	200.00 ml/min
2/9/2022 3:40 PM	40:00	6.28 pH	19.15 °C	717.10 µS/cm	0.68 mg/L	5.78 NTU	51.5 mV	9.49 ft	200.00 ml/min
2/9/2022 3:45 PM	45:00	6.30 pH	19.10 °C	505.19 µS/cm	0.66 mg/L	4.85 NTU	77.6 mV	9.49 ft	200.00 ml/min
2/9/2022 3:50 PM	50:00	6.29 pH	19.07 °C	713.81 µS/cm	0.78 mg/L	4.30 NTU	50.2 mV	9.49 ft	200.00 ml/min
2/9/2022 3:55 PM	55:00	6.29 pH	19.14 °C	711.72 µS/cm	0.86 mg/L	2.36 NTU	75.5 mV	9.49 ft	200.00 ml/min
2/9/2022 4:00 PM	01:00:00	6.27 pH	19.19 °C	636.21 µS/cm	0.68 mg/L	1.73 NTU	49.4 mV	9.49 ft	200.00 ml/min

2/9/2022 4:05 PM	01:05:00	6.30 pH	19.08 °C	614.01 µS/cm	0.75 mg/L	4.03 NTU	48.4 mV	9.49 ft	200.00 ml/min
2/9/2022 4:10 PM	01:10:00	6.31 pH	19.05 °C	717.42 µS/cm	0.75 mg/L	3.59 NTU	47.2 mV	9.49 ft	200.00 ml/min
2/9/2022 4:15 PM	01:15:00	6.30 pH	19.14 °C	716.25 µS/cm	0.77 mg/L	3.36 NTU	73.4 mV	9.49 ft	200.00 ml/min
2/9/2022 4:20 PM	01:20:00	6.28 pH	19.16 °C	718.67 µS/cm	0.77 mg/L	2.78 NTU	49.0 mV	9.49 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-19	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/10/2022 10:57:47 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: MW-20 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 24.36 ft Total Depth: 34.36 ft Initial Depth to Water: 9.43 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 29.36 ft Estimated Total Volume Pumped: 10 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.57 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 40 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/10/2022 10:57 AM	00:00	7.10 pH	17.54 °C	670.61 µS/cm	0.39 mg/L	8.50 NTU	-70.8 mV	9.82 ft	200.00 ml/min
2/10/2022 11:02 AM	05:00	7.14 pH	17.72 °C	673.89 µS/cm	0.32 mg/L	7.83 NTU	-85.8 mV	9.85 ft	200.00 ml/min
2/10/2022 11:07 AM	10:00	7.16 pH	17.76 °C	676.28 µS/cm	0.27 mg/L	7.26 NTU	-87.6 mV	9.89 ft	200.00 ml/min
2/10/2022 11:12 AM	15:00	7.17 pH	17.77 °C	677.97 µS/cm	0.22 mg/L	7.10 NTU	-88.7 mV	9.94 ft	200.00 ml/min
2/10/2022 11:17 AM	20:00	7.18 pH	17.81 °C	679.24 µS/cm	0.20 mg/L	6.15 NTU	-89.0 mV	9.94 ft	200.00 ml/min
2/10/2022 11:22 AM	25:00	7.19 pH	17.89 °C	679.96 µS/cm	0.18 mg/L	5.42 NTU	-89.4 mV	9.98 ft	200.00 ml/min
2/10/2022 11:27 AM	30:00	7.19 pH	17.90 °C	680.88 µS/cm	0.17 mg/L	4.95 NTU	-89.3 mV	10.00 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-20	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/10/2022 12:57:49 PM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: MW-24D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 63.11 ft Total Depth: 73.11 ft Initial Depth to Water: 25.79 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 68.11 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: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/10/2022 12:57 PM	00:00	7.71 pH	19.44 °C	583.22 µS/cm	0.37 mg/L	1.14 NTU	-78.7 mV	25.84 ft	200.00 ml/min
2/10/2022 1:02 PM	05:00	7.77 pH	19.59 °C	582.12 µS/cm	0.16 mg/L	3.48 NTU	-53.4 mV	25.81 ft	200.00 ml/min
2/10/2022 1:07 PM	10:00	7.80 pH	19.41 °C	585.83 µS/cm	0.13 mg/L	4.33 NTU	-41.3 mV	25.88 ft	200.00 ml/min
2/10/2022 1:12 PM	15:00	7.81 pH	19.51 °C	584.95 µS/cm	0.12 mg/L	3.67 NTU	-35.5 mV	25.86 ft	200.00 ml/min
2/10/2022 1:17 PM	20:00	7.81 pH	19.72 °C	581.30 µS/cm	0.12 mg/L	3.89 NTU	-53.9 mV	25.87 ft	200.00 ml/min
2/10/2022 1:22 PM	25:00	7.81 pH	19.68 °C	581.21 µS/cm	0.12 mg/L	3.75 NTU	-52.2 mV	25.86 ft	200.00 ml/min
2/10/2022 1:27 PM	30:00	7.82 pH	19.57 °C	582.76 µS/cm	0.13 mg/L	3.66 NTU	-29.9 mV	25.84 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-24D	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/9/2022 1:20:34 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: MW-25D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.03 ft Total Depth: 63.03 ft Initial Depth to Water: 10.4 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 58.03 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 4.62 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny 54 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 1:20 PM	00:00	7.69 pH	19.41 °C	602.23 µS/cm	1.18 mg/L	1.21 NTU	-131.0 mV	10.99 ft	200.00 ml/min
2/9/2022 1:25 PM	05:00	7.73 pH	18.41 °C	624.43 µS/cm	0.94 mg/L	2.01 NTU	-147.4 mV	12.68 ft	200.00 ml/min
2/9/2022 1:30 PM	10:00	7.78 pH	18.64 °C	638.18 µS/cm	0.73 mg/L	1.60 NTU	-156.7 mV	13.78 ft	200.00 ml/min
2/9/2022 1:35 PM	15:00	7.79 pH	18.56 °C	622.08 µS/cm	0.90 mg/L	1.89 NTU	-161.4 mV	14.75 ft	200.00 ml/min
2/9/2022 1:40 PM	20:00	7.80 pH	18.54 °C	619.05 µS/cm	0.83 mg/L	1.32 NTU	-162.2 mV	14.96 ft	100.00 ml/min
2/9/2022 1:45 PM	25:00	7.80 pH	18.54 °C	621.19 µS/cm	1.02 mg/L	1.14 NTU	-163.3 mV	15.00 ft	100.00 ml/min
2/9/2022 1:50 PM	30:00	7.80 pH	18.59 °C	620.65 µS/cm	1.05 mg/L	0.96 NTU	-164.8 mV	15.02 ft	100.00 ml/min
2/9/2022 1:55 PM	35:00	7.82 pH	18.92 °C	616.93 µS/cm	0.99 mg/L	0.99 NTU	-165.6 mV	15.02 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW-25D	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/9/2022 9:19:04 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: MW-26D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 67.91 ft Total Depth: 77.91 ft Initial Depth to Water: 9.30 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 72.91 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.21 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 35 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 9:19 AM	00:00	7.43 pH	14.24 °C	891.84 µS/cm	0.71 mg/L	2.79 NTU	-172.7 mV	9.45 ft	200.00 ml/min
2/9/2022 9:24 AM	05:00	7.29 pH	15.57 °C	1,000.5 µS/cm	0.21 mg/L	13.45 NTU	-83.5 mV	9.49 ft	200.00 ml/min
2/9/2022 9:29 AM	10:00	7.31 pH	16.16 °C	996.62 µS/cm	0.15 mg/L	11.87 NTU	-68.7 mV	9.46 ft	200.00 ml/min
2/9/2022 9:34 AM	15:00	7.31 pH	16.41 °C	996.55 µS/cm	0.11 mg/L	9.57 NTU	-77.4 mV	9.50 ft	200.00 ml/min
2/9/2022 9:39 AM	20:00	7.32 pH	16.57 °C	997.56 µS/cm	0.10 mg/L	6.63 NTU	-54.7 mV	9.50 ft	200.00 ml/min
2/9/2022 9:44 AM	25:00	7.32 pH	16.65 °C	995.64 µS/cm	0.10 mg/L	4.86 NTU	-66.4 mV	9.50 ft	200.00 ml/min
2/9/2022 9:49 AM	30:00	7.32 pH	16.78 °C	995.51 µS/cm	0.11 mg/L	4.73 NTU	-47.0 mV	9.51 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-26D	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/10/2022 9:20:04 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: MW-27D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 52.97 ft Total Depth: 62.97 ft Initial Depth to Water: 4.63 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 57.97 ft Estimated Total Volume Pumped: 55 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 48.63 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 33 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/10/2022 9:20 AM	00:00	7.83 pH	15.93 °C	461.77 µS/cm	1.06 mg/L	1.56 NTU	-153.0 mV	7.21 ft	300.00 ml/min
2/10/2022 9:25 AM	05:00	7.83 pH	16.36 °C	467.77 µS/cm	0.94 mg/L	3.81 NTU	-158.4 mV	8.58 ft	300.00 ml/min
2/10/2022 9:30 AM	10:00	7.80 pH	16.68 °C	428.40 µS/cm	0.95 mg/L	5.29 NTU	-160.5 mV	10.84 ft	300.00 ml/min
2/10/2022 9:35 AM	15:00	7.79 pH	16.96 °C	431.60 µS/cm	0.96 mg/L	6.12 NTU	-155.5 mV	12.72 ft	300.00 ml/min
2/10/2022 9:40 AM	20:00	7.78 pH	17.09 °C	420.35 µS/cm	1.00 mg/L	2.91 NTU	-150.2 mV	14.77 ft	300.00 ml/min
2/10/2022 9:45 AM	25:00	7.74 pH	17.22 °C	422.92 µS/cm	0.88 mg/L	3.53 NTU	-145.6 mV	16.71 ft	300.00 ml/min
2/10/2022 9:50 AM	30:00	7.76 pH	17.18 °C	416.98 µS/cm	0.99 mg/L	2.24 NTU	-160.1 mV	18.84 ft	300.00 ml/min
2/10/2022 9:55 AM	35:00	7.78 pH	17.32 °C	422.22 µS/cm	0.96 mg/L	2.30 NTU	-158.1 mV	21.40 ft	300.00 ml/min
2/10/2022 10:00 AM	40:00	7.79 pH	17.49 °C	421.53 µS/cm	1.47 mg/L	2.44 NTU	-128.9 mV	22.80 ft	300.00 ml/min
2/10/2022 10:05 AM	45:00	7.79 pH	17.59 °C	421.46 µS/cm	2.34 mg/L	2.59 NTU	-114.1 mV	24.76 ft	300.00 ml/min
2/10/2022 10:10 AM	50:00	7.83 pH	17.68 °C	421.45 µS/cm	3.03 mg/L	3.02 NTU	-106.8 mV	26.70 ft	300.00 ml/min
2/10/2022 10:15 AM	55:00	7.85 pH	17.76 °C	421.15 µS/cm	3.16 mg/L	2.72 NTU	-103.0 mV	28.51 ft	300.00 ml/min
2/10/2022 10:20 AM	01:00:00	7.83 pH	17.82 °C	426.49 µS/cm	3.35 mg/L	3.18 NTU	-99.8 mV	30.25 ft	300.00 ml/min

2/10/2022 10:25 AM	01:05:00	7.84 pH	17.88 °C	417.81 µS/cm	3.50 mg/L	3.55 NTU	-100.4 mV	31.97 ft	300.00 ml/min
2/10/2022 10:30 AM	01:10:00	7.86 pH	17.90 °C	424.10 µS/cm	3.54 mg/L	3.87 NTU	-102.3 mV	33.72 ft	300.00 ml/min
2/10/2022 10:35 AM	01:15:00	7.86 pH	17.99 °C	425.66 µS/cm	3.51 mg/L	4.02 NTU	-101.7 mV	35.40 ft	300.00 ml/min
2/10/2022 10:40 AM	01:20:00	7.88 pH	17.49 °C	423.65 µS/cm	3.70 mg/L	4.80 NTU	-100.7 mV	36.41 ft	200.00 ml/min
2/10/2022 10:45 AM	01:25:00	7.89 pH	17.48 °C	430.17 µS/cm	3.42 mg/L	3.31 NTU	-110.8 mV	36.84 ft	100.00 ml/min
2/10/2022 10:50 AM	01:30:00	7.87 pH	18.02 °C	408.07 µS/cm	3.18 mg/L	4.18 NTU	-118.4 mV	37.32 ft	100.00 ml/min
2/10/2022 10:55 AM	01:35:00	7.89 pH	17.94 °C	431.71 µS/cm	3.12 mg/L	3.66 NTU	-119.7 mV	37.77 ft	100.00 ml/min
2/10/2022 11:00 AM	01:40:00	7.90 pH	18.04 °C	431.62 µS/cm	3.13 mg/L	3.24 NTU	-136.4 mV	38.23 ft	100.00 ml/min
2/10/2022 11:05 AM	01:45:00	7.86 pH	17.99 °C	425.97 µS/cm	3.12 mg/L	1.85 NTU	-118.2 mV	38.87 ft	100.00 ml/min
2/10/2022 11:10 AM	01:50:00	7.89 pH	18.04 °C	430.44 µS/cm	3.18 mg/L	2.06 NTU	-136.4 mV	38.87 ft	100.00 ml/min
2/10/2022 11:15 AM	01:55:00	7.90 pH	18.07 °C	426.57 µS/cm	3.23 mg/L	1.47 NTU	-120.5 mV	39.61 ft	100.00 ml/min
2/10/2022 11:20 AM	02:00:00	7.90 pH	18.10 °C	429.68 µS/cm	3.20 mg/L	1.19 NTU	-120.3 mV	39.98 ft	100.00 ml/min
2/10/2022 11:25 AM	02:05:00	7.88 pH	18.18 °C	429.26 µS/cm	3.17 mg/L	0.84 NTU	-135.1 mV	40.40 ft	100.00 ml/min
2/10/2022 11:30 AM	02:10:00	7.90 pH	18.22 °C	282.39 µS/cm	3.11 mg/L	0.14 NTU	-121.8 mV	41.00 ft	100.00 ml/min
2/10/2022 11:35 AM	02:15:00	7.91 pH	18.21 °C	428.37 µS/cm	3.13 mg/L	0.14 NTU	-121.7 mV	41.26 ft	100.00 ml/min
2/10/2022 11:40 AM	02:20:00	7.91 pH	18.41 °C	428.55 µS/cm	3.13 mg/L	0.03 NTU	-121.5 mV	41.63 ft	100.00 ml/min
2/10/2022 11:45 AM	02:25:00	7.90 pH	18.43 °C	426.97 µS/cm	3.19 mg/L	0.18 NTU	-122.3 mV	42.02 ft	100.00 ml/min
2/10/2022 11:50 AM	02:30:00	7.91 pH	18.48 °C	382.81 µS/cm	3.35 mg/L	0.26 NTU	-122.9 mV	42.41 ft	100.00 ml/min
2/10/2022 11:55 AM	02:35:00	7.92 pH	18.54 °C	427.27 µS/cm	3.06 mg/L	0.09 NTU	-123.1 mV	42.80 ft	100.00 ml/min
2/10/2022 12:00 PM	02:40:00	7.90 pH	18.53 °C	426.60 µS/cm	3.13 mg/L	0.47 NTU	-121.8 mV	43.20 ft	100.00 ml/min
2/10/2022 12:05 PM	02:45:00	7.89 pH	18.60 °C	425.40 µS/cm	3.20 mg/L	0.42 NTU	-124.7 mV	43.55 ft	100.00 ml/min
2/10/2022 12:10 PM	02:50:00	7.91 pH	18.65 °C	398.51 µS/cm	3.02 mg/L	0.51 NTU	-124.8 mV	43.96 ft	100.00 ml/min
2/10/2022 12:15 PM	02:55:00	7.92 pH	18.58 °C	425.10 µS/cm	2.97 mg/L	0.32 NTU	-125.3 mV	44.31 ft	100.00 ml/min
2/10/2022 12:20 PM	03:00:00	7.92 pH	18.74 °C	424.39 µS/cm	3.03 mg/L	0.34 NTU	-122.7 mV	44.66 ft	100.00 ml/min
2/10/2022 12:25 PM	03:05:00	7.90 pH	18.76 °C	424.58 µS/cm	2.89 mg/L	0.37 NTU	-126.2 mV	45.10 ft	100.00 ml/min
2/10/2022 12:30 PM	03:10:00	7.92 pH	18.75 °C	427.50 µS/cm	3.12 mg/L	0.40 NTU	-126.7 mV	45.45 ft	100.00 ml/min
2/10/2022 12:35 PM	03:15:00	7.93 pH	18.83 °C	424.38 µS/cm	3.07 mg/L	0.38 NTU	-127.3 mV	45.82 ft	100.00 ml/min
2/10/2022 12:40 PM	03:20:00	7.91 pH	18.92 °C	423.90 µS/cm	3.05 mg/L	0.39 NTU	-141.3 mV	46.09 ft	100.00 ml/min
2/10/2022 12:45 PM	03:25:00	7.91 pH	18.97 °C	422.70 µS/cm	2.93 mg/L	0.41 NTU	-141.8 mV	46.38 ft	100.00 ml/min

2/10/2022 12:50 PM	03:30:00	7.92 pH	18.93 °C	421.23 µS/cm	2.95 mg/L	0.36 NTU	-128.3 mV	46.71 ft	100.00 ml/min
2/10/2022 12:55 PM	03:35:00	7.93 pH	18.97 °C	422.85 µS/cm	3.00 mg/L	0.46 NTU	-128.7 mV	47.02 ft	100.00 ml/min
2/10/2022 1:00 PM	03:40:00	7.94 pH	18.97 °C	422.07 µS/cm	2.88 mg/L	0.33 NTU	-128.4 mV	47.28 ft	100.00 ml/min
2/10/2022 1:05 PM	03:45:00	7.92 pH	19.12 °C	422.73 µS/cm	3.02 mg/L	0.39 NTU	-143.3 mV	47.51 ft	100.00 ml/min
2/10/2022 1:10 PM	03:50:00	7.94 pH	19.08 °C	422.15 µS/cm	3.12 mg/L	0.32 NTU	-130.9 mV	47.72 ft	100.00 ml/min
2/10/2022 1:15 PM	03:55:00	7.93 pH	19.11 °C	427.17 µS/cm	2.89 mg/L	0.43 NTU	-130.5 mV	47.93 ft	100.00 ml/min
2/10/2022 1:20 PM	04:00:00	7.94 pH	19.10 °C	421.36 µS/cm	2.81 mg/L	0.47 NTU	-130.7 mV	48.17 ft	100.00 ml/min
2/10/2022 1:25 PM	04:05:00	7.93 pH	19.13 °C	420.66 µS/cm	2.98 mg/L	0.31 NTU	-131.2 mV	48.47 ft	100.00 ml/min
2/10/2022 1:30 PM	04:10:00	7.93 pH	19.10 °C	420.79 µS/cm	2.88 mg/L	0.36 NTU	-132.2 mV	48.62 ft	100.00 ml/min
2/10/2022 1:35 PM	04:15:00	7.94 pH	19.07 °C	406.37 µS/cm	2.87 mg/L	0.84 NTU	-131.0 mV	48.85 ft	100.00 ml/min
2/10/2022 1:40 PM	04:20:00	7.94 pH	19.10 °C	419.93 µS/cm	2.82 mg/L	0.78 NTU	-128.9 mV	49.07 ft	100.00 ml/min
2/10/2022 1:45 PM	04:25:00	7.94 pH	19.14 °C	428.73 µS/cm	2.79 mg/L	0.96 NTU	-132.0 mV	49.26 ft	100.00 ml/min
2/10/2022 1:50 PM	04:30:00	7.94 pH	19.10 °C	418.88 µS/cm	2.75 mg/L	0.87 NTU	-132.3 mV	49.48 ft	100.00 ml/min
2/10/2022 1:55 PM	04:35:00	7.95 pH	19.08 °C	419.70 µS/cm	2.78 mg/L	0.94 NTU	-131.6 mV	49.70 ft	100.00 ml/min
2/10/2022 2:00 PM	04:40:00	7.93 pH	19.06 °C	418.32 µS/cm	2.80 mg/L	0.72 NTU	-130.6 mV	49.91 ft	100.00 ml/min
2/10/2022 2:05 PM	04:45:00	7.94 pH	19.10 °C	418.17 µS/cm	2.76 mg/L	0.93 NTU	-132.9 mV	50.09 ft	100.00 ml/min
2/10/2022 2:10 PM	04:50:00	7.95 pH	19.14 °C	418.41 µS/cm	2.75 mg/L	0.81 NTU	-133.9 mV	50.28 ft	100.00 ml/min
2/10/2022 2:15 PM	04:55:00	7.96 pH	19.15 °C	417.98 µS/cm	3.02 mg/L	0.84 NTU	-133.3 mV	50.48 ft	100.00 ml/min
2/10/2022 2:20 PM	05:00:00	7.94 pH	19.08 °C	418.18 µS/cm	2.77 mg/L	0.87 NTU	-145.2 mV	50.69 ft	100.00 ml/min
2/10/2022 2:25 PM	05:05:00	7.95 pH	19.06 °C	417.05 µS/cm	2.75 mg/L	1.02 NTU	-134.1 mV	50.86 ft	100.00 ml/min
2/10/2022 2:30 PM	05:10:00	7.96 pH	19.13 °C	417.18 µS/cm	2.71 mg/L	0.93 NTU	-134.2 mV	51.06 ft	100.00 ml/min
2/10/2022 2:35 PM	05:15:00	7.96 pH	19.14 °C	416.73 µS/cm	2.69 mg/L	0.78 NTU	-134.1 mV	51.23 ft	100.00 ml/min
2/10/2022 2:40 PM	05:20:00	7.94 pH	19.13 °C	416.17 µS/cm	2.76 mg/L	0.81 NTU	-131.8 mV	51.46 ft	100.00 ml/min
2/10/2022 2:45 PM	05:25:00	7.95 pH	19.10 °C	416.66 µS/cm	2.71 mg/L	1.17 NTU	-146.1 mV	51.61 ft	100.00 ml/min
2/10/2022 2:50 PM	05:30:00	7.96 pH	19.10 °C	416.66 µS/cm	2.65 mg/L	0.93 NTU	-133.3 mV	51.78 ft	100.00 ml/min
2/10/2022 2:55 PM	05:35:00	7.96 pH	19.10 °C	416.49 µS/cm	2.66 mg/L	0.94 NTU	-132.9 mV	51.96 ft	100.00 ml/min
2/10/2022 3:00 PM	05:40:00	7.95 pH	19.16 °C	416.50 µS/cm	2.70 mg/L	0.70 NTU	-132.6 mV	52.14 ft	100.00 ml/min
2/10/2022 3:05 PM	05:45:00	7.96 pH	19.15 °C	416.70 µS/cm	2.79 mg/L	0.84 NTU	-134.6 mV	52.31 ft	100.00 ml/min
2/10/2022 3:10 PM	05:50:00	7.97 pH	19.14 °C	416.18 µS/cm	2.70 mg/L	0.97 NTU	-134.3 mV	52.49 ft	100.00 ml/min

2/10/2022 3:15 PM	05:55:00	7.96 pH	19.10 °C	416.53 µS/cm	2.65 mg/L	0.77 NTU	-132.9 mV	52.65 ft	100.00 ml/min
2/10/2022 3:20 PM	06:00:00	7.94 pH	19.19 °C	416.15 µS/cm	2.61 mg/L	0.74 NTU	-133.2 mV	52.81 ft	100.00 ml/min
2/10/2022 3:25 PM	06:05:00	7.96 pH	19.23 °C	415.94 µS/cm	2.55 mg/L	0.79 NTU	-136.0 mV	52.97 ft	100.00 ml/min
2/10/2022 3:30 PM	06:10:00	7.97 pH	19.05 °C	416.45 µS/cm	2.55 mg/L	1.12 NTU	-134.6 mV	53.15 ft	100.00 ml/min
2/10/2022 3:35 PM	06:15:00	7.96 pH	19.06 °C	416.89 µS/cm	2.60 mg/L	0.96 NTU	-131.0 mV	53.26 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW-27D	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/10/2022 12:58:42 PM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: MW-28D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 48.14 ft Total Depth: 58.14 ft Initial Depth to Water: 5.00 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 53.14 ft Estimated Total Volume Pumped: 18 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: 728634
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 60 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/10/2022 12:58 PM	00:00	7.69 pH	20.89 °C	500.78 µS/cm	1.24 mg/L	3.91 NTU	-121.3 mV	5.05 ft	200.00 ml/min
2/10/2022 1:03 PM	05:00	7.57 pH	18.03 °C	502.04 µS/cm	0.22 mg/L	11.10 NTU	-108.2 mV	5.05 ft	200.00 ml/min
2/10/2022 1:08 PM	10:00	7.58 pH	17.70 °C	500.66 µS/cm	0.09 mg/L	46.00 NTU	-139.6 mV	5.05 ft	200.00 ml/min
2/10/2022 1:13 PM	15:00	7.58 pH	17.63 °C	500.56 µS/cm	0.06 mg/L	33.10 NTU	-144.8 mV	5.05 ft	200.00 ml/min
2/10/2022 1:18 PM	20:00	7.58 pH	17.63 °C	499.14 µS/cm	0.06 mg/L	33.60 NTU	-139.2 mV	5.05 ft	200.00 ml/min
2/10/2022 1:23 PM	25:00	7.58 pH	17.66 °C	498.64 µS/cm	0.07 mg/L	24.20 NTU	-198.3 mV	5.05 ft	200.00 ml/min
2/10/2022 1:28 PM	30:00	7.58 pH	17.73 °C	497.85 µS/cm	0.08 mg/L	25.90 NTU	-181.2 mV	5.05 ft	200.00 ml/min
2/10/2022 1:33 PM	35:00	7.57 pH	17.71 °C	498.78 µS/cm	0.09 mg/L	20.90 NTU	-181.0 mV	5.05 ft	200.00 ml/min
2/10/2022 1:38 PM	40:00	7.57 pH	17.71 °C	501.24 µS/cm	0.11 mg/L	18.00 NTU	-202.9 mV	5.05 ft	200.00 ml/min
2/10/2022 1:43 PM	45:00	7.57 pH	17.80 °C	502.47 µS/cm	0.12 mg/L	14.20 NTU	-163.4 mV	5.05 ft	200.00 ml/min
2/10/2022 1:48 PM	50:00	7.57 pH	17.80 °C	505.36 µS/cm	0.13 mg/L	11.30 NTU	-180.1 mV	5.05 ft	200.00 ml/min
2/10/2022 1:53 PM	55:00	7.58 pH	17.85 °C	506.25 µS/cm	0.13 mg/L	11.42 NTU	-139.7 mV	5.05 ft	200.00 ml/min
2/10/2022 1:58 PM	01:00:00	7.58 pH	17.84 °C	509.02 µS/cm	0.14 mg/L	9.69 NTU	-131.5 mV	5.05 ft	200.00 ml/min

2/10/2022 2:03 PM	01:05:00	7.58 pH	17.87 °C	510.03 µS/cm	0.14 mg/L	8.23 NTU	-125.8 mV	5.05 ft	200.00 ml/min
2/10/2022 2:08 PM	01:10:00	7.58 pH	17.84 °C	511.86 µS/cm	0.14 mg/L	7.34 NTU	-149.1 mV	5.05 ft	200.00 ml/min
2/10/2022 2:13 PM	01:15:00	7.58 pH	17.96 °C	512.19 µS/cm	0.15 mg/L	6.48 NTU	-118.0 mV	5.05 ft	200.00 ml/min
2/10/2022 2:18 PM	01:20:00	7.59 pH	17.91 °C	513.65 µS/cm	0.15 mg/L	5.63 NTU	-142.5 mV	5.05 ft	200.00 ml/min
2/10/2022 2:23 PM	01:25:00	7.59 pH	17.94 °C	514.48 µS/cm	0.15 mg/L	4.96 NTU	-140.3 mV	5.05 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-28D	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/10/2022 8:59:51 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: MW-29 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 18.21 ft Total Depth: 28.21 ft Initial Depth to Water: 4.19 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 23.21 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.10 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 35 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/10/2022 8:59 AM	00:00	7.05 pH	13.31 °C	815.94 µS/cm	1.77 mg/L	36.00 NTU	4.2 mV	4.27 ft	200.00 ml/min
2/10/2022 9:04 AM	05:00	7.21 pH	14.73 °C	829.86 µS/cm	0.59 mg/L	21.90 NTU	18.1 mV	4.27 ft	200.00 ml/min
2/10/2022 9:09 AM	10:00	7.23 pH	14.96 °C	825.03 µS/cm	0.55 mg/L	11.30 NTU	24.5 mV	4.29 ft	200.00 ml/min
2/10/2022 9:14 AM	15:00	7.25 pH	15.03 °C	827.09 µS/cm	0.46 mg/L	11.00 NTU	28.2 mV	4.29 ft	200.00 ml/min
2/10/2022 9:19 AM	20:00	7.26 pH	15.26 °C	828.25 µS/cm	0.40 mg/L	10.27 NTU	29.8 mV	4.30 ft	200.00 ml/min
2/10/2022 9:24 AM	25:00	7.27 pH	15.26 °C	824.27 µS/cm	0.33 mg/L	9.05 NTU	27.9 mV	4.28 ft	200.00 ml/min
2/10/2022 9:29 AM	30:00	7.26 pH	15.33 °C	827.43 µS/cm	0.29 mg/L	6.61 NTU	29.7 mV	4.30 ft	200.00 ml/min
2/10/2022 9:34 AM	35:00	7.27 pH	15.57 °C	825.28 µS/cm	0.25 mg/L	5.95 NTU	27.6 mV	4.29 ft	200.00 ml/min
2/10/2022 9:39 AM	40:00	7.27 pH	15.62 °C	827.37 µS/cm	0.24 mg/L	4.98 NTU	29.2 mV	4.29 ft	200.00 ml/min

Samples

Sample ID:	Description:
MW-29	Grab sample.

CALIBRATION REPORTS

EQUIPMENT CALIBRATION LOG

Field Technician: AS

Date: 2/1/2022

Time (start): 754

Time (finish): 815

smarTroll SN: 843593

Turbidity Meter Type: LaMote 2020we

SN: 1475

Weather Conditions: Clear, 35°F

Facility and Unit: Plant Hammond

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193 08/2022	3.70	4490	4596.3	4490.0	+/- 5%	Yes No	
pH (4)		3.85	4.00	3.97	4.00	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070193 08/2022	3.70	4.00	4.21	4.00	+/- 0.1 SU	Yes No	Lost battery, 2nd Calibration
pH (7)	21010066 08/2022	4.65	7.00	7.04	7.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21010066 08/2022	4.65	7.00	7.22	7.00	+/- 0.1 SU	Yes No	
pH (10)	21080189 06/2022	5.46	10.00	10.21	10.00	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080189 06/2022	5.46	10.00	10.07	10.00	+/- 0.1 SU	Yes No	
ORP (mV)	21140141 08/2022	5.46	228	242.2	228.0	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	97.67	100.0	+/- 6% saturation	Yes No	
Turbidity 0 NTU			0	0.66	0.43	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	1.42	1.0	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	8.13	10.00	+/- 0.5 NTU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAIN

Date: 2/1/22

Time (start): 0809

Time (finish): 0827

smarTroll SN: 850724

Turbidity Meter Type: LaMotte 2020we

SN: 1601

Weather Conditions: Sunny 31'

Facility and Unit: Plant Hammond

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193 8/22	2.11	4490	4563.4	4490	+/- 5%	Yes No	
pH (4)			4.00	3.99	4.0	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070193 8/22	14.6 2.16	4.00	4.13	4.0	+/- 0.1 SU	Yes No	
pH (7)	21010064 8/22	2.39	7.00	7.07	7.0	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21010066 8/22	14.96	7.00	7.16	7.0	+/- 0.1 SU	Yes No	
pH (10)	21080189 6/22	2.35	10.00	10.22	10.0	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080189 6/22	14.13	10.00	10.05	10.0	+/- 0.1 SU	Yes No	
ORP (mV)	21140141 8/22	2.21	228	247.2	228	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	101.59	100	+/- 6% saturation	Yes No	
Turbidity 0 NTU			0	0.02	0.02	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	1.04	1.00	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	10.89	10.0	+/- 0.5 NTU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Kessler

Date: 2/11/2022

Time (start): 0730

Time (finish): 0820

smarTroll SN: 778634

Turbidity Meter Type: LaMotte 2020we

SN: 5990-3915

Weather Conditions: Clear, 30°

Facility and Unit: Hammond

Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193	10.35	4490	4255.6	4490	+/- 5 %	Yes No	
pH (4)	08/22/2022	10.35	4.00	4.02	4.0	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070193 8/22	—	4.00	4.02	—	+/- 0.1 SU	Yes No	
pH (7)	21010066 08/2022	8.32	7.00	7.05	7.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21010066 08/22	—	7.00	6.99	—	+/- 0.1 SU	Yes No	
pH (10)	21080189 08/2022	7.56	10.00	10.09	10.0	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080189 08/2022	7.45	10.00	255.7	224	+/- 0.1 SU	Yes No	
ORP (mV)	21140141 08/2022	—	228	10.06	—	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	88.7	100	+/- 6 % saturation	Yes No	
Turbidity 0 NTU			0	0.52	0	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	0.99	1.00	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	7.97	9.93	+/- 0.5 NTU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAW Date: 2/8/22 Time (start): 0747 Time (finish): 0813
 smarTroll SN: 850724 Turbidity Meter Type: LaMote 2020we SN: 1610
 Weather Conditions: Sun 27F Facility and Unit: Plant Hammond Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193 8/22	7.89	4490	4659	4490	+/- 5 %	<input checked="" type="checkbox"/> No	
pH (4)			4.00	4.03	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (4) check	9/21070193 \1 8/22	—	4.00	4.04	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
pH (7)	21010066 8/22	8.04	7.00	7.06	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (7) check	1/21010066 \1 8/22	—	7.00	6.97	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
pH (10)	21080189 6/22	7.78	10.00	10.13	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (10) check	1/21080189 \1 6/22	—	10.00	10.07	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
ORP (mV)	21140141 8/22	7.41	228	227.6	228	+/- 20mV	<input checked="" type="checkbox"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	99.47	100	+/- 6% saturation	<input checked="" type="checkbox"/> No	
Turbidity 0 NTU			0	0.0	0.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 1 NTU			1.00	1.00	1.00	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 10 NTU			10.00	10.26	10.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: A. Swast Date: 2/9/2022 Time (start): 8:21 Time (finish): 8:37
 smarTroll SN: 843593 Turbidity Meter Type: LaMotte 2020we SN: 1475
 Weather Conditions: Sunny, 30°F Facility and Unit: Plant Hammond Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193	5.15	4490	4489.7	4490.0	+/- 5 %	Yes No	
pH (4)	08/2022	5.26	4.00	3.87	4.00	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070193 08/2022	16.35	4.00	4.10	—	+/- 0.1 SU	Yes No	Mid-day pH check passed, not calibrated
pH (7)	21010066 08/2022	6.07	7.00	6.95	7.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21010066 08/2022	14.79	7.00	7.09	7.00	+/- 0.1 SU	Yes No	pH check passed, not calibrated
pH (10)	21080189 06/2022	6.78	10.00	10.09	10.00	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080189 06/2022	13.00	10.00	10.09	—	+/- 0.1 SU	Yes No	pH check passed, not calibrated
ORP (mV)	21140141 08/2022	6.78	228	228.3	228.0	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	101.12	100.0	+/- 6 % saturation	Yes No	
Turbidity 0 NTU			0	1.12	0.0	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	0.85	1.0	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	11.52	10.0	+/- 0.5 NTU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: C. CRAIN Date: 2/9/22 Time (start): 0820 Time (finish): 0850
 smarTroll SN: 850724 Turbidity Meter Type: LaMote 2020we SN: 1601
 Weather Conditions: Sunny 28F Facility and Unit: Plant Hammond Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193 8/22	8.47	4490	4388	4490	+/- 5 %	Yes No	
pH (4)			4.00	4.0	4.0	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070193 8/22	8.02	4.00	4.02	4.0	+/- 0.1 SU	Yes No	
pH (7)	21010066 8/22	8.02	7.00	7.05	7.0	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21010066 8/22	—	7.00	6.96	7.0	+/- 0.1 SU	Yes No	
pH (10)	21080189 6/22	7.90	10.00	10.11	10.0	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21080189 6/22	—	10.00	9.98	10	+/- 0.1 SU	Yes No	
ORP (mV)	21140141 8/22	7.99	228	226.5	228	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	97.63	100	+/- 6 % saturation	Yes No	
Turbidity 0 NTU			0	0	0	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	1.15	1.0	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	9.20	10	+/- 0.5 NTU	Yes No	

EQUIPMENT CALIBRATION LOG

Field Technician: A. Swast Date: 2/10/2022 Time (start): 750 Time (finish): 801
 smarTroll SN: 843593 Turbidity Meter Type: LaMote 2020we SN: 1475
 Weather Conditions: Sunny, 35°F Facility and Unit: Plant Hammond Project No: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193	7.17	4490	4465.3	4490.0	+/- 5 %	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (4)	08/2022	7.27	4.00	4.04	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (4) check	21070193 08/2022	7.27 7.27	4.00	4.12 4.12	4.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (7)	21010066 08/2022	8.16	7.00	7.01	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (7) check	21010066 08/2022	12.55	7.00	7.10	7.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
pH (10)	21080189 06/2022	8.88	10.00	10.09	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Mid-Day pH (10) check	21080189 06/2022	11.91	10.00	10.08	10.00	+/- 0.1 SU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
ORP (mV)	21140141 08/2022	8.90	228	223.6	228.0	+/- 20mV	<input checked="" type="radio"/> Yes <input type="radio"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	99.59	100.0	+/- 6 % saturation	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 0 NTU			0	0.93	0.0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 1 NTU			1.00	0.83	1.0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	
Turbidity 10 NTU			10.00	11.39	10.0	+/- 0.5 NTU	<input checked="" type="radio"/> Yes <input type="radio"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: C. CAIN

Date: 2/16/22

Time (start): 0745

Time (finish): 0806

smarTroll SN: 850724

Turbidity Meter Type: LaMotte 2020we

SN: 1601

Weather Conditions: Sun 29F

Facility and Unit: Plant Hammond

Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070173 8/22	8.45	4490	4589	4490	+/- 5 %	<input checked="" type="checkbox"/> No	
pH (4)			4.00	3.98	4.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (4) check	// 21070143 // 8/22	—	4.00	—	—	+/- 0.1 SU	<input checked="" type="checkbox"/> No	NA, only 1 sample taken
pH (7)	21010066 8/22	8.84	7.00	7.03	7.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (7) check	// 21010066 // 8/22	—	7.00	—	—	+/- 0.1 SU	<input checked="" type="checkbox"/> No	NA, only 1 sample taken
pH (10)	21080189 6/22	9.04	10.00	10.09	10.0	+/- 0.1 SU	<input checked="" type="checkbox"/> No	
Mid-Day pH (10) check	// 21080189 // 6/22	—	10.00	—	—	+/- 0.1 SU	<input checked="" type="checkbox"/> No	NA, only 1 sample taken
ORP (mV)	21140141 8/22	8.99	228	225.6	228	+/- 20mV	<input checked="" type="checkbox"/> No	
DO (%) (1pt, 100% water saturated air cal)			100	100.49	100	+/- 6 % saturation	<input checked="" type="checkbox"/> No	
Turbidity 0 NTU			0	0.02	0.02	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 1 NTU			1.00	0.78	1.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	
Turbidity 10 NTU			10.00	10.28	10.0	+/- 0.5 NTU	<input checked="" type="checkbox"/> No	

EQUIPMENT CALIBRATION LOG

Field Technician: Thomas Hester Date: 2/10/2022 Time (start): 0825 Time (finish): 758
 smarTroll SN: 778634 Turbidity Meter Type: LaMotte 2020we SN: 59903915
 Weather Conditions: Sun, 48° Facility and Unit: Hammord Project No.: GW6581

Calibration log

	Standard Lot # / Date of Expiration	Temp of Standard (°C)	Value of Standard	Initial Reading	Post-Cal Reading	Acceptable Range	Pass?	Comments
Specific Conductance (µS/cm)	21070193 08/2022	6.9	4490	4666.1	4490	+/- 5 %	Yes No	
pH (4)	08/2022		4.00	4.00	4.00	+/- 0.1 SU	Yes No	
Mid-Day pH (4) check	21070193 08/2022	—	4.00	4.05	—	+/- 0.1 SU	Yes No	
pH (7)	21060066 08/2022	7.98	7.00	7.04	7.00	+/- 0.1 SU	Yes No	
Mid-Day pH (7) check	21060066 08/2022	—	7.00	7.01	—	+/- 0.1 SU	Yes No	
pH (10)	21050189 08/2022	8.75	10.00	10.12	10.0	+/- 0.1 SU	Yes No	
Mid-Day pH (10) check	21050189 08/2022	—	10.00	9.98	—	+/- 0.1 SU	Yes No	
ORP (mV)	21140141 08/2022	8.83	228	226.1	228	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	95.74	100	+/- 6 % saturation	Yes No	
Turbidity 0 NTU			0	0.83	0.00	+/- 0.5 NTU	Yes No	
Turbidity 1 NTU			1.00	1.11	1.36	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	7.47	9.85	+/- 0.5 NTU	Yes No	

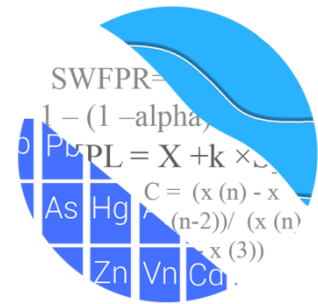
APPENDIX C

Statistical Analysis Report

GROUNDWATER STATS CONSULTING

August 31, 2022

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



Re: Plant Hammond Ash Pond 1 (AP-1)
Statistical Analysis – February 2022 Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2022 Semi-Annual Groundwater Detection and Assessment Monitoring statistical summary of groundwater data for Georgia Power Company's Plant Hammond AP-1. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10 and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling began for the Coal Combustion Residuals (CCR) program in 2016, and at least 8 background samples have been collected at each of the upgradient and downgradient groundwater monitoring wells. The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:** HGWA-1, HGWA-2, HGWA-3, HGWA-43D, and HGWA-44D
- **Downgradient wells:** HGWC-7, HGWC-8, HGWC-9, HGWC-10, HGWC-11, HGWC-12, and HGWC-13
- **Delineation wells:** MW-5, MW-6, MW-7, MW-19, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, and MW-29

Sampling at upgradient wells HGWA-43D and HGWA-44D began in September 2020 and a maximum of eight samples have been collected. Additionally, the February 2021

sampling event was a Scan event for all wells during which only Appendix IV constituents were sampled.

Data from delineation wells are included on time series and box plots for all parameters. When a minimum of 4 samples is available, data at these wells are evaluated using confidence intervals for the Appendix IV constituents. For the delineation wells, sampling began in March 2019. Wells MW-30D and MW-40D were included as delineation wells during previous reporting periods, but each was reclassified as a "piezometer" based on the findings presented in the alternate source demonstration included as an appendix of the 2020 Annual Groundwater Monitoring & Corrective Action Report, submitted to Georgia EPD in January 2021. Because of this reclassification, data for wells MW-30D and MW-40D are not presented in this report.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting. The statistical analysis was performed according to the groundwater screening that was performed in April 2018 by GSC and approved by Dr. Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance (2009).

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and delineation well/constituent pairs with 100% non-detects follows this letter.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. In the cases of lithium and thallium, historical reporting limits vary among the wells. Therefore, the reporting limits of 0.03 mg/L and 0.001 mg/L were substituted respectively across all wells, which is the most recent reporting limit provided by the laboratory.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box

plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No values were flagged as outliers (Figure C).

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Statistical Methods – Appendix III Parameters

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

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

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Note that values shown on data pages reflect raw data and any non-detects that have been substituted with one-half of the reporting limit will be shown as the original reporting limit.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, an earlier portion of data may require deselection prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs. When this step is required a summary of any adjusted records will be provided. No records were adjusted at this time.

Statistical Analysis of Appendix III Parameters – February 2022

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. No new values were flagged as shown in the outlier summary following this report (Figure C).

Interwell Prediction Limits

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

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant

increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance.

When the February 2022 compliance data from downgradient wells were compared to interwell prediction limits, several exceedances were identified. A summary table of these findings is provided along with the prediction limits (Figure D).

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient well data are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of natural variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

- Boron: HGWA-2 (upgradient), HGWC-7, and HGWC-9
- Calcium: HGWA-3 (upgradient)
- Chloride: HGWA-44D (upgradient)
- Sulfate: HGWA-2 (upgradient)

Decreasing trends:

- Boron: HGWC-13
- Chloride: HGWC-8, HGWC-9 and HGWC-12
- TDS: HGWC-12

Statistical Methods – Appendix IV Parameters

Appendix IV parameters are evaluated by statistically comparing the mean or median of each downgradient well/constituent pair against corresponding Groundwater Protection Standards (GWPS). The GWPS may be either regulatory (Maximum Contaminant Limits (MCL) or CCR rule-specified limits) or site-specific limits that are based on upgradient background groundwater quality. Site-specific background limits are determined using tolerance limits, and the comparison of downgradient means or medians to GWPS is performed using confidence intervals. The methods are described below.

Statistical Evaluation of Appendix IV Parameters – February 2022

For Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs containing 100% non-detects do not require analyses. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell upper tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2022 for Appendix IV constituents (Figure F). As mentioned above, a reporting limit of 0.03 mg/L was substituted across all wells for lithium. Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through February 2022 were constructed for each of the Appendix IV constituents in each downgradient well and delineation wells with 4 or more samples.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, as appropriate. Confidence intervals were compared to the GWPS prepared as described above (Figure H). Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. Exceedances were noted for the following well/constituent pairs:

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

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure I). Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient trends, it is an indication of natural variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. No statistically significant trends were identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Hammond AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Abdul Diane
Groundwater Analyst



Andrew Collins
Project Manager



Kristina Rayner
Senior Statistician

100% Non-Detects: Appendix IV Downgradient & Delineation

Analysis Run 4/25/2022 2:46 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Antimony (mg/L)

HGWC-12, MW-19, MW-20, MW-25D, MW-5

Arsenic (mg/L)

HGWC-10, MW-24D, MW-7

Beryllium (mg/L)

HGWC-10, HGWC-12, HGWC-9, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-29, MW-5, MW-6

Cadmium (mg/L)

HGWC-13, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, MW-29, MW-5, MW-6, MW-7

Cobalt (mg/L)

MW-25D, MW-5, MW-7

Lead (mg/L)

MW-25D

Lithium (mg/L)

HGWC-10, HGWC-11, MW-5, MW-6, MW-7

Mercury (mg/L)

HGWC-12, HGWC-7, HGWC-8, MW-19, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, MW-29, MW-5, MW-6, MW-7

Molybdenum (mg/L)

MW-20, MW-5

Selenium (mg/L)

HGWC-7, MW-20, MW-24D, MW-25D, MW-26D, MW-28D, MW-29, MW-6

Thallium (mg/L)

HGWC-10, HGWC-7, HGWC-9, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-5, MW-7

Appendix III Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-11	0.44	n/a	2/9/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.44	n/a	2/9/2022	2	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	2/10/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-7	0.44	n/a	2/10/2022	1.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.44	n/a	2/10/2022	1.7	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	2/9/2022	2.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	2/9/2022	144	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	2/9/2022	172	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	2/10/2022	206	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	2/10/2022	153	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	2/9/2022	183	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-12	44.8	n/a	2/9/2022	46.8	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	2/10/2022	48.2	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	2/9/2022	84.4	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	88.2	n/a	2/9/2022	276	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	88.2	n/a	2/9/2022	252	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	88.2	n/a	2/10/2022	371	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	88.2	n/a	2/10/2022	97.5	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	88.2	n/a	2/10/2022	224	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	88.2	n/a	2/9/2022	224	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-12	632	n/a	2/9/2022	678	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-13	632	n/a	2/10/2022	814	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-9	632	n/a	2/9/2022	756	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-10	0.44	n/a	2/9/2022	0.1	No	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-11	0.44	n/a	2/9/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.44	n/a	2/9/2022	2	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	2/10/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-7	0.44	n/a	2/10/2022	1.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.44	n/a	2/10/2022	1.7	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	2/9/2022	2.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-10	138	n/a	2/9/2022	76.8	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	2/9/2022	144	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	2/9/2022	172	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	2/10/2022	206	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-7	138	n/a	2/10/2022	108	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	2/10/2022	153	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	2/9/2022	183	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-10	44.8	n/a	2/9/2022	1.2	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-11	44.8	n/a	2/9/2022	20.4	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-12	44.8	n/a	2/9/2022	46.8	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-13	44.8	n/a	2/10/2022	17.4	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-7	44.8	n/a	2/10/2022	39.8	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	2/10/2022	48.2	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	2/9/2022	84.4	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-10	0.96	n/a	2/9/2022	0.12	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-11	0.96	n/a	2/9/2022	0.2	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-12	0.96	n/a	2/9/2022	0.2	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-13	0.96	n/a	2/10/2022	0.53	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-7	0.96	n/a	2/10/2022	0.083J	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-8	0.96	n/a	2/10/2022	0.42	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-9	0.96	n/a	2/9/2022	0.1	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-10	8.25	4.9	2/9/2022	7	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-11	8.25	4.9	2/9/2022	6.55	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-12	8.25	4.9	2/9/2022	7.23	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-13	8.25	4.9	2/10/2022	7.54	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-7	8.25	4.9	2/10/2022	7.22	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-8	8.25	4.9	2/10/2022	6.99	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-9	8.25	4.9	2/9/2022	7.3	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-10	88.2	n/a	2/9/2022	49.2	No	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	88.2	n/a	2/9/2022	276	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	88.2	n/a	2/9/2022	252	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	88.2	n/a	2/10/2022	371	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	88.2	n/a	2/10/2022	97.5	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	88.2	n/a	2/10/2022	224	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	88.2	n/a	2/9/2022	224	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-10	632	n/a	2/9/2022	250	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-11	632	n/a	2/9/2022	544	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-12	632	n/a	2/9/2022	678	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-13	632	n/a	2/10/2022	814	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-7	632	n/a	2/10/2022	414	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-8	632	n/a	2/10/2022	578	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-9	632	n/a	2/9/2022	756	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2

Appendix III Trend Test Summary - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:58 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	HGWA-2 (bg)	0.002699	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-13	-0.2813	-90	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-7	0.05328	110	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.1051	81	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.781	86	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	20.44	21	18	Yes	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-12	-22.37	-111	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-8	-9.715	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-9	-13.5	-103	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.393	83	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-12	-84.21	-91	-68	Yes	18	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:58 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	-0.00009951	-10	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-2 (bg)	0.002699	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-3 (bg)	0.00007969	6	74	No	19	15.79	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-43D (bg)	-0.01252	-11	-18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-44D (bg)	0.1524	14	18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-11	-0.1891	-49	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-12	-0.1561	-61	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-13	-0.2813	-90	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-7	0.05328	110	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-8	0.04833	19	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.1051	81	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-1 (bg)	2.687	54	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-2 (bg)	0.4885	35	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.781	86	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-43D (bg)	-3.578	-7	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-44D (bg)	-5.272	-9	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-11	0.2076	3	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-12	-6.225	-52	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-13	14.04	32	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-8	-1.147	-19	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-9	0.7636	34	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.6486	50	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	-0.1714	-45	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.1393	-73	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-43D (bg)	-0.2444	-4	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	20.44	21	18	Yes	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-12	-22.37	-111	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-8	-9.715	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-9	-13.5	-103	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-1 (bg)	1.77	34	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.393	83	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-3 (bg)	1.106	61	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-8.864	-15	-18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-44D (bg)	7.3	9	18	No	7	14.29	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-11	-7.699	-17	-68	No	18	5.556	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-12	-14.75	-59	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-13	33.22	25	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-7	0	-12	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-8	-5.775	-22	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-9	-4.06	-54	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	1.455	7	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-2 (bg)	-1.375	-12	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-3 (bg)	1.051	12	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-43D (bg)	-42.44	-9	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-44D (bg)	112.8	15	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-12	-84.21	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-13	22.89	23	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-9	-40.5	-45	-68	No	18	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/25/2022, 2:44 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	73	n/a	n/a	78.08	n/a	n/a	0.02365	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	79	n/a	n/a	63.29	n/a	n/a	0.01738	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	n/a	79	n/a	n/a	0	n/a	n/a	0.01738	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	73	n/a	n/a	78.08	n/a	n/a	0.02365	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	73	n/a	n/a	86.3	n/a	n/a	0.02365	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0079	n/a	n/a	n/a	n/a	73	n/a	n/a	80.82	n/a	n/a	0.02365	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	n/a	73	n/a	n/a	72.6	n/a	n/a	0.02365	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.36	n/a	n/a	n/a	n/a	79	n/a	n/a	0	n/a	n/a	0.01738	NP Inter(normality)
Fluoride (mg/L)	n/a	0.96	n/a	n/a	n/a	n/a	84	n/a	n/a	32.14	n/a	n/a	0.01345	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	70	n/a	n/a	64.29	n/a	n/a	0.02758	NP Inter(NDs)
Lithium (mg/L)	n/a	0.048	n/a	n/a	n/a	n/a	79	n/a	n/a	20.25	n/a	n/a	0.01738	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	51	n/a	n/a	96.08	n/a	n/a	0.0731	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	81	n/a	n/a	80.25	n/a	n/a	0.01569	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	79	n/a	n/a	98.73	n/a	n/a	0.01738	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	79	n/a	n/a	98.73	n/a	n/a	0.01738	NP Inter(NDs)

PLANT HAMMOND AP-1 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.46	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0079	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		4.36	5
Fluoride, Total (mg/L)	4		0.96	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.048	0.048
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

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

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:17 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	HGWC-13	0.4243	0.3567	0.01	Yes	21	0.3905	0.06131	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-8	0.4903	0.4416	0.1	Yes	22	0.466	0.04541	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-10	0.003	0.00065	0.006	No	19	0.002876	0.0005391	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-11	0.003	0.00038	0.006	No	19	0.002862	0.0006011	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-13	0.003	0.00036	0.006	No	19	0.002038	0.001296	63.16	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-7	0.003	0.0017	0.006	No	19	0.002792	0.0006642	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-8	0.003	0.00064	0.006	No	19	0.002876	0.0005414	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-9	0.003	0.00043	0.006	No	19	0.002588	0.000978	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-24D	0.003	0.003	0.006	No	10	0.00287	0.0004111	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-26D	0.003	0.002	0.006	No	10	0.00273	0.0005926	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-27D	0.003	0.0003	0.006	No	10	0.001382	0.001394	40	None	No	0.011	NP (normality)
Antimony (mg/L)	MW-28D	0.003	0.003	0.006	No	10	0.00289	0.0003479	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-29	0.003	0.003	0.006	No	10	0.002794	0.0006514	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-6	0.003	0.003	0.006	No	10	0.00284	0.000506	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-7	0.003	0.00086	0.006	No	10	0.002277	0.001014	60	None	No	0.011	NP (NDs)
Arsenic (mg/L)	HGWC-11	0.005	0.0017	0.01	No	21	0.003417	0.001744	42.86	None	No	0.01	NP (normality)
Arsenic (mg/L)	HGWC-12	0.004566	0.003196	0.01	No	21	0.003881	0.001242	9.524	None	No	0.01	Param.
Arsenic (mg/L)	HGWC-13	0.4243	0.3567	0.01	Yes	21	0.3905	0.06131	0	None	No	0.01	Param.
Arsenic (mg/L)	HGWC-7	0.005	0.0019	0.01	No	21	0.004852	0.0006765	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-8	0.005	0.002	0.01	No	21	0.004857	0.0006547	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-9	0.005	0.0021	0.01	No	21	0.004239	0.001634	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-19	0.005	0.005	0.01	No	10	0.004545	0.001439	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-20	0.005	0.00094	0.01	No	10	0.003862	0.001891	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.001	0.01	No	10	0.003475	0.00199	60	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-26D	0.005	0.0008	0.01	No	10	0.00381	0.001936	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-27D	0.005	0.00069	0.01	No	10	0.003689	0.002119	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-28D	0.005	0.005	0.01	No	10	0.00461	0.001233	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-29	0.005	0.005	0.01	No	10	0.004537	0.001464	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-5	0.005	0.005	0.01	No	10	0.00463	0.00117	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-6	0.005	0.005	0.01	No	10	0.00484	0.000506	90	None	No	0.011	NP (NDs)
Barium (mg/L)	HGWC-10	0.08616	0.06339	2	No	21	0.07478	0.02063	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-11	0.05204	0.03249	2	No	21	0.04349	0.01968	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	HGWC-12	0.1104	0.08821	2	No	21	0.1007	0.02119	0	None	ln(x)	0.01	Param.
Barium (mg/L)	HGWC-13	0.08963	0.06681	2	No	21	0.07822	0.02069	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-7	0.0746	0.06816	2	No	21	0.07138	0.005842	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-8	0.07497	0.06265	2	No	21	0.06881	0.01117	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-9	0.1206	0.1049	2	No	21	0.1127	0.01424	0	None	No	0.01	Param.
Barium (mg/L)	MW-19	0.0645	0.0469	2	No	10	0.0557	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	MW-20	0.09572	0.08428	2	No	10	0.09	0.006412	0	None	No	0.01	Param.
Barium (mg/L)	MW-24D	0.081	0.048	2	No	10	0.0619	0.02291	0	None	No	0.011	NP (normality)
Barium (mg/L)	MW-25D	0.5334	0.4006	2	No	10	0.467	0.07439	0	None	No	0.01	Param.
Barium (mg/L)	MW-26D	0.1303	0.0783	2	No	10	0.1043	0.02914	0	None	No	0.01	Param.
Barium (mg/L)	MW-27D	1.2	0.95	2	No	10	1.079	0.1676	0	None	No	0.011	NP (normality)
Barium (mg/L)	MW-28D	0.7165	0.2695	2	No	10	0.493	0.2505	0	None	No	0.01	Param.
Barium (mg/L)	MW-29	0.08459	0.07481	2	No	10	0.0797	0.005478	0	None	No	0.01	Param.
Barium (mg/L)	MW-5	0.05079	0.04361	2	No	10	0.0472	0.004022	0	None	No	0.01	Param.
Barium (mg/L)	MW-6	0.09214	0.07966	2	No	10	0.0859	0.006999	0	None	No	0.01	Param.
Barium (mg/L)	MW-7	0.06238	0.04882	2	No	10	0.0556	0.007604	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-11	0.0005	0.0001	0.004	No	19	0.0003577	0.0001924	63.16	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-13	0.0005	0.000093	0.004	No	19	0.0003281	0.0002074	57.89	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-7	0.0005	0.00019	0.004	No	19	0.0004394	0.0001454	84.21	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-8	0.0005	0.000078	0.004	No	19	0.0003674	0.0002006	68.42	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-19	0.0005	0.0005	0.004	No	10	0.0004558	0.0001398	90	None	No	0.011	NP (NDs)
Beryllium (mg/L)	MW-28D	0.0005	0.000054	0.004	No	10	0.0003742	0.000204	70	None	No	0.011	NP (NDs)
Beryllium (mg/L)	MW-7	0.0005	0.0005	0.004	No	10	0.0004551	0.000142	90	None	No	0.011	NP (NDs)
Cadmium (mg/L)	HGWC-10	0.0005	0.0001	0.005	No	19	0.0003587	0.0001913	63.16	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-11	0.0005	0.0001	0.005	No	19	0.0004366	0.0001504	84.21	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	HGWC-12	0.0005	0.0003	0.005	No	19	0.0004337	0.0001368	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-7	0.0005	0.0002	0.005	No	19	0.0004316	0.0001376	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-8	0.00032	0.00017	0.005	No	19	0.0003068	0.0003506	5.263	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-9	0.0005	0.0002	0.005	No	19	0.0004405	0.0001429	84.21	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-19	0.0004257	0.0001233	0.005	No	10	0.000349	0.000295	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	HGWC-10	0.02	0.0011	0.1	No	19	0.005584	0.003603	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-11	0.005	0.00061	0.1	No	19	0.004522	0.001434	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-12	0.005	0.0025	0.1	No	19	0.004411	0.001444	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-13	0.005	0.00059	0.1	No	19	0.004292	0.00168	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-7	0.071	0.0016	0.1	No	19	0.007486	0.01548	68.42	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-8	0.005	0.0015	0.1	No	19	0.004133	0.001735	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-9	0.005	0.0011	0.1	No	19	0.004331	0.00159	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-19	0.005	0.00059	0.1	No	10	0.003032	0.002131	50	None	No	0.011	NP (normality)
Chromium (mg/L)	MW-20	0.005	0.00068	0.1	No	10	0.00369	0.00211	70	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-24D	0.005	0.0017	0.1	No	10	0.004212	0.001688	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-25D	0.005	0.005	0.1	No	10	0.004561	0.001388	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-26D	0.005	0.001	0.1	No	10	0.003206	0.001969	50	None	No	0.011	NP (normality)
Chromium (mg/L)	MW-27D	0.005	0.00082	0.1	No	10	0.004152	0.001788	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-28D	0.005	0.00081	0.1	No	10	0.002764	0.002001	40	None	No	0.011	NP (normality)
Chromium (mg/L)	MW-29	0.005	0.005	0.1	No	10	0.0046	0.001265	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-5	0.004196	0.002284	0.1	No	10	0.00324	0.001071	0	None	No	0.01	Param.
Chromium (mg/L)	MW-6	0.005	0.00059	0.1	No	10	0.004103	0.001891	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-7	0.005	0.0015	0.1	No	10	0.00238	0.001412	20	None	No	0.011	NP (normality)
Cobalt (mg/L)	HGWC-10	0.005	0.0007	0.038	No	19	0.003663	0.002026	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-11	0.005	0.00098	0.038	No	19	0.002903	0.001776	36.84	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-12	0.0018	0.0012	0.038	No	19	0.001805	0.001159	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-13	0.004075	0.002642	0.038	No	19	0.003358	0.001224	5.263	None	No	0.01	Param.
Cobalt (mg/L)	HGWC-7	0.0026	0.00065	0.038	No	19	0.001551	0.001611	15.79	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-8	0.0023	0.0019	0.038	No	19	0.002188	0.000719	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-9	0.0011	0.00053	0.038	No	19	0.001158	0.001396	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-19	0.04228	0.03012	0.038	No	10	0.0362	0.006812	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-20	0.005	0.005	0.038	No	10	0.00461	0.001233	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-24D	0.005	0.00056	0.038	No	10	0.003691	0.002117	70	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-26D	0.005	0.00044	0.038	No	10	0.002276	0.002346	40	None	No	0.011	NP (normality)
Cobalt (mg/L)	MW-27D	0.005	0.0004	0.038	No	10	0.003594	0.002266	70	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-28D	0.005	0.005	0.038	No	10	0.004593	0.001287	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-29	0.001281	0.0006929	0.038	No	10	0.000987	0.0003296	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-6	0.005	0.00041	0.038	No	10	0.001431	0.001888	20	None	No	0.011	NP (normality)
Combined Radium 226 + 228 (pCi/L)	HGWC-10	1.084	0.5887	5	No	21	0.8361	0.4486	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-11	1.178	0.6584	5	No	21	0.9183	0.4711	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-12	1.065	0.5671	5	No	21	0.8161	0.4513	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-13	1.012	0.5939	5	No	21	0.803	0.379	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-7	0.908	0.413	5	No	21	0.7117	0.5013	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-8	0.9892	0.7076	5	No	21	0.8484	0.2552	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-9	0.923	0.5264	5	No	21	0.7247	0.3595	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-19	1.057	0.419	5	No	10	0.7382	0.3578	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	1.041	0.3055	5	No	10	0.6733	0.4123	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	0.6843	0.1353	5	No	10	0.4167	0.3701	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	1.202	0.7598	5	No	10	0.9811	0.248	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26D	1.069	0.1051	5	No	10	0.5869	0.5399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-27D	1.731	0.7838	5	No	10	1.257	0.5305	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-28D	1.512	0.547	5	No	10	1.029	0.5406	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-29	1.003	0.3103	5	No	10	0.6564	0.3879	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5	1.02	0.4979	5	No	10	0.759	0.2927	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	0.872	0.557	5	No	10	0.8099	0.4811	0	None	No	0.011	NP (normality)

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	MW-7	1.242	0.4847	5	No	10	0.8635	0.4245	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-10	0.1935	0.07795	4	No	22	0.1766	0.1375	18.18	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-11	0.4339	0.26	4	No	22	0.347	0.1619	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-12	0.3832	0.1863	4	No	22	0.3151	0.2438	4.545	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-13	0.7044	0.5046	4	No	22	0.6045	0.1861	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-7	0.17	0.083	4	No	23	0.1457	0.112	8.696	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-8	0.6281	0.4776	4	No	23	0.5678	0.1729	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-9	0.2464	0.09575	4	No	22	0.1913	0.1573	9.091	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-19	0.3015	0.09303	4	No	10	0.1992	0.1388	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-20	0.1	0.1	4	No	10	0.0972	0.008854	90	None	No	0.011	NP (NDs)
Fluoride (mg/L)	MW-24D	0.09578	0.04138	4	No	10	0.0868	0.03963	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-25D	1.7	1.5	4	No	10	1.64	0.2171	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	MW-26D	0.1115	0.05026	4	No	10	0.0817	0.04186	10	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-27D	0.28	0.24	4	No	10	0.265	0.05662	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	MW-28D	0.2507	0.1533	4	No	10	0.202	0.05453	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-29	0.1	0.07	4	No	10	0.0995	0.03387	70	None	No	0.011	NP (NDs)
Fluoride (mg/L)	MW-5	0.08789	0.05536	4	No	10	0.0773	0.02094	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-6	0.19	0.059	4	No	10	0.1025	0.05484	20	None	No	0.011	NP (normality)
Fluoride (mg/L)	MW-7	0.1	0.1	4	No	10	0.1039	0.02519	80	None	No	0.011	NP (NDs)
Lead (mg/L)	HGWC-10	0.005	0.00005	0.015	No	17	0.004709	0.001201	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-11	0.005	0.00021	0.015	No	17	0.003298	0.002377	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-12	0.005	0.000096	0.015	No	17	0.003573	0.00228	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-13	0.005	0.00014	0.015	No	17	0.003282	0.002398	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-7	0.005	0.00009	0.015	No	17	0.002529	0.002419	47.06	None	No	0.01	NP (normality)
Lead (mg/L)	HGWC-8	0.005	0.0002	0.015	No	17	0.003854	0.002129	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-9	0.005	0.00014	0.015	No	17	0.002724	0.002488	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-19	0.005	0.000038	0.015	No	8	0.002538	0.002632	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-20	0.005	0.000039	0.015	No	8	0.002555	0.002614	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-24D	0.005	0.00004	0.015	No	8	0.001932	0.002541	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	MW-26D	0.005	0.00008	0.015	No	8	0.003772	0.002273	75	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-27D	0.005	0.00013	0.015	No	8	0.00382	0.002186	75	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-28D	0.0007463	0.0001038	0.015	No	8	0.002128	0.002394	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	MW-29	0.005	0.000052	0.015	No	8	0.003156	0.002544	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	MW-5	0.005	0.000047	0.015	No	8	0.004381	0.001751	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	MW-6	0.005	0.000036	0.015	No	8	0.002564	0.002605	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-7	0.005	0.000062	0.015	No	8	0.004383	0.001746	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	HGWC-12	0.01077	0.008283	0.048	No	21	0.009529	0.002258	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-13	0.03752	0.03069	0.048	No	21	0.0341	0.006196	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-7	0.003	0.0021	0.048	No	21	0.003114	0.002766	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-8	0.003	0.0025	0.048	No	21	0.003305	0.002694	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-9	0.0045	0.004	0.048	No	21	0.00471	0.002399	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-19	0.01337	0.008369	0.048	No	10	0.01087	0.002804	0	None	No	0.01	Param.
Lithium (mg/L)	MW-20	0.015	0.00091	0.048	No	10	0.003912	0.005849	20	None	No	0.011	NP (normality)
Lithium (mg/L)	MW-24D	0.002893	0.002587	0.048	No	10	0.00274	0.0001713	0	None	No	0.01	Param.
Lithium (mg/L)	MW-25D	0.05057	0.04583	0.048	No	10	0.0482	0.002658	0	None	No	0.01	Param.
Lithium (mg/L)	MW-26D	0.0041	0.0033	0.048	No	10	0.00629	0.008336	0	None	No	0.011	NP (normality)
Lithium (mg/L)	MW-27D	0.008926	0.006134	0.048	No	10	0.00753	0.001565	0	None	No	0.01	Param.
Lithium (mg/L)	MW-28D	0.01353	0.006626	0.048	No	10	0.01008	0.003872	0	None	No	0.01	Param.
Lithium (mg/L)	MW-29	0.002388	0.002132	0.048	No	10	0.00226	0.000143	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-10	0.0002	0.00005	0.002	No	13	0.0001885	0.0000416	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-11	0.0002	0.00005	0.002	No	13	0.0001885	0.0000416	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-13	0.0002	0.00005	0.002	No	13	0.0001762	0.00005824	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-9	0.0002	0.00004	0.002	No	13	0.0001877	0.00004438	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-10	0.005	0.0014	0.1	No	21	0.00361	0.00183	61.9	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-11	0.02653	0.01633	0.1	No	21	0.02143	0.009245	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	HGWC-12	0.04931	0.04537	0.1	No	21	0.04734	0.003573	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-13	0.03557	0.03036	0.1	No	21	0.03297	0.004724	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-7	0.04304	0.03524	0.1	No	22	0.03914	0.007261	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-8	0.4903	0.4416	0.1	Yes	22	0.466	0.04541	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-9	0.034	0.0236	0.1	No	21	0.04941	0.09809	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-19	0.05671	0.02749	0.1	No	10	0.0421	0.01637	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.005	0.0008	0.1	No	10	0.002489	0.002171	40	None	No	0.011	NP (normality)
Molybdenum (mg/L)	MW-25D	0.005	0.0022	0.1	No	10	0.004314	0.001476	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	MW-26D	0.0227	0.009659	0.1	No	11	0.01618	0.007828	9.091	None	No	0.01	Param.
Molybdenum (mg/L)	MW-27D	0.004255	0.001265	0.1	No	10	0.00276	0.001676	10	None	No	0.01	Param.
Molybdenum (mg/L)	MW-28D	0.0217	0.008281	0.1	No	10	0.01499	0.007519	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-29	0.003348	0.002352	0.1	No	10	0.00285	0.0005583	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.002621	0.002219	0.1	No	10	0.00242	0.0002251	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-7	0.005	0.0015	0.1	No	10	0.0032	0.001689	40	None	No	0.011	NP (normality)
Selenium (mg/L)	HGWC-10	0.005	0.0031	0.05	No	21	0.004324	0.001187	71.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-11	0.01453	0.006329	0.05	No	21	0.01043	0.007431	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-12	0.005	0.0011	0.05	No	21	0.004814	0.000851	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-13	0.005	0.0016	0.05	No	21	0.004609	0.001256	90.48	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-8	0.005	0.0024	0.05	No	21	0.004876	0.0005674	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-9	0.005	0.0037	0.05	No	21	0.004938	0.0002837	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-19	0.004996	0.002077	0.05	No	10	0.00396	0.001711	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	MW-27D	0.005	0.005	0.05	No	10	0.004512	0.001543	90	Kaplan-Meier	No	0.011	NP (NDs)
Selenium (mg/L)	MW-5	0.003618	0.002262	0.05	No	10	0.00294	0.0007604	0	None	No	0.01	Param.
Selenium (mg/L)	MW-7	0.005	0.0014	0.05	No	10	0.00306	0.001708	40	None	No	0.011	NP (normality)
Thallium (mg/L)	HGWC-11	0.001	0.00008	0.002	No	21	0.0009124	0.0002767	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-12	0.001	0.0001	0.002	No	21	0.000744	0.0004155	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-13	0.0004561	0.0003223	0.002	No	21	0.0004042	0.0001581	4.762	None	ln(x)	0.01	Param.
Thallium (mg/L)	HGWC-8	0.001	0.00009	0.002	No	21	0.0007375	0.0004253	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-19	0.001	0.00023	0.002	No	10	0.000477	0.000362	30	None	No	0.011	NP (normality)
Thallium (mg/L)	MW-28D	0.001	0.001	0.002	No	10	0.0009092	0.0002871	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	MW-29	0.001	0.001	0.002	No	10	0.0009064	0.000296	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	MW-6	0.001	0.001	0.002	No	10	0.0009082	0.0002903	90	None	No	0.011	NP (NDs)

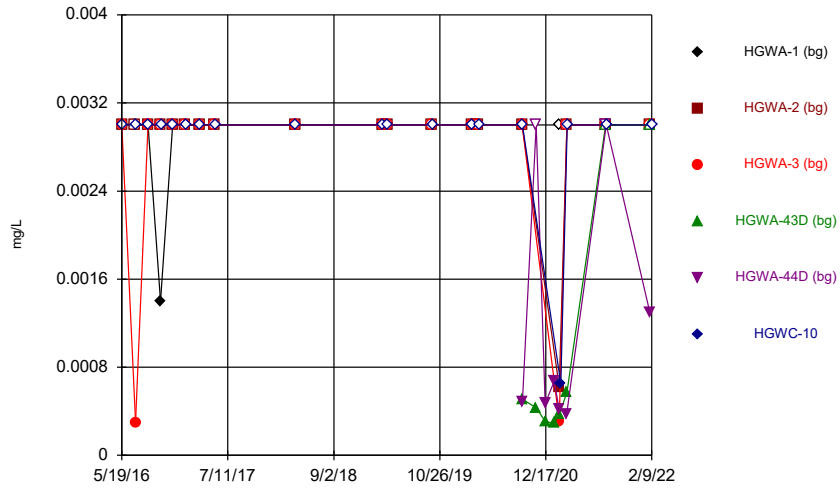
Appendix IV Trend Tests - All Results (No Significant)

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:20 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	HGWA-1 (bg)	0	-17	-87	No	21	85.71	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-2 (bg)	0	16	87	No	21	57.14	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-3 (bg)	0	4	87	No	21	57.14	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-43D (bg)	-0.001127	-7	-21	No	8	25	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-44D (bg)	0	-7	-21	No	8	75	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWC-13	0.0144	58	87	No	21	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-1 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-2 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-3 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-43D (bg)	-0.0008179	-9	-21	No	8	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-44D (bg)	0.002925	19	21	No	8	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWC-8	-0.00841	-55	-92	No	22	0	n/a	n/a	0.01	NP

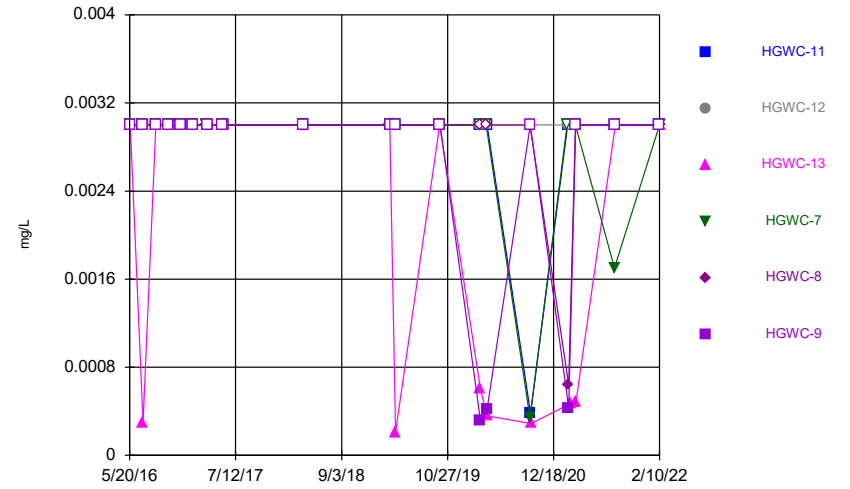
FIGURE A.

Time Series



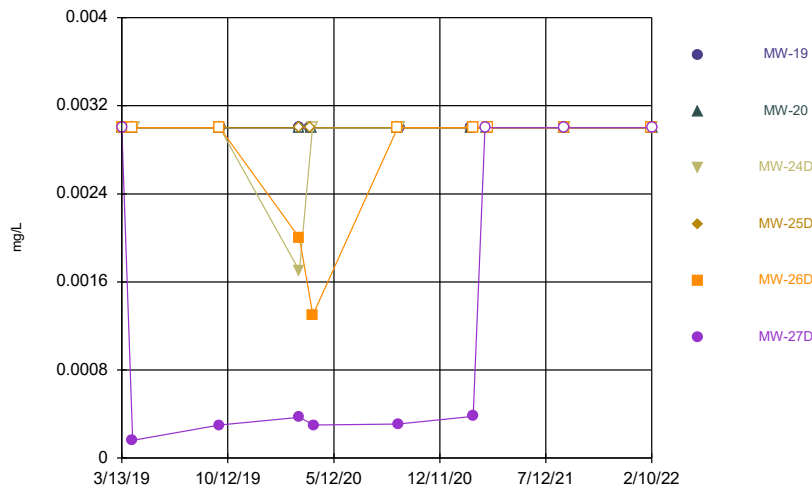
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



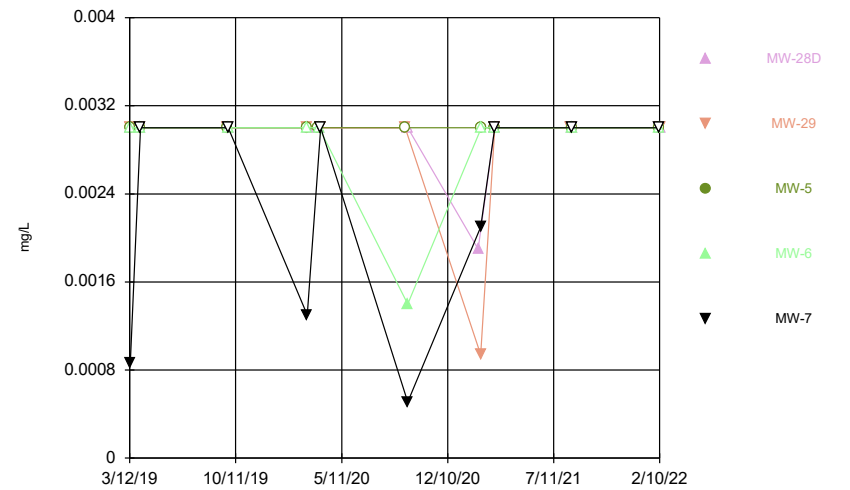
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Time Series



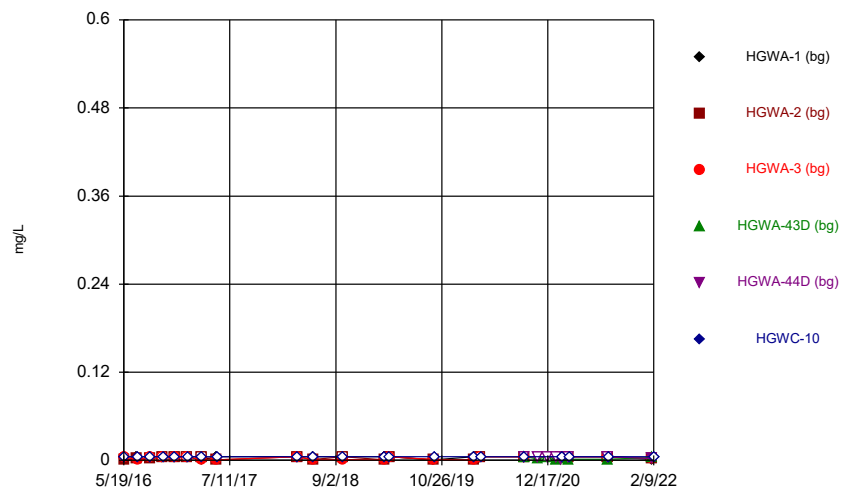
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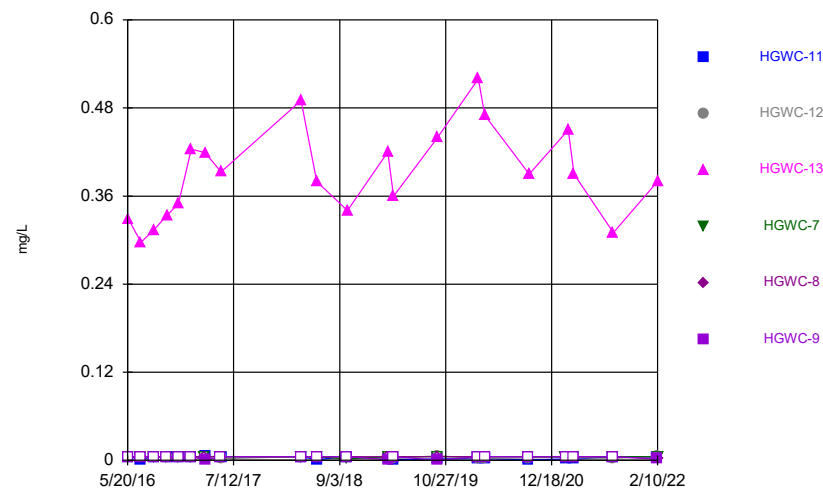
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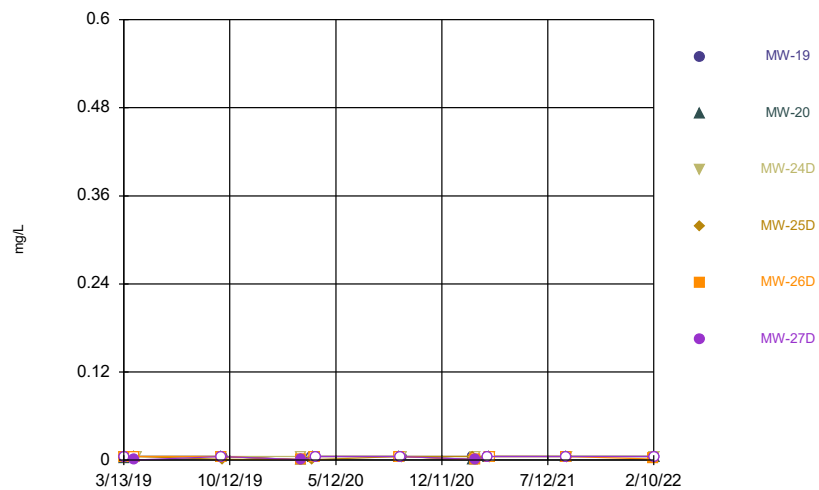
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Time Series



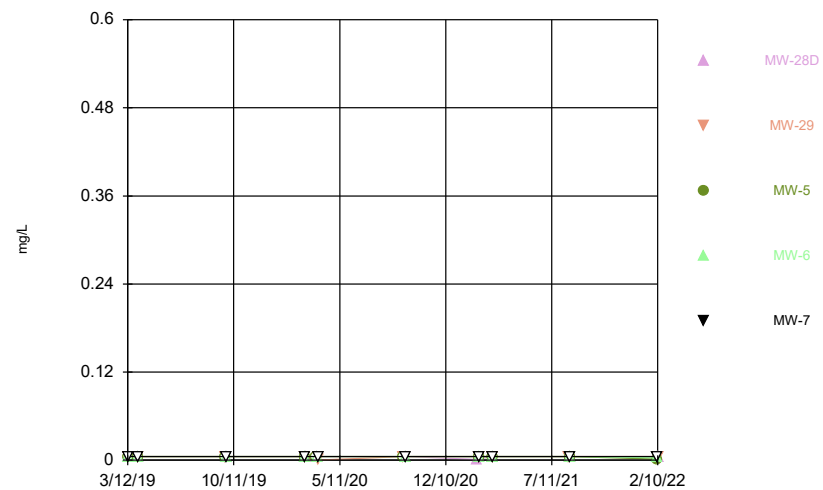
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Time Series



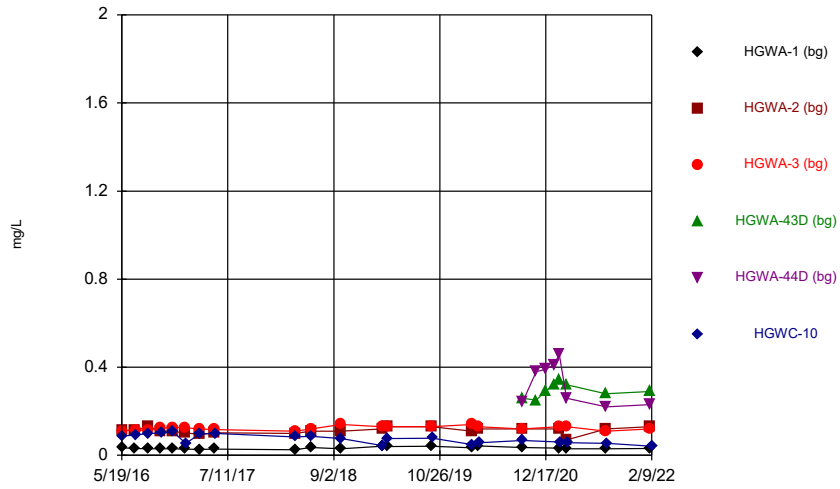
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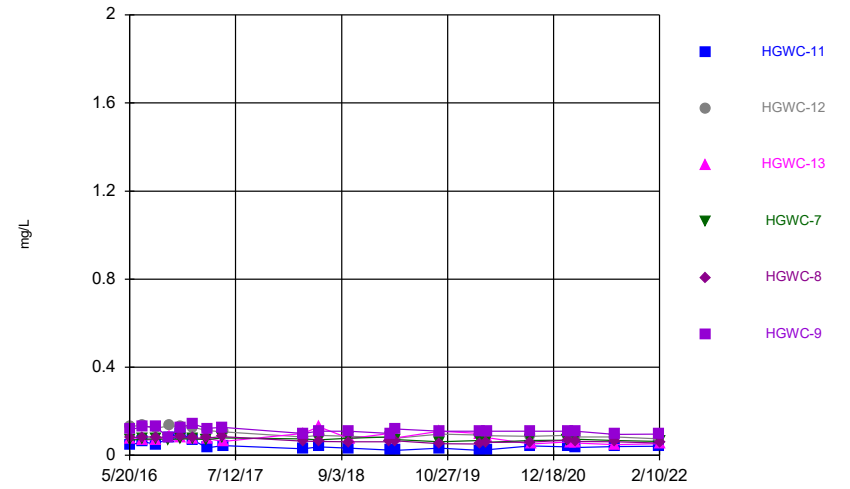
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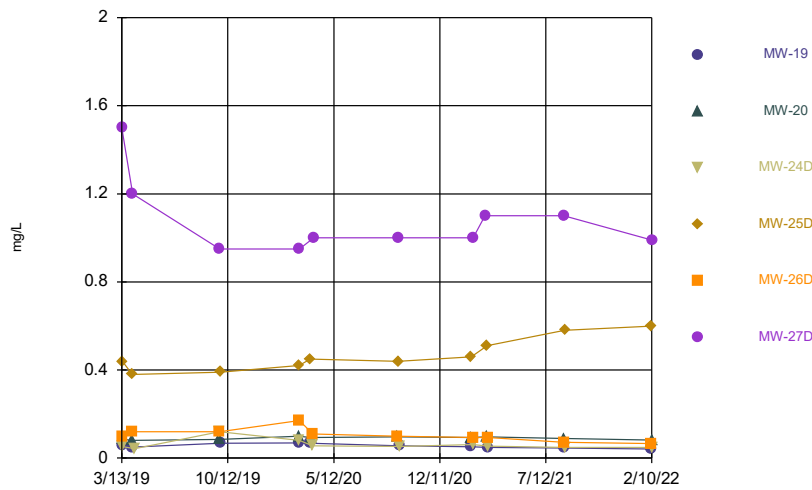
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Time Series



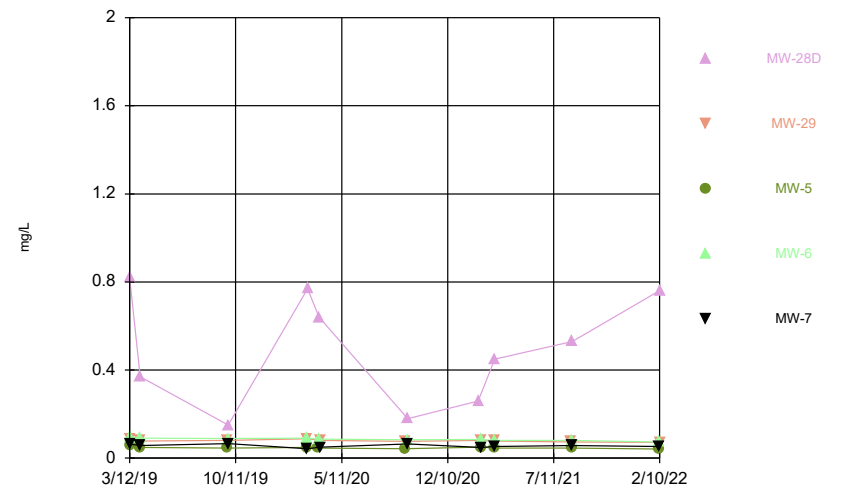
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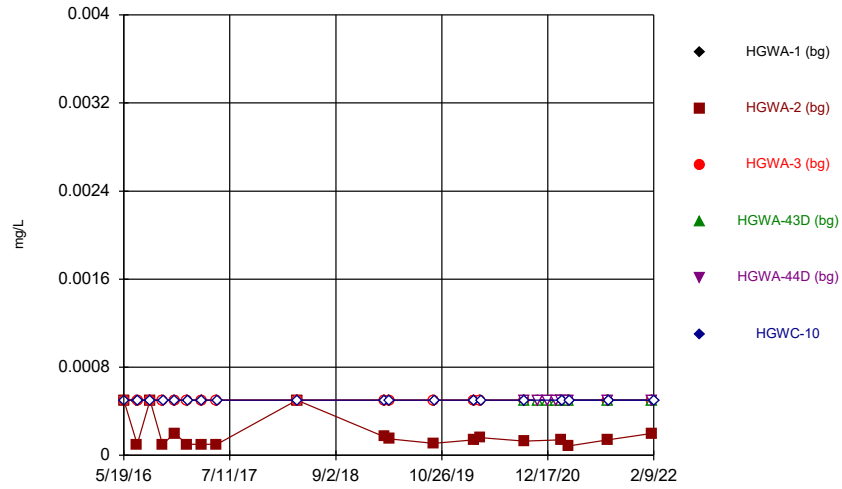
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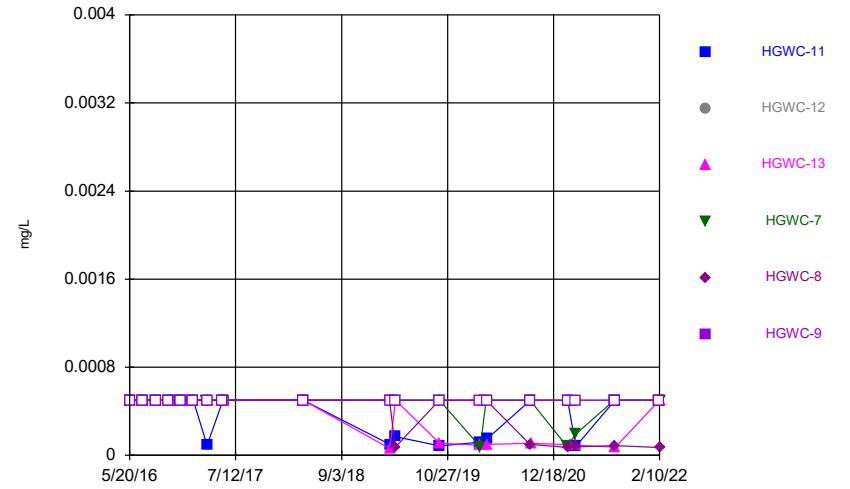
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Time Series



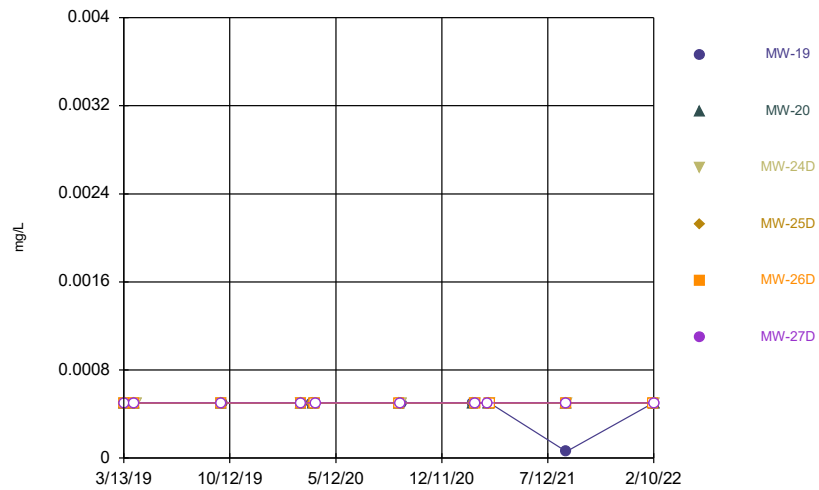
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



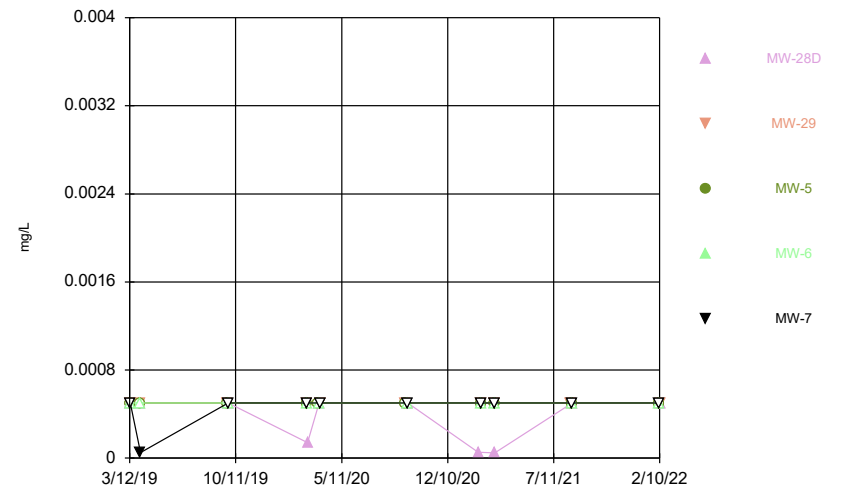
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Time Series



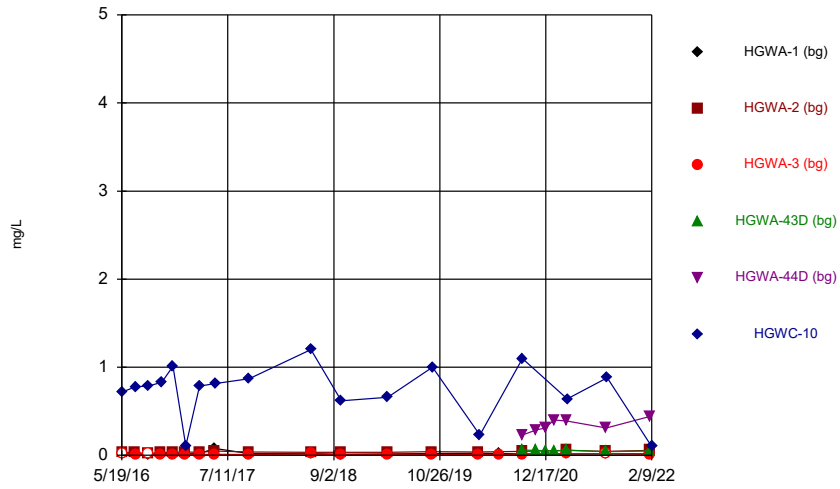
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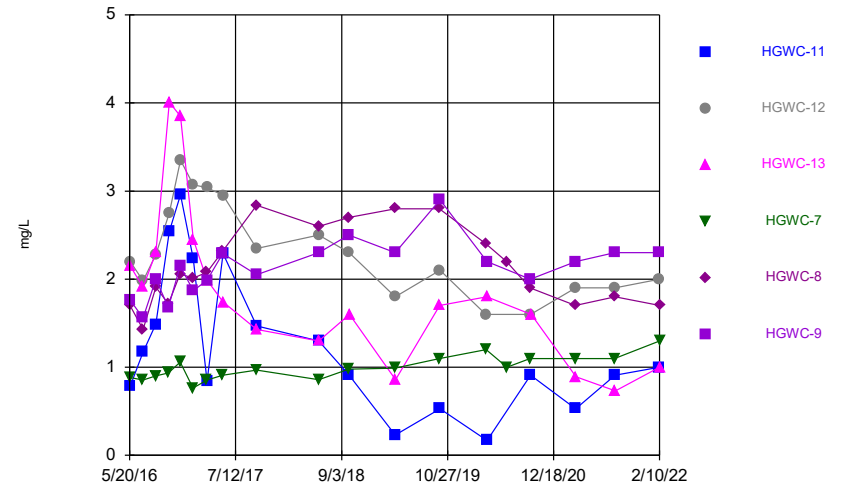
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Time Series



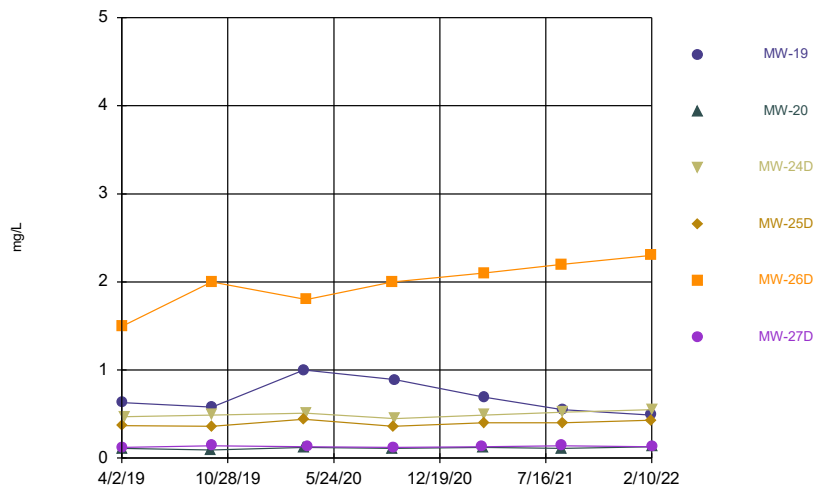
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



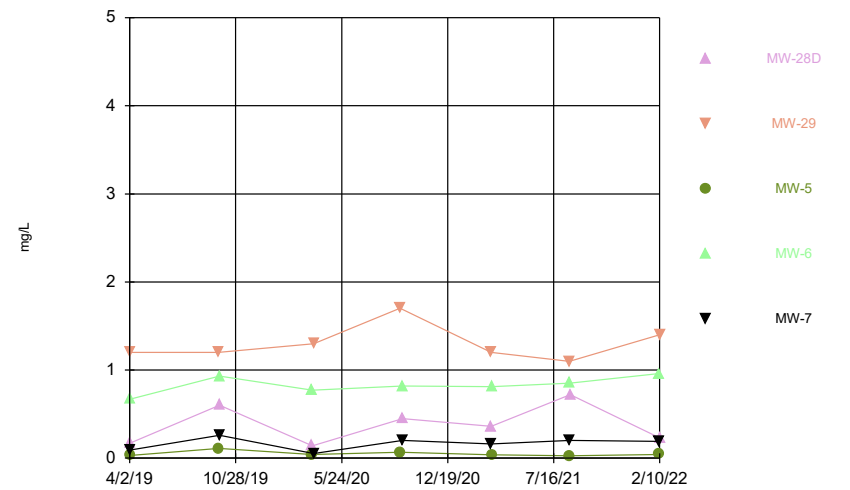
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



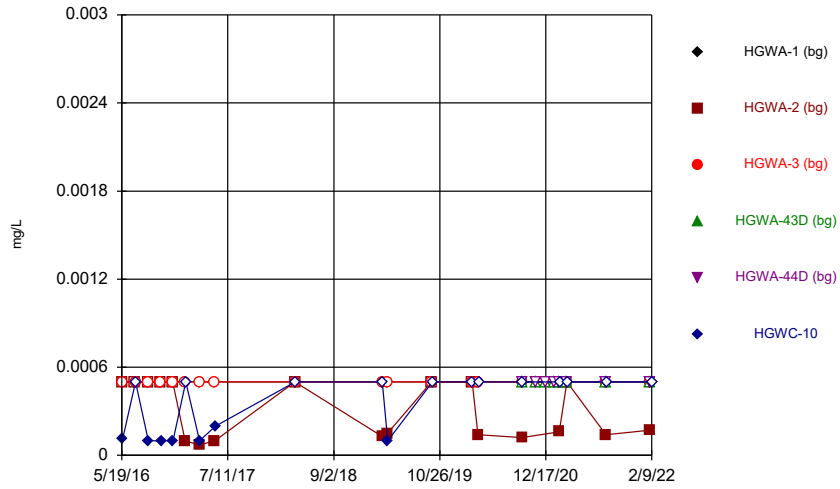
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



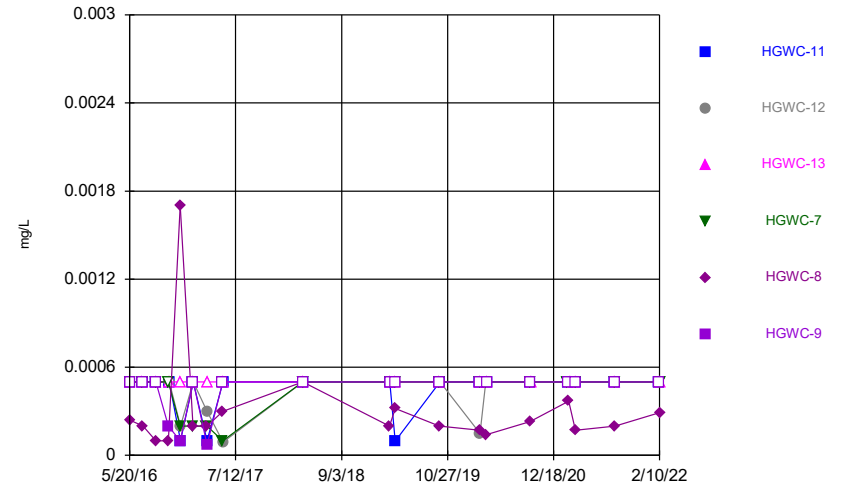
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



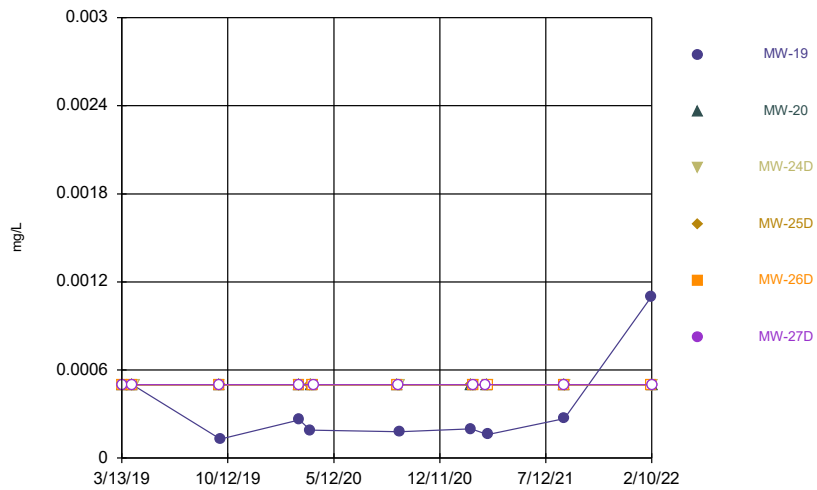
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



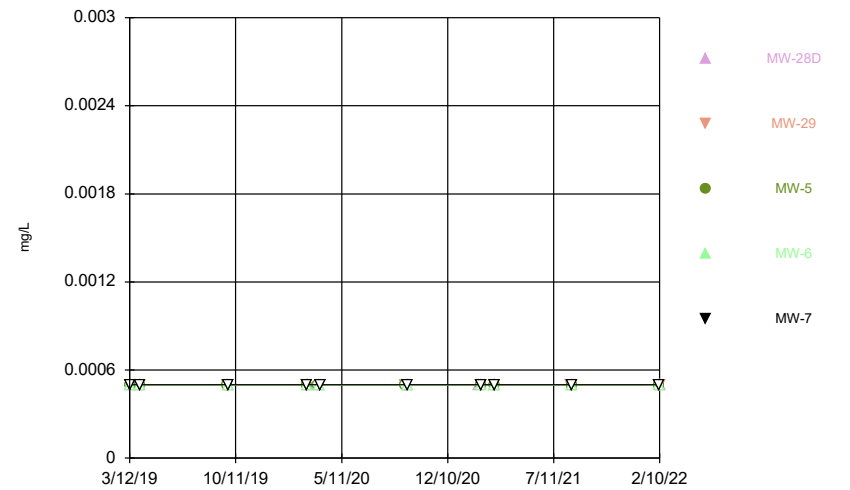
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



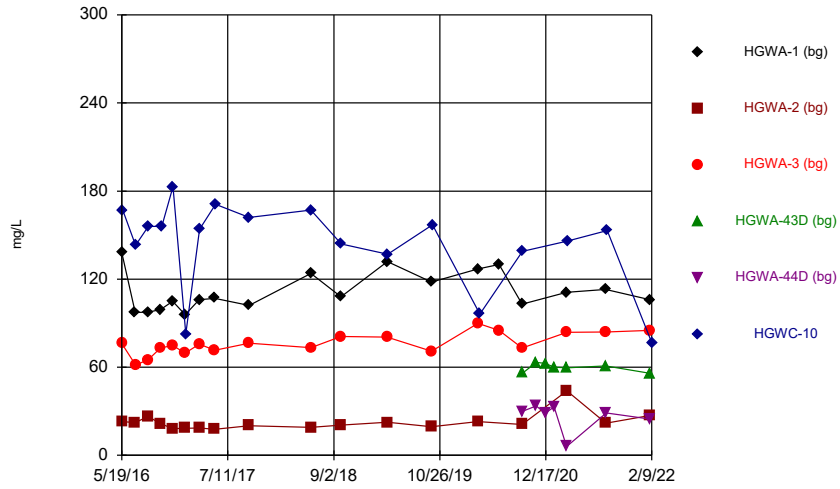
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



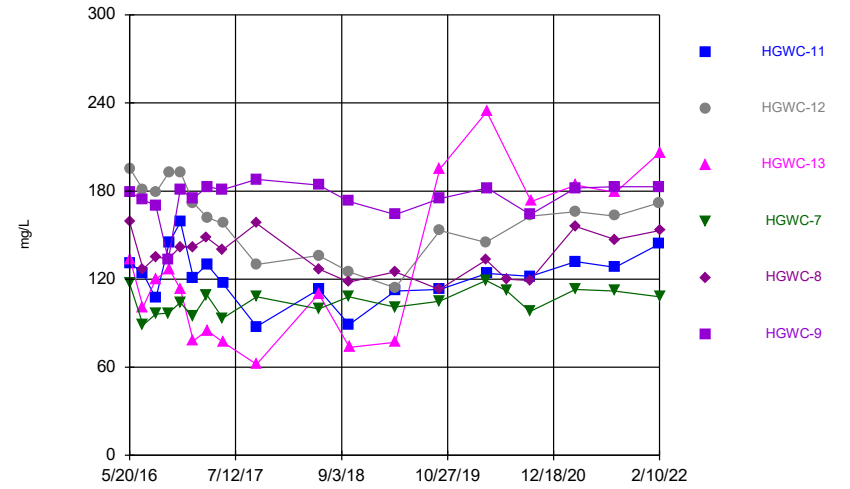
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



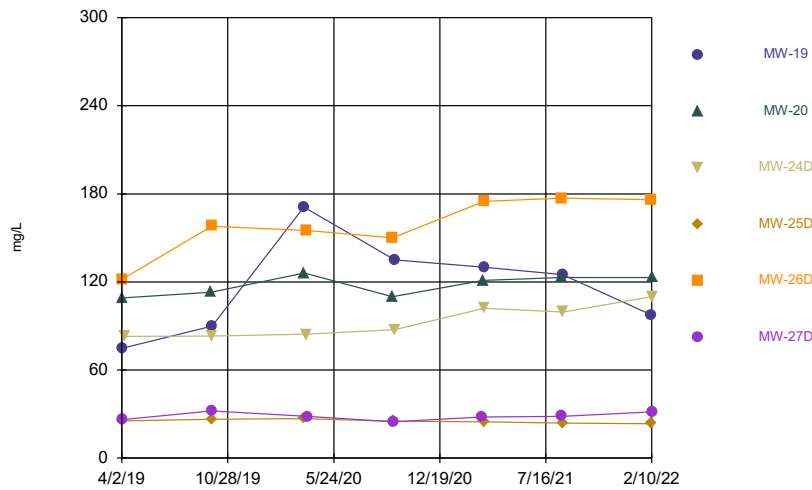
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



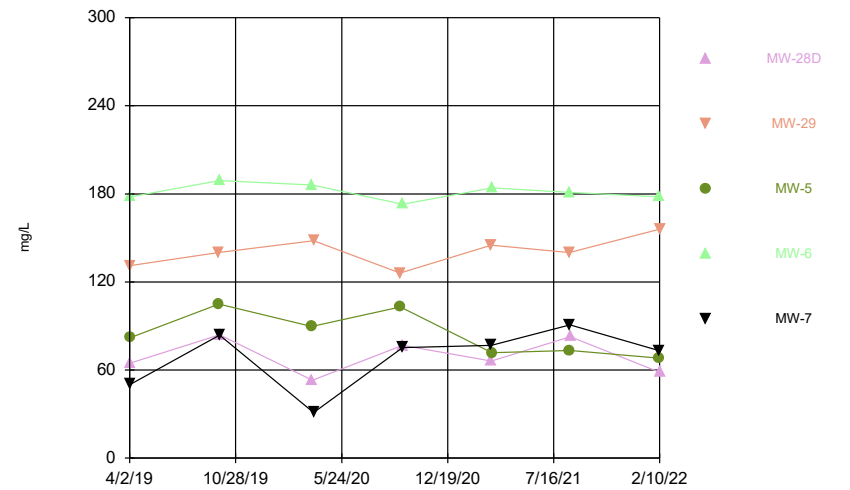
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



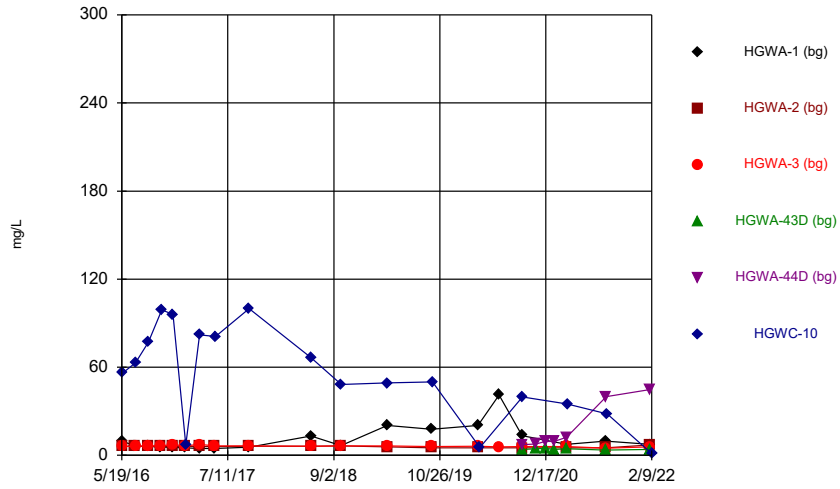
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Time Series



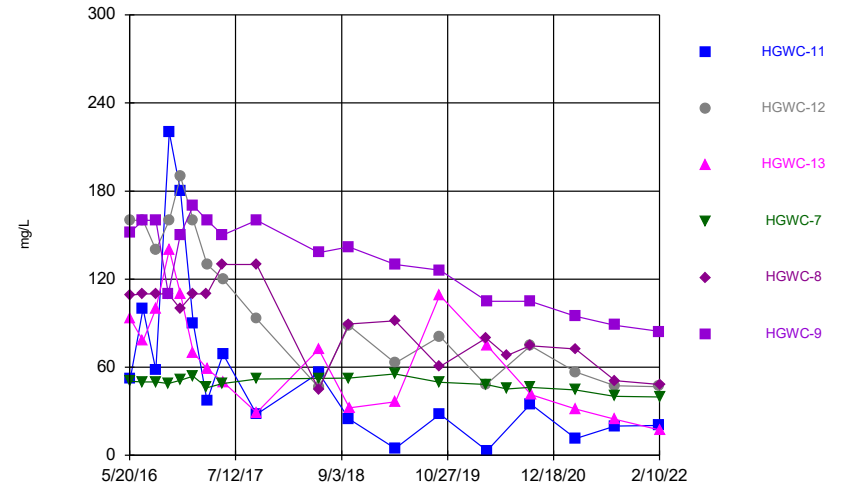
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Time Series



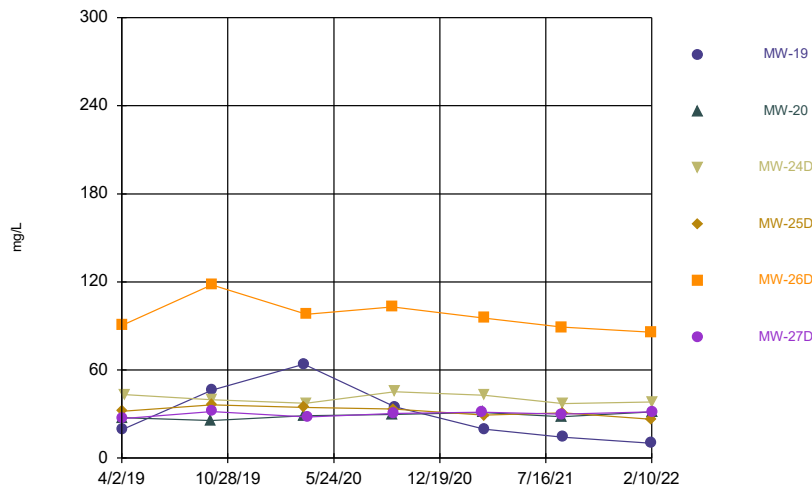
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



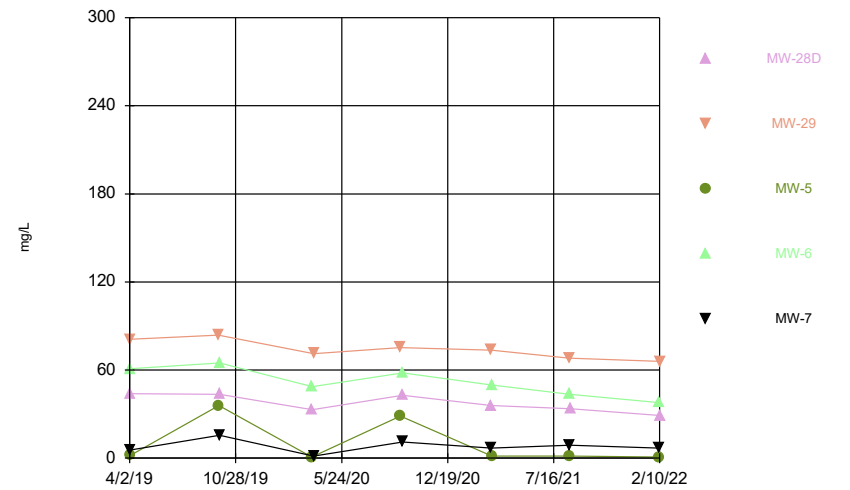
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



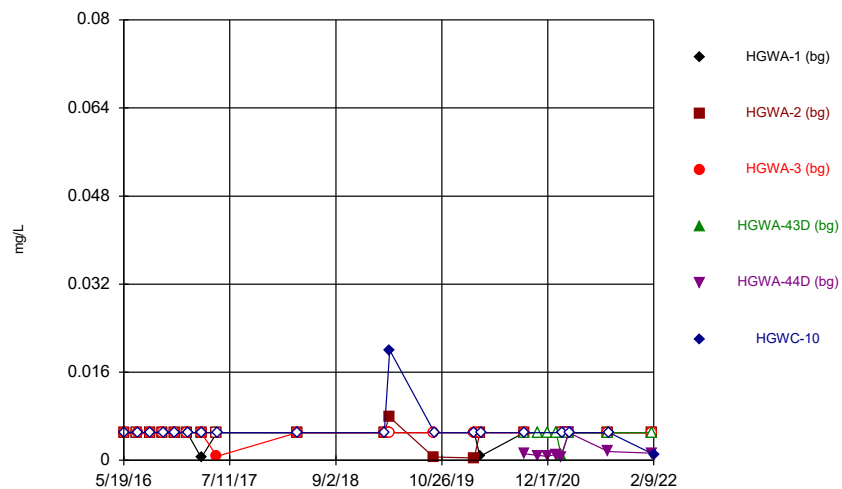
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Time Series



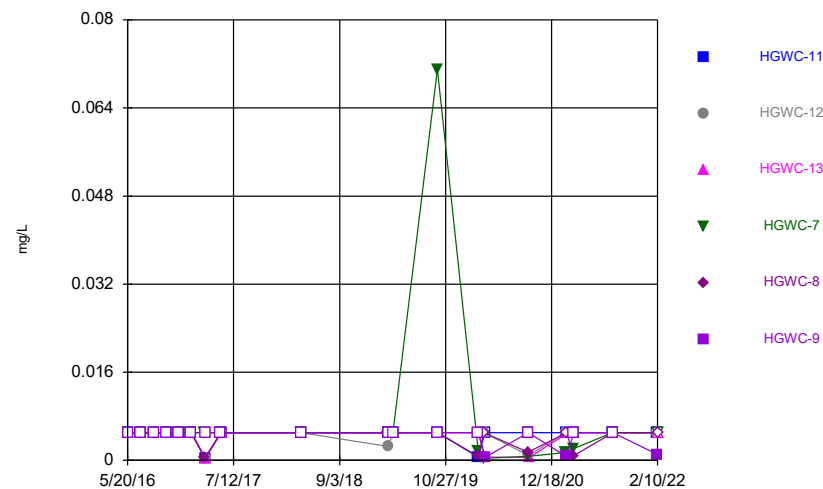
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Time Series



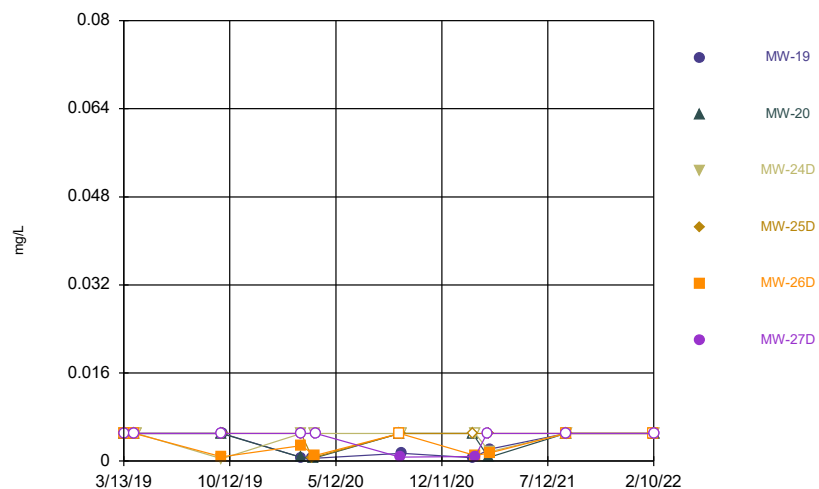
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



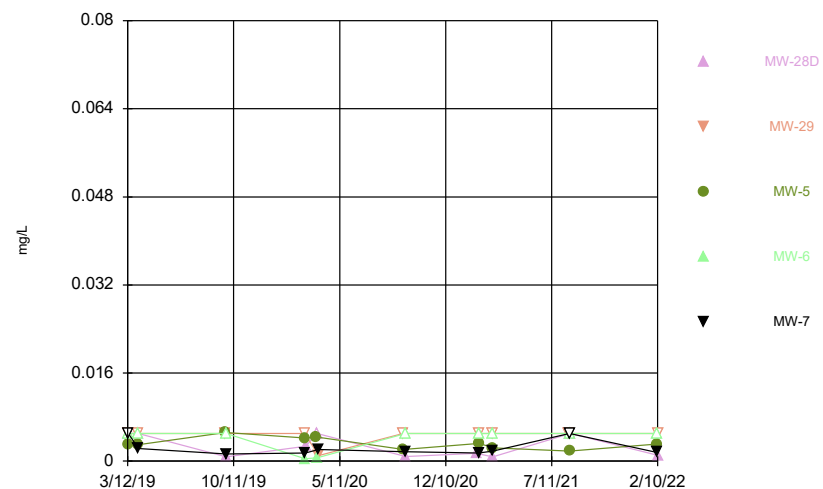
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



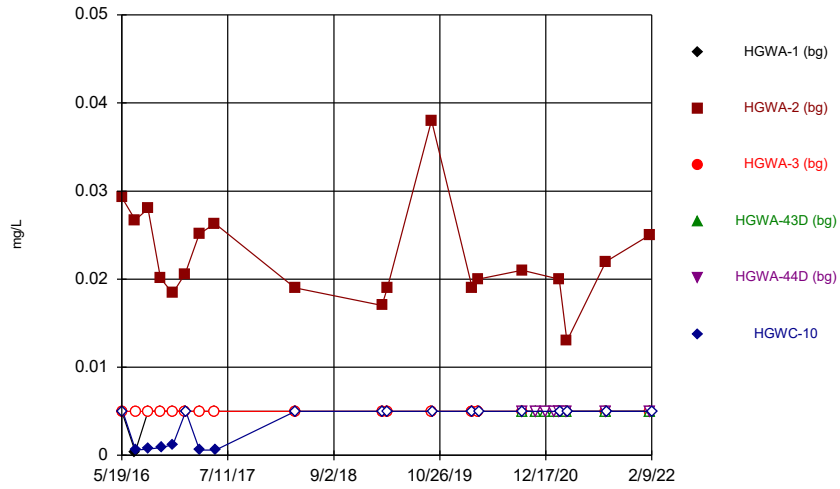
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Time Series



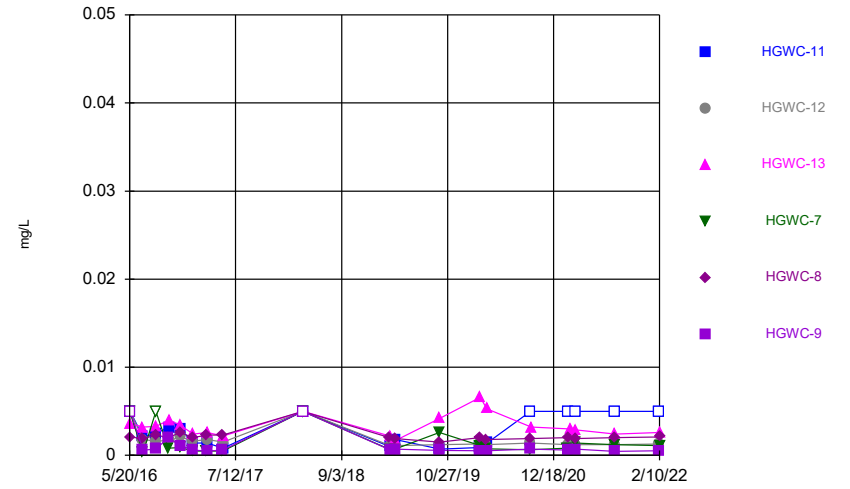
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



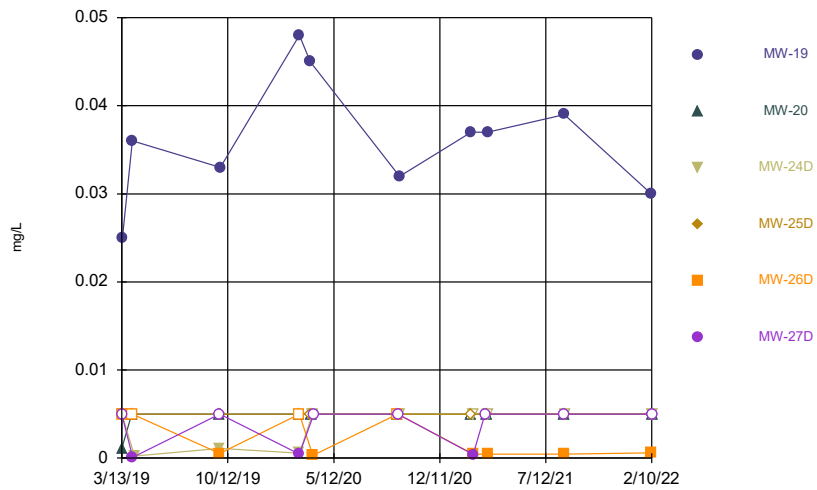
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



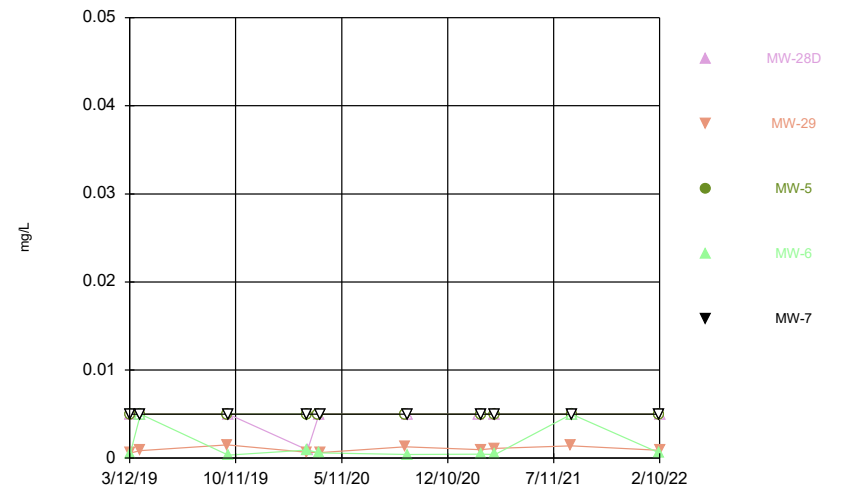
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Time Series



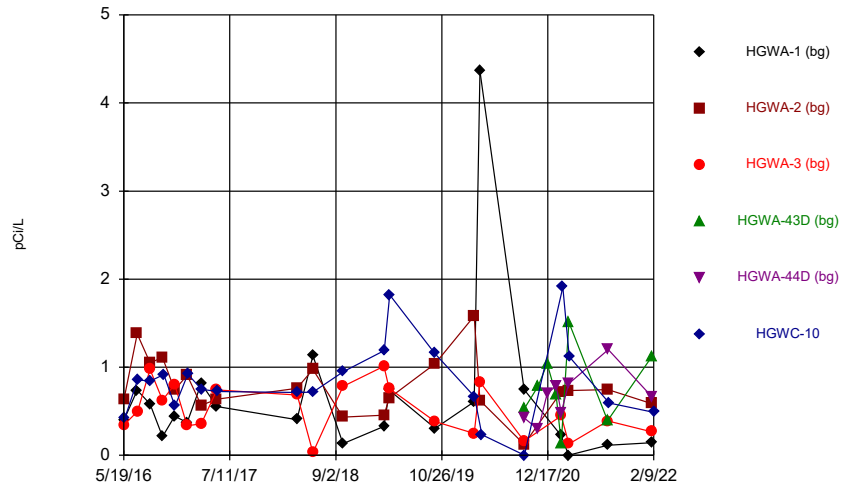
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



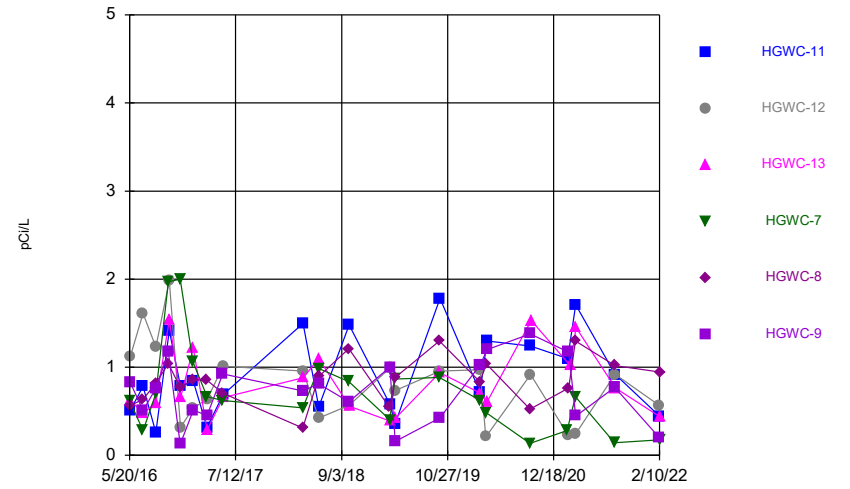
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Time Series



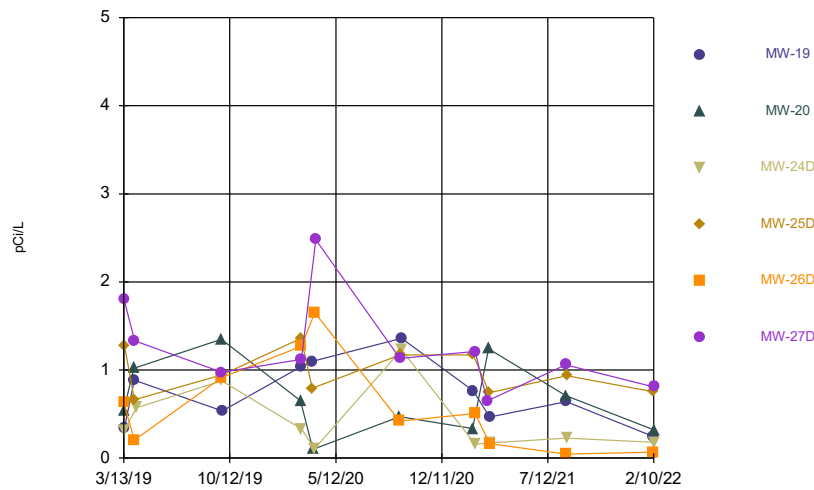
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



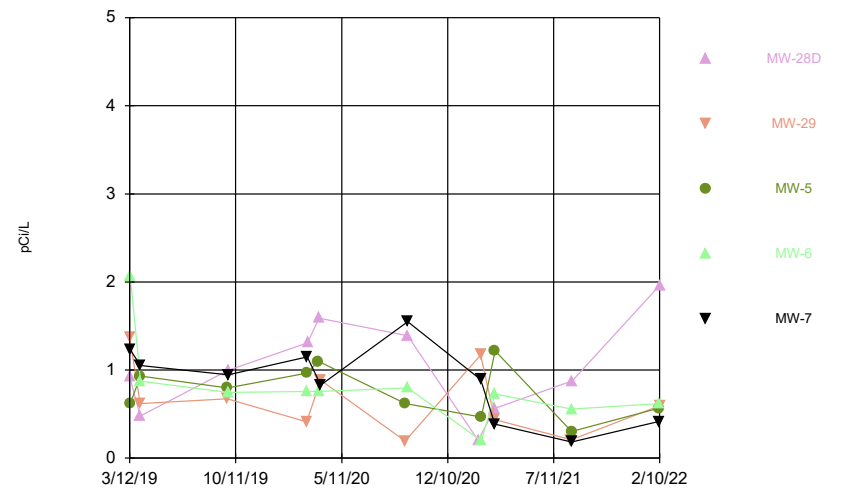
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



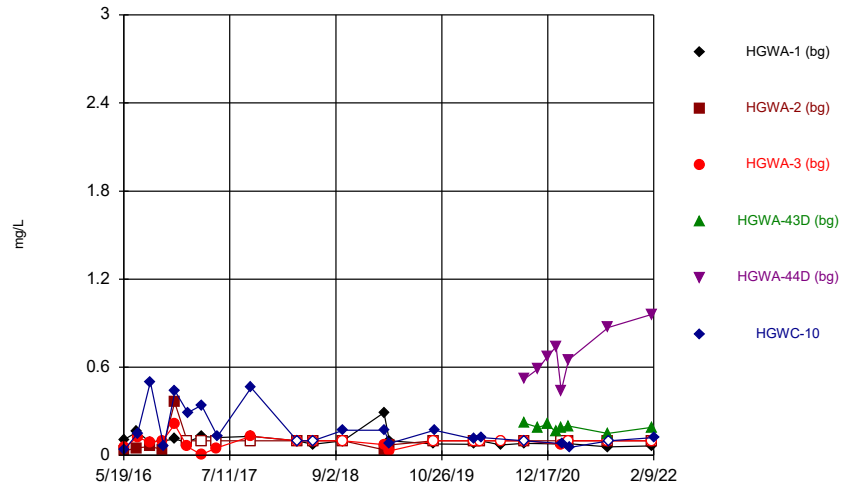
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



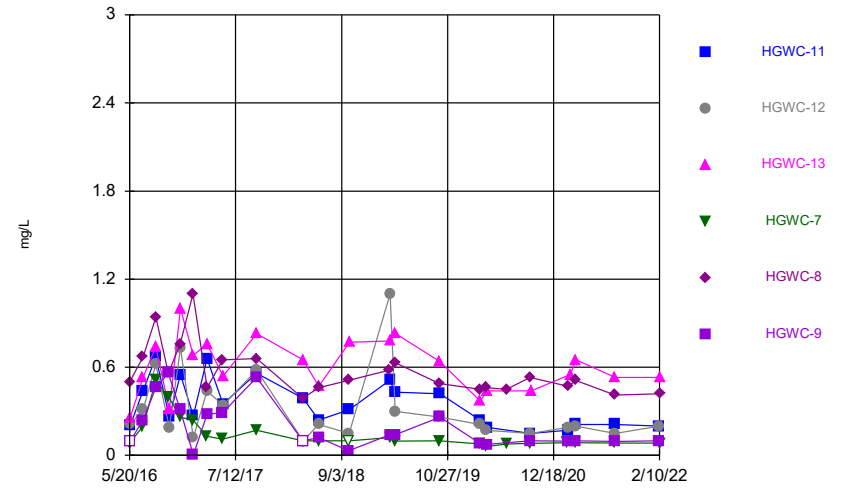
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Time Series



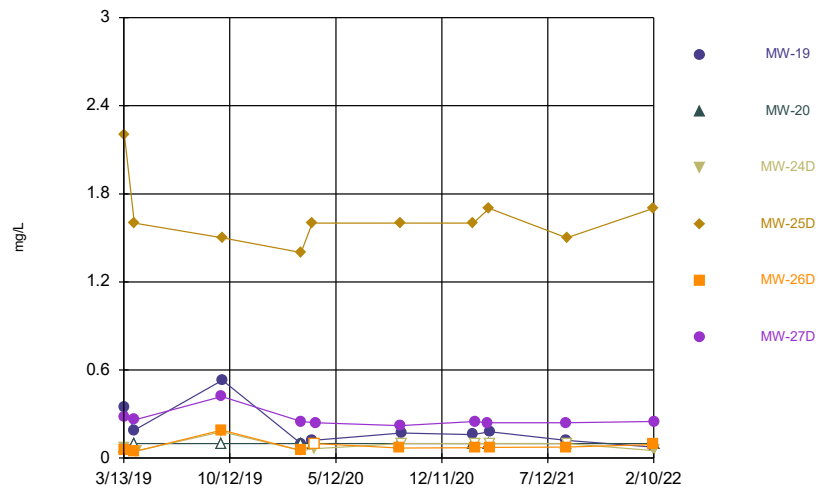
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



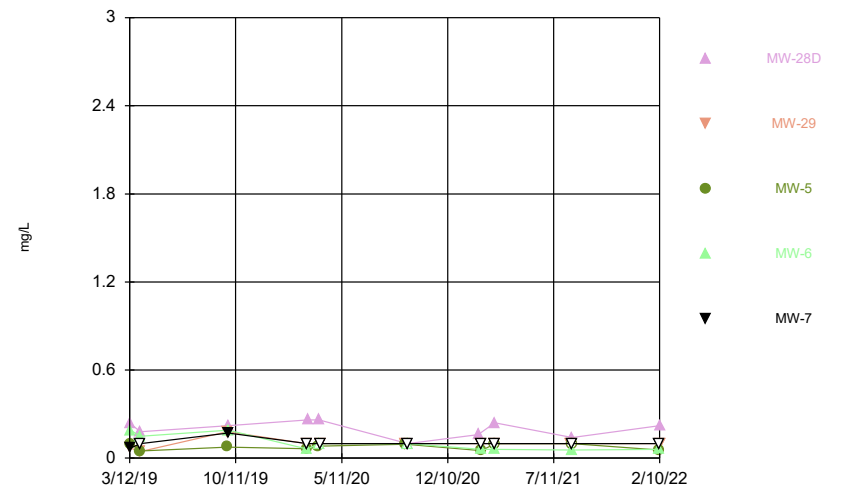
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Time Series



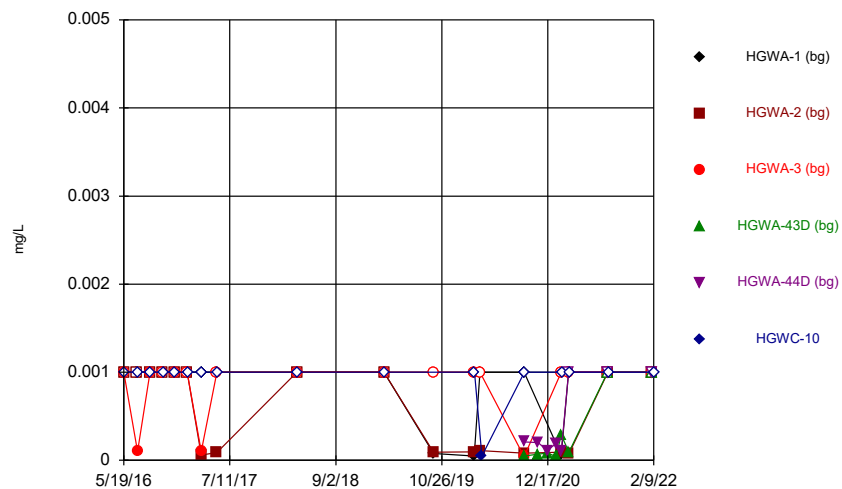
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Time Series



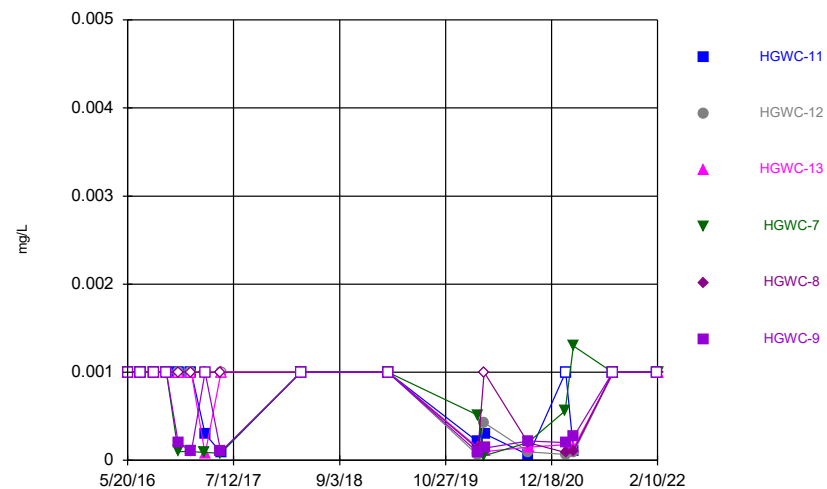
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Time Series



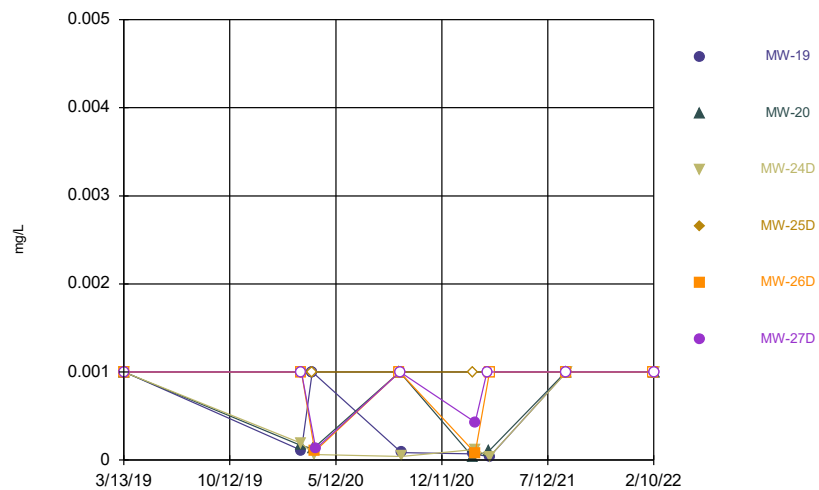
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



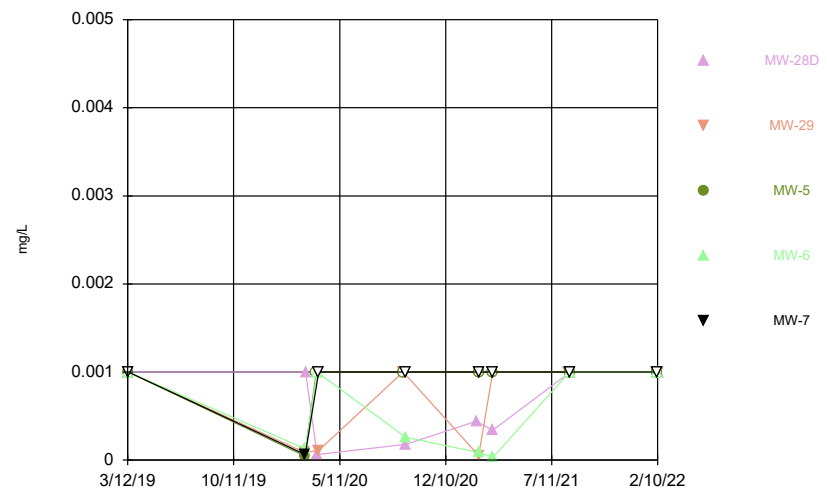
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Time Series



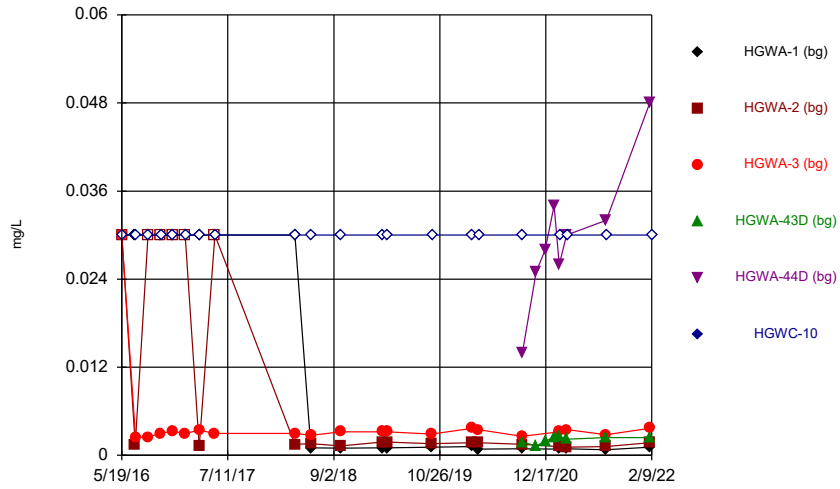
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Time Series



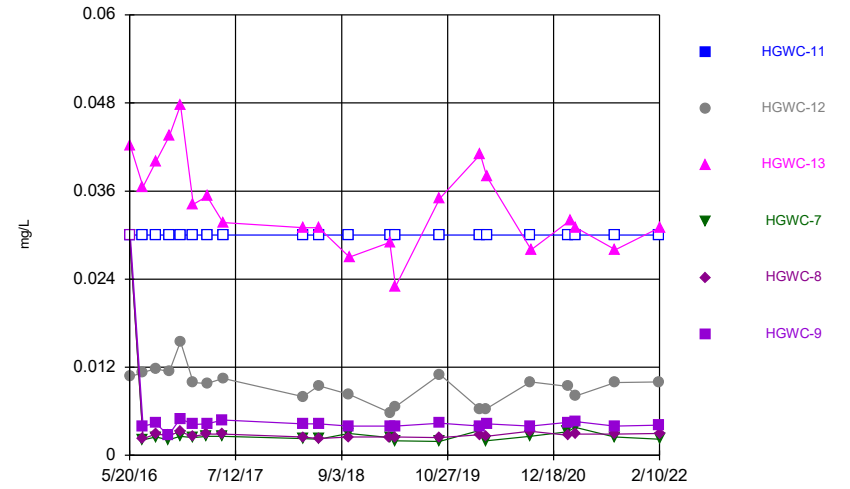
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



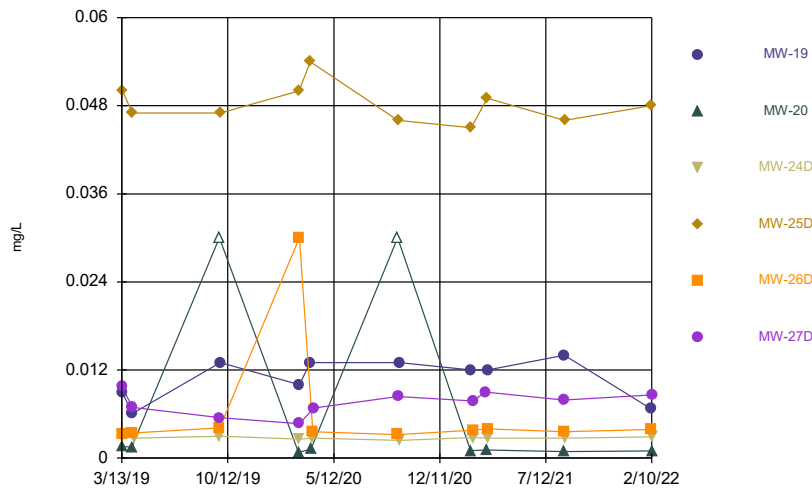
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Time Series



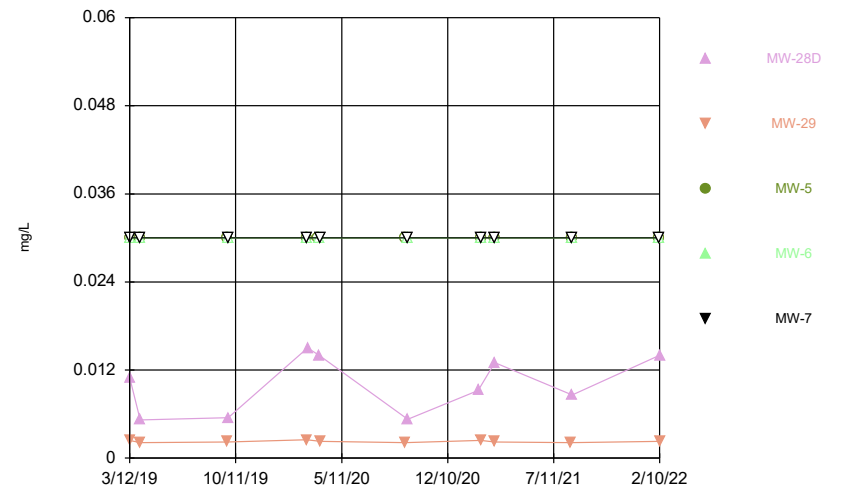
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Time Series



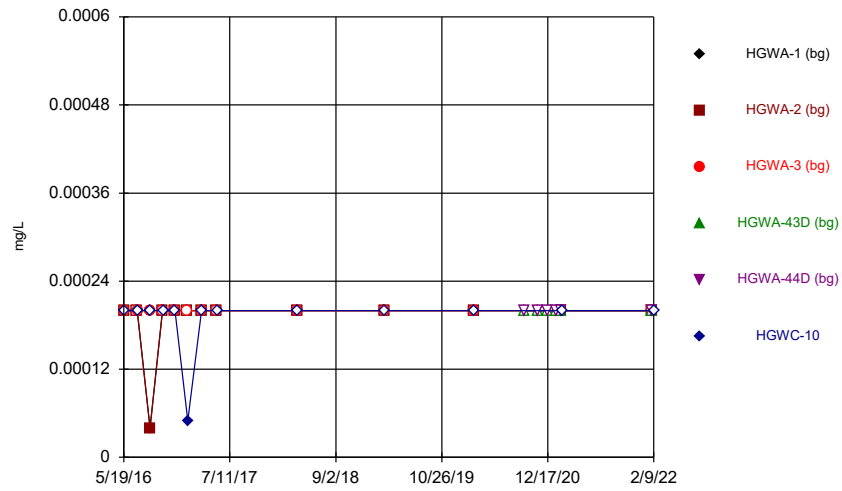
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Time Series



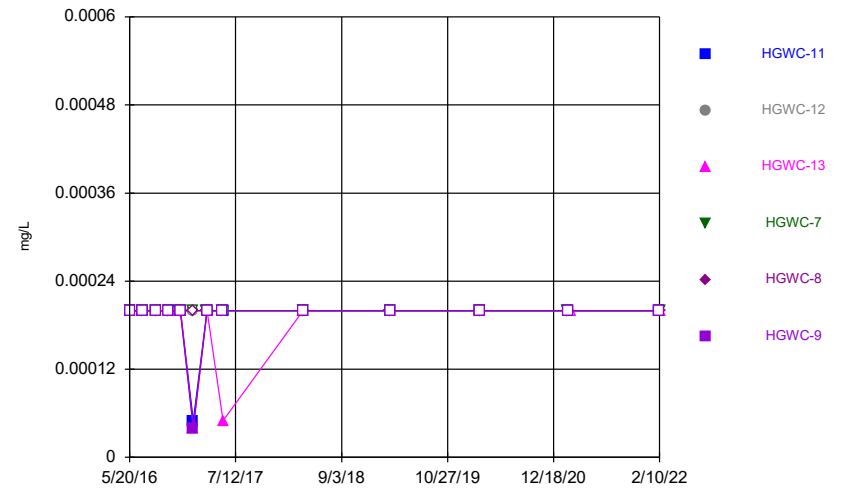
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Time Series



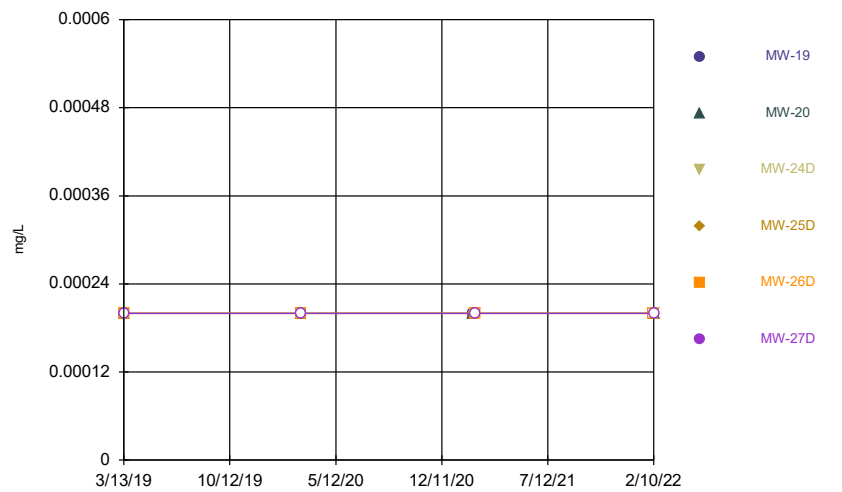
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



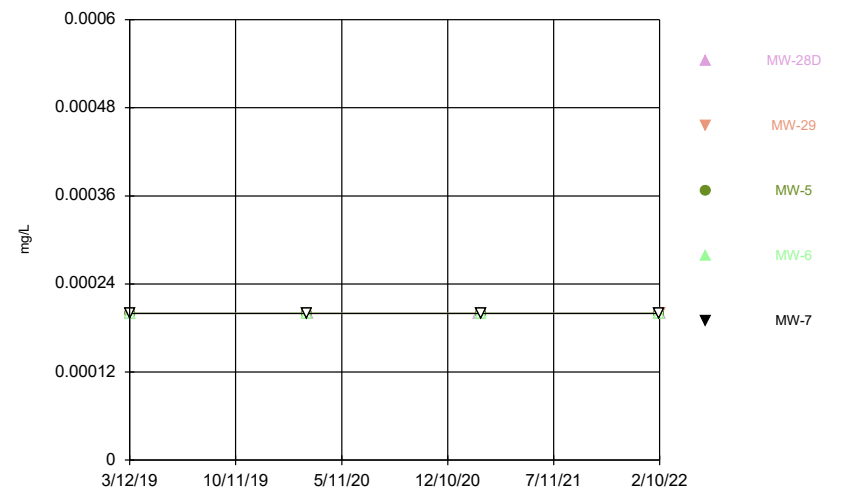
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



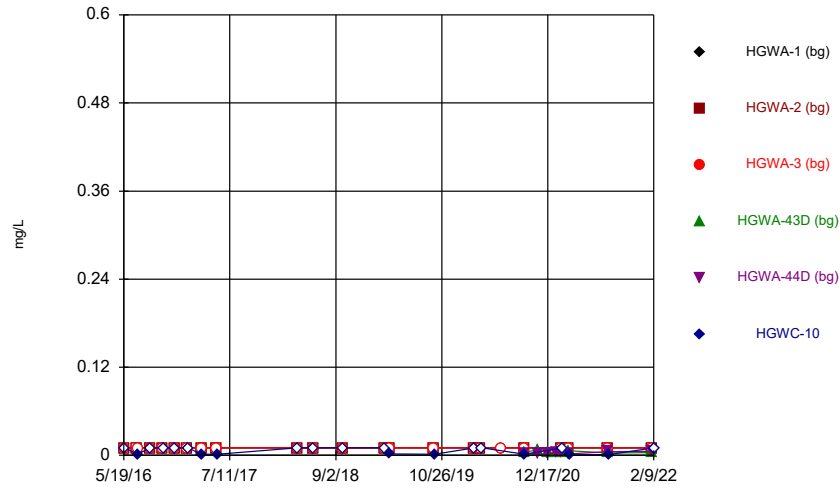
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



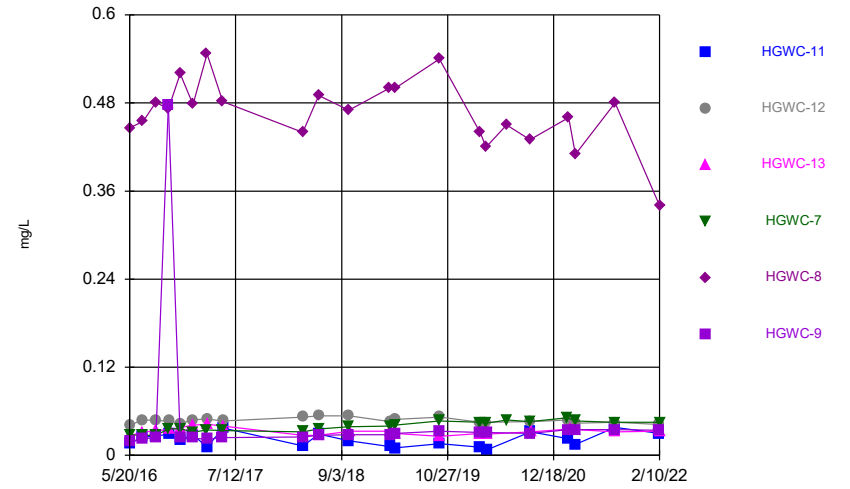
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



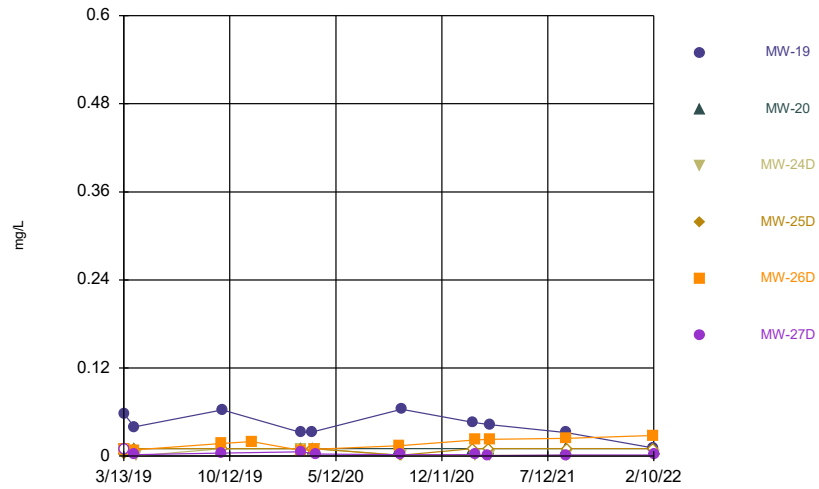
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



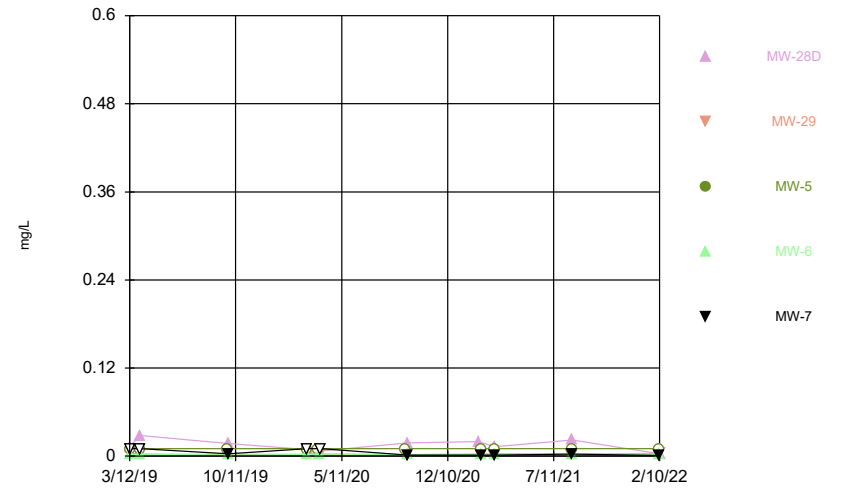
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



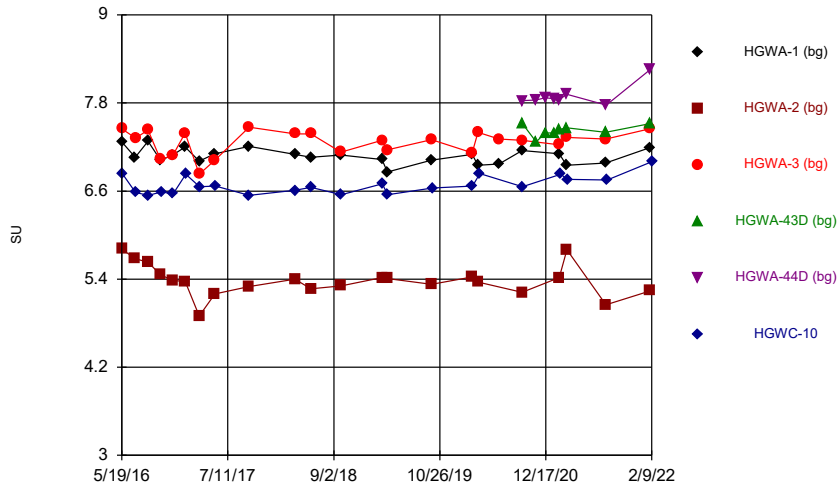
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



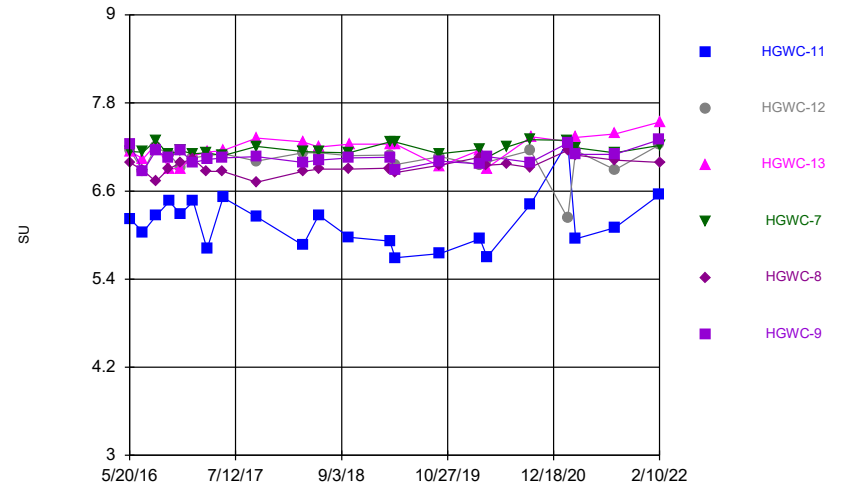
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Time Series



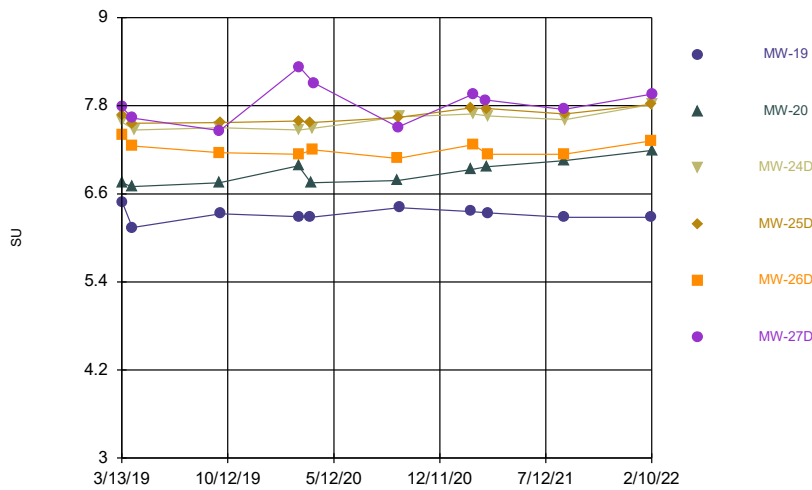
Constituent: pH, Field Analysis Run 4/25/2022 2:34 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



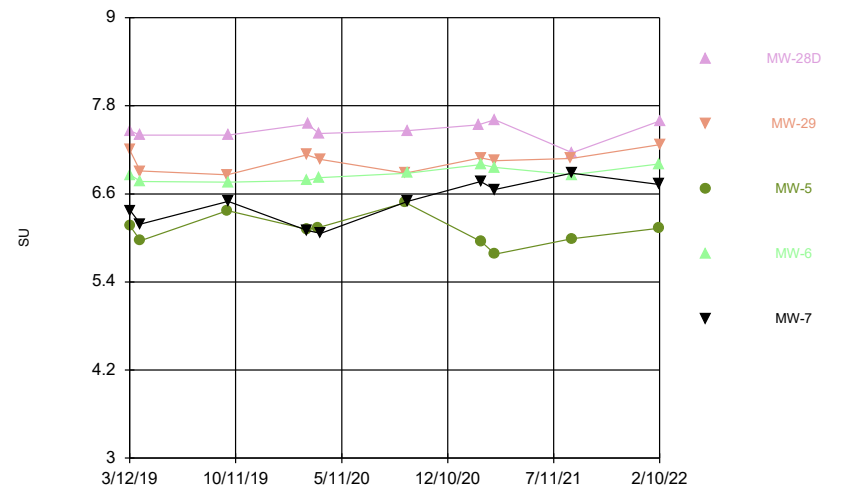
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Time Series



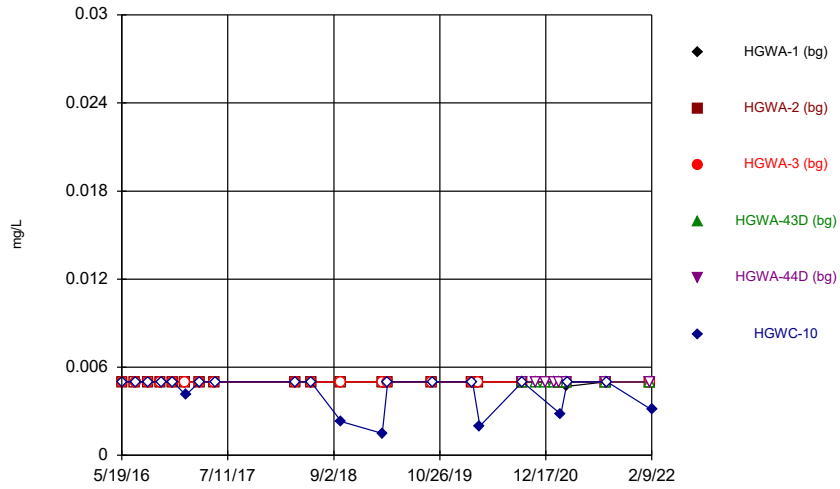
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



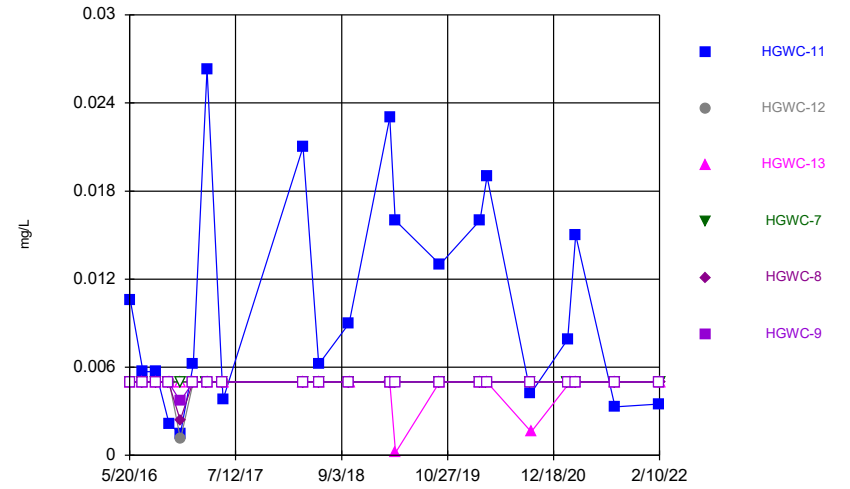
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Time Series



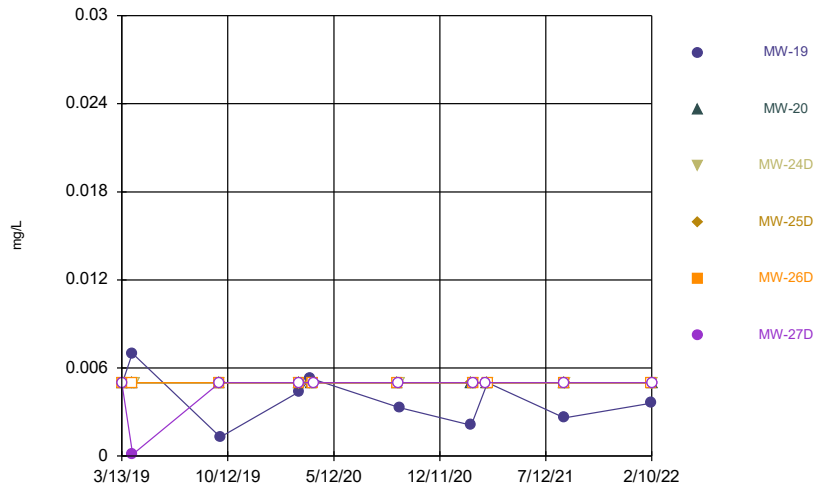
Constituent: Seleniun Analysis Run 4/25/2022 2:34 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



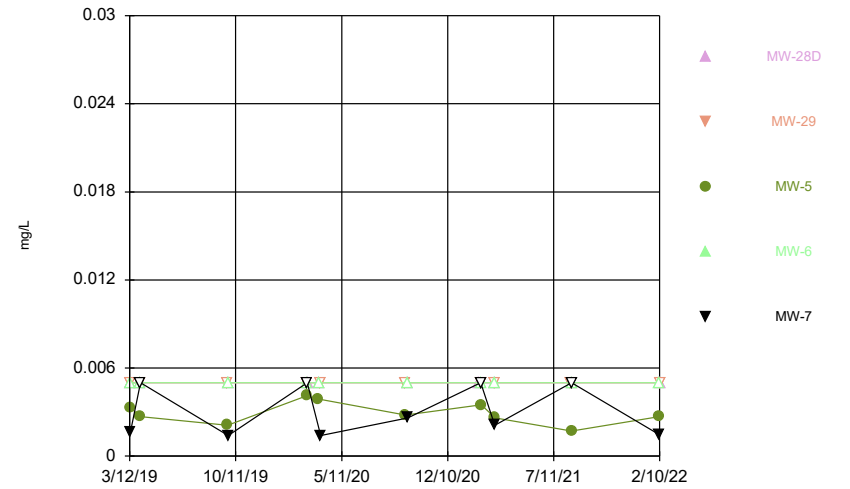
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Time Series



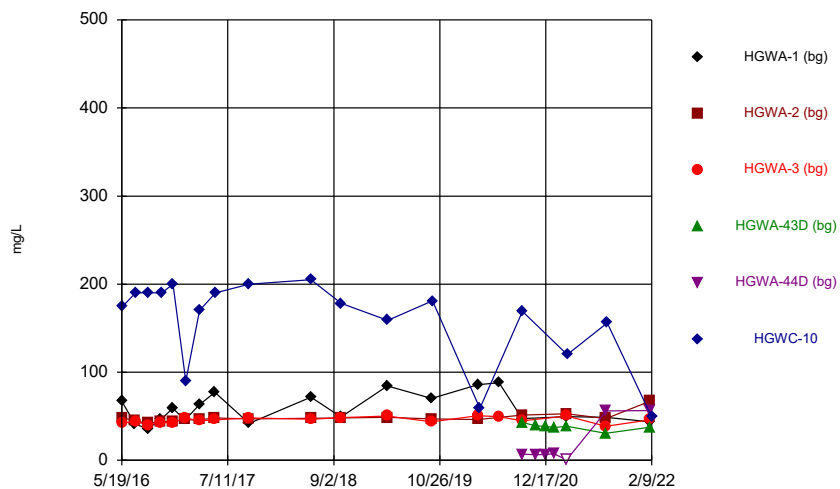
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



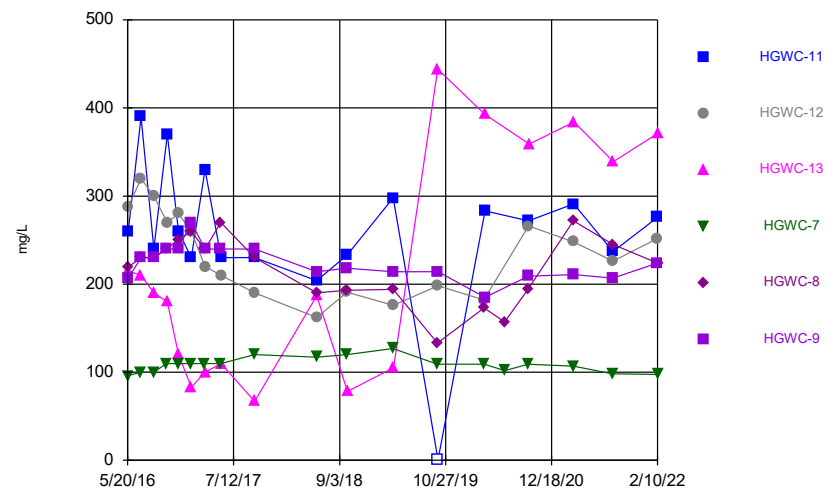
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Time Series



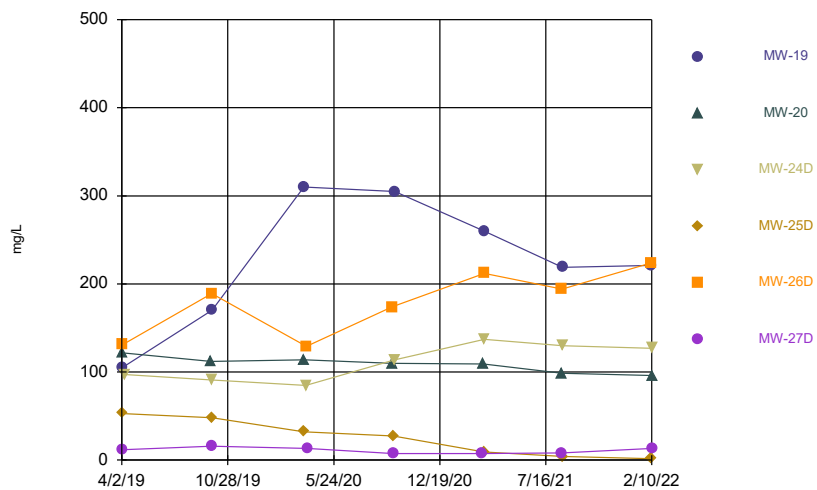
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



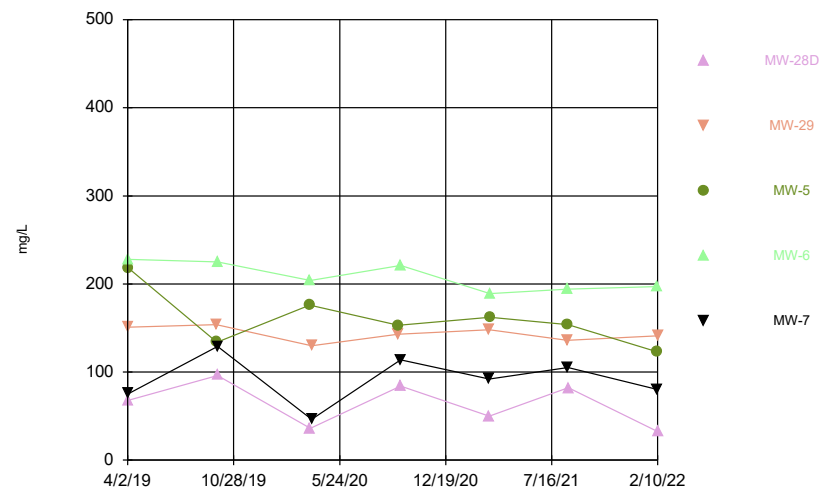
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Time Series



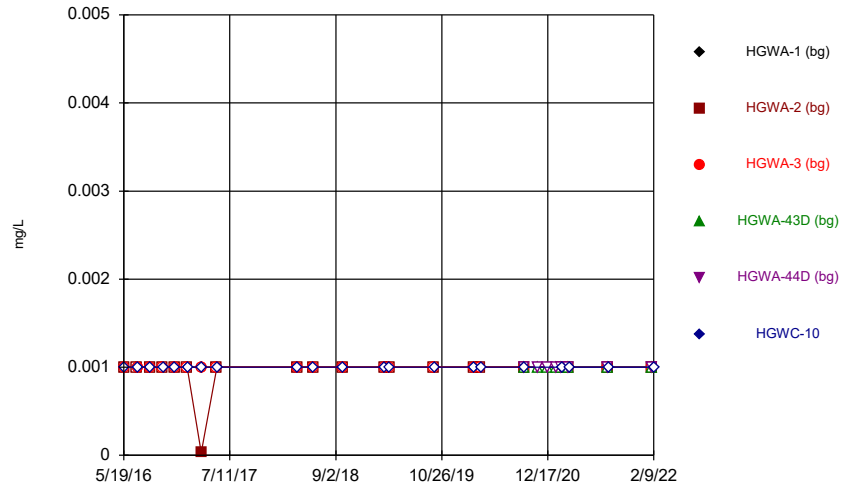
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Time Series



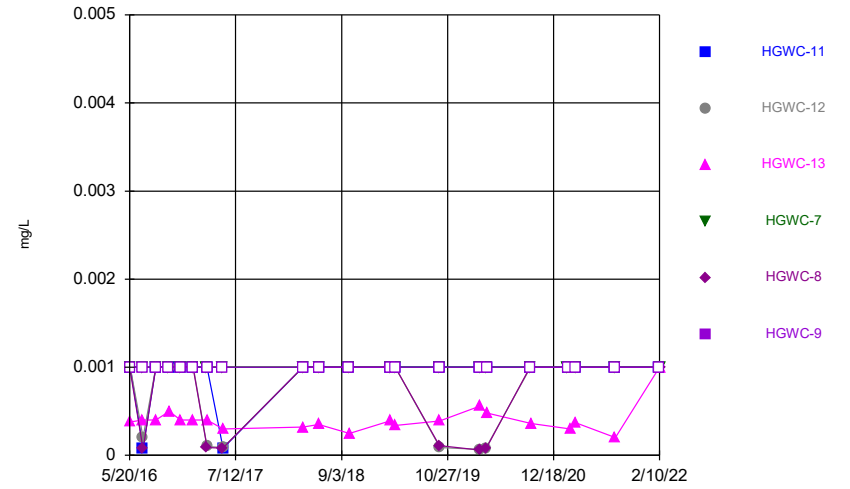
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Time Series



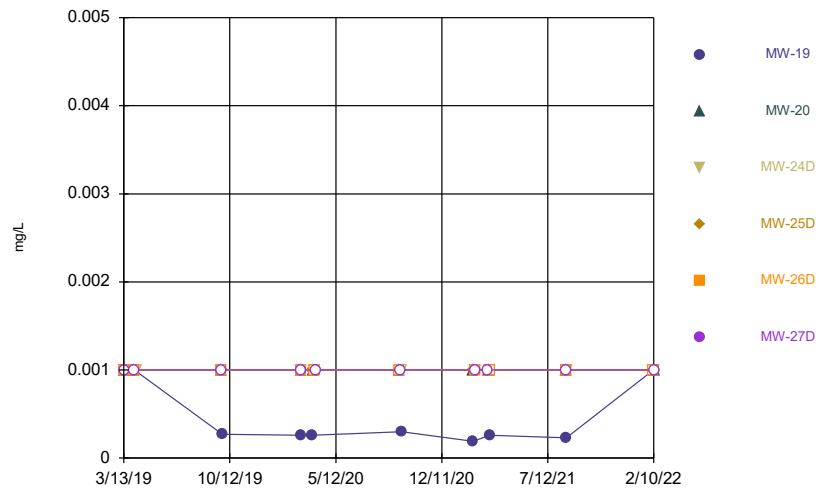
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



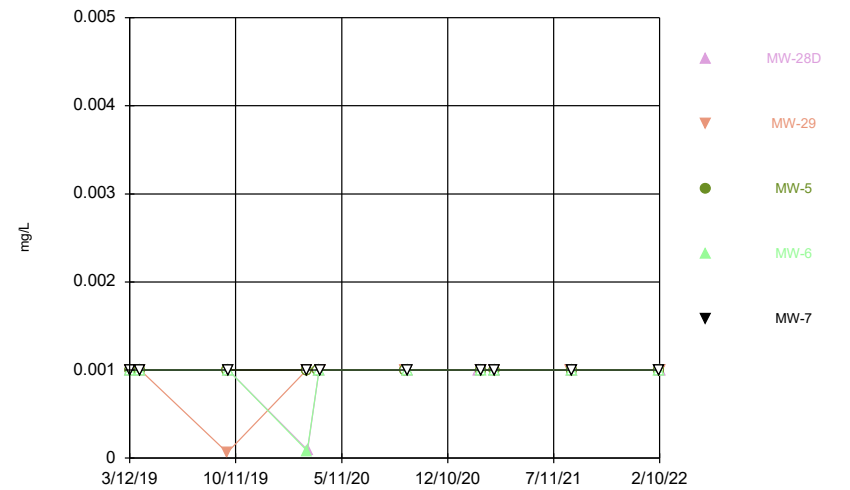
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Time Series



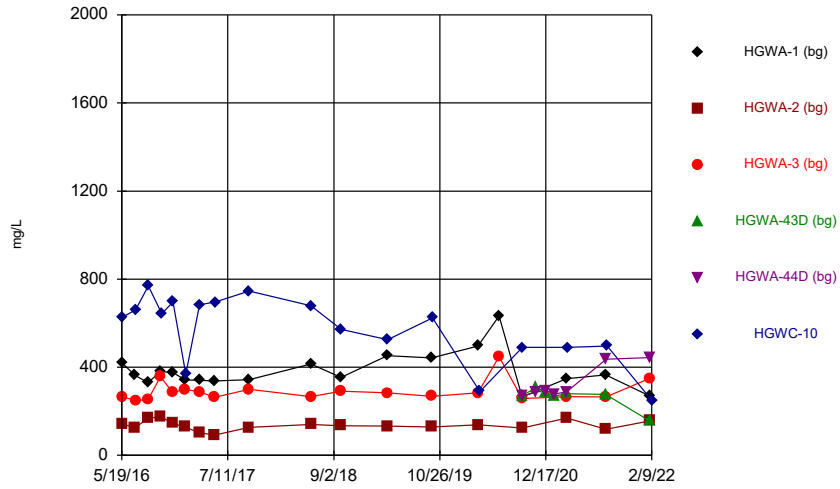
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Time Series



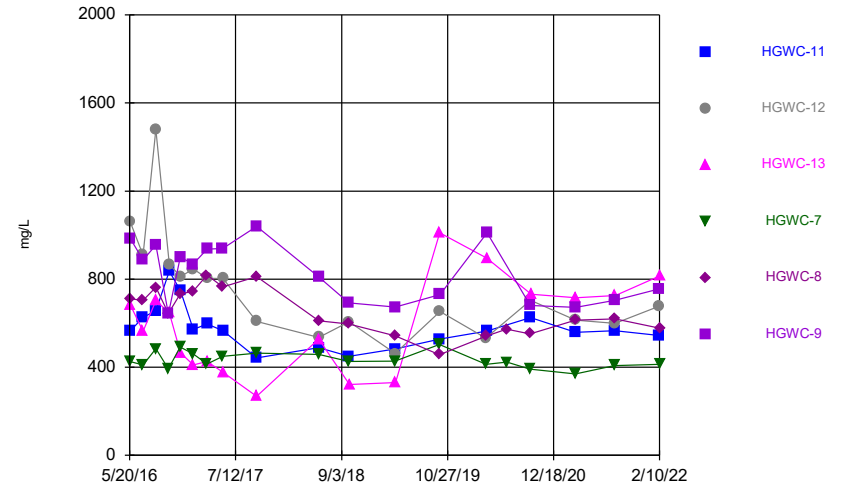
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Time Series



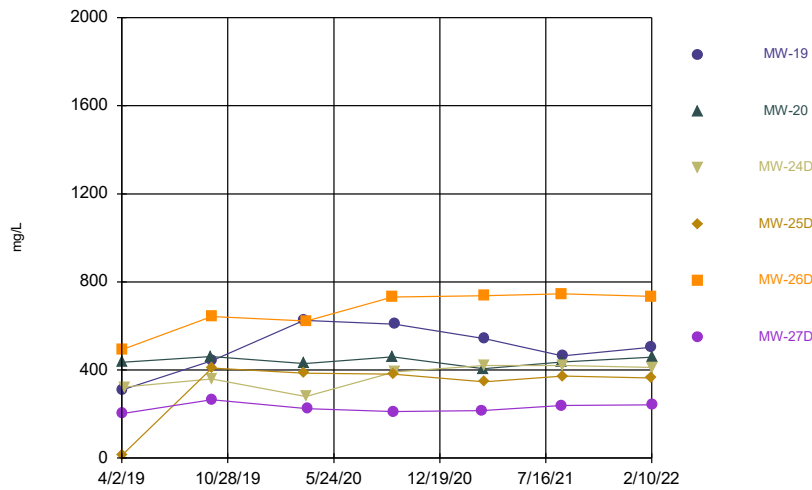
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Time Series



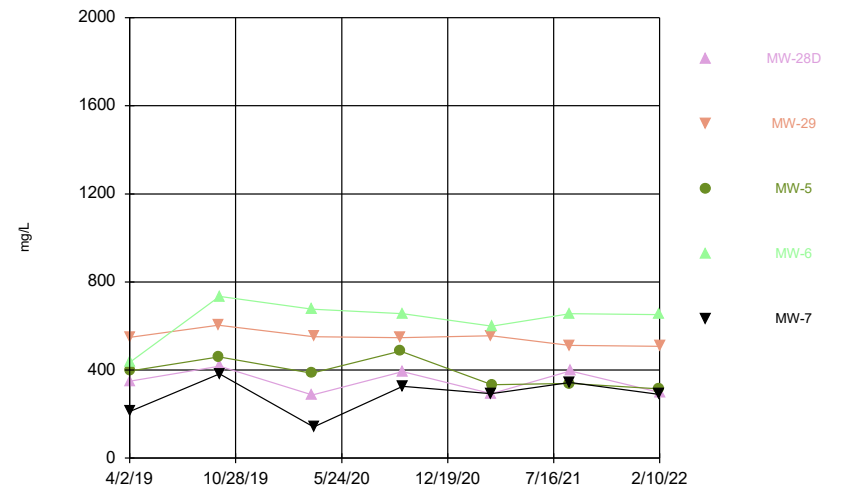
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/25/2022 2:34 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



Constituent: Total Dissolved Solids Analysis Run 4/25/2022 2:34 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.003	<0.003	<0.003			
5/23/2016						<0.003
7/11/2016	<0.003	<0.003				
7/12/2016			0.0003 (J)			<0.003
8/30/2016	<0.003	<0.003	<0.003			
9/1/2016						<0.003
10/19/2016	0.0014 (J)	<0.003	<0.003			
10/24/2016						<0.003
12/6/2016	<0.003	<0.003	<0.003			
12/7/2016						<0.003
1/24/2017	<0.003	<0.003	<0.003			
1/26/2017						<0.003
3/21/2017	<0.003	<0.003	<0.003			
3/22/2017						<0.003
5/22/2017	<0.003	<0.003	<0.003			
5/24/2017						<0.003
4/2/2018	<0.003	<0.003				
4/3/2018			<0.003			
4/4/2018						<0.003
3/12/2019	<0.003	<0.003	<0.003			
3/13/2019						<0.003
4/1/2019			<0.003			
4/2/2019	<0.003	<0.003				
4/3/2019						<0.003
9/23/2019	<0.003	<0.003	<0.003			
9/27/2019						<0.003
3/2/2020	<0.003	<0.003	<0.003			
3/3/2020						<0.003
3/25/2020	<0.003	<0.003	<0.003			
4/1/2020						<0.003
9/15/2020	<0.003	<0.003	<0.003			
9/16/2020				0.00051 (J)	0.00049 (J)	<0.003
11/10/2020				0.00043 (J)	<0.003	
12/15/2020				0.00031 (J)	0.00047 (J)	
1/19/2021				0.00029 (J)	0.00067 (JB)	
2/8/2021	<0.003					
2/9/2021		0.00062 (JB)	0.00031 (JB)	0.00037 (JB)	0.00042 (J)	
2/15/2021						0.00065 (J)
3/10/2021	<0.003				0.00037 (J)	
3/11/2021		<0.003	<0.003	0.00057 (J)		
3/12/2021						<0.003
8/11/2021	<0.003			<0.003		
8/12/2021		<0.003	<0.003			
8/13/2021					<0.003	
8/17/2021						<0.003
2/1/2022	<0.003	<0.003	<0.003	<0.003	0.0013 (J)	
2/9/2022						<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.003	<0.003	
5/23/2016	<0.003	<0.003	<0.003			<0.003
7/12/2016	<0.003	<0.003	0.0003 (J)	<0.003	<0.003	<0.003
9/1/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/20/2016				<0.003	<0.003	<0.003
10/24/2016	<0.003	<0.003	<0.003			
12/6/2016				<0.003	<0.003	<0.003
12/7/2016	<0.003	<0.003	<0.003			
1/25/2017				<0.003	<0.003	
1/26/2017	<0.003	<0.003	<0.003			<0.003
3/21/2017				<0.003	<0.003	
3/22/2017	<0.003	<0.003	<0.003			<0.003
5/23/2017				<0.003	<0.003	<0.003
5/24/2017	<0.003	<0.003	<0.003			
4/3/2018				<0.003	<0.003	<0.003
4/4/2018	<0.003	<0.003	<0.003			
3/12/2019					<0.003	
3/13/2019	<0.003		<0.003	<0.003		<0.003
3/14/2019		<0.003				
4/2/2019				<0.003		
4/3/2019	<0.003	<0.003			<0.003	<0.003
4/5/2019			0.00021 (J)			
9/24/2019					<0.003	
9/25/2019				<0.003		
9/26/2019			<0.003			
9/27/2019	<0.003	<0.003				<0.003
3/3/2020	<0.003	<0.003			<0.003	
3/4/2020			0.00061 (J)	<0.003		0.00032 (J)
3/26/2020		<0.003				
3/27/2020				<0.003	<0.003	
3/30/2020			0.00036 (J)			
3/31/2020	<0.003					0.00042 (J)
9/16/2020				0.00034 (J)	<0.003	
9/17/2020						<0.003
9/18/2020	0.00038 (J)	<0.003				
9/21/2020			0.00029 (J)			
2/10/2021				<0.003		
2/12/2021	<0.003	<0.003				
2/16/2021					0.00064 (J)	0.00043 (J)
2/22/2021			0.00047 (J)			
3/15/2021				<0.003	<0.003	
3/16/2021	<0.003	<0.003				<0.003
3/17/2021			0.00049 (J)			
8/16/2021				0.0017 (J)		
8/17/2021						<0.003
8/18/2021	<0.003	<0.003			<0.003	
8/19/2021			<0.003			
2/9/2022	<0.003	<0.003				<0.003
2/10/2022			<0.003	<0.003	<0.003	

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.003	<0.003		<0.003	<0.003
3/14/2019	<0.003			<0.003		
4/2/2019		<0.003				
4/3/2019	<0.003			<0.003	<0.003	
4/4/2019						0.00016 (J)
4/8/2019			<0.003			
9/25/2019		<0.003				
9/26/2019			<0.003		<0.003	0.0003 (J)
9/27/2019	<0.003			<0.003		
3/2/2020		<0.003				
3/3/2020				<0.003		
3/4/2020	<0.003		0.0017 (J)		0.002 (J)	0.00037 (J)
3/26/2020	<0.003			<0.003		
3/27/2020		<0.003				
3/30/2020			<0.003			
3/31/2020					0.0013 (J)	
4/2/2020						0.0003 (J)
9/17/2020		<0.003			<0.003	
9/18/2020				<0.003		0.00031 (J)
9/21/2020	<0.003		<0.003			
2/11/2021		<0.003				
2/12/2021	<0.003			<0.003		
2/16/2021			<0.003		<0.003	0.00038 (J)
3/12/2021						<0.003
3/15/2021		<0.003				
3/16/2021				<0.003		
3/17/2021	<0.003		<0.003		<0.003	
8/17/2021		<0.003			<0.003	<0.003
8/18/2021	<0.003					
8/19/2021			<0.003	<0.003		
2/9/2022	<0.003			<0.003	<0.003	
2/10/2022		<0.003	<0.003			<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.003	<0.003			
3/13/2019			<0.003	<0.003	0.00086 (J)
4/2/2019	<0.003	<0.003			
4/3/2019			<0.003	<0.003	<0.003
9/24/2019		<0.003			
9/25/2019			<0.003		
9/26/2019	<0.003			<0.003	<0.003
3/2/2020		<0.003	<0.003		
3/3/2020				<0.003	0.0013 (J)
3/4/2020	<0.003				
3/26/2020			<0.003		
3/27/2020	<0.003			<0.003	
3/30/2020		<0.003			<0.003
9/16/2020		<0.003			
9/17/2020			<0.003		
9/21/2020	<0.003			0.0014 (J)	0.00051 (J)
2/10/2021	0.0019 (J)				
2/15/2021		0.00094 (J)			0.0021 (J)
2/16/2021			<0.003	<0.003	
3/15/2021	<0.003	<0.003			<0.003
3/16/2021			<0.003	<0.003	
8/16/2021		<0.003			
8/17/2021			<0.003	<0.003	<0.003
8/18/2021	<0.003				
2/8/2022					<0.003
2/9/2022			<0.003	<0.003	
2/10/2022	<0.003	<0.003			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.005	0.00127 (J)	<0.005			
5/23/2016						<0.005
7/11/2016	<0.005	0.002 (J)				
7/12/2016			0.0008 (J)			<0.005
8/30/2016	<0.005	0.0017 (J)	<0.005			
9/1/2016						<0.005
10/19/2016	<0.005	<0.005	<0.005			
10/24/2016						<0.005
12/6/2016	<0.005	<0.005	<0.005			
12/7/2016						<0.005
1/24/2017	<0.005	<0.005	<0.005			
1/26/2017						<0.005
3/21/2017	0.0005 (J)	<0.005	0.0007 (J)			
3/22/2017						<0.005
5/22/2017	<0.005	0.0006 (J)	0.0006 (J)			
5/24/2017						<0.005
4/2/2018	<0.005	<0.005				
4/3/2018			<0.005			
4/4/2018						<0.005
6/4/2018	<0.005	0.00088 (J)	0.0008 (J)			
6/5/2018						<0.005
10/1/2018	<0.005	<0.005	0.0011 (J)			
10/2/2018						<0.005
3/12/2019	<0.005	0.00069 (J)	0.00063 (J)			
3/13/2019						<0.005
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005				
4/3/2019						<0.005
9/23/2019	0.00046 (J)	0.00067 (J)	0.0011 (J)			
9/27/2019						<0.005
3/2/2020	<0.005	0.00043 (J)	0.0004 (J)			
3/3/2020						<0.005
3/25/2020	<0.005	<0.005	<0.005			
4/1/2020						<0.005
9/15/2020	<0.005	<0.005	<0.005			
9/16/2020				<0.005	<0.005	<0.005
11/10/2020				0.0021 (J)	<0.005	
12/15/2020				<0.005	<0.005	
1/19/2021				0.0011 (J)	<0.005	
2/8/2021	<0.005					
2/9/2021		<0.005	<0.005	0.0017 (JB)	0.00083 (J)	
2/15/2021						<0.005
3/10/2021	<0.005				<0.005	
3/11/2021		<0.005	<0.005	0.0013 (J)		
3/12/2021						<0.005
8/11/2021	<0.005			0.0015 (J)		
8/12/2021		<0.005	<0.005			
8/13/2021					<0.005	
8/17/2021						<0.005
2/1/2022	0.0016 (J)	0.0023 (J)	0.0024 (J)	0.0036 (J)	0.0025 (J)	
2/9/2022						<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	<0.005	
5/23/2016	<0.005	0.0046 (J)	0.329			<0.005
7/12/2016	0.0015 (J)	0.005	0.297	<0.005	<0.005	<0.005
9/1/2016	<0.005	0.0043 (J)	0.314	<0.005	<0.005	<0.005
10/20/2016				<0.005	<0.005	<0.005
10/24/2016	<0.005	0.0049 (J)	0.334			
12/6/2016				<0.005	<0.005	<0.005
12/7/2016	<0.005	0.0046 (J)	0.35			
1/25/2017				<0.005	<0.005	
1/26/2017	<0.005	<0.005	0.424			<0.005
3/21/2017				<0.005	<0.005	
3/22/2017	0.0053	0.0019 (J)	0.419			0.0008 (J)
5/23/2017				<0.005	<0.005	<0.005
5/24/2017	<0.005	0.0022 (J)	0.393			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	0.49			
6/5/2018	0.0012 (J)		0.38	<0.005		
6/6/2018		0.0048 (J)			<0.005	<0.005
10/2/2018				0.0019 (J)	<0.005	<0.005
10/3/2018	<0.005	0.0037 (J)				
10/5/2018			0.34			
3/12/2019					<0.005	
3/13/2019	0.0024 (J)		0.42	<0.005		0.00075 (J)
3/14/2019		0.0026 (J)				
4/2/2019				<0.005		
4/3/2019	0.00094 (J)	0.0022 (J)			<0.005	<0.005
4/5/2019			0.36			
9/24/2019					<0.005	
9/25/2019				<0.005		
9/26/2019			0.44			
9/27/2019	0.0018 (J)	0.0061				0.00037 (J)
3/3/2020	0.0022 (J)	0.0023 (J)			<0.005	
3/4/2020			0.52	<0.005		<0.005
3/26/2020		0.0028 (J)				
3/27/2020				<0.005	<0.005	
3/30/2020			0.47			
3/31/2020	0.0022 (J)					<0.005
9/16/2020				<0.005	<0.005	
9/17/2020						<0.005
9/18/2020	0.00081 (J)	0.0031 (J)				
9/21/2020			0.39			
2/10/2021				<0.005		
2/12/2021	0.002 (J)	0.0045 (J)				
2/16/2021					<0.005	<0.005
2/22/2021			0.45			
3/15/2021				<0.005	<0.005	
3/16/2021	0.0017 (J)	0.0038 (J)				<0.005
3/17/2021			0.39			
8/16/2021				<0.005		
8/17/2021						<0.005
8/18/2021	<0.005	0.0028 (J)			<0.005	
8/19/2021			0.31			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.0047 (J)	0.0053				0.0021 (J)
2/10/2022			0.38	<0.005	0.002 (J)	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.0023 (J)	<0.005		<0.005	<0.005
3/14/2019	<0.005			0.0019 (J)		
4/2/2019		<0.005				
4/3/2019	<0.005			<0.005	<0.005	
4/4/2019						0.0002 (J)
4/8/2019			<0.005			
9/25/2019		<0.005				
9/26/2019			<0.005		<0.005	<0.005
9/27/2019	<0.005			0.0011 (J)		
3/2/2020		0.00038 (J)				
3/3/2020				0.001 (J)		
3/4/2020	0.00045 (J)		<0.005		0.0006 (J)	0.00069 (J)
3/26/2020	<0.005			0.00075 (J)		
3/27/2020		<0.005				
3/30/2020			<0.005			
3/31/2020					<0.005	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		<0.005
9/21/2020	<0.005		<0.005			
2/11/2021		0.00094 (J)				
2/12/2021	<0.005			<0.005		
2/16/2021			<0.005		0.0008 (J)	0.001 (J)
3/12/2021						<0.005
3/15/2021		<0.005				
3/16/2021				<0.005		
3/17/2021	<0.005		<0.005		<0.005	
8/17/2021		<0.005			<0.005	<0.005
8/18/2021	<0.005					
8/19/2021			<0.005	<0.005		
2/9/2022	<0.005			<0.005	0.0017 (J)	
2/10/2022		<0.005	<0.005			<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			<0.005	<0.005	<0.005
4/2/2019	<0.005	<0.005			
4/3/2019			<0.005	<0.005	<0.005
9/24/2019		<0.005			
9/25/2019			<0.005		
9/26/2019	<0.005			<0.005	<0.005
3/2/2020		<0.005	<0.005		
3/3/2020				<0.005	<0.005
3/4/2020	<0.005				
3/26/2020			<0.005		
3/27/2020	<0.005			<0.005	
3/30/2020		0.00037 (J)			<0.005
9/16/2020		<0.005			
9/17/2020			<0.005		
9/21/2020	<0.005			<0.005	<0.005
2/10/2021	0.0011 (J)				
2/15/2021		<0.005			<0.005
2/16/2021			<0.005	<0.005	
3/15/2021	<0.005	<0.005			<0.005
3/16/2021			<0.005	<0.005	
8/16/2021		<0.005			
8/17/2021			<0.005	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					<0.005
2/9/2022			0.0013 (J)	0.0034 (J)	
2/10/2022	<0.005	<0.005			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	0.0346	0.114	0.111			
5/23/2016						0.0877
7/11/2016	0.0311	0.112				
7/12/2016			0.115			0.0926
8/30/2016	0.0293	0.131	0.113			
9/1/2016						0.0994
10/19/2016	0.0293	0.111	0.123			
10/24/2016						0.101
12/6/2016	0.0304	0.108	0.127			
12/7/2016						0.107
1/24/2017	0.028	0.102	0.126			
1/26/2017						0.0538
3/21/2017	0.0275	0.095	0.12			
3/22/2017						0.0962
5/22/2017	0.0281	0.103	0.117			
5/24/2017						0.0996
4/2/2018	0.026	0.099				
4/3/2018			0.11			
4/4/2018						0.084
6/4/2018	0.035	0.11	0.12			
6/5/2018						0.086
10/1/2018	0.029	0.11	0.14			
10/2/2018						0.076
3/12/2019	0.042	0.12	0.13			
3/13/2019						0.044
4/1/2019			0.13			
4/2/2019	0.04	0.13				
4/3/2019						0.076
9/23/2019	0.042	0.13	0.13			
9/27/2019						0.078
3/2/2020	0.034	0.11	0.14			
3/3/2020						0.048
3/25/2020	0.043	0.12	0.13			
4/1/2020						0.058
9/15/2020	0.035	0.12	0.12			
9/16/2020				0.26	0.24	0.068
11/10/2020				0.25	0.38	
12/15/2020				0.29	0.39	
1/19/2021				0.32	0.41	
2/8/2021	0.032					
2/9/2021		0.12	0.13	0.34	0.46	
2/15/2021						0.06
3/10/2021	0.03				0.26	
3/11/2021		0.07	0.13	0.32		
3/12/2021						0.058
8/11/2021	0.03			0.28		
8/12/2021		0.12	0.11			
8/13/2021					0.22	
8/17/2021						0.055
2/1/2022	0.031	0.13	0.12	0.29	0.23	
2/9/2022						0.042

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.0687	0.0808	
5/23/2016	0.0466	0.133	0.0779			0.117
7/12/2016	0.0616	0.135	0.0697	0.0731	0.083	0.13
9/1/2016	0.0497	0.123	0.07	0.0747	0.0829	0.13
10/20/2016				0.072	0.0811	0.0806
10/24/2016	0.0794	0.135	0.0882			
12/6/2016				0.0752	0.0845	0.128
12/7/2016	0.1	0.13	0.0798			
1/25/2017				0.0747	0.078	
1/26/2017	0.0696	0.127	0.0738			0.142
3/21/2017				0.0722	0.0791	
3/22/2017	0.0346	0.112	0.0755			0.122
5/23/2017				0.0794	0.0846	0.127
5/24/2017	0.0437	0.106	0.0627			
4/3/2018				0.075	0.065	0.1
4/4/2018	0.029	0.083	0.099			
6/5/2018	0.039		0.13	0.071		
6/6/2018		0.09			0.063	0.11
10/2/2018				0.078	0.061	0.11
10/3/2018	0.033	0.087				
10/5/2018			0.076			
3/12/2019					0.062	
3/13/2019	0.024		0.1	0.083		0.1
3/14/2019		0.081				
4/2/2019				0.072		
4/3/2019	0.023	0.077			0.066	0.12
4/5/2019			0.079			
9/24/2019					0.053	
9/25/2019				0.061		
9/26/2019			0.11			
9/27/2019	0.033	0.096				0.11
3/3/2020	0.022	0.092			0.052	
3/4/2020			0.1	0.068		0.11
3/26/2020		0.089				
3/27/2020				0.059	0.059	
3/30/2020			0.08			
3/31/2020	0.026					0.11
9/16/2020				0.068	0.06	
9/17/2020						0.11
9/18/2020	0.043	0.086				
9/21/2020			0.052			
2/10/2021				0.069		
2/12/2021	0.039	0.09				
2/16/2021					0.069	0.11
2/22/2021			0.061			
3/15/2021				0.074	0.063	
3/16/2021	0.035	0.084				0.11
3/17/2021			0.056			
8/16/2021				0.068		
8/17/2021						0.095
8/18/2021	0.04	0.083			0.062	
8/19/2021			0.049			

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.042	0.075				0.096
2/10/2022			0.053	0.063	0.056	

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.087	0.053		0.099	1.5
3/14/2019	0.06			0.44		
4/2/2019		0.08				
4/3/2019	0.05			0.38	0.12	
4/4/2019						1.2
4/8/2019			0.043			
9/25/2019		0.085				
9/26/2019			0.12		0.12	0.95
9/27/2019	0.068			0.39		
3/2/2020		0.099				
3/3/2020				0.42		
3/4/2020	0.069		0.081		0.17	0.95
3/26/2020	0.067			0.45		
3/27/2020		0.093				
3/30/2020			0.056			
3/31/2020					0.11	
4/2/2020						1
9/17/2020		0.096			0.099	
9/18/2020				0.44		1
9/21/2020	0.056		0.053			
2/11/2021		0.093				
2/12/2021	0.051			0.46		
2/16/2021			0.062		0.093	1
3/12/2021						1.1
3/15/2021		0.096				
3/16/2021				0.51		
3/17/2021	0.049		0.055		0.094	
8/17/2021		0.089			0.072	1.1
8/18/2021	0.045					
8/19/2021			0.048	0.58		
2/9/2022	0.042			0.6	0.066	
2/10/2022		0.082	0.048			0.99

Time Series

Constituent: Barium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.82	0.089			
3/13/2019			0.056	0.1	0.063
4/2/2019	0.37	0.078			
4/3/2019			0.049	0.09	0.058
9/24/2019		0.081			
9/25/2019			0.046		
9/26/2019	0.15			0.089	0.066
3/2/2020		0.088	0.049		
3/3/2020				0.09	0.043
3/4/2020	0.77				
3/26/2020			0.046		
3/27/2020	0.64			0.086	
3/30/2020		0.08			0.05
9/16/2020		0.076			
9/17/2020			0.043		
9/21/2020	0.18			0.083	0.065
2/10/2021	0.26				
2/15/2021		0.081			0.048
2/16/2021			0.05	0.085	
3/15/2021	0.45	0.078			0.053
3/16/2021			0.046	0.081	
8/16/2021		0.074			
8/17/2021			0.045	0.081	0.057
8/18/2021	0.53				
2/8/2022					0.053
2/9/2022			0.042	0.074	
2/10/2022	0.76	0.072			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.0005	<0.0005	<0.0005			
5/23/2016						<0.0005
7/11/2016	<0.0005	0.0001 (J)				
7/12/2016			<0.0005			<0.0005
8/30/2016	<0.0005	<0.0005	<0.0005			
9/1/2016						<0.0005
10/19/2016	<0.0005	0.0001 (J)	<0.0005			
10/24/2016						<0.0005
12/6/2016	<0.0005	0.0002 (J)	<0.0005			
12/7/2016						<0.0005
1/24/2017	<0.0005	0.0001 (J)	<0.0005			
1/26/2017						<0.0005
3/21/2017	<0.0005	0.0001 (J)	<0.0005			
3/22/2017						<0.0005
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/24/2017						<0.0005
4/2/2018	<0.0005	<0.0005				
4/3/2018			<0.0005			
4/4/2018						<0.0005
3/12/2019	<0.0005	0.00017 (J)	<0.0005			
3/13/2019						<0.0005
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)				
4/3/2019						<0.0005
9/23/2019	<0.0005	0.00011 (J)	<0.0005			
9/27/2019						<0.0005
3/2/2020	<0.0005	0.00014 (J)	<0.0005			
3/3/2020						<0.0005
3/25/2020	<0.0005	0.00016 (J)	<0.0005			
4/1/2020						<0.0005
9/15/2020	<0.0005	0.00013 (J)	<0.0005			
9/16/2020				<0.0005	<0.0005	<0.0005
11/10/2020				<0.0005	<0.0005	
12/15/2020				<0.0005	<0.0005	
1/19/2021				<0.0005	<0.0005	
2/8/2021	<0.0005					
2/9/2021		0.00014 (J)	<0.0005	<0.0005	<0.0005	
2/15/2021						<0.0005
3/10/2021	<0.0005				<0.0005	
3/11/2021		8.6E-05 (J)	<0.0005	<0.0005		
3/12/2021						<0.0005
8/11/2021	<0.0005			<0.0005		
8/12/2021		0.00014 (J)	<0.0005			
8/13/2021					<0.0005	
8/17/2021						<0.0005
2/1/2022	<0.0005	0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/9/2022						<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0005	<0.0005	
5/23/2016	<0.0005	<0.0005	<0.0005			<0.0005
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
9/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10/20/2016				<0.0005	<0.0005	<0.0005
10/24/2016	<0.0005	<0.0005	<0.0005			
12/6/2016				<0.0005	<0.0005	<0.0005
12/7/2016	<0.0005	<0.0005	<0.0005			
1/25/2017				<0.0005	<0.0005	
1/26/2017	<0.0005	<0.0005	<0.0005			<0.0005
3/21/2017				<0.0005	<0.0005	
3/22/2017	9E-05 (J)	<0.0005	<0.0005			<0.0005
5/23/2017				<0.0005	<0.0005	<0.0005
5/24/2017	<0.0005	<0.0005	<0.0005			
4/3/2018				<0.0005	<0.0005	<0.0005
4/4/2018	<0.0005	<0.0005	<0.0005			
3/12/2019					<0.0005	
3/13/2019	0.0001 (J)		6.2E-05 (J)	<0.0005		<0.0005
3/14/2019		<0.0005				
4/2/2019				<0.0005		
4/3/2019	0.00017 (J)	<0.0005			7.4E-05 (J)	<0.0005
4/5/2019			<0.0005			
9/24/2019					<0.0005	
9/25/2019				<0.0005		
9/26/2019			0.00011 (J)			
9/27/2019	8.6E-05 (J)	<0.0005				<0.0005
3/3/2020	0.00012 (J)	<0.0005			<0.0005	
3/4/2020			9.3E-05 (J)	7.7E-05 (J)		<0.0005
3/26/2020		<0.0005				
3/27/2020				<0.0005	<0.0005	
3/30/2020			9.9E-05 (J)			
3/31/2020	0.00015 (J)					<0.0005
9/16/2020				<0.0005	0.0001 (J)	
9/17/2020						<0.0005
9/18/2020	<0.0005	<0.0005				
9/21/2020			0.00011 (J)			
2/10/2021				8.1E-05 (J)		
2/12/2021	<0.0005	<0.0005				
2/16/2021					7.1E-05 (J)	<0.0005
2/22/2021			9.7E-05 (J)			
3/15/2021				0.00019 (J)	7.8E-05 (J)	
3/16/2021	8.1E-05 (J)	<0.0005				<0.0005
3/17/2021			9E-05 (J)			
8/16/2021				<0.0005		
8/17/2021						<0.0005
8/18/2021	<0.0005	<0.0005			8.7E-05 (J)	
8/19/2021			7.3E-05 (J)			
2/9/2022	<0.0005	<0.0005				<0.0005
2/10/2022			<0.0005	<0.0005	7.1E-05 (J)	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.0005	<0.0005		<0.0005	<0.0005
3/14/2019	<0.0005			<0.0005		
4/2/2019		<0.0005				
4/3/2019	<0.0005			<0.0005	<0.0005	
4/4/2019						<0.0005
4/8/2019			<0.0005			
9/25/2019		<0.0005				
9/26/2019			<0.0005		<0.0005	<0.0005
9/27/2019	<0.0005			<0.0005		
3/2/2020		<0.0005				
3/3/2020				<0.0005		
3/4/2020	<0.0005		<0.0005		<0.0005	<0.0005
3/26/2020	<0.0005			<0.0005		
3/27/2020		<0.0005				
3/30/2020			<0.0005			
3/31/2020					<0.0005	
4/2/2020						<0.0005
9/17/2020		<0.0005			<0.0005	
9/18/2020				<0.0005		<0.0005
9/21/2020	<0.0005		<0.0005			
2/11/2021		<0.0005				
2/12/2021	<0.0005			<0.0005		
2/16/2021			<0.0005		<0.0005	<0.0005
3/12/2021						<0.0005
3/15/2021		<0.0005				
3/16/2021				<0.0005		
3/17/2021	<0.0005		<0.0005		<0.0005	
8/17/2021		<0.0005			<0.0005	<0.0005
8/18/2021	5.8E-05 (J)					
8/19/2021			<0.0005	<0.0005		
2/9/2022	<0.0005			<0.0005	<0.0005	
2/10/2022		<0.0005	<0.0005			<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.0005	<0.0005			
3/13/2019			<0.0005	<0.0005	<0.0005
4/2/2019	<0.0005	<0.0005			
4/3/2019			<0.0005	<0.0005	5.1E-05 (J)
9/24/2019		<0.0005			
9/25/2019			<0.0005		
9/26/2019	<0.0005			<0.0005	<0.0005
3/2/2020		<0.0005	<0.0005		
3/3/2020				<0.0005	<0.0005
3/4/2020	0.00014 (J)				
3/26/2020			<0.0005		
3/27/2020	<0.0005			<0.0005	
3/30/2020		<0.0005			<0.0005
9/16/2020		<0.0005			
9/17/2020			<0.0005		
9/21/2020	<0.0005			<0.0005	<0.0005
2/10/2021	5.4E-05 (J)				
2/15/2021		<0.0005			<0.0005
2/16/2021			<0.0005	<0.0005	
3/15/2021	4.8E-05 (J)	<0.0005			<0.0005
3/16/2021			<0.0005	<0.0005	
8/16/2021		<0.0005			
8/17/2021			<0.0005	<0.0005	<0.0005
8/18/2021	<0.0005				
2/8/2022					<0.0005
2/9/2022			<0.0005	<0.0005	
2/10/2022	<0.0005	<0.0005			

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	0.0214 (J)	0.0321 (J)	<0.04			
5/23/2016						0.72
7/11/2016	0.0142 (J)	0.0337 (J)				
7/12/2016			0.0074 (J)			0.778
8/30/2016	0.0074 (J)	0.0173 (J)	<0.04			
9/1/2016						0.786
10/19/2016	0.0224 (J)	0.0341 (J)	0.0085 (J)			
10/24/2016						0.831
12/6/2016	0.0211 (J)	0.0326 (J)	0.0085 (J)			
12/7/2016						1.01
1/24/2017	0.0165 (J)	0.0365 (J)	0.01 (J)			
1/26/2017						0.108
3/21/2017	0.0187 (J)	0.0349 (J)	0.0079 (J)			
3/22/2017						0.788
5/22/2017	0.0782	0.0475	0.0131 (J)			
5/24/2017						0.814
10/3/2017	0.0198 (J)	0.0386 (J)	0.0097 (J)			0.871
6/4/2018	0.02 (J)	0.036 (J)	0.017 (J)			
6/5/2018						1.2
10/1/2018	0.013 (J)	0.035 (J)	0.0061 (J)			
10/2/2018						0.62
4/1/2019			0.0066 (J)			
4/2/2019	0.016 (J)	0.034 (J)				
4/3/2019						0.66
9/23/2019	0.021 (J)	0.04 (J)	0.0081 (J)			
9/27/2019						1
3/25/2020	0.025 (J)	0.039 (J)	0.0096 (J)			
4/1/2020						0.23
6/16/2020	0.021 (J)		0.01 (J)			
9/15/2020	0.017 (J)	0.044 (J)	0.0071 (J)			
9/16/2020				0.061 (J)	0.23	1.1
11/10/2020				0.057 (J)	0.29	
12/15/2020				0.052 (J)	0.31	
1/19/2021				0.049 (J)	0.4	
3/10/2021	0.015 (J)				0.39	
3/11/2021		0.056	0.015 (J)	0.06		
3/12/2021						0.64
8/11/2021	0.02 (J)			0.042		
8/12/2021		0.044	<0.04			
8/13/2021					0.31	
8/17/2021						0.88
2/1/2022	0.016 (J)	0.056	0.011 (J)	0.05	0.44	
2/9/2022						0.1

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.885	1.71	
5/23/2016	0.787	2.2	2.15			1.76
7/12/2016	1.17	1.98	1.91	0.857	1.43	1.56
9/1/2016	1.49	2.28	2.3	0.904	1.91	2
10/20/2016				0.936	1.72	1.68
10/24/2016	2.54	2.75	4.01			
12/6/2016				1.06	2.06	2.15
12/7/2016	2.96	3.35	3.85			
1/25/2017				0.764	2.01	
1/26/2017	2.23	3.07	2.45			1.87
3/21/2017				0.857	2.08	
3/22/2017	0.84	3.04	1.99			1.99
5/23/2017				0.91	2.32	2.29
5/24/2017	2.29	2.95	1.74			
10/3/2017	1.47	2.35	1.43	0.967	2.84	2.05
6/5/2018	1.3		1.3	0.86		
6/6/2018		2.5			2.6	2.3
10/2/2018				0.98	2.7	2.5
10/3/2018	0.91	2.3				
10/5/2018			1.6			
4/2/2019				0.99		
4/3/2019	0.23	1.8			2.8	2.3
4/5/2019			0.86 (J)			
9/24/2019					2.8	
9/25/2019				1.1		
9/26/2019			1.7			
9/27/2019	0.53	2.1				2.9
3/26/2020		1.6				
3/27/2020				1.2	2.4	
3/30/2020			1.8			
3/31/2020	0.17					2.2
6/16/2020					2.2	
6/17/2020				1		
9/16/2020				1.1	1.9	
9/17/2020						2
9/18/2020	0.91	1.6				
9/21/2020			1.6			
3/15/2021				1.1	1.7	
3/16/2021	0.53	1.9				2.2
3/17/2021			0.89			
8/16/2021				1.1		
8/17/2021						2.3
8/18/2021	0.91	1.9			1.8	
8/19/2021			0.73			
2/9/2022	1	2				2.3
2/10/2022			1	1.3	1.7	

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		0.11				
4/3/2019	0.63			0.37	1.5	
4/4/2019						0.12 (J)
4/8/2019			0.47 (J)			
9/25/2019		0.091				
9/26/2019			0.49		2	0.14
9/27/2019	0.58			0.36		
3/26/2020	1			0.44		
3/27/2020		0.12				
3/30/2020			0.51			
3/31/2020					1.8	
4/2/2020						0.13
9/17/2020		0.11			2	
9/18/2020				0.36		0.12
9/21/2020	0.89		0.45			
3/12/2021						0.13
3/15/2021		0.12				
3/16/2021				0.4		
3/17/2021	0.69		0.49		2.1	
8/17/2021		0.11			2.2	0.14
8/18/2021	0.55					
8/19/2021			0.52	0.4		
2/9/2022	0.49			0.43	2.3	
2/10/2022		0.13	0.55			0.13

Time Series

Constituent: Boron (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	0.17	1.2			
4/3/2019			0.03 (J)	0.67	0.094
9/24/2019		1.2			
9/25/2019			0.11		
9/26/2019	0.6			0.93	0.26
3/26/2020			0.041 (J)		
3/27/2020	0.14			0.77	
3/30/2020		1.3			0.051 (J)
9/16/2020		1.7			
9/17/2020			0.067 (J)		
9/21/2020	0.45			0.82	0.2
3/15/2021	0.36	1.2			0.16
3/16/2021			0.037 (J)	0.81	
8/16/2021		1.1			
8/17/2021			0.026 (J)	0.85	0.2
8/18/2021	0.72				
2/8/2022					0.19
2/9/2022			0.042	0.96	
2/10/2022	0.23	1.4			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.0005	<0.0005	<0.0005			
5/23/2016						0.000115 (J)
7/11/2016	<0.0005	<0.0005				
7/12/2016			<0.0005			<0.0005
8/30/2016	<0.0005	<0.0005	<0.0005			
9/1/2016						0.0001 (J)
10/19/2016	<0.0005	<0.0005	<0.0005			
10/24/2016						0.0001 (J)
12/6/2016	<0.0005	<0.0005	<0.0005			
12/7/2016						0.0001 (J)
1/24/2017	<0.0005	0.0001 (J)	<0.0005			
1/26/2017						<0.0005
3/21/2017	<0.0005	7E-05 (J)	<0.0005			
3/22/2017						0.0001 (J)
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/24/2017						0.0002 (J)
4/2/2018	<0.0005	<0.0005				
4/3/2018			<0.0005			
4/4/2018						<0.0005
3/12/2019	<0.0005	0.00013 (J)	<0.0005			
3/13/2019						<0.0005
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)				
4/3/2019						0.0001 (J)
9/23/2019	<0.0005	<0.0005	<0.0005			
9/27/2019						<0.0005
3/2/2020	<0.0005	<0.0005	<0.0005			
3/3/2020						<0.0005
3/25/2020	<0.0005	0.00014 (J)	<0.0005			
4/1/2020						<0.0005
9/15/2020	<0.0005	0.00012 (J)	<0.0005			
9/16/2020				<0.0005	<0.0005	<0.0005
11/10/2020				<0.0005	<0.0005	
12/15/2020				<0.0005	<0.0005	
1/19/2021				<0.0005	<0.0005	
2/8/2021	<0.0005					
2/9/2021		0.00016 (J)	<0.0005	<0.0005	<0.0005	
2/15/2021						<0.0005
3/10/2021	<0.0005				<0.0005	
3/11/2021		<0.0005	<0.0005	<0.0005		
3/12/2021						<0.0005
8/11/2021	<0.0005			<0.0005		
8/12/2021		0.00014 (J)	<0.0005			
8/13/2021					<0.0005	
8/17/2021						<0.0005
2/1/2022	<0.0005	0.00017 (J)	<0.0005	<0.0005	<0.0005	
2/9/2022						<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0005	0.00024 (J)	
5/23/2016	<0.0005	<0.0005	<0.0005			<0.0005
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005	0.0002 (J)	<0.0005
9/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	0.0001 (J)	<0.0005
10/20/2016				<0.0005	0.0001 (J)	0.0002 (J)
10/24/2016	<0.0005	<0.0005	<0.0005			
12/6/2016				0.0002 (J)	0.0017	0.0001 (J)
12/7/2016	0.0001 (J)	0.0002 (J)	<0.0005			
1/25/2017				0.0002 (J)	0.0002 (J)	
1/26/2017	<0.0005	<0.0005	<0.0005			<0.0005
3/21/2017				0.0002 (J)	0.0002 (J)	
3/22/2017	0.0001 (J)	0.0003 (J)	<0.0005			7E-05 (J)
5/23/2017				0.0001 (J)	0.0003 (J)	<0.0005
5/24/2017	<0.0005	9E-05 (J)	<0.0005			
4/3/2018				<0.0005	<0.0005	<0.0005
4/4/2018	<0.0005	<0.0005	<0.0005			
3/12/2019					0.0002 (J)	
3/13/2019	<0.0005		<0.0005	<0.0005		<0.0005
3/14/2019		<0.0005				
4/2/2019				<0.0005		
4/3/2019	9.6E-05 (J)	<0.0005			0.00032 (J)	<0.0005
4/5/2019			<0.0005			
9/24/2019					0.0002 (J)	
9/25/2019				<0.0005		
9/26/2019			<0.0005			
9/27/2019	<0.0005	<0.0005				<0.0005
3/3/2020	<0.0005	0.00015 (J)			0.00017 (J)	
3/4/2020			<0.0005	<0.0005		<0.0005
3/26/2020		<0.0005				
3/27/2020				<0.0005	0.00014 (J)	
3/30/2020			<0.0005			
3/31/2020	<0.0005					<0.0005
9/16/2020				<0.0005	0.00023 (J)	
9/17/2020						<0.0005
9/18/2020	<0.0005	<0.0005				
9/21/2020			<0.0005			
2/10/2021				<0.0005		
2/12/2021	<0.0005	<0.0005				
2/16/2021					0.00037 (J)	<0.0005
2/22/2021			<0.0005			
3/15/2021				<0.0005	0.00017 (J)	
3/16/2021	<0.0005	<0.0005				<0.0005
3/17/2021			<0.0005			
8/16/2021				<0.0005		
8/17/2021						<0.0005
8/18/2021	<0.0005	<0.0005			0.0002 (J)	
8/19/2021			<0.0005			
2/9/2022	<0.0005	<0.0005				<0.0005
2/10/2022			<0.0005	<0.0005	0.00029 (J)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.0005	<0.0005		<0.0005	<0.0005
3/14/2019	<0.0005			<0.0005		
4/2/2019		<0.0005				
4/3/2019	<0.0005			<0.0005	<0.0005	
4/4/2019						<0.0005
4/8/2019			<0.0005			
9/25/2019		<0.0005				
9/26/2019			<0.0005		<0.0005	<0.0005
9/27/2019	0.00013 (J)			<0.0005		
3/2/2020		<0.0005				
3/3/2020				<0.0005		
3/4/2020	0.00026 (J)		<0.0005		<0.0005	<0.0005
3/26/2020	0.00019 (J)			<0.0005		
3/27/2020		<0.0005				
3/30/2020			<0.0005			
3/31/2020					<0.0005	
4/2/2020						<0.0005
9/17/2020		<0.0005			<0.0005	
9/18/2020				<0.0005		<0.0005
9/21/2020	0.00018 (J)		<0.0005			
2/11/2021		<0.0005				
2/12/2021	0.0002 (J)			<0.0005		
2/16/2021			<0.0005		<0.0005	<0.0005
3/12/2021						<0.0005
3/15/2021		<0.0005				
3/16/2021				<0.0005		
3/17/2021	0.00016 (J)		<0.0005		<0.0005	
8/17/2021		<0.0005			<0.0005	<0.0005
8/18/2021	0.00027 (J)					
8/19/2021			<0.0005	<0.0005		
2/9/2022	0.0011			<0.0005	<0.0005	
2/10/2022		<0.0005	<0.0005			<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.0005	<0.0005			
3/13/2019			<0.0005	<0.0005	<0.0005
4/2/2019	<0.0005	<0.0005			
4/3/2019			<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005			
9/25/2019			<0.0005		
9/26/2019	<0.0005			<0.0005	<0.0005
3/2/2020		<0.0005	<0.0005		
3/3/2020				<0.0005	<0.0005
3/4/2020	<0.0005				
3/26/2020			<0.0005		
3/27/2020	<0.0005			<0.0005	
3/30/2020		<0.0005			<0.0005
9/16/2020		<0.0005			
9/17/2020			<0.0005		
9/21/2020	<0.0005			<0.0005	<0.0005
2/10/2021	<0.0005				
2/15/2021		<0.0005			<0.0005
2/16/2021			<0.0005	<0.0005	
3/15/2021	<0.0005	<0.0005			<0.0005
3/16/2021			<0.0005	<0.0005	
8/16/2021		<0.0005			
8/17/2021			<0.0005	<0.0005	<0.0005
8/18/2021	<0.0005				
2/8/2022					<0.0005
2/9/2022			<0.0005	<0.0005	
2/10/2022	<0.0005	<0.0005			

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	138	22.9	76.2			
5/23/2016						167
7/11/2016	97.2	22.3				
7/12/2016			61.5			143
8/30/2016	97.5	26.4	65.1			
9/1/2016						156
10/19/2016	99.2	21.7	73.2			
10/24/2016						156
12/6/2016	105	18.2	74.9			
12/7/2016						183
1/24/2017	95.7	18.5	69.6			
1/26/2017						82.6
3/21/2017	106	18.6	75.7			
3/22/2017						154
5/22/2017	107	17.8	71.5			
5/24/2017						171
10/3/2017	102	20.2	76.3			162
6/4/2018	124	19.1	73.4			
6/5/2018						167
10/1/2018	108	20.5 (J)	80.9			
10/2/2018						144
4/1/2019			80.5			
4/2/2019	132	22.5 (J)				
4/3/2019						137
9/23/2019	118	19.5	71			
9/27/2019						157
3/25/2020	127	23	89.8			
4/1/2020						96.2
6/16/2020	130		85.1			
9/15/2020	103	21.1	73.1			
9/16/2020				56	30	139
11/10/2020				63.3	33.6	
12/15/2020				62.6	28.7	
1/19/2021				60.1	33	
3/10/2021	111				5.9	
3/11/2021		43.8	83.8	59.6		
3/12/2021						146 (M1)
8/11/2021	113			61		
8/12/2021		21.9	84			
8/13/2021					28.9	
8/17/2021						153
2/1/2022	106	27.2	85.1	55.9	24.8	
2/9/2022						76.8

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				117	159	
5/23/2016	131	195	133			179
7/12/2016	124	181	101	88.8	127	174
9/1/2016	107	179	120	96.3	135	170
10/20/2016				96.9	134	133
10/24/2016	145	193	127			
12/6/2016				104	142	181
12/7/2016	159	193	113			
1/25/2017				94.5	142	
1/26/2017	121	172	77.9			175
3/21/2017				109	148	
3/22/2017	130	162	85.1			183
5/23/2017				93.3	140	181
5/24/2017	117	158	77.1			
10/3/2017	87.7	130	62	108	158	188
6/5/2018	113		110	99.8		
6/6/2018		136			127	184
10/2/2018				108	118	173
10/3/2018	89	125				
10/5/2018			73.6			
4/2/2019				101		
4/3/2019	112	114			125	164
4/5/2019			77.1			
9/24/2019					113	
9/25/2019				105		
9/26/2019			195			
9/27/2019	113	153				175
3/26/2020		145				
3/27/2020				119	133	
3/30/2020			234			
3/31/2020	124					182
6/16/2020					120	
6/17/2020				112		
9/16/2020				98	119	
9/17/2020						164
9/18/2020	122	163				
9/21/2020			173			
3/15/2021				113	156	
3/16/2021	132	166				182
3/17/2021			184			
8/16/2021				112		
8/17/2021						183
8/18/2021	128	163			147	
8/19/2021			179			
2/9/2022	144	172				183
2/10/2022			206	108	153	

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		109				
4/3/2019	74.9			25.4	122	
4/4/2019						26.3
4/8/2019			83			
9/25/2019		113				
9/26/2019			83.1		158	32.1
9/27/2019	90			26.4		
3/26/2020	171			27		
3/27/2020		126				
3/30/2020			84.4			
3/31/2020					155	
4/2/2020						28.4
9/17/2020		110			150	
9/18/2020				25.1		24.8
9/21/2020	135		87.6			
3/12/2021						28
3/15/2021		121				
3/16/2021				24.8		
3/17/2021	130		102		175	
8/17/2021		123			177	28.5
8/18/2021	125					
8/19/2021			99.5	23.8		
2/9/2022	97.6			23.5	176	
2/10/2022		123	110			31.4

Time Series

Constituent: Calcium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	64.6	131			
4/3/2019			82	178	50.2
9/24/2019		140			
9/25/2019			105		
9/26/2019	84			189	83.9
3/26/2020			89.6		
3/27/2020	53			186	
3/30/2020		148			31.1
9/16/2020		126			
9/17/2020			103		
9/21/2020	76.8			173	75.3
3/15/2021	66.1	145			76.9
3/16/2021			71.8	184	
8/16/2021		140			
8/17/2021			73.3	181	90.7
8/18/2021	82.8				
2/8/2022					73.3
2/9/2022			68.1	178	
2/10/2022	58.5	156			

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	9.94	6.14	5.93			
5/23/2016						56.1
7/11/2016	6.3	5.9				
7/12/2016			6.2			63
8/30/2016	6	6.2	6.4			
9/1/2016						77
10/19/2016	5.8	6.1	6.5			
10/24/2016						99
12/6/2016	5.4	6	7.2			
12/7/2016						96
1/24/2017	5.2	6.1	6.4			
1/26/2017						7
3/21/2017	4.6	5.9	7.5			
3/22/2017						82
5/22/2017	4.6	5.9	6.5			
5/24/2017						81
10/3/2017	5.6	6.3	6.5			100
6/4/2018	13.1	6.1	6.3			
6/5/2018						66.6
10/1/2018	6.6	6.4	6.4			
10/2/2018						48.3
4/1/2019			6.5			
4/2/2019	20.3	5.8				
4/3/2019						49.3
9/23/2019	17.7	5.1	5.9			
9/27/2019						49.9
3/25/2020	20.4	5.2	6.1			
4/1/2020						5.4
6/16/2020	41.1		5.8			
9/15/2020	13.4	5	6			
9/16/2020				4.1	7.2	39.7
11/10/2020				4.4	7.8	
12/15/2020				4.7	9.4	
1/19/2021				4.1	9.5	
3/10/2021	7.4				12.3	
3/11/2021		5.1	5.9	4.5		
3/12/2021						35
8/11/2021	9.6			3.5		
8/12/2021		5.2	4.8			
8/13/2021					39.9	
8/17/2021						28.3
2/1/2022	7.5	7	5.7	4.1	44.8	
2/9/2022						1.2

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				50.4	109	
5/23/2016	51.9	160	93.2			152
7/12/2016	100	160	78	50	110	160
9/1/2016	58	140	100	50	110	160
10/20/2016				49	110	110
10/24/2016	220	160	140			
12/6/2016				51	100	150
12/7/2016	180	190	110			
1/25/2017				54	110	
1/26/2017	90	160	70			170
3/21/2017				46	110	
3/22/2017	37	130	59			160
5/23/2017				49	130	150
5/24/2017	69	120	50			
10/3/2017	28	93	29	52	130	160
6/5/2018	56.1		72.3	52.3		
6/6/2018		46.4			44.8	138
10/2/2018				52.6	89.4	142
10/3/2018	24.8	88.4				
10/5/2018			32.3			
4/2/2019				55.5		
4/3/2019	4.6	62.8			91.6	130
4/5/2019			36.4			
9/24/2019					60.2	
9/25/2019				49.8		
9/26/2019			109			
9/27/2019	27.9	81				126
3/26/2020		48				
3/27/2020				48.3	79.8	
3/30/2020			75.1			
3/31/2020	3.2					105
6/16/2020					67.9	
6/17/2020				45.2		
9/16/2020				46.4	74.6	
9/17/2020						105
9/18/2020	34.9	74.6				
9/21/2020			41.2			
3/15/2021				44.5	72.4	
3/16/2021	11.5	56.8				94.7
3/17/2021			31.4			
8/16/2021				40.3		
8/17/2021						88.6
8/18/2021	19.9	47.3			50.9	
8/19/2021			24.4			
2/9/2022	20.4	46.8				84.4
2/10/2022			17.4	39.8	48.2	

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		27.5				
4/3/2019	19.5			32	90.6	
4/4/2019						26.9
4/8/2019			43.3			
9/25/2019		25.7				
9/26/2019			39.7		118	31.8
9/27/2019	46.2			36.2		
3/26/2020	64			34.6		
3/27/2020		28.8				
3/30/2020			37.4			
3/31/2020					98	
4/2/2020						27.9
9/17/2020		29.7			103	
9/18/2020				33.4		30.4
9/21/2020	35		45.2			
3/12/2021						31.3
3/15/2021		31.1				
3/16/2021				29.2		
3/17/2021	19.8		42.9		95.3	
8/17/2021		28.3			89.2	30
8/18/2021	14.3					
8/19/2021			37.2	30.8		
2/9/2022	10.2			26.5	85.7	
2/10/2022		31.4	38.2			31.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	44	80.9			
4/3/2019			1.8	60.9	5.6
9/24/2019		83.8			
9/25/2019			35.9		
9/26/2019	43.5			64.9	15.6
3/26/2020			0.73 (J)		
3/27/2020	33			48.6	
3/30/2020		71.2			1.5
9/16/2020		75.3			
9/17/2020			28.7		
9/21/2020	42.9			58.1	11.1
3/15/2021	35.8	73.6			6.8
3/16/2021			1.4	49.8	
8/16/2021		68			
8/17/2021			1.4	43.5	8.9
8/18/2021	33.7				
2/8/2022					6.9
2/9/2022			0.74 (J)	37.9	
2/10/2022	29	66			

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.005	<0.005	<0.005			
5/23/2016						<0.005
7/11/2016	<0.005	<0.005				
7/12/2016			<0.005			<0.005
8/30/2016	<0.005	<0.005	<0.005			
9/1/2016						<0.005
10/19/2016	<0.005	<0.005	<0.005			
10/24/2016						<0.005
12/6/2016	<0.005	<0.005	<0.005			
12/7/2016						<0.005
1/24/2017	<0.005	<0.005	<0.005			
1/26/2017						<0.005
3/21/2017	0.0005 (J)	<0.005	<0.005			
3/22/2017						<0.005
5/22/2017	<0.005	<0.005	0.0007 (J)			
5/24/2017						<0.005
4/2/2018	<0.005	<0.005				
4/3/2018			<0.005			
4/4/2018						<0.005
3/12/2019	<0.005	<0.005	<0.005			
3/13/2019						<0.005
4/1/2019			<0.005			
4/2/2019	<0.005	0.0079 (J)				
4/3/2019						0.02
9/23/2019	<0.005	0.00058 (J)	<0.005			
9/27/2019						<0.005
3/2/2020	<0.005	0.00041 (J)	<0.005			
3/3/2020						<0.005
3/25/2020	0.00072 (J)	<0.005	<0.005			
4/1/2020						<0.005
9/15/2020	<0.005	<0.005	<0.005			
9/16/2020				<0.005	0.0012 (J)	<0.005
11/10/2020				<0.005	0.00089 (J)	
12/15/2020				<0.005	0.00072 (J)	
1/19/2021				<0.005	0.0011 (J)	
2/8/2021	<0.005					
2/9/2021		<0.005	<0.005	0.00095 (J)	0.00066 (J)	
2/15/2021						<0.005
3/10/2021	<0.005				<0.005	
3/11/2021		<0.005	<0.005	<0.005		
3/12/2021						<0.005
8/11/2021	<0.005			<0.005		
8/12/2021		<0.005	<0.005			
8/13/2021					0.0016 (J)	
8/17/2021						<0.005
2/1/2022	<0.005	<0.005	<0.005	<0.005	0.0013 (J)	
2/9/2022						0.0011 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	<0.005	
5/23/2016	<0.005	<0.005	<0.005			<0.005
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016				<0.005	<0.005	<0.005
10/24/2016	<0.005	<0.005	<0.005			
12/6/2016				<0.005	<0.005	<0.005
12/7/2016	<0.005	<0.005	<0.005			
1/25/2017				<0.005	<0.005	
1/26/2017	<0.005	<0.005	<0.005			<0.005
3/21/2017				<0.005	0.0005 (J)	
3/22/2017	0.0003 (J)	0.0004 (J)	0.0004 (J)			<0.005
5/23/2017				<0.005	<0.005	<0.005
5/24/2017	<0.005	<0.005	<0.005			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005			
3/12/2019					<0.005	
3/13/2019	<0.005		<0.005	<0.005		<0.005
3/14/2019		0.0025 (J)				
4/2/2019				<0.005		
4/3/2019	<0.005	<0.005			<0.005	<0.005
4/5/2019			<0.005			
9/24/2019					<0.005	
9/25/2019				0.071		
9/26/2019			<0.005			
9/27/2019	<0.005	<0.005				<0.005
3/3/2020	0.00061 (J)	<0.005			0.0007 (J)	
3/4/2020			<0.005	0.0016 (J)		<0.005
3/26/2020		<0.005				
3/27/2020				0.0004 (J)	<0.005	
3/30/2020			0.00059 (J)			
3/31/2020	<0.005					0.00052 (J)
9/16/2020				0.00074 (J)	0.0015 (J)	
9/17/2020						<0.005
9/18/2020	<0.005	0.00091 (J)				
9/21/2020			0.00056 (J)			
2/10/2021				0.0014 (J)		
2/12/2021	<0.005	<0.005				
2/16/2021					<0.005	0.00067 (J)
2/22/2021			<0.005			
3/15/2021				0.0021 (J)	0.00082 (J)	
3/16/2021	<0.005	<0.005				<0.005
3/17/2021			<0.005			
8/16/2021				<0.005		
8/17/2021						<0.005
8/18/2021	<0.005	<0.005			<0.005	
8/19/2021			<0.005			
2/9/2022	<0.005	<0.005				0.0011 (J)
2/10/2022			<0.005	<0.005	<0.005	

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.005	<0.005		<0.005	<0.005
3/14/2019	<0.005			<0.005		
4/2/2019		<0.005				
4/3/2019	<0.005			<0.005	<0.005	
4/4/2019						<0.005
4/8/2019			<0.005			
9/25/2019		<0.005				
9/26/2019			0.00042 (J)		0.00076 (J)	<0.005
9/27/2019	<0.005			<0.005		
3/2/2020		0.00071 (J)				
3/3/2020				<0.005		
3/4/2020	0.00066 (J)		<0.005		0.0028 (J)	<0.005
3/26/2020	0.00047 (J)			0.00061 (J)		
3/27/2020		0.00051 (J)				
3/30/2020			<0.005			
3/31/2020					0.001 (J)	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		0.0007 (J)
9/21/2020	0.0014 (J)		<0.005			
2/11/2021		<0.005				
2/12/2021	0.00059 (J)			<0.005		
2/16/2021			<0.005		0.001 (J)	0.00082 (J)
3/12/2021						<0.005
3/15/2021		0.00068 (J)				
3/16/2021				<0.005		
3/17/2021	0.0022 (J)		0.0017 (J)		0.0015 (J)	
8/17/2021		<0.005			<0.005	<0.005
8/18/2021	<0.005					
8/19/2021			<0.005	<0.005		
2/9/2022	<0.005			<0.005	<0.005	
2/10/2022		<0.005	<0.005			<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			0.003 (J)	<0.005	<0.005
4/2/2019	<0.005	<0.005			
4/3/2019			0.003 (J)	<0.005	0.0023 (J)
9/24/2019		<0.005			
9/25/2019			0.0052 (J)		
9/26/2019	0.00081 (J)			<0.005	0.0013 (J)
3/2/2020		<0.005	0.0042 (J)		
3/3/2020				0.00044 (J)	0.0015 (J)
3/4/2020	0.0027 (J)				
3/26/2020			0.0044 (J)		
3/27/2020	<0.005			0.00059 (J)	
3/30/2020		0.001 (J)			0.0021 (J)
9/16/2020		<0.005			
9/17/2020			0.0021 (J)		
9/21/2020	0.00085 (J)			<0.005	0.0017 (J)
2/10/2021	0.0014 (J)				
2/15/2021		<0.005			0.0015 (J)
2/16/2021			0.0032 (J)	<0.005	
3/15/2021	0.00078 (J)	<0.005			0.0018 (J)
3/16/2021			0.0024 (J)	<0.005	
8/16/2021		<0.005			
8/17/2021			0.0018 (J)	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					0.0016 (J)
2/9/2022			0.0031 (J)	<0.005	
2/10/2022	0.0011 (J)	<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.005	0.0293	<0.005			
5/23/2016						<0.005
7/11/2016	0.0004 (J)	0.0267				
7/12/2016			<0.005			0.0006 (J)
8/30/2016	<0.005	0.028	<0.005			
9/1/2016						0.0007 (J)
10/19/2016	<0.005	0.0201	<0.005			
10/24/2016						0.0009 (J)
12/6/2016	<0.005	0.0184	<0.005			
12/7/2016						0.0012 (J)
1/24/2017	<0.005	0.0206	<0.005			
1/26/2017						<0.005
3/21/2017	<0.005	0.0251	<0.005			
3/22/2017						0.0006 (J)
5/22/2017	<0.005	0.0263	<0.005			
5/24/2017						0.0006 (J)
4/2/2018	<0.005	0.019				
4/3/2018			<0.005			
4/4/2018						<0.005
3/12/2019	<0.005	0.017	<0.005			
3/13/2019						<0.005
4/1/2019			<0.005			
4/2/2019	<0.005	0.019				
4/3/2019						<0.005
9/23/2019	<0.005	0.038	<0.005			
9/27/2019						<0.005
3/2/2020	<0.005	0.019	<0.005			
3/3/2020						<0.005
3/25/2020	<0.005	0.02	<0.005			
4/1/2020						<0.005
9/15/2020	<0.005	0.021	<0.005			
9/16/2020				<0.005	<0.005	<0.005
11/10/2020				<0.005	<0.005	
12/15/2020				<0.005	<0.005	
1/19/2021				<0.005	<0.005	
2/8/2021	<0.005					
2/9/2021		0.02	<0.005	<0.005	<0.005	
2/15/2021						<0.005
3/10/2021	<0.005				<0.005	
3/11/2021		0.013	<0.005	<0.005		
3/12/2021						<0.005
8/11/2021	<0.005			<0.005		
8/12/2021		0.022	<0.005			
8/13/2021					<0.005	
8/17/2021						<0.005
2/1/2022	<0.005	0.025	<0.005	<0.005	<0.005	
2/9/2022						<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	0.00207 (J)	
5/23/2016	<0.005	<0.005	0.00361 (J)			<0.005
7/12/2016	0.0021 (J)	0.0018 (J)	0.0032 (J)	0.0003 (J)	0.0019 (J)	0.0006 (J)
9/1/2016	0.0025 (J)	0.0016 (J)	0.0033 (J)	<0.005	0.0023 (J)	0.0007 (J)
10/20/2016				0.0008 (J)	0.002 (J)	0.002 (J)
10/24/2016	0.0032 (J)	0.0017 (J)	0.004 (J)			
12/6/2016				0.0009 (J)	0.0026 (J)	0.0011 (J)
12/7/2016	0.003 (J)	0.0021 (J)	0.0034 (J)			
1/25/2017				0.0005 (J)	0.002 (J)	
1/26/2017	0.0014 (J)	0.0016 (J)	0.0024 (J)			0.0006 (J)
3/21/2017				0.0005 (J)	0.0023 (J)	
3/22/2017	0.0014 (J)	0.0018 (J)	0.0026 (J)			0.0005 (J)
5/23/2017				0.0005 (J)	0.0023 (J)	0.0006 (J)
5/24/2017	0.0008 (J)	0.0015 (J)	0.0022 (J)			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005			
3/12/2019					0.002 (J)	
3/13/2019	0.00098 (J)		0.0022 (J)	0.00067 (J)		0.00065 (J)
3/14/2019		0.0011 (J)				
4/2/2019				0.00069 (J)		
4/3/2019	0.0018 (J)	0.0011 (J)			0.0019 (J)	0.00069 (J)
4/5/2019			0.0017 (J)			
9/24/2019					0.0015 (J)	
9/25/2019				0.0026 (J)		
9/26/2019			0.0042 (J)			
9/27/2019	0.00071 (J)	0.0012 (J)				0.00057 (J)
3/3/2020	0.00087 (J)	0.0013 (J)			0.002 (J)	
3/4/2020			0.0066	0.0011 (J)		0.00053 (J)
3/26/2020		0.0012 (J)				
3/27/2020				0.00074 (J)	0.0018 (J)	
3/30/2020			0.0053			
3/31/2020	0.0014 (J)					0.00051 (J)
9/16/2020				0.00065 (J)	0.0019 (J)	
9/17/2020						0.0007 (J)
9/18/2020	<0.005	0.0014 (J)				
9/21/2020			0.0032 (J)			
2/10/2021				0.00081 (J)		
2/12/2021	<0.005	0.0012 (J)				
2/16/2021					0.002 (J)	0.00061 (J)
2/22/2021			0.003 (J)			
3/15/2021				0.0014 (J)	0.0019 (J)	
3/16/2021	<0.005	0.0012 (J)				0.00069 (J)
3/17/2021			0.0029 (J)			
8/16/2021				0.0012 (J)		
8/17/2021						0.00045 (J)
8/18/2021	<0.005	0.0012 (J)			0.002 (J)	
8/19/2021			0.0024 (J)			
2/9/2022	<0.005	0.0013 (J)				0.00051 (J)
2/10/2022			0.0026 (J)	0.0011 (J)	0.0021 (J)	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.0011 (J)	<0.005		<0.005	<0.005
3/14/2019	0.025			<0.005		
4/2/2019		<0.005				
4/3/2019	0.036			<0.005	<0.005	
4/4/2019						9.1E-05 (J)
4/8/2019			0.00025 (J)			
9/25/2019		<0.005				
9/26/2019			0.0011 (J)		0.00053 (J)	<0.005
9/27/2019	0.033			<0.005		
3/2/2020		<0.005				
3/3/2020				<0.005		
3/4/2020	0.048		0.00056 (J)		<0.005	0.00045 (J)
3/26/2020	0.045			<0.005		
3/27/2020		<0.005				
3/30/2020			<0.005			
3/31/2020					0.0003 (J)	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		<0.005
9/21/2020	0.032		<0.005			
2/11/2021		<0.005				
2/12/2021	0.037			<0.005		
2/16/2021			<0.005		0.00045 (J)	0.0004 (J)
3/12/2021						<0.005
3/15/2021		<0.005				
3/16/2021				<0.005		
3/17/2021	0.037		<0.005		0.00044 (J)	
8/17/2021		<0.005			0.00045 (J)	<0.005
8/18/2021	0.039					
8/19/2021			<0.005	<0.005		
2/9/2022	0.03			<0.005	0.00059 (J)	
2/10/2022		<0.005	<0.005			<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	0.00057 (J)			
3/13/2019			<0.005	0.00055 (J)	<0.005
4/2/2019	<0.005	0.00084 (J)			
4/3/2019			<0.005	<0.005	<0.005
9/24/2019		0.0015 (J)			
9/25/2019			<0.005		
9/26/2019	<0.005			0.00036 (J)	<0.005
3/2/2020		0.00067 (J)	<0.005		
3/3/2020				0.00094 (J)	<0.005
3/4/2020	0.00093 (J)				
3/26/2020			<0.005		
3/27/2020	<0.005			0.00059 (J)	
3/30/2020		0.00063 (J)			<0.005
9/16/2020		0.0013 (J)			
9/17/2020			<0.005		
9/21/2020	<0.005			0.00041 (J)	<0.005
2/10/2021	<0.005				
2/15/2021		0.00097 (J)			<0.005
2/16/2021			<0.005	0.00045 (J)	
3/15/2021	<0.005	0.0011 (J)			<0.005
3/16/2021			<0.005	0.00042 (J)	
8/16/2021		0.0014 (J)			
8/17/2021			<0.005	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					<0.005
2/9/2022			<0.005	0.00059 (J)	
2/10/2022	<0.005	0.00089 (J)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	0.397 (U)	0.627 (U)	0.342 (U)			
5/23/2016						0.419 (U)
7/11/2016	0.738 (U)	1.38				
7/12/2016			0.499 (U)			0.855
8/30/2016	0.581 (U)	1.05 (U)	0.976 (U)			
9/1/2016						0.844 (U)
10/19/2016	0.213 (U)	1.11 (U)	0.626 (U)			
10/24/2016						0.917 (U)
12/6/2016	0.444 (U)	0.741 (U)	0.805 (U)			
12/7/2016						0.558 (U)
1/24/2017	0.373 (U)	0.908 (U)	0.336 (U)			
1/26/2017						0.922 (U)
3/21/2017	0.816 (U)	0.567 (U)	0.358 (U)			
3/22/2017						0.751 (U)
5/22/2017	0.554 (U)	0.638 (U)	0.744 (U)			
5/24/2017						0.725 (U)
4/2/2018	0.405 (U)	0.761 (U)				
4/3/2018			0.684 (U)			
4/4/2018						0.715 (U)
6/4/2018	1.13 (U)	0.975 (U)	0.0291 (U)			
6/5/2018						0.718 (U)
10/1/2018	0.132 (U)	0.434 (U)	0.781 (U)			
10/2/2018						0.948
3/12/2019	0.327 (U)	0.454 (U)	1.01 (U)			
3/13/2019						1.19 (U)
4/1/2019			0.76 (U)			
4/2/2019	0.739 (U)	0.651 (U)				
4/3/2019						1.82 (U)
9/27/2019						1.16 (U)
9/30/2019	0.306 (U)	1.04 (U)	0.384 (U)			
3/2/2020	0.61 (U)	1.58	0.249 (U)			
3/3/2020						0.667 (U)
3/25/2020	4.36	0.621 (U)	0.833 (U)			
4/1/2020						0.235 (U)
9/15/2020	0.748 (U)	0.124 (U)	0.161 (U)			
9/16/2020				0.531 (U)	0.422 (U)	0 (U)
11/10/2020				0.788 (U)	0.293 (U)	
12/15/2020				1.04 (U)	0.7 (U)	
1/19/2021				0.685 (U)	0.79 (U)	
2/8/2021	0.223 (U)					
2/9/2021		0.721 (U)	0.447 (U)	0.138 (U)	0.486 (U)	
2/15/2021						1.91
3/10/2021	0 (U)				0.811 (U)	
3/11/2021		0.737 (U)	0.128 (U)	1.51 (U)		
3/12/2021						1.12 (U)
8/11/2021	0.115 (U)			0.394 (U)		
8/12/2021		0.746 (U)	0.389 (U)			
8/13/2021					1.2	
8/17/2021						0.595 (U)
2/1/2022	0.143 (U)	0.588 (U)	0.266 (U)	1.12	0.665 (U)	
2/9/2022						0.49 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.62 (U)	0.56 (U)	
5/23/2016	0.509 (U)	1.12	0.625 (U)			0.826 (U)
7/12/2016	0.784 (U)	1.61	0.478 (U)	0.283 (U)	0.636 (U)	0.511 (U)
9/1/2016	0.261 (U)	1.23	0.595 (U)	0.703 (U)	0.818 (U)	0.762 (U)
10/20/2016				1.97	1.04 (U)	1.17
10/24/2016	1.42	1.98	1.54			
12/6/2016				2	0.771 (U)	0.126 (U)
12/7/2016	0.781 (U)	0.319 (U)	0.657 (U)			
1/25/2017				1.06 (U)	0.859 (U)	
1/26/2017	0.842 (U)	0.54 (U)	1.22			0.515 (U)
3/21/2017				0.668 (U)	0.851 (U)	
3/22/2017	0.318 (U)	0.635 (U)	0.285 (U)			0.451 (U)
5/23/2017				0.621 (U)	0.705 (U)	0.924 (U)
5/24/2017	0.687 (U)	1.01	0.655 (U)			
4/3/2018				0.538 (U)	0.311 (U)	0.732 (U)
4/4/2018	1.5	0.956	0.882 (U)			
6/5/2018	0.549 (U)		1.1 (U)	0.985 (U)		
6/6/2018		0.424 (U)			0.896 (U)	0.813 (U)
10/2/2018				0.837 (U)	1.21	0.61 (U)
10/3/2018	1.48	0.57 (U)				
10/5/2018			0.558 (U)			
3/12/2019					0.544 (U)	
3/13/2019	0.584 (U)		0.39 (U)	0.403 (U)		1 (U)
3/14/2019		0.992 (U)				
4/2/2019				0.865 (U)		
4/3/2019	0.36 (U)	0.734 (U)			0.885 (U)	0.156 (U)
4/5/2019			0.422 (U)			
9/24/2019					1.3	
9/25/2019				0.884 (U)		
9/26/2019			0.939 (U)			
9/27/2019	1.78	0.958 (U)				0.428 (U)
3/3/2020	0.716 (U)	0.971 (U)			0.835 (U)	
3/4/2020			0.708 (U)	0.624 (U)		1.03
3/26/2020		0.209 (U)				
3/27/2020				0.485 (U)	1.04 (U)	
3/30/2020			0.602 (U)			
3/31/2020	1.3 (U)					1.2 (U)
9/16/2020				0.135 (U)	0.526 (U)	
9/17/2020						1.38 (U)
9/18/2020	1.24 (U)	0.916 (U)				
9/21/2020			1.53			
2/10/2021				0.281 (U)		
2/12/2021	1.1	0.236 (U)				
2/16/2021					0.764 (U)	1.17 (U)
2/22/2021			1.02			
3/15/2021				0.666 (U)	1.3 (U)	
3/16/2021	1.71	0.245 (U)				0.446 (U)
3/17/2021			1.45 (U)			
8/16/2021				0.143 (U)		
8/17/2021						0.771 (U)
8/18/2021	0.919 (U)	0.919 (U)			1.02 (U)	
8/19/2021			0.764 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.444 (U)	0.564 (U)				0.198 (U)
2/10/2022			0.442 (U)	0.175 (U)	0.945 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.538 (U)	0.311 (U)		0.627 (U)	1.81
3/14/2019	0.347 (U)			1.28 (U)		
4/2/2019		1.02 (U)				
4/3/2019	0.884 (U)			0.662 (U)	0.205 (U)	
4/4/2019						1.33
4/8/2019			0.573 (U)			
9/25/2019		1.35 (U)				
9/26/2019			0.878 (U)		0.912 (U)	0.974 (U)
9/27/2019	0.534 (U)			0.945 (U)		
3/2/2020		0.653 (U)				
3/3/2020				1.36		
3/4/2020	1.04		0.333 (U)		1.27 (U)	1.12
3/26/2020	1.1 (U)			0.793 (U)		
3/27/2020		0.1 (U)				
3/30/2020			0.107 (U)			
3/31/2020					1.65	
4/2/2020						2.48
9/17/2020		0.469 (U)			0.42 (U)	
9/18/2020				1.17 (U)		1.13 (U)
9/21/2020	1.36 (U)		1.23 (U)			
2/11/2021		0.334 (U)				
2/12/2021	0.764 (U)			1.17		
2/16/2021			0.156 (U)		0.505 (U)	1.21
3/12/2021						0.649 (U)
3/15/2021		1.24 (U)				
3/16/2021				0.742 (U)		
3/17/2021	0.466 (U)		0.174 (U)		0.165 (U)	
8/17/2021		0.709 (U)			0.0468 (U)	1.06 (U)
8/18/2021	0.642 (U)					
8/19/2021			0.227 (U)	0.935 (U)		
2/9/2022	0.245 (U)			0.754 (U)	0.0677 (U)	
2/10/2022		0.32 (U)	0.178 (U)			0.809 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.926 (U)	1.37			
3/13/2019			0.621 (U)	2.07	1.23
4/2/2019	0.479 (U)	0.62 (U)			
4/3/2019			0.932 (U)	0.872 (U)	1.05 (U)
9/24/2019		0.675 (U)			
9/25/2019			0.798 (U)		
9/26/2019	0.997 (U)			0.745 (U)	0.947 (U)
3/2/2020		0.413 (U)	0.964 (U)		
3/3/2020				0.757 (U)	1.15
3/4/2020	1.31				
3/26/2020			1.1		
3/27/2020	1.59			0.758 (U)	
3/30/2020		0.885 (U)			0.83 (U)
9/16/2020		0.193 (U)			
9/17/2020			0.618 (U)		
9/21/2020	1.39 (U)			0.796 (U)	1.55 (U)
2/10/2021	0.201 (U)				
2/15/2021		1.17 (U)			0.892 (U)
2/16/2021			0.466 (U)	0.198 (U)	
3/15/2021	0.564 (U)	0.436 (U)			0.386 (U)
3/16/2021			1.22	0.727 (U)	
8/16/2021		0.208 (U)			
8/17/2021			0.304 (U)	0.557 (U)	0.183 (U)
8/18/2021	0.876 (U)				
2/8/2022					0.417 (U)
2/9/2022			0.567 (U)	0.619 (U)	
2/10/2022	1.96 (U)	0.594 (U)			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	0.105 (J)	0.0303 (J)	0.0513 (J)			
5/23/2016						0.0394 (J)
7/11/2016	0.16 (J)	0.05 (J)				
7/12/2016			0.12 (J)			0.15 (J)
8/30/2016	0.09 (J)	0.06 (J)	0.09 (J)			
9/1/2016						0.5
10/19/2016	0.1 (J)	0.04 (J)	0.1 (J)			
10/24/2016						0.06 (J)
12/6/2016	0.11 (J)	0.36	0.21 (J)			
12/7/2016						0.44
1/24/2017	0.09 (J)	<0.1	0.06 (J)			
1/26/2017						0.29 (J)
3/21/2017	0.13 (J)	<0.1	0.005 (J)			
3/22/2017						0.34
5/22/2017	0.12 (J)	<0.1	0.05 (J)			
5/24/2017						0.13 (J)
10/3/2017	0.13 (J)	<0.1	0.13 (J)			0.46
4/2/2018	<0.1	<0.1				
4/3/2018			<0.1			
4/4/2018						<0.1
6/4/2018	0.074 (J)	<0.1	<0.1			
6/5/2018						<0.1
10/1/2018	<0.1	<0.1	<0.1			
10/2/2018						0.17 (J)
3/12/2019	0.29 (J)	0.038 (J)	0.072 (J)			
3/13/2019						0.17 (J)
4/1/2019			0.029 (J)			
4/2/2019	0.1 (J)	0.071 (J)				
4/3/2019						0.082 (J)
9/23/2019	0.078 (J)	<0.1	<0.1			
9/27/2019						0.17 (J)
3/2/2020	0.076 (J)	<0.1	<0.1			
3/3/2020						0.11 (J)
3/25/2020	0.098 (J)	<0.1	<0.1			
4/1/2020						0.12 (J)
6/16/2020	0.071 (J)		<0.1			
9/15/2020	0.082 (J)	<0.1	<0.1			
9/16/2020				0.22	0.52	<0.1
11/10/2020				0.19	0.59	
12/15/2020				0.21	0.67	
1/19/2021				0.16	0.74	
2/8/2021	0.078 (J)					
2/9/2021		<0.1	0.074 (J)	0.19	0.44	
2/15/2021						0.08 (J)
3/10/2021	0.079 (J)				0.65	
3/11/2021		0.1	<0.1	0.2		
3/12/2021						0.054 (J)
8/11/2021	0.058 (J)			0.15		
8/12/2021		<0.1	<0.1			
8/13/2021					0.87	
8/17/2021						<0.1
2/1/2022	0.064 (J)	<0.1	<0.1	0.19	0.96	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
2/9/2022						0.12

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.0828 (J)	0.499	
5/23/2016	0.203 (J)	0.212 (J)	0.2587 (J)			<0.1
7/12/2016	0.44	0.31	0.53	0.2 (J)	0.67	0.24 (J)
9/1/2016	0.67	0.62	0.74	0.51	0.94	0.46
10/20/2016				0.4	0.56	0.56
10/24/2016	0.26 (J)	0.19 (J)	0.31			
12/6/2016				0.26 (J)	0.76	0.31
12/7/2016	0.55	0.73	1			
1/25/2017				0.24 (J)	1.1	
1/26/2017	0.27 (J)	0.12 (J)	0.68			0.004 (J)
3/21/2017				0.13 (J)	0.46	
3/22/2017	0.66	0.44	0.76			0.28 (J)
5/23/2017				0.11 (J)	0.65	0.29 (J)
5/24/2017	0.35	0.34	0.54			
10/3/2017	0.56	0.58	0.83	0.17 (J)	0.66	0.53
4/3/2018				<0.1	0.39	<0.1
4/4/2018	0.39	<0.1	0.65			
6/5/2018	0.24 (J)		0.47	0.099 (J)		
6/6/2018		0.21 (J)			0.46	0.12 (J)
10/2/2018				<0.1	0.51	0.031 (J)
10/3/2018	0.31	0.15 (J)				
10/5/2018			0.77			
3/12/2019					0.58	
3/13/2019	0.51		0.78	0.12 (J)		0.14 (J)
3/14/2019		1.1				
4/2/2019				0.097 (J)		
4/3/2019	0.43	0.3 (J)			0.63	0.14 (J)
4/5/2019			0.83			
9/24/2019					0.49	
9/25/2019				0.1 (J)		
9/26/2019			0.64			
9/27/2019	0.42	0.26 (J)				0.26 (J)
3/3/2020	0.24 (J)	0.21 (J)			0.45	
3/4/2020			0.37	0.077 (J)		0.08 (J)
3/26/2020		0.17 (J)				
3/27/2020				0.059 (J)	0.46	
3/30/2020			0.44			
3/31/2020	0.19 (J)					0.074 (J)
6/16/2020					0.45	
6/17/2020				0.077 (J)		
9/16/2020				0.081 (J)	0.53	
9/17/2020						0.1
9/18/2020	0.15	0.15				
9/21/2020			0.44			
2/10/2021				0.085 (J)		
2/12/2021	0.17	0.19				
2/16/2021					0.47	0.096 (J)
2/22/2021			0.55			
3/15/2021				0.086 (J)	0.51	
3/16/2021	0.21	0.2				0.098 (J)
3/17/2021			0.65			
8/16/2021				0.084 (J)		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/17/2021						0.095 (J)
8/18/2021	0.21	0.15			0.41	
8/19/2021			0.53			
2/9/2022	0.2	0.2				0.1
2/10/2022			0.53	0.083 (J)	0.42	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.072 (J)	0.074 (J)		0.052 (J)	0.28 (J)
3/14/2019	0.35			2.2		
4/2/2019		<0.1				
4/3/2019	0.19 (J)			1.6	0.044 (J)	
4/4/2019						0.26 (J)
4/8/2019			0.048 (J)			
9/25/2019		<0.1				
9/26/2019			0.18 (J)		0.19 (J)	0.42
9/27/2019	0.53			1.5		
3/2/2020		<0.1				
3/3/2020				1.4		
3/4/2020	0.096 (J)		0.051 (J)		0.052 (J)	0.25 (J)
3/26/2020	0.12 (J)			1.6		
3/27/2020		<0.1				
3/30/2020			0.064 (J)			
3/31/2020					<0.1	
4/2/2020						0.24 (J)
9/17/2020		<0.1			0.069 (J)	
9/18/2020				1.6		0.22
9/21/2020	0.17		<0.1			
2/11/2021		<0.1				
2/12/2021	0.16			1.6		
2/16/2021			<0.1		0.071 (J)	0.25
3/12/2021						0.24
3/15/2021		<0.1				
3/16/2021				1.7		
3/17/2021	0.18		<0.1		0.072 (J)	
8/17/2021		<0.1			0.075 (J)	0.24
8/18/2021	0.12					
8/19/2021			<0.1	1.5		
2/9/2022	0.076 (J)			1.7	0.092 (J)	
2/10/2022		<0.1	0.051 (J)			0.25

Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.24 (J)	0.07 (J)			
3/13/2019			0.1 (J)	0.19 (J)	0.069 (J)
4/2/2019	0.18 (J)	0.045 (J)			
4/3/2019			0.049 (J)	0.15 (J)	<0.1
9/24/2019		0.18 (J)			
9/25/2019			0.076 (J)		
9/26/2019	0.22 (J)			0.19 (J)	0.17 (J)
3/2/2020		<0.1	0.065 (J)		
3/3/2020				0.062 (J)	<0.1
3/4/2020	0.26 (J)				
3/26/2020			0.082 (J)		
3/27/2020	0.26 (J)			<0.1	
3/30/2020		<0.1			<0.1
9/16/2020		<0.1			
9/17/2020			0.094 (J)		
9/21/2020	0.1			<0.1	<0.1
2/10/2021	0.16				
2/15/2021		<0.1			<0.1
2/16/2021			0.051 (J)	0.059 (J)	
3/15/2021	0.24	<0.1			<0.1
3/16/2021			<0.1	0.06 (J)	
8/16/2021		<0.1			
8/17/2021			<0.1	0.055 (J)	<0.1
8/18/2021	0.14				
2/8/2022					<0.1
2/9/2022			0.056 (J)	0.059 (J)	
2/10/2022	0.22	<0.1			

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.001	<0.001	<0.001			
5/23/2016						<0.001
7/11/2016	<0.001	<0.001				
7/12/2016			0.0001 (J)			<0.001
8/30/2016	<0.001	<0.001	<0.001			
9/1/2016						<0.001
10/19/2016	<0.001	<0.001	<0.001			
10/24/2016						<0.001
12/6/2016	<0.001	<0.001	<0.001			
12/7/2016						<0.001
1/24/2017	<0.001	<0.001	<0.001			
1/26/2017						<0.001
3/21/2017	<0.001	6E-05 (J)	0.0001 (J)			
3/22/2017						<0.001
5/22/2017	<0.001	9E-05 (J)	<0.001			
5/24/2017						<0.001
4/2/2018	<0.001	<0.001				
4/3/2018			<0.001			
4/4/2018						<0.001
3/12/2019	<0.001	<0.001	<0.001			
3/13/2019						<0.001
9/23/2019	7.8E-05 (J)	9.2E-05 (J)	<0.001			
3/2/2020	4.8E-05 (J)	9.5E-05 (J)	<0.001			
3/3/2020						<0.001
3/25/2020	<0.001	0.00011 (J)	<0.001			
4/1/2020						5E-05 (J)
9/15/2020	<0.001	8E-05 (J)	4.2E-05 (J)			
9/16/2020				5E-05 (J)	0.00021 (J)	<0.001
11/10/2020				6.9E-05 (J)	0.0002 (J)	
12/15/2020				8.2E-05 (J)	0.00011 (J)	
1/19/2021				4.4E-05 (J)	0.00019 (J)	
2/8/2021	5.8E-05 (J)					
2/9/2021		9.4E-05 (J)	<0.001	0.00029 (J)	0.0001 (J)	
2/15/2021						<0.001
3/10/2021	<0.001				<0.001	
3/11/2021		7.6E-05 (J)	<0.001	9.4E-05 (J)		
3/12/2021						<0.001
8/11/2021	<0.001			<0.001		
8/12/2021		<0.001	<0.001			
8/13/2021					<0.001	
8/17/2021						<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
2/9/2022						<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.001	<0.001	
5/23/2016	<0.001	<0.001	<0.001			<0.001
7/12/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/1/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/20/2016				<0.001	<0.001	<0.001
10/24/2016	<0.001	<0.001	<0.001			
12/6/2016				0.0001 (J)	<0.001	0.0002 (J)
12/7/2016	<0.001	<0.001	<0.001			
1/25/2017				0.0001 (J)	<0.001	
1/26/2017	<0.001	<0.001	<0.001			0.0001 (J)
3/21/2017				9E-05 (J)	<0.001	
3/22/2017	0.0003 (J)	<0.001	7E-05 (J)			<0.001
5/23/2017				8E-05 (J)	<0.001	0.0001 (J)
5/24/2017	9E-05 (J)	<0.001	<0.001			
4/3/2018				<0.001	<0.001	<0.001
4/4/2018	<0.001	<0.001	<0.001			
3/12/2019					<0.001	
3/13/2019	<0.001		<0.001	<0.001		<0.001
3/14/2019		<0.001				
3/3/2020	0.00021 (J)	5.6E-05 (J)			0.00013 (J)	
3/4/2020			0.00014 (J)	0.00051 (J)		8.4E-05 (J)
3/26/2020		0.00043 (J)				
3/27/2020				5.4E-05 (J)	<0.001	
3/30/2020			0.0001 (J)			
3/31/2020	0.0003 (J)					0.00014 (J)
9/16/2020				0.0002 (J)	0.0002 (J)	
9/17/2020						0.00022 (J)
9/18/2020	6E-05 (J)	9.6E-05 (J)				
9/21/2020			0.00015 (J)			
2/10/2021				0.00056 (J)		
2/12/2021	<0.001	6.7E-05 (J)				
2/16/2021					8.6E-05 (J)	0.0002 (J)
2/22/2021			0.00018 (J)			
3/15/2021				0.0013	0.00011 (J)	
3/16/2021	9.9E-05 (J)	8.9E-05 (J)				0.00027 (J)
3/17/2021			0.00015 (J)			
8/16/2021				<0.001		
8/17/2021						<0.001
8/18/2021	<0.001	<0.001			<0.001	
8/19/2021			<0.001			
2/9/2022	<0.001	<0.001				<0.001
2/10/2022			<0.001	<0.001	<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.001	<0.001		<0.001	<0.001
3/14/2019	<0.001			<0.001		
3/2/2020		0.00017 (J)				
3/3/2020				<0.001		
3/4/2020	0.00011 (J)		0.00019 (J)		<0.001	<0.001
3/26/2020	<0.001			<0.001		
3/27/2020		0.00013 (J)				
3/30/2020			6.4E-05 (J)			
3/31/2020					0.0001 (J)	
4/2/2020						0.00013 (J)
9/17/2020		<0.001			<0.001	
9/18/2020				<0.001		<0.001
9/21/2020	8.5E-05 (J)		4.2E-05 (J)			
2/11/2021		3.9E-05 (J)				
2/12/2021	7.1E-05 (J)			<0.001		
2/16/2021			0.00012 (J)		8E-05 (J)	0.00043 (J)
3/12/2021						<0.001
3/15/2021		0.0001 (J)				
3/16/2021				<0.001		
3/17/2021	3.8E-05 (J)		4E-05 (J)		<0.001	
8/17/2021		<0.001			<0.001	<0.001
8/18/2021	<0.001					
8/19/2021			<0.001	<0.001		
2/9/2022	<0.001			<0.001	<0.001	
2/10/2022		<0.001	<0.001			<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.001	<0.001			
3/13/2019			<0.001	<0.001	<0.001
3/2/2020		9E-05 (J)	4.7E-05 (J)		
3/3/2020				0.00013 (J)	6.2E-05 (J)
3/4/2020	0.001 (J)				
3/26/2020			<0.001		
3/27/2020	6.2E-05 (J)			<0.001	
3/30/2020		0.00011 (J)			<0.001
9/16/2020		<0.001			
9/17/2020			<0.001		
9/21/2020	0.00018 (J)			0.00026 (J)	<0.001
2/10/2021	0.00044 (J)				
2/15/2021		5.2E-05 (J)			<0.001
2/16/2021			<0.001	8.4E-05 (J)	
3/15/2021	0.00034 (J)	<0.001			<0.001
3/16/2021			<0.001	3.6E-05 (J)	
8/16/2021		<0.001			
8/17/2021			<0.001	<0.001	<0.001
8/18/2021	<0.001				
2/8/2022					<0.001
2/9/2022			<0.001	<0.001	
2/10/2022	<0.001	<0.001			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.03	<0.03	<0.03			
5/23/2016						<0.03
7/11/2016	<0.03	0.0014 (J)				
7/12/2016			0.0024 (J)			<0.03
8/30/2016	<0.03	<0.03	0.0025 (J)			
9/1/2016						<0.03
10/19/2016	<0.03	<0.03	0.003 (J)			
10/24/2016						<0.03
12/6/2016	<0.03	<0.03	0.0033 (J)			
12/7/2016						<0.03
1/24/2017	<0.03	<0.03	0.003 (J)			
1/26/2017						<0.03
3/21/2017	<0.03	0.0012 (J)	0.0034 (J)			
3/22/2017						<0.03
5/22/2017	<0.03	<0.03	0.003 (J)			
5/24/2017						<0.03
4/2/2018	<0.03	0.0015 (J)				
4/3/2018			0.003 (J)			
4/4/2018						<0.03
6/4/2018	0.001 (J)	0.0016 (J)	0.0027 (J)			
6/5/2018						<0.03
10/1/2018	0.00099 (J)	0.0013 (J)	0.0032 (J)			
10/2/2018						<0.03
3/12/2019	0.001 (J)	0.0018 (J)	0.0032 (J)			
3/13/2019						<0.03
4/1/2019			0.0032 (J)			
4/2/2019	0.001 (J)	0.0018 (J)				
4/3/2019						<0.03
9/23/2019	0.0011 (J)	0.0016 (J)	0.0029 (J)			
9/27/2019						<0.03
3/2/2020	0.0012 (J)	0.0017 (J)	0.0037 (J)			
3/3/2020						<0.03
3/25/2020	0.00083 (J)	0.0017 (J)	0.0035 (J)			
4/1/2020						<0.03
9/15/2020	0.00087 (J)	0.0015 (J)	0.0026 (J)			
9/16/2020				0.0018 (J)	0.014 (J)	<0.03
11/10/2020				0.0013 (J)	0.025 (J)	
12/15/2020				0.0019 (J)	0.028 (J)	
1/19/2021				0.0025 (J)	0.034	
2/8/2021	0.00086 (J)					
2/9/2021		0.0012 (J)	0.0032 (J)	0.0026 (J)	0.026 (J)	
2/15/2021						<0.03
3/10/2021	0.0009 (J)				0.03	
3/11/2021		0.0011 (J)	0.0035 (J)	0.0022 (J)		
3/12/2021						<0.03
8/11/2021	0.00078 (J)			0.0024 (J)		
8/12/2021		0.0012 (J)	0.0028 (J)			
8/13/2021					0.032	
8/17/2021						<0.03
2/1/2022	0.0011 (J)	0.0017 (J)	0.0037 (J)	0.0024 (J)	0.048	
2/9/2022						<0.03

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.03	<0.03	
5/23/2016	<0.03	0.0107 (J)	0.0422 (J)			<0.03
7/12/2016	<0.03	0.0113 (J)	0.0366 (J)	0.0021 (J)	0.0023 (J)	0.004 (J)
9/1/2016	<0.03	0.0118 (J)	0.04 (J)	0.0025 (J)	0.0029 (J)	0.0044 (J)
10/20/2016				0.0021 (J)	0.0027 (J)	0.0027 (J)
10/24/2016	<0.03	0.0114 (J)	0.0435 (J)			
12/6/2016				0.0026 (J)	0.0032 (J)	0.005 (J)
12/7/2016	<0.03	0.0155 (J)	0.0477 (J)			
1/25/2017				0.0024 (J)	0.0026 (J)	
1/26/2017	<0.03	0.0099 (J)	0.0342 (J)			0.0042 (J)
3/21/2017				0.0026 (J)	0.0029 (J)	
3/22/2017	<0.03	0.0098 (J)	0.0353 (J)			0.0043 (J)
5/23/2017				0.0026 (J)	0.0029 (J)	0.0048 (J)
5/24/2017	<0.03	0.0105 (J)	0.0317 (J)			
4/3/2018				0.0023 (J)	0.0025 (J)	0.0043 (J)
4/4/2018	<0.03	0.008 (J)	0.031 (J)			
6/5/2018	<0.03		0.031 (J)	0.0022 (J)		
6/6/2018		0.0095 (J)			0.0023 (J)	0.0043 (J)
10/2/2018				0.003 (J)	0.0025 (J)	0.004 (J)
10/3/2018	<0.03	0.0083 (J)				
10/5/2018			0.027 (J)			
3/12/2019					0.0025 (J)	
3/13/2019	<0.03		0.029 (J)	0.0024 (J)		0.004 (J)
3/14/2019		0.0058 (J)				
4/2/2019				0.002 (J)		
4/3/2019	<0.03	0.0066 (J)			0.0025 (J)	0.004 (J)
4/5/2019			0.023 (J)			
9/24/2019					0.0024 (J)	
9/25/2019				0.0019 (J)		
9/26/2019			0.035			
9/27/2019	<0.03	0.011 (J)				0.0044 (J)
3/3/2020	<0.03	0.0063 (J)			0.0028 (J)	
3/4/2020			0.041	0.0034 (J)		0.004 (J)
3/26/2020		0.0063 (J)				
3/27/2020				0.002 (J)	0.0026 (J)	
3/30/2020			0.038			
3/31/2020	<0.03					0.0043 (J)
9/16/2020				0.0026 (J)	0.0033 (J)	
9/17/2020						0.004 (J)
9/18/2020	<0.03	0.01 (J)				
9/21/2020			0.028 (J)			
2/10/2021				0.0032 (J)		
2/12/2021	<0.03	0.0094 (J)				
2/16/2021					0.0027 (J)	0.0045 (J)
2/22/2021			0.032			
3/15/2021				0.0038 (J)	0.0029 (J)	
3/16/2021	<0.03	0.0081 (J)				0.0046 (J)
3/17/2021			0.031			
8/16/2021				0.0025 (J)		
8/17/2021						0.004 (J)
8/18/2021	<0.03	0.0099 (J)			0.0029 (J)	
8/19/2021			0.028 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	<0.03	0.01 (J)				0.0041 (J)
2/10/2022			0.031	0.0022 (J)	0.003 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.0016 (J)	0.0029 (J)		0.0033 (J)	0.0097 (J)
3/14/2019	0.0089 (J)			0.05		
4/2/2019		0.0015 (J)				
4/3/2019	0.0061 (J)			0.047 (J)	0.0034 (J)	
4/4/2019						0.0069 (J)
4/8/2019			0.0027 (J)			
9/25/2019		<0.03				
9/26/2019			0.003 (J)		0.0041 (J)	0.0055 (J)
9/27/2019	0.013 (J)			0.047		
3/2/2020		0.00082 (J)				
3/3/2020				0.05		
3/4/2020	0.01 (J)		0.0026 (J)		0.03 (J)	0.0047 (J)
3/26/2020	0.013 (J)			0.054		
3/27/2020		0.0012 (J)				
3/30/2020			0.0027 (J)			
3/31/2020					0.0036 (J)	
4/2/2020						0.0068 (J)
9/17/2020		<0.03			0.0032 (J)	
9/18/2020				0.046		0.0084 (J)
9/21/2020	0.013 (J)		0.0024 (J)			
2/11/2021		0.001 (J)				
2/12/2021	0.012 (J)			0.045		
2/16/2021			0.0028 (J)		0.0038 (J)	0.0078 (J)
3/12/2021						0.009 (J)
3/15/2021		0.0011 (J)				
3/16/2021				0.049		
3/17/2021	0.012 (J)		0.0027 (J)		0.004 (J)	
8/17/2021		0.00091 (J)			0.0036 (J)	0.0079 (J)
8/18/2021	0.014 (J)					
8/19/2021			0.0027 (J)	0.046		
2/9/2022	0.0067 (J)			0.048	0.0039 (J)	
2/10/2022		0.00099 (J)	0.0029 (J)			0.0086 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.011 (J)	0.0024 (J)			
3/13/2019			<0.03	<0.03	<0.03
4/2/2019	0.0052 (J)	0.0021 (J)			
4/3/2019			<0.03	<0.03	<0.03
9/24/2019		0.0022 (J)			
9/25/2019			<0.03		
9/26/2019	0.0055 (J)			<0.03	<0.03
3/2/2020		0.0025 (J)	<0.03		
3/3/2020				<0.03	<0.03
3/4/2020	0.015 (J)				
3/26/2020			<0.03		
3/27/2020	0.014 (J)			<0.03	
3/30/2020		0.0023 (J)			<0.03
9/16/2020		0.0021 (J)			
9/17/2020			<0.03		
9/21/2020	0.0053 (J)			<0.03	<0.03
2/10/2021	0.0092 (J)				
2/15/2021		0.0024 (J)			<0.03
2/16/2021			<0.03	<0.03	
3/15/2021	0.013 (J)	0.0022 (J)			<0.03
3/16/2021			<0.03	<0.03	
8/16/2021		0.0021 (J)			
8/17/2021			<0.03	<0.03	<0.03
8/18/2021	0.0086 (J)				
2/8/2022					<0.03
2/9/2022			<0.03	<0.03	
2/10/2022	0.014 (J)	0.0023 (J)			

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.0002	<0.0002	<0.0002			
5/23/2016						<0.0002
7/11/2016	<0.0002	<0.0002				
7/12/2016			<0.0002			<0.0002
8/30/2016	4E-05 (J)	4E-05 (J)	<0.0002			
9/1/2016						<0.0002
10/19/2016	<0.0002	<0.0002	<0.0002			
10/24/2016						<0.0002
12/6/2016	<0.0002	<0.0002	<0.0002			
12/7/2016						<0.0002
1/24/2017	<0.0002	<0.0002	<0.0002			
1/26/2017						5E-05 (J)
3/21/2017	<0.0002	<0.0002	<0.0002			
3/22/2017						<0.0002
5/22/2017	<0.0002	<0.0002	<0.0002			
5/24/2017						<0.0002
4/2/2018	<0.0002	<0.0002				
4/3/2018			<0.0002			
4/4/2018						<0.0002
3/12/2019	<0.0002	<0.0002	<0.0002			
3/13/2019						<0.0002
3/2/2020	<0.0002	<0.0002	<0.0002			
3/3/2020						<0.0002
9/16/2020				<0.0002	<0.0002	
11/10/2020				<0.0002	<0.0002	
12/15/2020				<0.0002	<0.0002	
1/19/2021				<0.0002	<0.0002	
2/8/2021	<0.0002					
2/9/2021		<0.0002	<0.0002	<0.0002	<0.0002	
2/15/2021						<0.0002
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
2/9/2022						<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0002	<0.0002	
5/23/2016	<0.0002	<0.0002	<0.0002			<0.0002
7/12/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/1/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/20/2016				<0.0002	<0.0002	<0.0002
10/24/2016	<0.0002	<0.0002	<0.0002			
12/6/2016				<0.0002	<0.0002	<0.0002
12/7/2016	<0.0002	<0.0002	<0.0002			
1/25/2017				<0.0002	<0.0002	
1/26/2017	5E-05 (J)	<0.0002	4E-05 (J)			4E-05 (J)
3/21/2017				<0.0002	<0.0002	
3/22/2017	<0.0002	<0.0002	<0.0002			<0.0002
5/23/2017				<0.0002	<0.0002	<0.0002
5/24/2017	<0.0002	<0.0002	5E-05 (J)			
4/3/2018				<0.0002	<0.0002	<0.0002
4/4/2018	<0.0002	<0.0002	<0.0002			
3/12/2019					<0.0002	
3/13/2019	<0.0002		<0.0002	<0.0002		<0.0002
3/14/2019		<0.0002				
3/3/2020	<0.0002	<0.0002			<0.0002	
3/4/2020			<0.0002	<0.0002		<0.0002
2/10/2021				<0.0002		
2/12/2021	<0.0002	<0.0002				
2/16/2021					<0.0002	<0.0002
2/22/2021			<0.0002			
2/9/2022	<0.0002	<0.0002				<0.0002
2/10/2022			<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.0002	<0.0002		<0.0002	<0.0002
3/14/2019	<0.0002			<0.0002		
3/2/2020		<0.0002				
3/3/2020				<0.0002		
3/4/2020	<0.0002		<0.0002		<0.0002	<0.0002
2/11/2021		<0.0002				
2/12/2021	<0.0002			<0.0002		
2/16/2021			<0.0002		<0.0002	<0.0002
2/9/2022	<0.0002			<0.0002	<0.0002	
2/10/2022		<0.0002	<0.0002			<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.0002	<0.0002			
3/13/2019			<0.0002	<0.0002	<0.0002
3/2/2020		<0.0002	<0.0002		
3/3/2020				<0.0002	<0.0002
3/4/2020	<0.0002				
2/10/2021	<0.0002				
2/15/2021		<0.0002			<0.0002
2/16/2021			<0.0002	<0.0002	
2/8/2022					<0.0002
2/9/2022			<0.0002	<0.0002	
2/10/2022	<0.0002	<0.0002			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.01	<0.01	<0.01			
5/23/2016						<0.01
7/11/2016	<0.01	<0.01				
7/12/2016			<0.01			0.0013 (J)
8/30/2016	<0.01	<0.01	<0.01			
9/1/2016						<0.01
10/19/2016	<0.01	<0.01	<0.01			
10/24/2016						<0.01
12/6/2016	<0.01	<0.01	<0.01			
12/7/2016						<0.01
1/24/2017	<0.01	<0.01	<0.01			
1/26/2017						<0.01
3/21/2017	<0.01	<0.01	<0.01			
3/22/2017						0.0013 (J)
5/22/2017	<0.01	<0.01	<0.01			
5/24/2017						0.0014 (J)
4/2/2018	<0.01	<0.01				
4/3/2018			<0.01			
4/4/2018						<0.01
6/4/2018	<0.01	<0.01	<0.01			
6/5/2018						<0.01
10/1/2018	<0.01	<0.01	<0.01			
10/2/2018						<0.01
3/12/2019	<0.01	<0.01	<0.01			
3/13/2019						<0.01
4/1/2019			<0.01			
4/2/2019	<0.01	<0.01				
4/3/2019						0.0021 (J)
9/23/2019	<0.01	<0.01	<0.01			
9/27/2019						0.0014 (J)
3/2/2020	<0.01	<0.01	<0.01			
3/3/2020						<0.01
3/25/2020	<0.01	<0.01	<0.01			
4/1/2020						<0.01
6/16/2020	<0.01		<0.01			
9/15/2020	<0.01	<0.01	<0.01			
9/16/2020				0.0044 (J)	0.0019 (J)	0.0014 (J)
11/10/2020				0.0072 (J)	0.0018 (J)	
12/15/2020				0.0044 (J)	0.0019 (J)	
1/19/2021				0.0038 (J)	0.0035 (J)	
2/8/2021	<0.01					
2/9/2021		<0.01	<0.01	0.0045 (J)	0.0038 (J)	
2/15/2021						<0.01
3/10/2021	<0.01				0.0019 (J)	
3/11/2021		<0.01	<0.01	0.0064 (J)		
3/12/2021						0.0007 (J)
8/11/2021	<0.01			0.0034 (J)		
8/12/2021		<0.01	<0.01			
8/13/2021					0.0051 (J)	
8/17/2021						0.0012 (J)
2/1/2022	<0.01	<0.01	<0.01	0.0036 (J)	0.0055 (J)	
2/9/2022						<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				0.028	0.446	
5/23/2016	0.0164	0.0413 (J)	0.027			0.0187
7/12/2016	0.0251	0.0484	0.0316	0.0273	0.455	0.0229
9/1/2016	0.0259	0.0474	0.0336	0.0274	0.481	0.0239
10/20/2016				0.036	0.472	0.477
10/24/2016	0.0293	0.047	0.0352			
12/6/2016				0.0365	0.52	0.0236
12/7/2016	0.0209	0.0432	0.0383			
1/25/2017				0.0317	0.478	
1/26/2017	0.0277	0.0484	0.041			0.0234
3/21/2017				0.0346	0.547	
3/22/2017	0.011	0.0494	0.0426			0.0219
5/23/2017				0.0336	0.482	0.0242
5/24/2017	0.0373	0.047	0.04			
4/3/2018				0.032	0.44	0.025
4/4/2018	0.013	0.052	0.027			
6/5/2018	0.029		0.027	0.036		
6/6/2018		0.054			0.49	0.027
10/2/2018				0.039	0.47	0.028
10/3/2018	0.02	0.054				
10/5/2018			0.033			
3/12/2019					0.5	
3/13/2019	0.012		0.033	0.04		0.028
3/14/2019		0.046				
4/2/2019				0.041		
4/3/2019	0.01	0.049			0.5	0.03
4/5/2019			0.03			
9/24/2019					0.54	
9/25/2019				0.047		
9/26/2019			0.026			
9/27/2019	0.016	0.052				0.033
3/3/2020	0.011	0.045			0.44	
3/4/2020			0.03	0.045		0.031
3/26/2020		0.045				
3/27/2020				0.044	0.42	
3/30/2020			0.029			
3/31/2020	0.0074 (J)					0.031
6/16/2020					0.45	
6/17/2020				0.048		
9/16/2020				0.046	0.43	
9/17/2020						0.03
9/18/2020	0.032	0.046				
9/21/2020			0.032			
2/10/2021				0.051		
2/12/2021	0.023	0.048				
2/16/2021					0.46	0.035
2/22/2021			0.036			
3/15/2021				0.047	0.41	
3/16/2021	0.015	0.044				0.035
3/17/2021			0.035			
8/16/2021				0.045		
8/17/2021						0.035

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/18/2021	0.038	0.045			0.48	
8/19/2021			0.032			
2/9/2022	0.03	0.042				0.034
2/10/2022			0.033	0.045	0.34	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.01	<0.01		<0.01	<0.01
3/14/2019	0.057			0.0022 (J)		
4/2/2019		<0.01				
4/3/2019	0.04			<0.01	0.0083 (J)	
4/4/2019						0.0018 (J)
4/8/2019			0.00027 (J)			
9/25/2019		<0.01				
9/26/2019			<0.01		0.017	0.0042 (J)
9/27/2019	0.063			<0.01		
11/25/2019					0.02	
3/2/2020		<0.01				
3/3/2020				<0.01		
3/4/2020	0.032		<0.01		0.0074 (J)	0.0058 (J)
3/26/2020	0.033			<0.01		
3/27/2020		<0.01				
3/30/2020			<0.01			
3/31/2020					0.0093 (J)	
4/2/2020						0.003 (J)
9/17/2020		<0.01			0.014	
9/18/2020				0.00094 (J)		0.0018 (J)
9/21/2020	0.064		0.00099 (J)			
2/11/2021		<0.01				
2/12/2021	0.046			<0.01		
2/16/2021			0.00096 (J)		0.022	0.0019 (J)
3/12/2021						0.0008 (J)
3/15/2021		<0.01				
3/16/2021				<0.01		
3/17/2021	0.043		0.001 (J)		0.023	
8/17/2021		<0.01			0.024	0.0016 (J)
8/18/2021	0.032					
8/19/2021			0.00087 (J)	<0.01		
2/9/2022	0.011			<0.01	0.028	
2/10/2022		<0.01	0.0008 (J)			0.0017 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.013	0.0038 (J)			
3/13/2019			<0.01	0.0021 (J)	<0.01
4/2/2019	0.028	0.0028 (J)			
4/3/2019			<0.01	0.0021 (J)	<0.01
9/24/2019		0.0021 (J)			
9/25/2019			<0.01		
9/26/2019	0.017			0.0026 (J)	0.0033 (J)
3/2/2020		0.0025 (J)	<0.01		
3/3/2020				0.0022 (J)	<0.01
3/4/2020	0.009 (J)				
3/26/2020			<0.01		
3/27/2020	0.0068 (J)			0.0026 (J)	
3/30/2020		0.0029 (J)			<0.01
9/16/2020		0.0021 (J)			
9/17/2020			<0.01		
9/21/2020	0.018			0.0025 (J)	0.0015 (J)
2/10/2021	0.02				
2/15/2021		0.0029 (J)			0.0015 (J)
2/16/2021			<0.01	0.0025 (J)	
3/15/2021	0.013	0.0031 (J)			0.0015 (J)
3/16/2021			<0.01	0.0023 (J)	
8/16/2021		0.0027 (J)			
8/17/2021			<0.01	0.0027 (J)	0.003 (J)
8/18/2021	0.022				
2/8/2022					0.0012 (J)
2/9/2022			<0.01	0.0026 (J)	
2/10/2022	0.0031 (J)	0.0036 (J)			

Time Series

Constituent: pH, Field (SU) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	7.27	5.81	7.45			
5/23/2016						6.83
7/11/2016	7.06	5.68				
7/12/2016			7.32			6.58
8/30/2016	7.28	5.63	7.43			
9/1/2016						6.54
10/19/2016	7.02	5.46	7.03			
10/24/2016						6.59
12/6/2016	7.09	5.38	7.08			
12/7/2016						6.56
1/24/2017	7.2	5.37	7.39			
1/26/2017						6.83
3/21/2017	7.01	4.9	6.83			
3/22/2017						6.66
5/22/2017	7.11	5.2	7.02			
5/24/2017						6.67
10/3/2017	7.21	5.3	7.47			6.54
4/2/2018	7.1	5.4				
4/3/2018			7.38			
4/4/2018						6.61
6/4/2018	7.06	5.27	7.38			
6/5/2018						6.65
10/1/2018	7.09	5.31	7.13			
10/2/2018						6.55
3/12/2019	7.03	5.42	7.29			
3/13/2019						6.7
4/1/2019			7.16			
4/2/2019	6.86	5.41				
4/3/2019						6.55
9/23/2019	7.02	5.33	7.3			
9/27/2019						6.64
3/2/2020	7.1	5.43	7.12			
3/3/2020						6.67
3/25/2020	6.95	5.36	7.4			
4/1/2020						6.84
6/16/2020	6.97 (D)		7.31 (D)			
9/15/2020	7.15	5.22	7.29			
9/16/2020				7.52	7.83	6.66
11/10/2020				7.27	7.84	
12/15/2020				7.39	7.87	
1/19/2021				7.39	7.86	
2/8/2021	7.11					
2/9/2021		5.42	7.23	7.44	7.84	
2/15/2021						6.83
3/10/2021	6.95				7.92	
3/11/2021		5.8	7.33	7.46		
3/12/2021						6.76
8/11/2021	6.98			7.4		
8/12/2021		5.05	7.31			
8/13/2021					7.77	
8/17/2021						6.75
2/1/2022	7.19	5.24	7.45	7.52	8.25	

Time Series

Constituent: pH, Field (SU) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
2/9/2022						7

Time Series

Constituent: pH, Field (SU) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				7.14	6.99	
5/23/2016	6.22	7.15	7.14			7.23
7/12/2016	6.04	6.87	7.04	7.13	6.88	6.87
9/1/2016	6.26	7.2	7.24	7.29	6.73	7.15
10/20/2016				7.1	6.9	7.05
10/24/2016	6.46	7.1	6.9			
12/6/2016				7.15	6.98	7.15
12/7/2016	6.29	6.92	6.91			
1/25/2017				7.11	7.04	
1/26/2017	6.46	7.05	7.08			6.99
3/21/2017				7.12	6.87	
3/22/2017	5.81	7.08	7.13			7.03
5/23/2017				7.08	6.87	7.05
5/24/2017	6.51	7.11	7.15			
10/3/2017	6.25	7.01	7.32	7.21	6.72	7.07
4/3/2018				7.14	6.87	6.99
4/4/2018	5.86	7.12	7.27			
6/5/2018	6.27		7.2	7.13		
6/6/2018		7.12			6.9	7.02
10/2/2018				7.12	6.9	7.05
10/3/2018	5.97	7.08				
10/5/2018			7.24			
3/12/2019					6.91	
3/13/2019	5.92		7.24	7.27		7.06
3/14/2019		7.09				
4/2/2019				7.27		
4/3/2019	5.69	6.96			6.85	6.88
4/5/2019			7.24			
9/24/2019					6.95	
9/25/2019				7.11		
9/26/2019			6.94			
9/27/2019	5.75	7.07				7.01
3/3/2020	5.95	6.95			7.06	
3/4/2020			7.16	7.17		6.97
3/26/2020		6.99				
3/27/2020				7.05	6.95	
3/30/2020			6.91			
3/31/2020	5.7					7.07
6/16/2020					6.97 (D)	
6/17/2020				7.2 (D)		
9/16/2020				7.3	6.92	
9/17/2020						6.99
9/18/2020	6.42	7.15				
9/21/2020			7.34			
2/10/2021				7.29		
2/12/2021	7.27	6.23				
2/16/2021					7.16	7.26
2/22/2021			7.27			
3/15/2021				7.19	7.09	
3/16/2021	5.95	7.15				7.1
3/17/2021			7.33			
8/16/2021				7.12		

Time Series

Constituent: pH, Field (SU) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/17/2021						7.1
8/18/2021	6.1	6.89			7.02	
8/19/2021			7.38			
2/9/2022	6.55	7.23				7.3
2/10/2022			7.54	7.22	6.99	

Time Series

Constituent: pH, Field (SU) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		6.75	7.58		7.4	7.78
3/14/2019	6.48			7.67		
4/2/2019		6.7				
4/3/2019	6.14			7.56	7.25	
4/4/2019						7.63
4/8/2019			7.47			
9/25/2019		6.75				
9/26/2019			7.5		7.16	7.46
9/27/2019	6.33			7.57		
3/2/2020		6.98				
3/3/2020				7.59		
3/4/2020	6.29		7.47		7.14	8.33
3/26/2020	6.28			7.57		
3/27/2020		6.75				
3/30/2020			7.49			
3/31/2020					7.2	
4/2/2020						8.11
9/17/2020		6.78			7.08	
9/18/2020				7.64		7.51
9/21/2020	6.41		7.65			
2/11/2021		6.93				
2/12/2021	6.36			7.77		
2/16/2021			7.69		7.27	7.96
3/12/2021						7.88
3/15/2021		6.97				
3/16/2021				7.76		
3/17/2021	6.34		7.66		7.14	
8/17/2021		7.05			7.14	7.75
8/18/2021	6.28					
8/19/2021			7.61	7.69		
2/9/2022	6.28			7.82	7.32	
2/10/2022		7.19	7.82			7.96

Time Series

Constituent: pH, Field (SU) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	7.46	7.2			
3/13/2019			6.16	6.86	6.37
4/2/2019	7.4	6.91			
4/3/2019			5.96	6.77	6.19
9/24/2019		6.86			
9/25/2019			6.37		
9/26/2019	7.4			6.76	6.5
3/2/2020		7.13	6.12		
3/3/2020				6.78	6.1
3/4/2020	7.55				
3/26/2020			6.14		
3/27/2020	7.42			6.82	
3/30/2020		7.07			6.06
9/16/2020		6.88			
9/17/2020			6.48		
9/21/2020	7.46			6.88	6.5
2/10/2021	7.54				
2/15/2021		7.09			6.77
2/16/2021			5.95	7	
3/15/2021	7.61	7.05			6.66
3/16/2021			5.78	6.96	
8/16/2021		7.08			
8/17/2021			5.99	6.86	6.88
8/18/2021	7.16				
2/8/2022					6.73
2/9/2022			6.13	7.01	
2/10/2022	7.59	7.27			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.005	<0.005	<0.005			
5/23/2016						<0.005
7/11/2016	<0.005	<0.005				
7/12/2016			<0.005			<0.005
8/30/2016	<0.005	<0.005	<0.005			
9/1/2016						<0.005
10/19/2016	<0.005	<0.005	<0.005			
10/24/2016						<0.005
12/6/2016	<0.005	<0.005	<0.005			
12/7/2016						<0.005
1/24/2017	<0.005	<0.005	<0.005			
1/26/2017						0.0041 (J)
3/21/2017	<0.005	<0.005	<0.005			
3/22/2017						<0.005
5/22/2017	<0.005	<0.005	<0.005			
5/24/2017						<0.005
4/2/2018	<0.005	<0.005				
4/3/2018			<0.005			
4/4/2018						<0.005
6/4/2018	<0.005	<0.005	<0.005			
6/5/2018						<0.005
10/1/2018	<0.005	<0.005	<0.005			
10/2/2018						0.0023 (J)
3/12/2019	<0.005	<0.005	<0.005			
3/13/2019						0.0015 (J)
4/1/2019			<0.005			
4/2/2019	<0.005	<0.005				
4/3/2019						<0.005
9/23/2019	<0.005	<0.005	<0.005			
9/27/2019						<0.005
3/2/2020	<0.005	<0.005	<0.005			
3/3/2020						<0.005
3/25/2020	<0.005	<0.005	<0.005			
4/1/2020						0.002 (J)
9/15/2020	<0.005	<0.005	<0.005			
9/16/2020				<0.005	<0.005	<0.005
11/10/2020				<0.005	<0.005	
12/15/2020				<0.005	<0.005	
1/19/2021				<0.005	<0.005	
2/8/2021	<0.005					
2/9/2021		<0.005	<0.005	<0.005	<0.005	
2/15/2021						0.0028 (J)
3/10/2021	0.0047 (J)				<0.005	
3/11/2021		<0.005	<0.005	<0.005		
3/12/2021						<0.005
8/11/2021	<0.005			<0.005		
8/12/2021		<0.005	<0.005			
8/13/2021					<0.005	
8/17/2021						<0.005
2/1/2022	<0.005	<0.005	<0.005	<0.005	<0.005	
2/9/2022						0.0031 (J)

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	<0.005	
5/23/2016	0.0106	<0.005	<0.005			<0.005
7/12/2016	0.0057 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	0.0057 (J)	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016				<0.005	<0.005	<0.005
10/24/2016	0.0021 (J)	<0.005	<0.005			
12/6/2016				<0.005	0.0024 (J)	0.0037 (J)
12/7/2016	0.0015 (J)	0.0011 (J)	<0.005			
1/25/2017				<0.005	<0.005	
1/26/2017	0.0062 (J)	<0.005	<0.005			<0.005
3/21/2017				<0.005	<0.005	
3/22/2017	0.0263	<0.005	<0.005			<0.005
5/23/2017				<0.005	<0.005	<0.005
5/24/2017	0.0038 (J)	<0.005	<0.005			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	0.021	<0.005	<0.005			
6/5/2018	0.0062 (J)		<0.005	<0.005		
6/6/2018		<0.005			<0.005	<0.005
10/2/2018				<0.005	<0.005	<0.005
10/3/2018	0.009 (J)	<0.005				
10/5/2018			<0.005			
3/12/2019					<0.005	
3/13/2019	0.023		<0.005	<0.005		<0.005
3/14/2019		<0.005				
4/2/2019				<0.005		
4/3/2019	0.016	<0.005			<0.005	<0.005
4/5/2019			0.00018 (J)			
9/24/2019					<0.005	
9/25/2019				<0.005		
9/26/2019			<0.005			
9/27/2019	0.013	<0.005				<0.005
3/3/2020	0.016	<0.005			<0.005	
3/4/2020			<0.005	<0.005		<0.005
3/26/2020		<0.005				
3/27/2020				<0.005	<0.005	
3/30/2020			<0.005			
3/31/2020	0.019					<0.005
9/16/2020				<0.005	<0.005	
9/17/2020						<0.005
9/18/2020	0.0042 (J)	<0.005				
9/21/2020			0.0016 (J)			
2/10/2021				<0.005		
2/12/2021	0.0079 (J)	<0.005				
2/16/2021					<0.005	<0.005
2/22/2021			<0.005			
3/15/2021				<0.005	<0.005	
3/16/2021	0.015	<0.005				<0.005
3/17/2021			<0.005			
8/16/2021				<0.005		
8/17/2021						<0.005
8/18/2021	0.0033 (J)	<0.005			<0.005	
8/19/2021			<0.005			

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.0035 (J)	<0.005				<0.005
2/10/2022			<0.005	<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.005	<0.005		<0.005	<0.005
3/14/2019	<0.005			<0.005		
4/2/2019		<0.005				
4/3/2019	0.007 (J)			<0.005	<0.005	
4/4/2019						0.00012 (J)
4/8/2019			<0.005			
9/25/2019		<0.005				
9/26/2019			<0.005		<0.005	<0.005
9/27/2019	0.0013 (J)			<0.005		
3/2/2020		<0.005				
3/3/2020				<0.005		
3/4/2020	0.0044 (J)		<0.005		<0.005	<0.005
3/26/2020	0.0053 (J)			<0.005		
3/27/2020		<0.005				
3/30/2020			<0.005			
3/31/2020					<0.005	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		<0.005
9/21/2020	0.0033 (J)		<0.005			
2/11/2021		<0.005				
2/12/2021	0.0021 (J)			<0.005		
2/16/2021			<0.005		<0.005	<0.005
3/12/2021						<0.005
3/15/2021		<0.005				
3/16/2021				<0.005		
3/17/2021	<0.005		<0.005		<0.005	
8/17/2021		<0.005			<0.005	<0.005
8/18/2021	0.0026 (J)					
8/19/2021			<0.005	<0.005		
2/9/2022	0.0036 (J)			<0.005	<0.005	
2/10/2022		<0.005	<0.005			<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			0.0033 (J)	<0.005	0.0016 (J)
4/2/2019	<0.005	<0.005			
4/3/2019			0.0027 (J)	<0.005	<0.005
9/24/2019		<0.005			
9/25/2019			0.0021 (J)		
9/26/2019	<0.005			<0.005	0.0014 (J)
3/2/2020		<0.005	0.0041 (J)		
3/3/2020				<0.005	<0.005
3/4/2020	<0.005				
3/26/2020			0.0039 (J)		
3/27/2020	<0.005			<0.005	
3/30/2020		<0.005			0.0014 (J)
9/16/2020		<0.005			
9/17/2020			0.0028 (J)		
9/21/2020	<0.005			<0.005	0.0026 (J)
2/10/2021	<0.005				
2/15/2021		<0.005			<0.005
2/16/2021			0.0035 (J)	<0.005	
3/15/2021	<0.005	<0.005			0.0021 (J)
3/16/2021			0.0026 (J)	<0.005	
8/16/2021		<0.005			
8/17/2021			0.0017 (J)	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					0.0015 (J)
2/9/2022			0.0027 (J)	<0.005	
2/10/2022	<0.005	<0.005			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2022 2:35 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	66.9	48.6	42.3			
5/23/2016						175
7/11/2016	41	45				
7/12/2016			44			190
8/30/2016	36	42	40			
9/1/2016						190
10/19/2016	46	44	43			
10/24/2016						190
12/6/2016	59	44	43			
12/7/2016						200
1/24/2017	46	46	48			
1/26/2017						90
3/21/2017	63	46	45			
3/22/2017						170
5/22/2017	77	48	46			
5/24/2017						190
10/3/2017	42	47	48			200
6/4/2018	71.8	47.8	46.6			
6/5/2018						205
10/1/2018	49.1	48.1	48.6			
10/2/2018						178
4/1/2019			50.4			
4/2/2019	84.3	48.7				
4/3/2019						159
9/23/2019	70.2	47.2	43.9			
9/27/2019						181
3/25/2020	85.9	46.3	50.5			
4/1/2020						59
6/16/2020	88.2		49.5			
9/15/2020	47.3	51.5	44.7			
9/16/2020				43	6.9	169
11/10/2020				39	6.3	
12/15/2020				38.8	6.7	
1/19/2021				37.3	7.4	
3/10/2021	49.6				<1	
3/11/2021		52.9	50.4	38.6		
3/12/2021						120
8/11/2021	48.9			30.5		
8/12/2021		47.4	38.6			
8/13/2021					56.1	
8/17/2021						156
2/1/2022	43.7	67.1	46	37.5	56.3	
2/9/2022						49.2

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				96	219	
5/23/2016	260	288	215			207
7/12/2016	390	320	210	100	230	230
9/1/2016	240	300	190	100	230	230
10/20/2016				110	240	240
10/24/2016	370	270	180			
12/6/2016				110	250	240
12/7/2016	260	280	120			
1/25/2017				110	260	
1/26/2017	230	260	83			270
3/21/2017				110	240	
3/22/2017	330	220	100			240
5/23/2017				110	270	240
5/24/2017	230	210	110			
10/3/2017	230	190	67	120	230	240
6/5/2018	204		187	117		
6/6/2018		162			190	214
10/2/2018				120	193	218
10/3/2018	233	191				
10/5/2018			78.3			
4/2/2019				127		
4/3/2019	298	176			194	214
4/5/2019			105			
9/24/2019					133	
9/25/2019				109		
9/26/2019			444			
9/27/2019	<1	198				214
3/26/2020		182				
3/27/2020				109	173	
3/30/2020			393			
3/31/2020	283					185
6/16/2020					157	
6/17/2020				102		
9/16/2020				109	194	
9/17/2020						209
9/18/2020	272	266				
9/21/2020			359			
3/15/2021				107	272	
3/16/2021	291	248				211
3/17/2021			384			
8/16/2021				98.1		
8/17/2021						207
8/18/2021	237	226			245	
8/19/2021			339			
2/9/2022	276	252				224
2/10/2022			371	97.5	224	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		122				
4/3/2019	105			53	131	
4/4/2019						11.8
4/8/2019			97.3			
9/25/2019		112				
9/26/2019			91		189	15.6
9/27/2019	170			48		
3/26/2020	310			32.3		
3/27/2020		114				
3/30/2020			84.9			
3/31/2020					129	
4/2/2020						13.3
9/17/2020		110			174	
9/18/2020				27.4		7.5
9/21/2020	305		114			
3/12/2021						7.4
3/15/2021		109				
3/16/2021				9.4		
3/17/2021	260		137		212	
8/17/2021		98.6			194	8.2
8/18/2021	219					
8/19/2021			130	4.1		
2/9/2022	221			1.7	224	
2/10/2022		95.9	127			13.2

Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	67.7	151			
4/3/2019			218	228	75.3
9/24/2019		154			
9/25/2019			134		
9/26/2019	96.2			225	129
3/26/2020			176		
3/27/2020	36			204	
3/30/2020		130			46.2
9/16/2020		143			
9/17/2020			153		
9/21/2020	84.2			221	114
3/15/2021	50.1	148			92.1
3/16/2021			162	189	
8/16/2021		136			
8/17/2021			154	194	105
8/18/2021	82.1				
2/8/2022					80.4
2/9/2022			123	197	
2/10/2022	32.5	141			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.001	<0.001	<0.001			
5/23/2016						<0.001
7/11/2016	<0.001	<0.001				
7/12/2016			<0.001			<0.001
8/30/2016	<0.001	<0.001	<0.001			
9/1/2016						<0.001
10/19/2016	<0.001	<0.001	<0.001			
10/24/2016						<0.001
12/6/2016	<0.001	<0.001	<0.001			
12/7/2016						<0.001
1/24/2017	<0.001	<0.001	<0.001			
1/26/2017						<0.001
3/21/2017	<0.001	3E-05 (J)	<0.001			
3/22/2017						<0.001
5/22/2017	<0.001	<0.001	<0.001			
5/24/2017						<0.001
4/2/2018	<0.001	<0.001				
4/3/2018			<0.001			
4/4/2018						<0.001
6/4/2018	<0.001	<0.001	<0.001			
6/5/2018						<0.001
10/1/2018	<0.001	<0.001	<0.001			
10/2/2018						<0.001
3/12/2019	<0.001	<0.001	<0.001			
3/13/2019						<0.001
4/1/2019			<0.001			
4/2/2019	<0.001	<0.001				
4/3/2019						<0.001
9/23/2019	<0.001	<0.001	<0.001			
9/27/2019						<0.001
3/2/2020	<0.001	<0.001	<0.001			
3/3/2020						<0.001
3/25/2020	<0.001	<0.001	<0.001			
4/1/2020						<0.001
9/15/2020	<0.001	<0.001	<0.001			
9/16/2020				<0.001	<0.001	<0.001
11/10/2020				<0.001	<0.001	
12/15/2020				<0.001	<0.001	
1/19/2021				<0.001	<0.001	
2/8/2021	<0.001					
2/9/2021		<0.001	<0.001	<0.001	<0.001	
2/15/2021						<0.001
3/10/2021	<0.001				<0.001	
3/11/2021		<0.001	<0.001	<0.001		
3/12/2021						<0.001
8/11/2021	<0.001			<0.001		
8/12/2021		<0.001	<0.001			
8/13/2021					<0.001	
8/17/2021						<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
2/9/2022						<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.001	<0.001	
5/23/2016	<0.001	<0.001	0.000378 (J)			<0.001
7/12/2016	8E-05 (J)	0.0002 (J)	0.0004 (J)	<0.001	7E-05 (J)	<0.001
9/1/2016	<0.001	<0.001	0.0004 (J)	<0.001	<0.001	<0.001
10/20/2016				<0.001	<0.001	<0.001
10/24/2016	<0.001	<0.001	0.0005 (J)			
12/6/2016				<0.001	<0.001	<0.001
12/7/2016	<0.001	<0.001	0.0004 (J)			
1/25/2017				<0.001	<0.001	
1/26/2017	<0.001	<0.001	0.0004 (J)			<0.001
3/21/2017				<0.001	9E-05 (J)	
3/22/2017	<0.001	0.0001 (J)	0.0004 (J)			<0.001
5/23/2017				<0.001	8E-05 (J)	<0.001
5/24/2017	8E-05 (J)	9E-05 (J)	0.0003 (J)			
4/3/2018				<0.001	<0.001	<0.001
4/4/2018	<0.001	<0.001	0.00032 (J)			
6/5/2018	<0.001		0.00035 (J)	<0.001		
6/6/2018		<0.001			<0.001	<0.001
10/2/2018				<0.001	<0.001	<0.001
10/3/2018	<0.001	<0.001				
10/5/2018			0.00025 (J)			
3/12/2019					<0.001	
3/13/2019	<0.001		0.00039 (J)	<0.001		<0.001
3/14/2019		<0.001				
4/2/2019				<0.001		
4/3/2019	<0.001	<0.001			<0.001	<0.001
4/5/2019			0.00034 (J)			
9/24/2019					0.00011 (J)	
9/25/2019				<0.001		
9/26/2019			0.00039 (J)			
9/27/2019	<0.001	8.8E-05 (J)				<0.001
3/3/2020	<0.001	6.6E-05 (J)			6.1E-05 (J)	
3/4/2020			0.00056 (J)	<0.001		<0.001
3/26/2020		8E-05 (J)				
3/27/2020				<0.001	7.7E-05 (J)	
3/30/2020			0.00048 (J)			
3/31/2020	<0.001					<0.001
9/16/2020				<0.001	<0.001	
9/17/2020						<0.001
9/18/2020	<0.001	<0.001				
9/21/2020			0.00036 (J)			
2/10/2021				<0.001		
2/12/2021	<0.001	<0.001				
2/16/2021					<0.001	<0.001
2/22/2021			0.0003 (J)			
3/15/2021				<0.001	<0.001	
3/16/2021	<0.001	<0.001				<0.001
3/17/2021			0.00037 (J)			
8/16/2021				<0.001		
8/17/2021						<0.001
8/18/2021	<0.001	<0.001			<0.001	
8/19/2021			0.0002 (J)			

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	<0.001	<0.001				<0.001
2/10/2022			<0.001	<0.001	<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.001	<0.001		<0.001	<0.001
3/14/2019	<0.001			<0.001		
4/2/2019		<0.001				
4/3/2019	<0.001			<0.001	<0.001	
4/4/2019						<0.001
4/8/2019			<0.001			
9/25/2019		<0.001				
9/26/2019			<0.001		<0.001	<0.001
9/27/2019	0.00027 (J)			<0.001		
3/2/2020		<0.001				
3/3/2020				<0.001		
3/4/2020	0.00026 (J)		<0.001		<0.001	<0.001
3/26/2020	0.00026 (J)			<0.001		
3/27/2020		<0.001				
3/30/2020			<0.001			
3/31/2020					<0.001	
4/2/2020						<0.001
9/17/2020		<0.001			<0.001	
9/18/2020				<0.001		<0.001
9/21/2020	0.0003 (J)		<0.001			
2/11/2021		<0.001				
2/12/2021	0.00019 (J)			<0.001		
2/16/2021			<0.001		<0.001	<0.001
3/12/2021						<0.001
3/15/2021		<0.001				
3/16/2021				<0.001		
3/17/2021	0.00026 (J)		<0.001		<0.001	
8/17/2021		<0.001			<0.001	<0.001
8/18/2021	0.00023 (J)					
8/19/2021			<0.001	<0.001		
2/9/2022	<0.001			<0.001	<0.001	
2/10/2022		<0.001	<0.001			<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 4/25/2022 2:35 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.001	<0.001			
3/13/2019			<0.001	<0.001	<0.001
4/2/2019	<0.001	<0.001			
4/3/2019			<0.001	<0.001	<0.001
9/24/2019		6.4E-05 (J)			
9/25/2019			<0.001		
9/26/2019	<0.001			<0.001	<0.001
3/2/2020		<0.001	<0.001		
3/3/2020				8.2E-05 (J)	<0.001
3/4/2020	9.2E-05 (J)				
3/26/2020			<0.001		
3/27/2020	<0.001			<0.001	
3/30/2020		<0.001			<0.001
9/16/2020		<0.001			
9/17/2020			<0.001		
9/21/2020	<0.001			<0.001	<0.001
2/10/2021	<0.001				
2/15/2021		<0.001			<0.001
2/16/2021			<0.001	<0.001	
3/15/2021	<0.001	<0.001			<0.001
3/16/2021			<0.001	<0.001	
8/16/2021		<0.001			
8/17/2021			<0.001	<0.001	<0.001
8/18/2021	<0.001				
2/8/2022					<0.001
2/9/2022			<0.001	<0.001	
2/10/2022	<0.001	<0.001			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	421	143	267			
5/23/2016						629
7/11/2016	363	125				
7/12/2016			249			661
8/30/2016	330	168	254			
9/1/2016						769
10/19/2016	380	176	357			
10/24/2016						643
12/6/2016	377	145	285			
12/7/2016						697
1/24/2017	342	129	300			
1/26/2017						368
3/21/2017	340	103	288			
3/22/2017						683
5/22/2017	338	92	263			
5/24/2017						696
10/3/2017	343	127	300			746
6/4/2018	415	140	266			
6/5/2018						679
10/1/2018	354	135	291			
10/2/2018						572
4/1/2019			284			
4/2/2019	452	133				
4/3/2019						525
9/23/2019	442	129	268			
9/27/2019						624
3/25/2020	496	138	284			
4/1/2020						290
6/16/2020	632		448			
9/15/2020	265	124	258			
9/16/2020				272	270	490
11/10/2020				307	287	
12/15/2020				289	295	
1/19/2021				270	278	
3/10/2021	348				289	
3/11/2021		169	267	279		
3/12/2021						490 (H1)
8/11/2021	366			277		
8/12/2021		118	265			
8/13/2021					436	
8/17/2021						496
2/1/2022	270	156	350	156	444	
2/9/2022						250

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				427	711	
5/23/2016	564	1060	683			984
7/12/2016	627	909	563	410	704	887
9/1/2016	656	1480	702	484	763	956
10/20/2016				393	644	642
10/24/2016	836	868	647			
12/6/2016				492	733	899
12/7/2016	748	811	465			
1/25/2017				461	744	
1/26/2017	571	846	411			869
3/21/2017				415	818	
3/22/2017	597	804	427			936
5/23/2017				450	765	939
5/24/2017	566	803	377			
10/3/2017	443	608	268	464	812	1040
6/5/2018	489		528	459		
6/6/2018		535			611	810
10/2/2018				426	597	693
10/3/2018	449	607				
10/5/2018			322			
4/2/2019				428		
4/3/2019	483	462			543	673
4/5/2019			331			
9/24/2019					457	
9/25/2019				503		
9/26/2019			1010			
9/27/2019	528	653				730
3/26/2020		533				
3/27/2020				413	541	
3/30/2020			895			
3/31/2020	565					1010
6/16/2020					573	
6/17/2020				423		
9/16/2020				392	552	
9/17/2020						680
9/18/2020	626	704				
9/21/2020			732			
3/15/2021				370	614	
3/16/2021	558	614				672
3/17/2021			716			
8/16/2021				407		
8/17/2021						704
8/18/2021	566	600			620	
8/19/2021			726			
2/9/2022	544	678				756
2/10/2022			814	414	578	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		435				
4/3/2019	310			15 (J)	493	
4/4/2019						203
4/8/2019			323			
9/25/2019		461				
9/26/2019			360		643	265
9/27/2019	442			409		
3/26/2020	626			385		
3/27/2020		429				
3/30/2020			280			
3/31/2020					623	
4/2/2020						224
9/17/2020		460			732	
9/18/2020				382		211
9/21/2020	608		391			
3/12/2021						215
3/15/2021		406				
3/16/2021				347		
3/17/2021	543		420		738	
8/17/2021		437			746	239
8/18/2021	464					
8/19/2021			420	373		
2/9/2022	503			364	734	
2/10/2022		459	412			242

Time Series

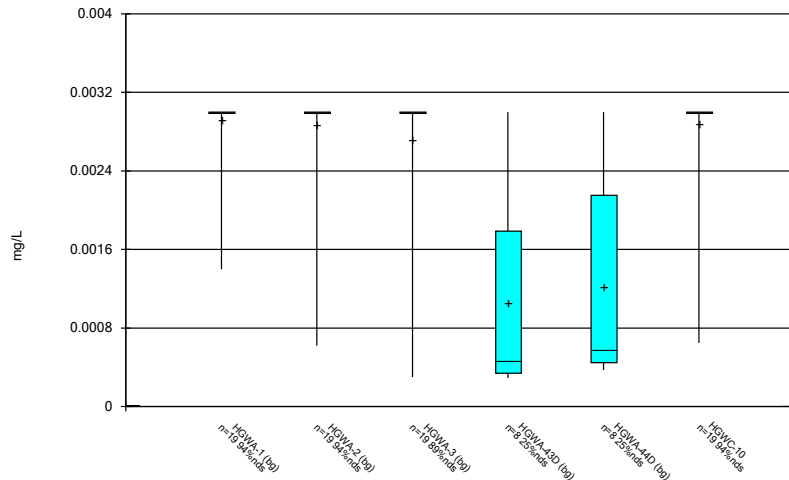
Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/25/2022 2:35 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	350	548			
4/3/2019			396	437	213
9/24/2019		603			
9/25/2019			460		
9/26/2019	418			735	383
3/26/2020			385		
3/27/2020	287			676	
3/30/2020		552			142
9/16/2020		547			
9/17/2020			486		
9/21/2020	393			656	326
3/15/2021	293	555			293
3/16/2021			333	600	
8/16/2021		512			
8/17/2021			339	656	344
8/18/2021	396				
2/8/2022					290
2/9/2022			314	652	
2/10/2022	299	508			

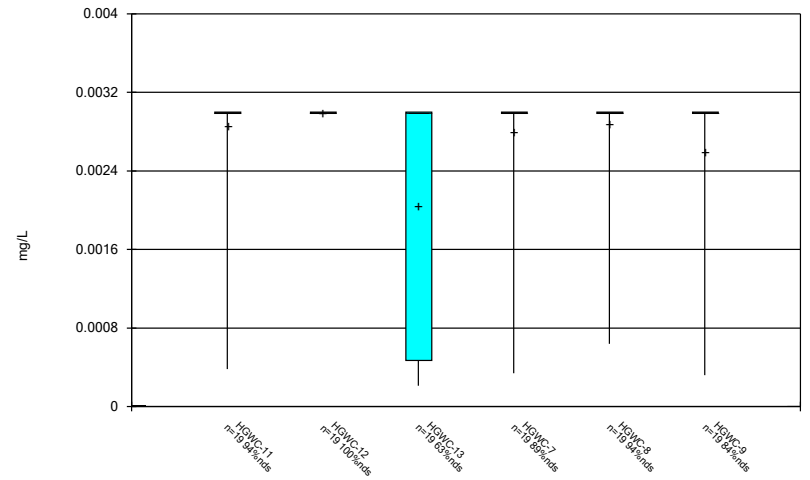
FIGURE B.

Box & Whiskers Plot



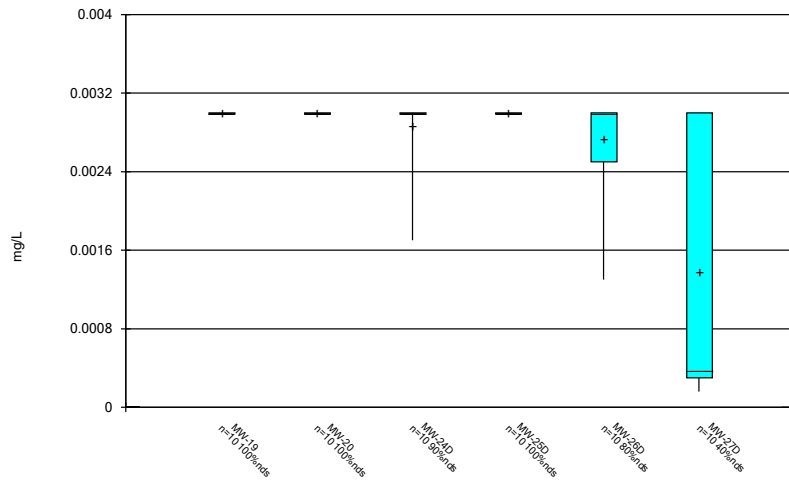
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



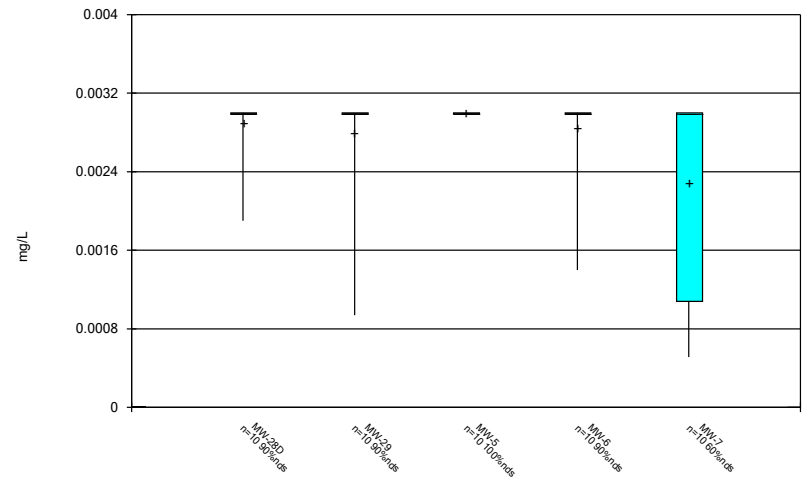
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



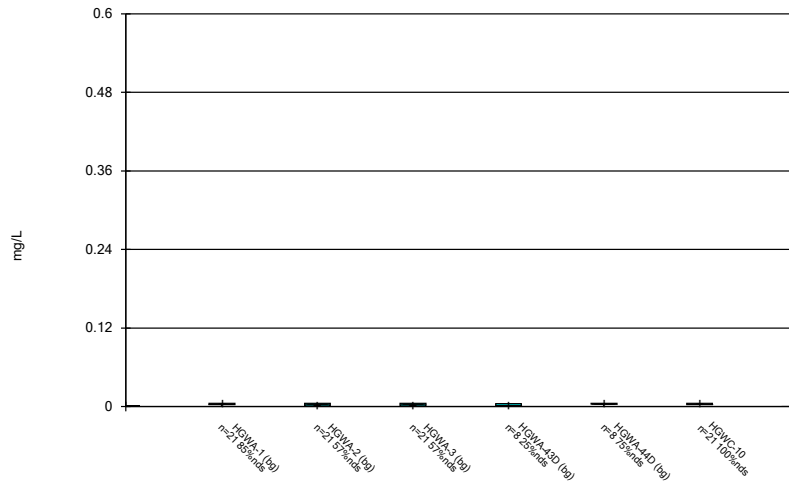
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



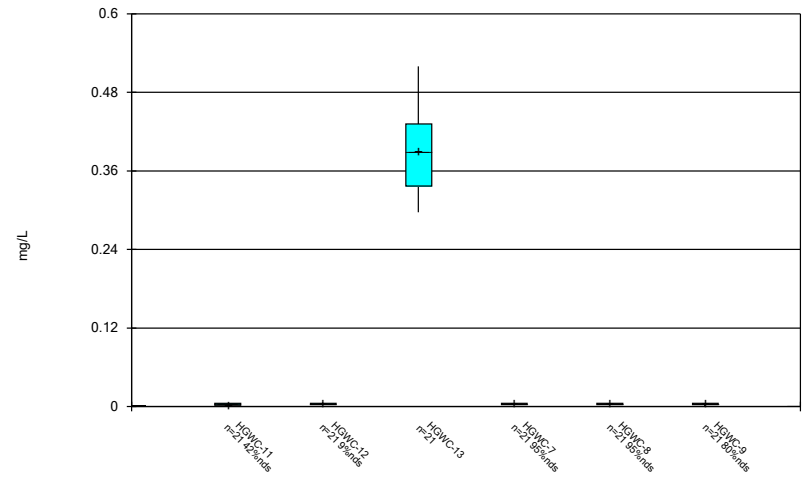
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



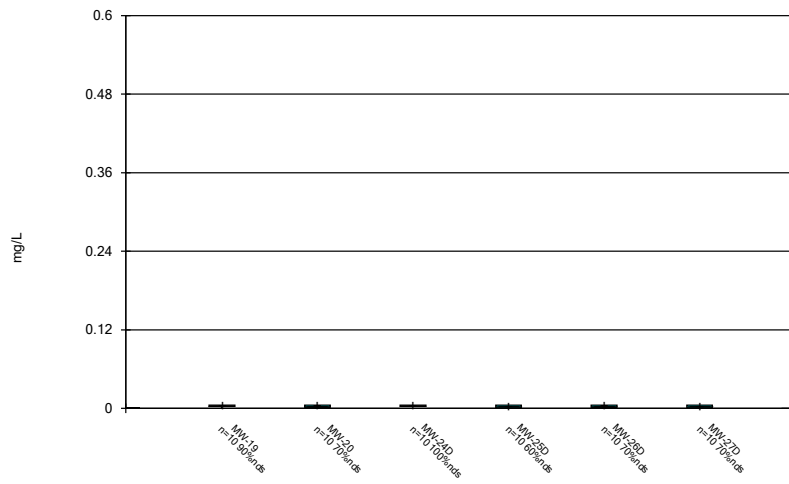
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



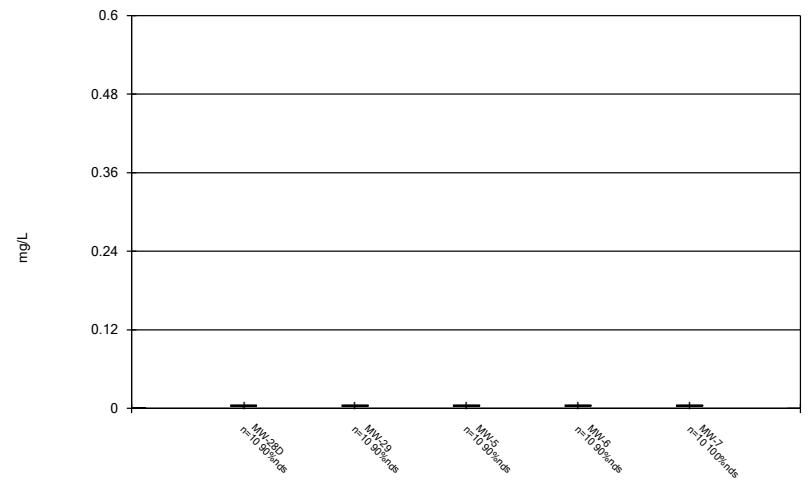
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Box & Whiskers Plot



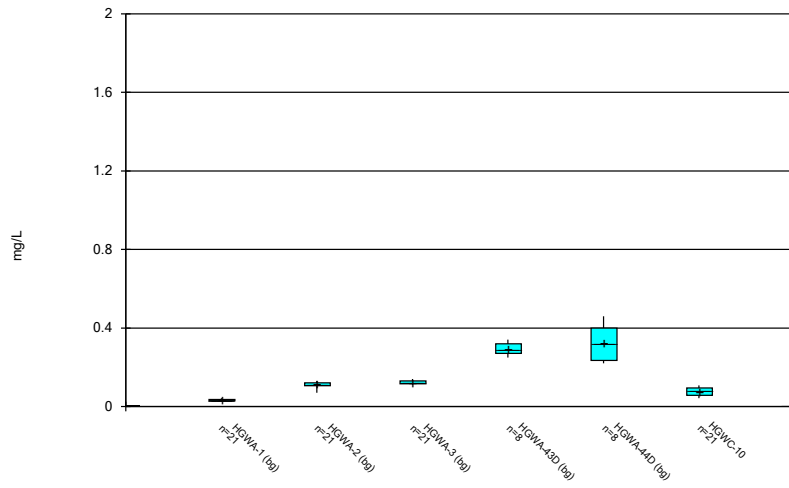
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Box & Whiskers Plot



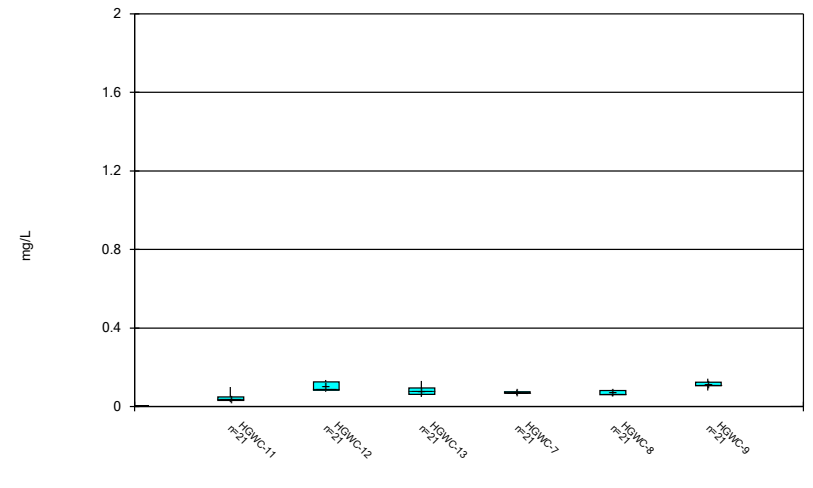
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Box & Whiskers Plot



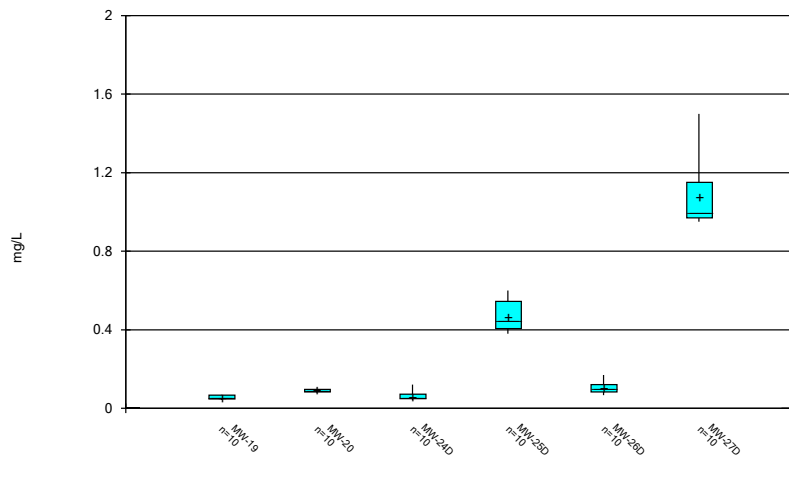
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Box & Whiskers Plot



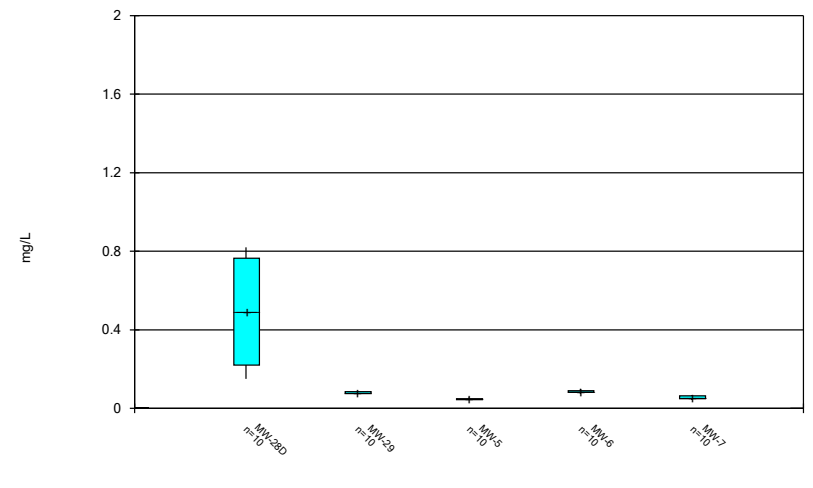
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Box & Whiskers Plot



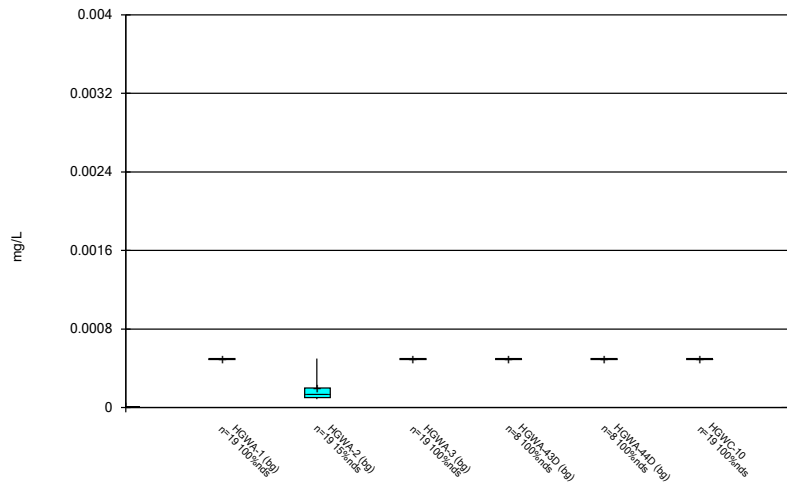
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Box & Whiskers Plot



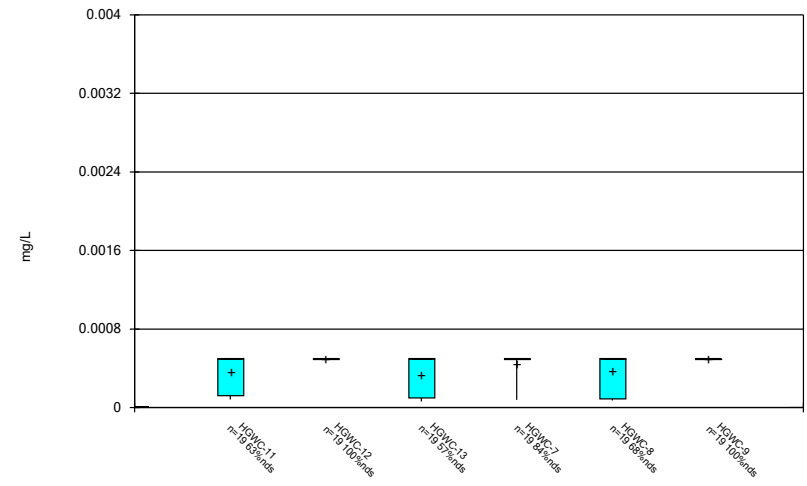
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



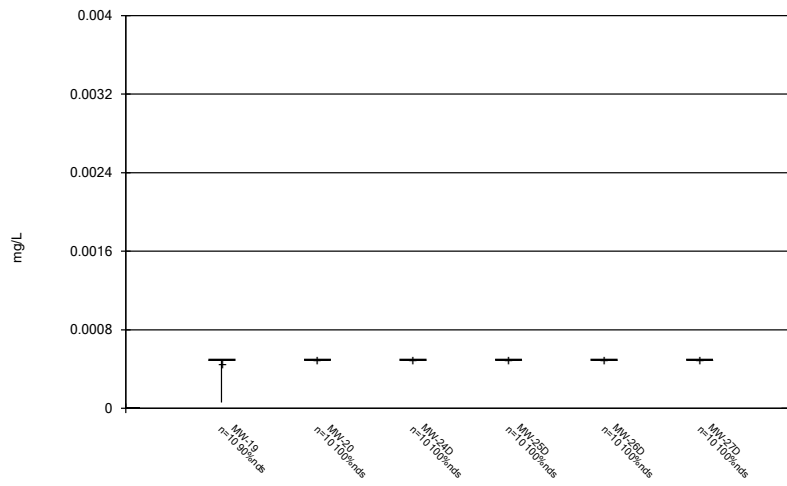
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Box & Whiskers Plot



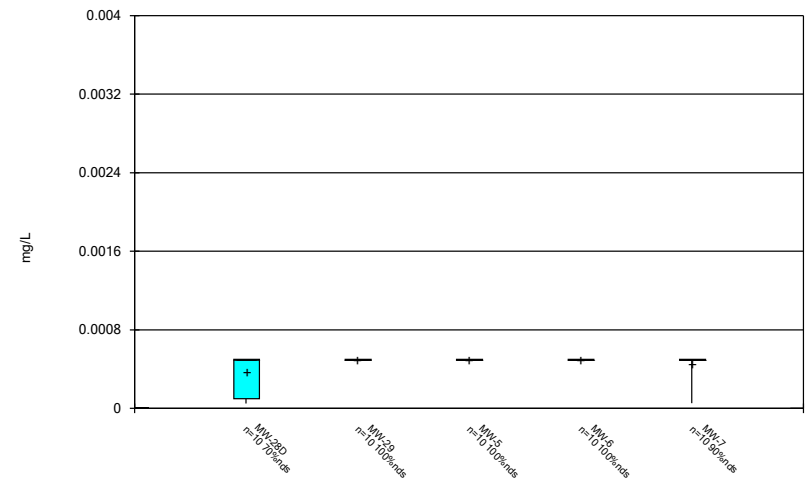
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



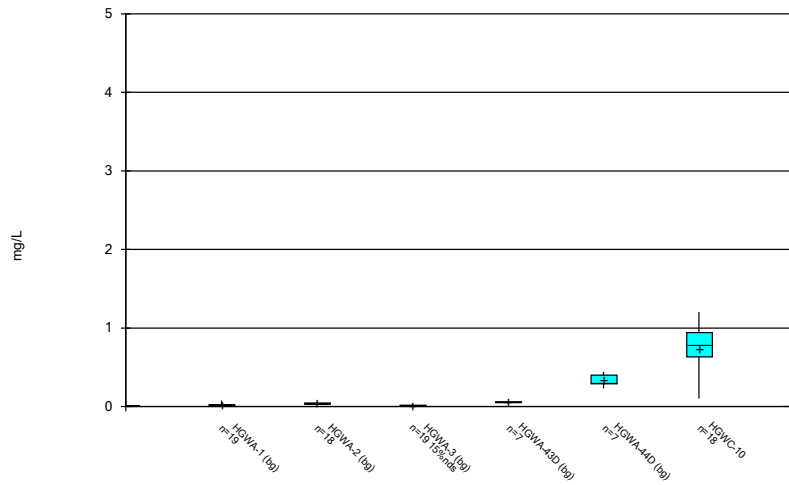
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



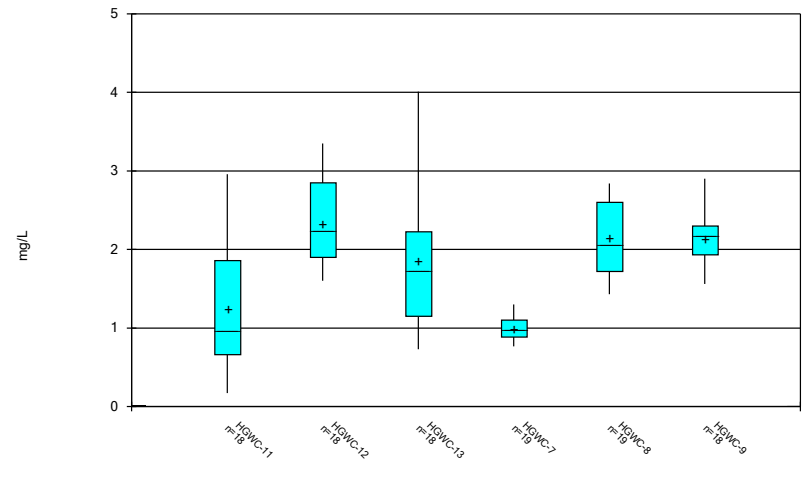
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Box & Whiskers Plot



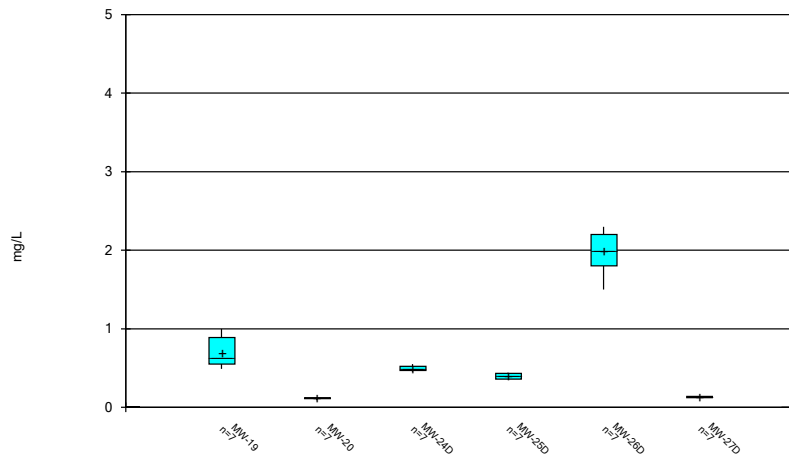
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



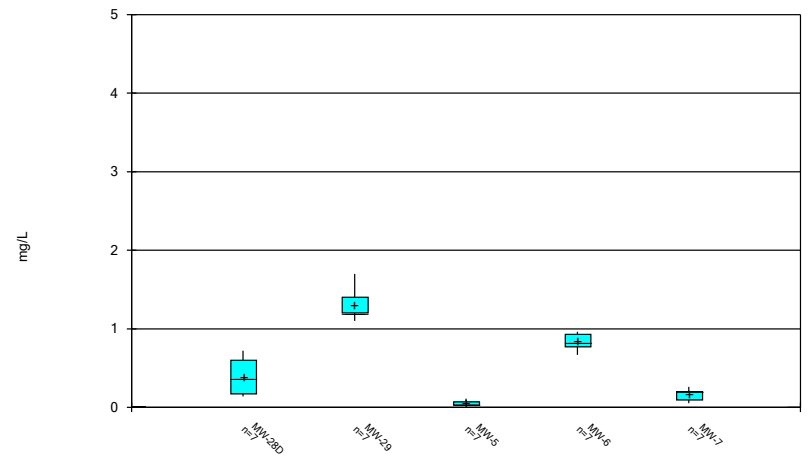
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



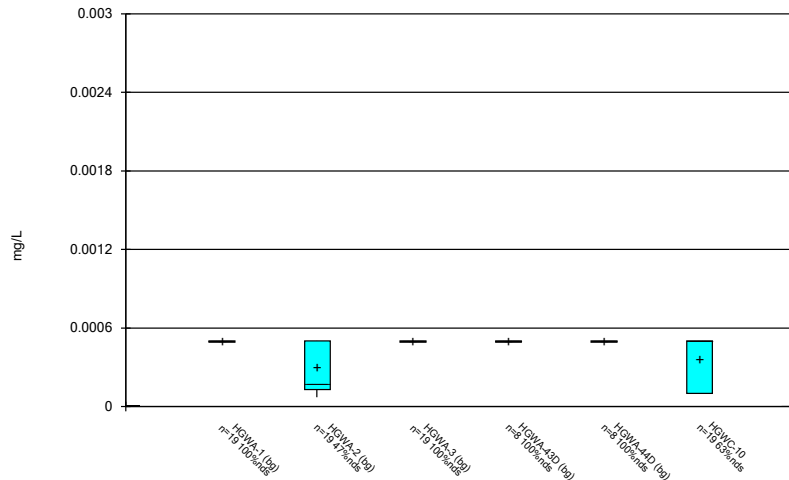
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



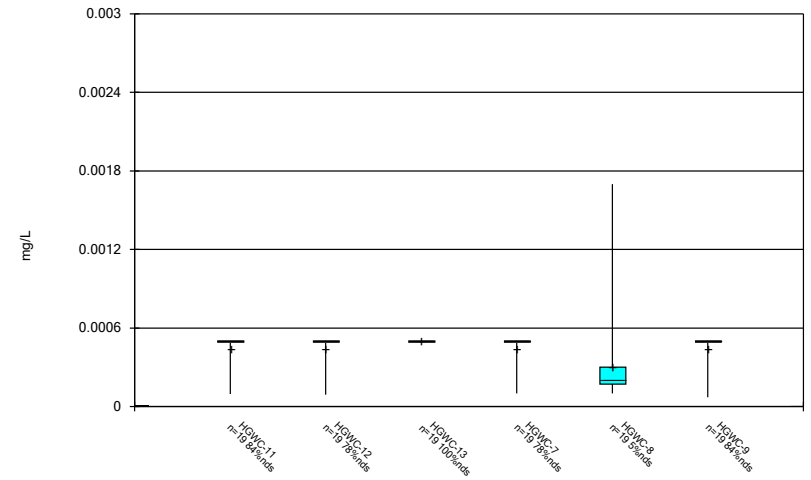
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



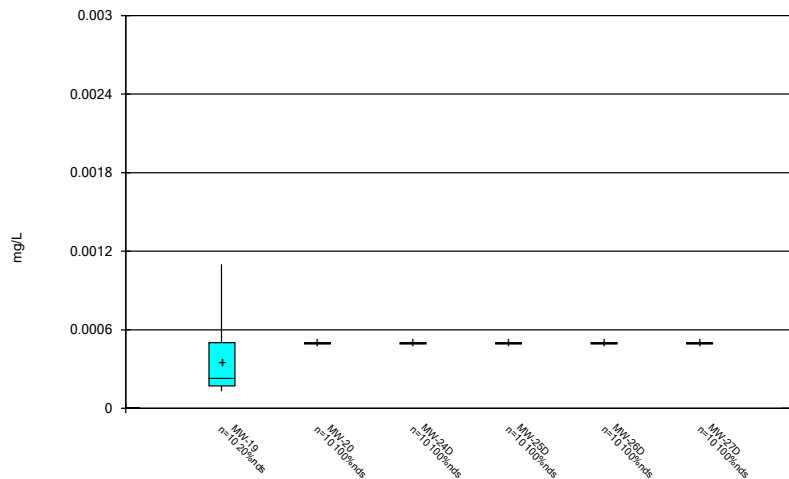
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



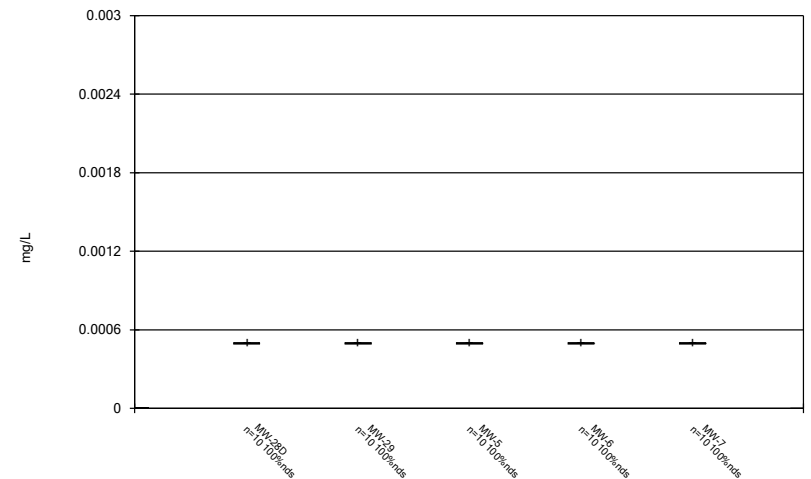
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



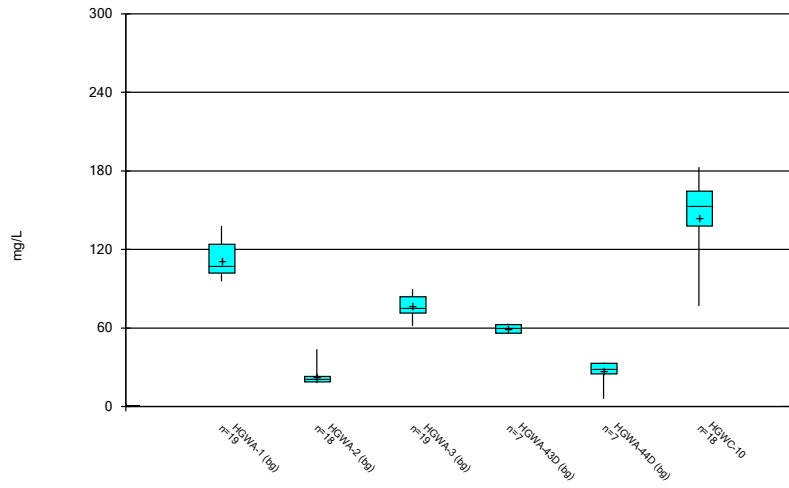
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



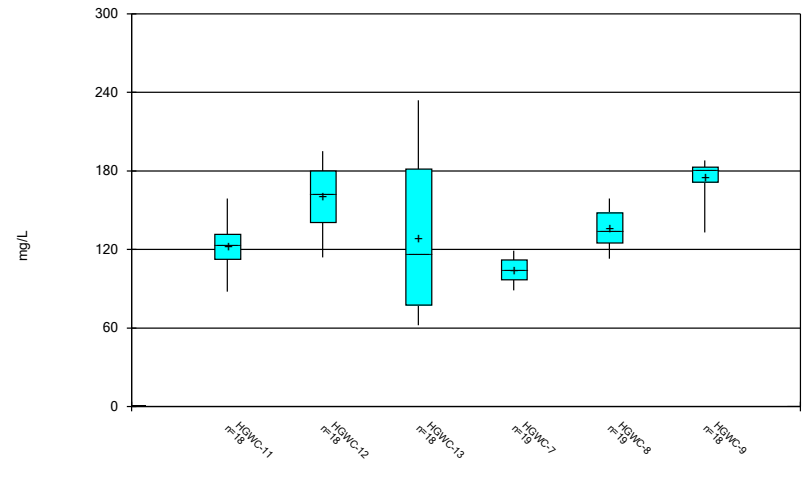
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



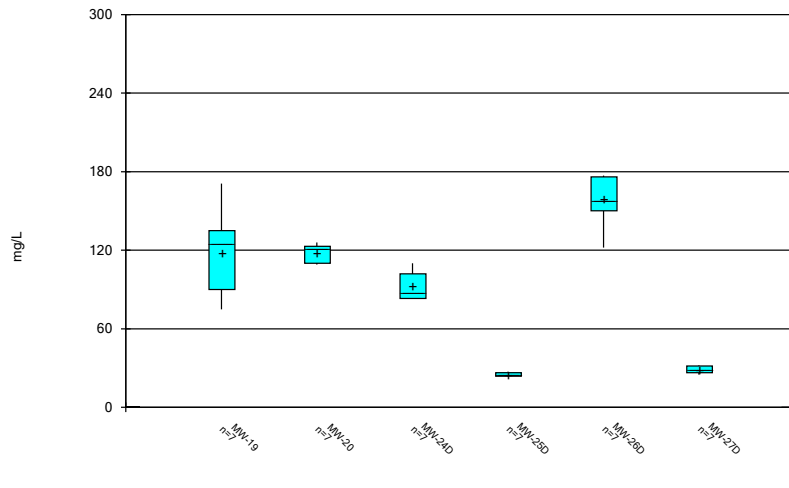
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



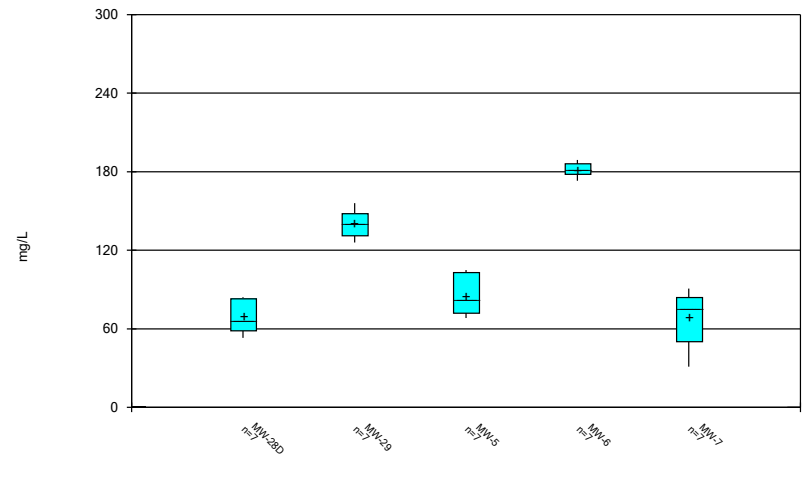
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



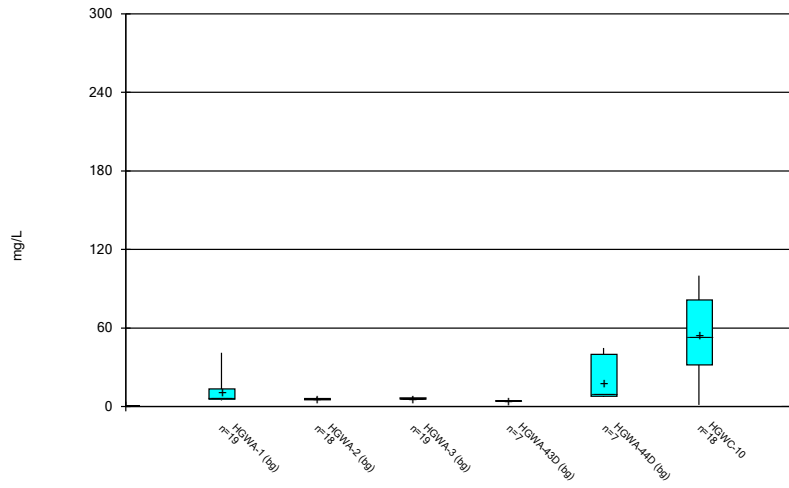
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



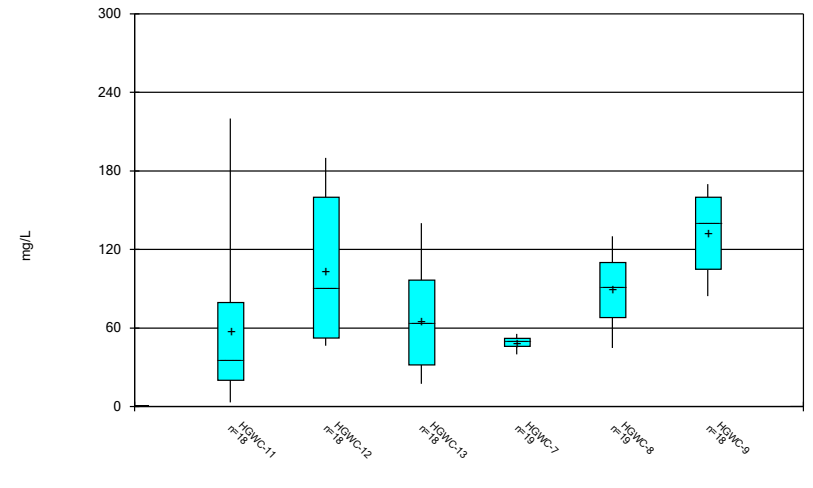
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



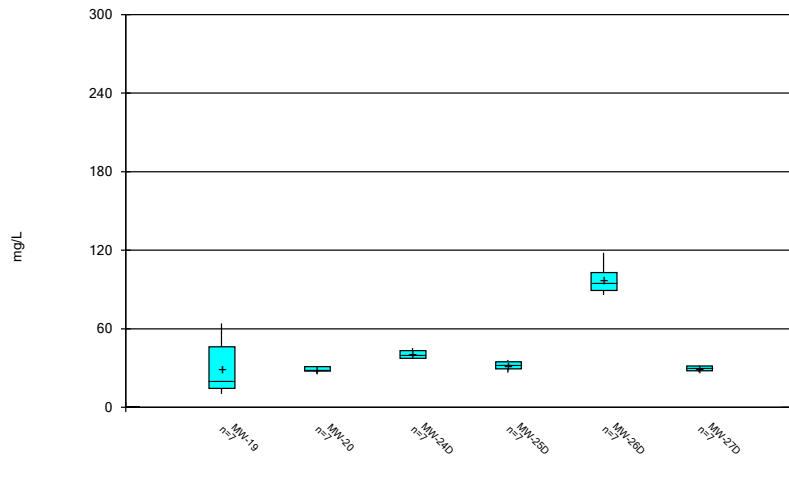
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



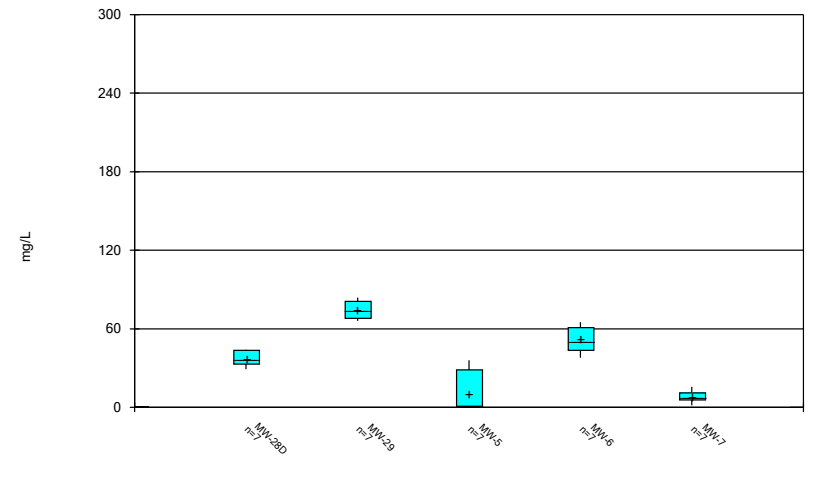
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



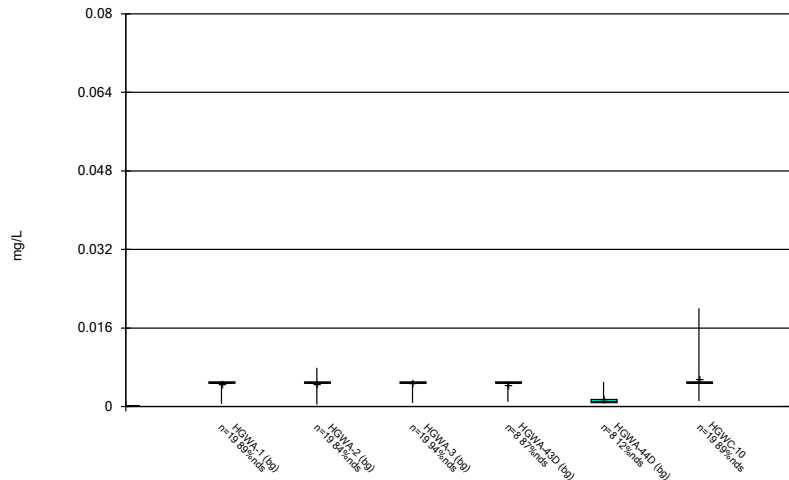
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



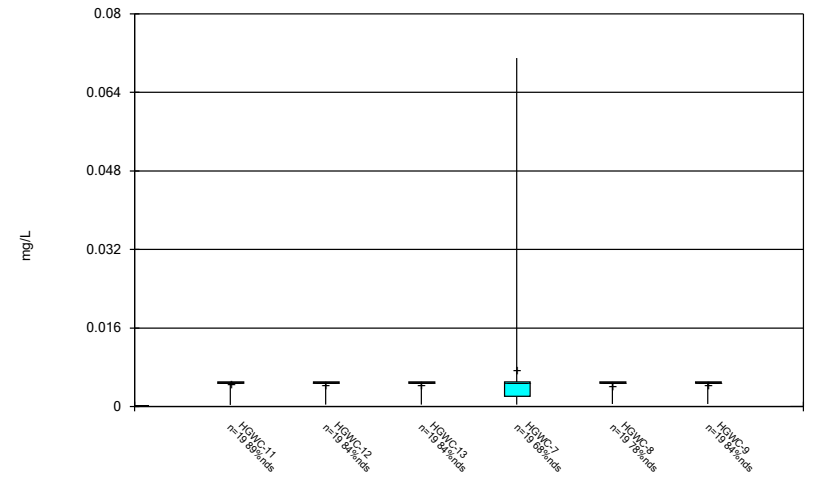
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



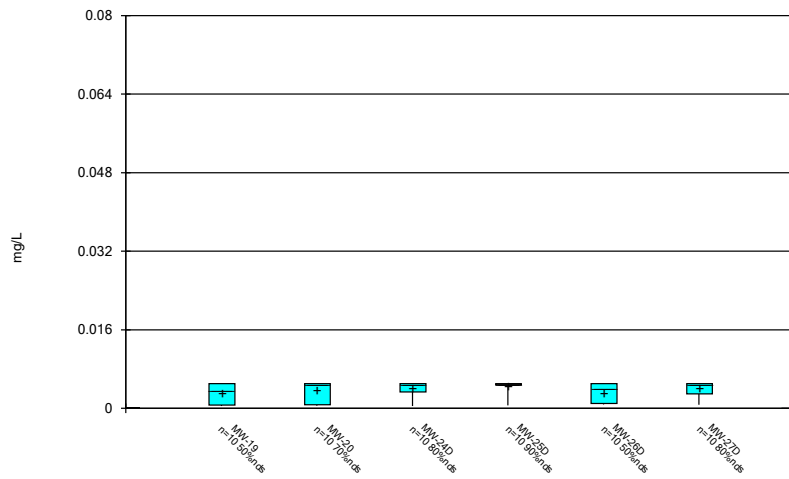
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



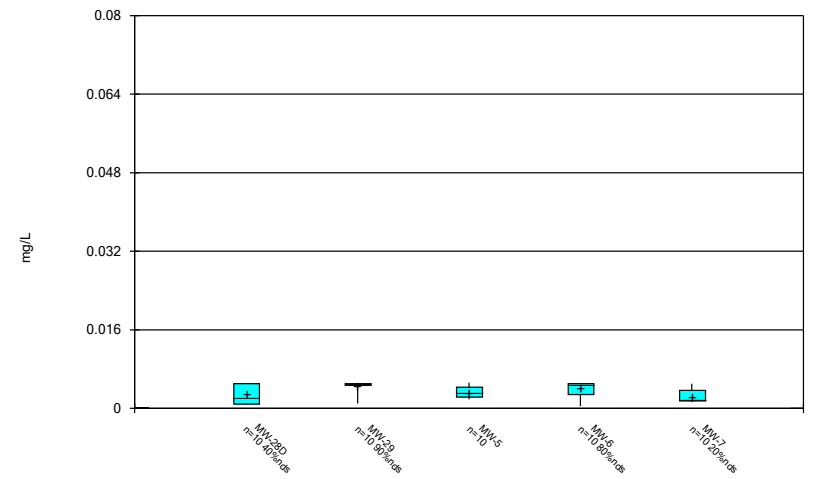
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



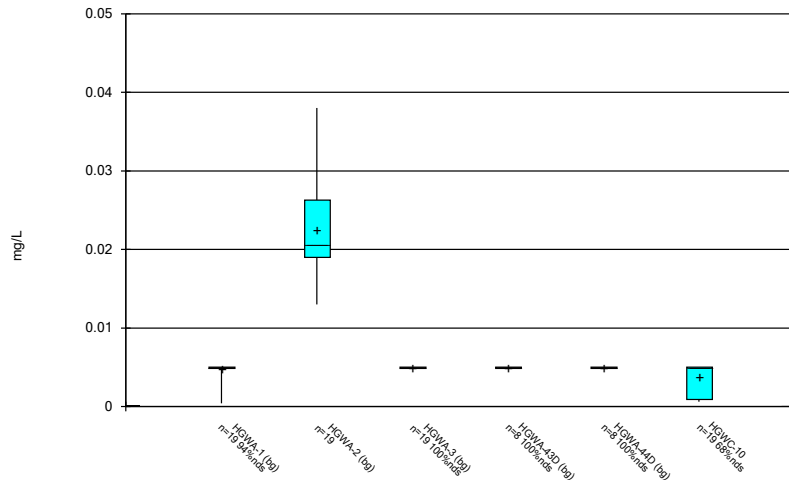
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



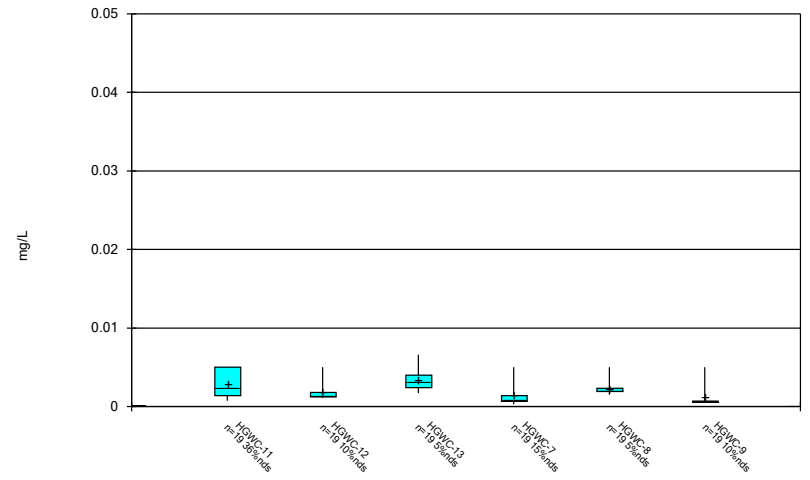
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



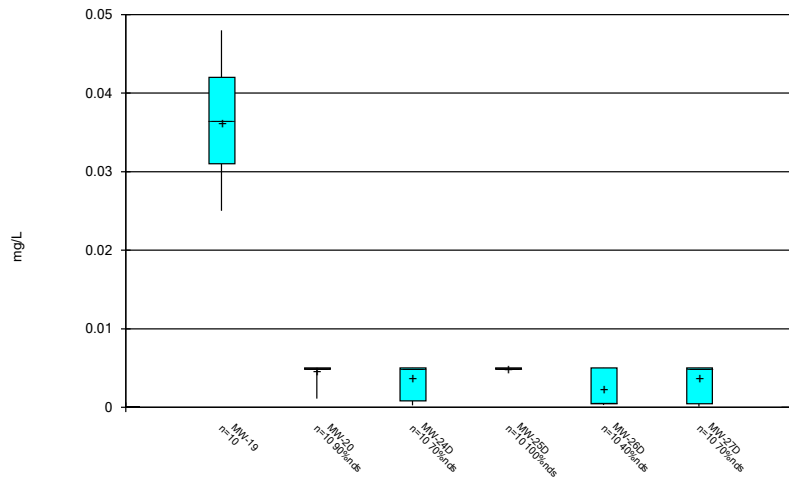
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



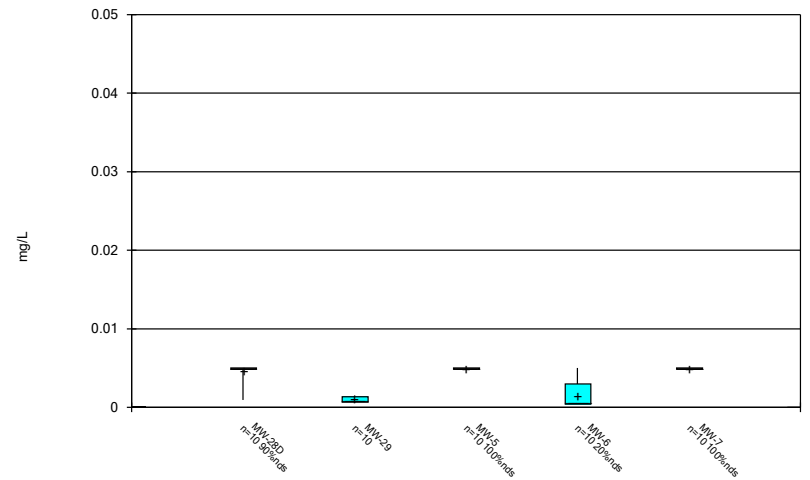
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Box & Whiskers Plot



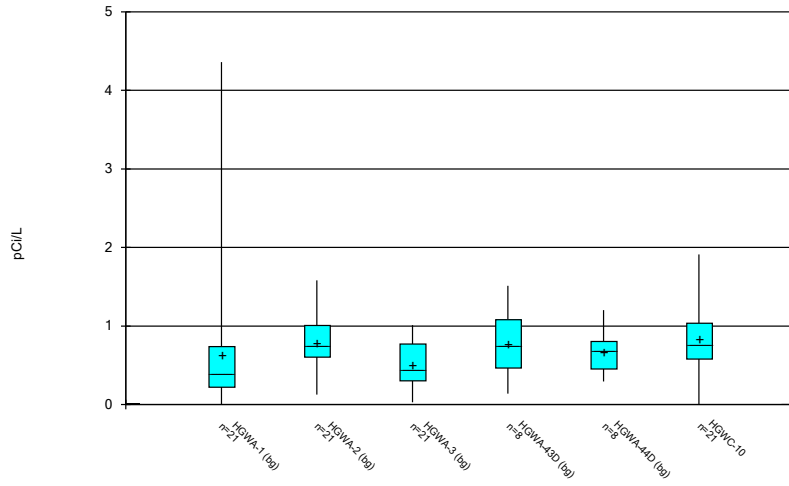
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Box & Whiskers Plot



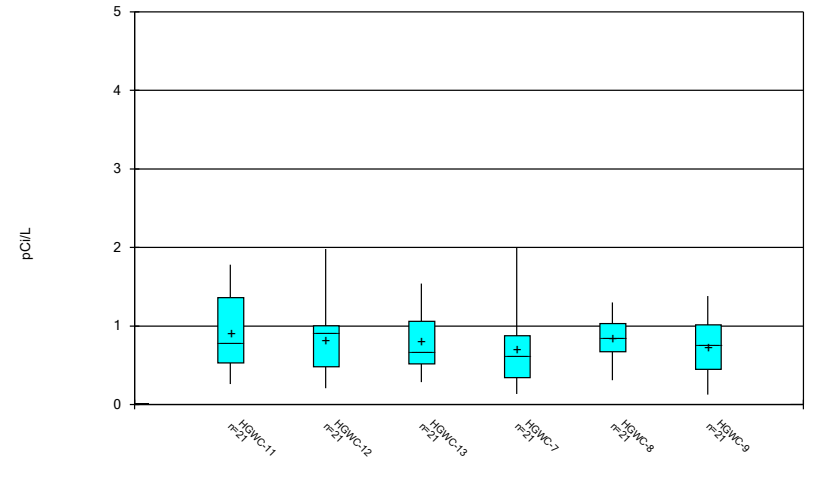
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



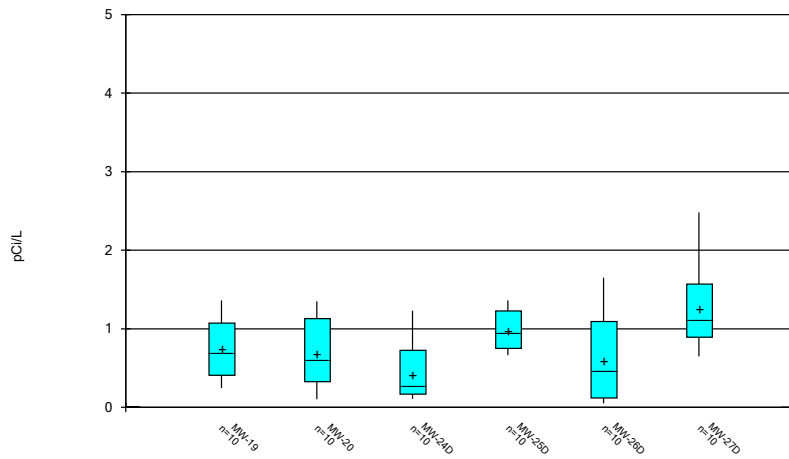
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



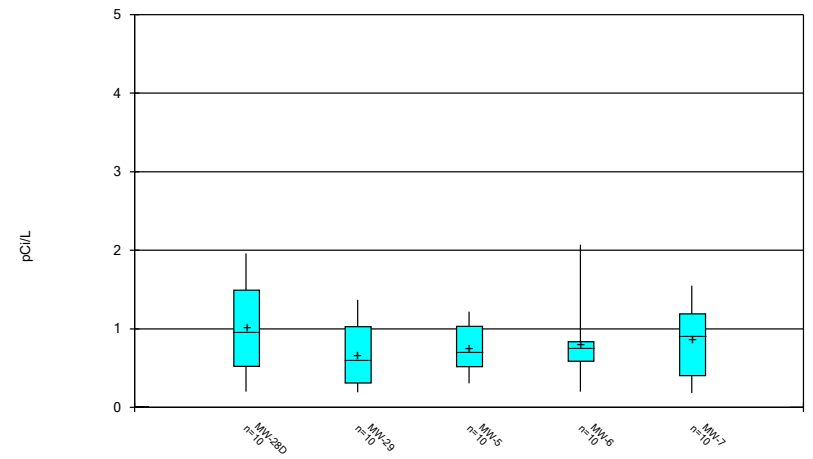
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



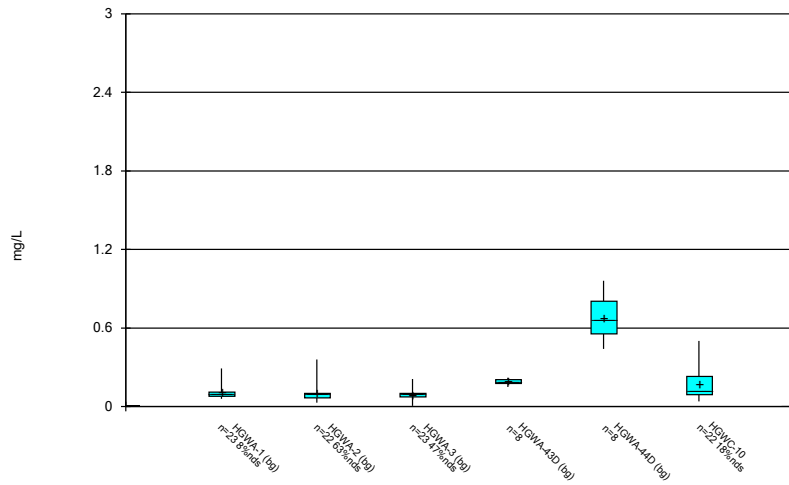
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



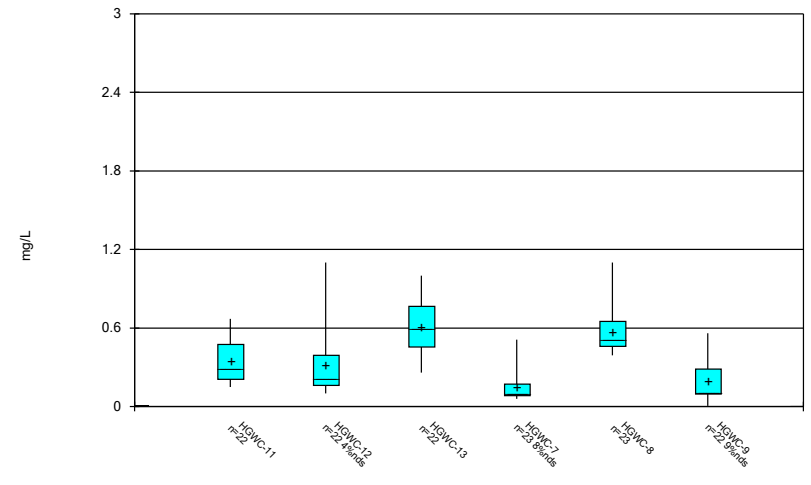
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Box & Whiskers Plot



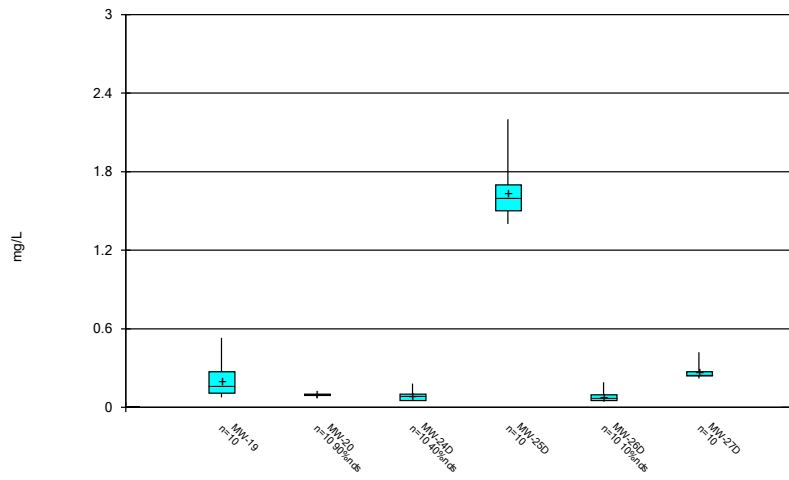
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



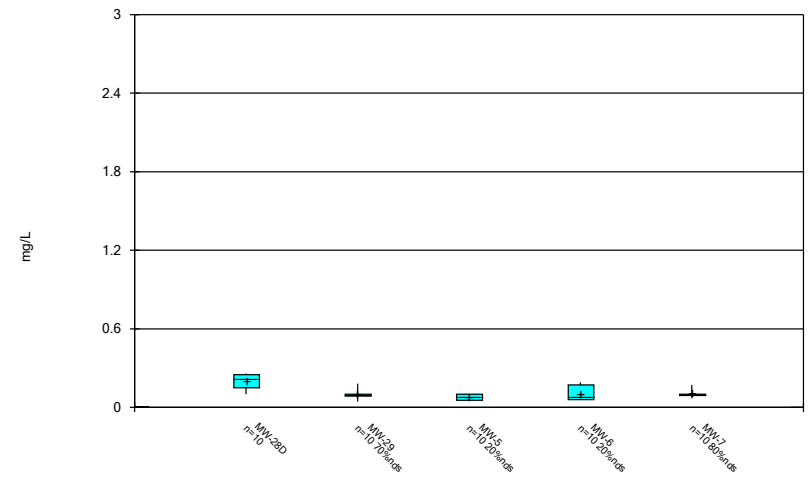
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Box & Whiskers Plot



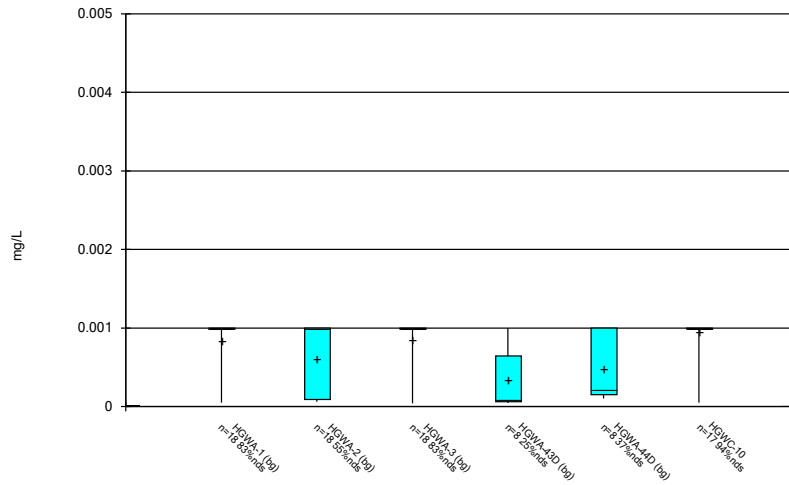
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



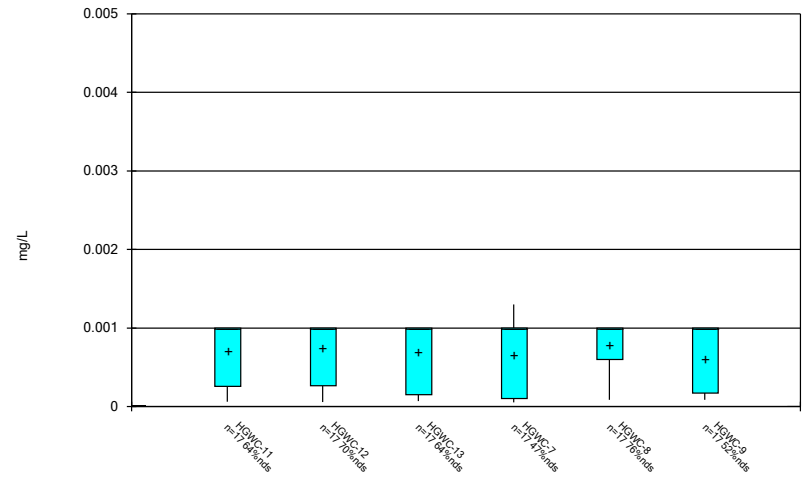
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



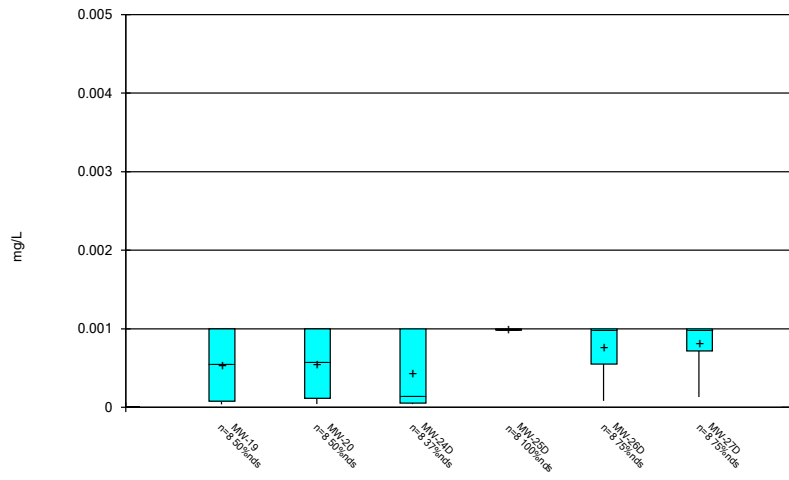
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



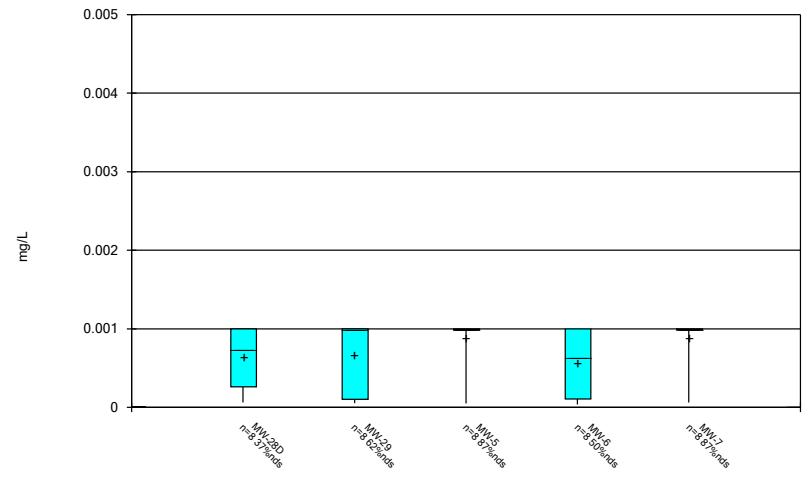
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



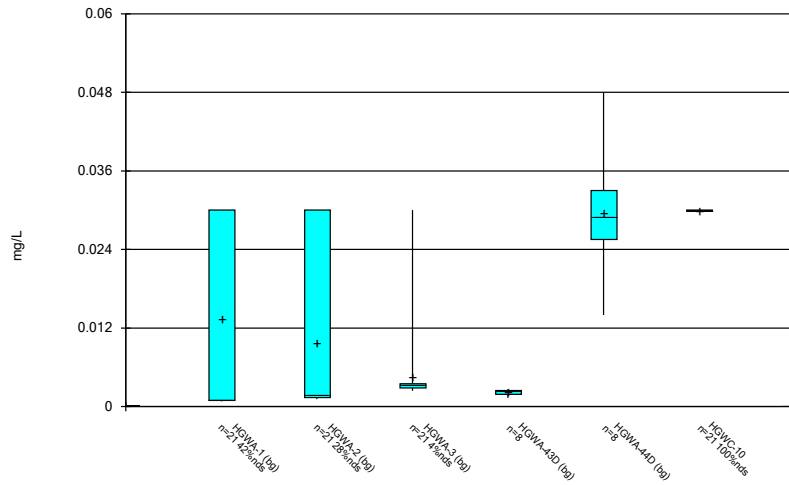
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Box & Whiskers Plot



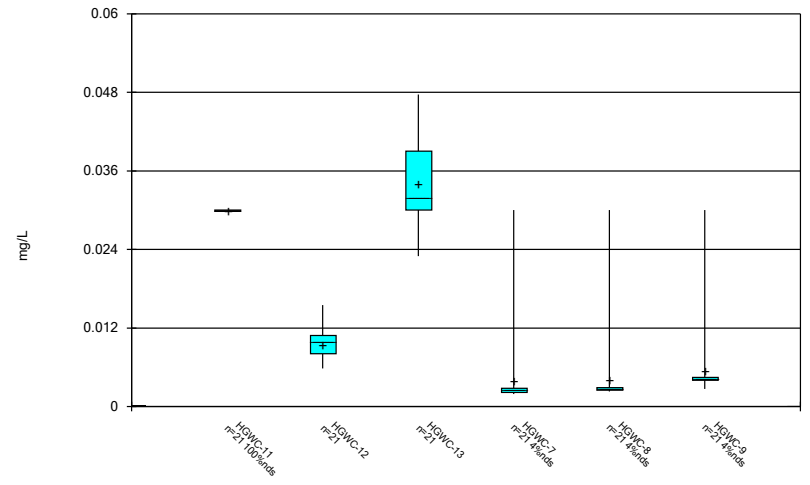
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Box & Whiskers Plot



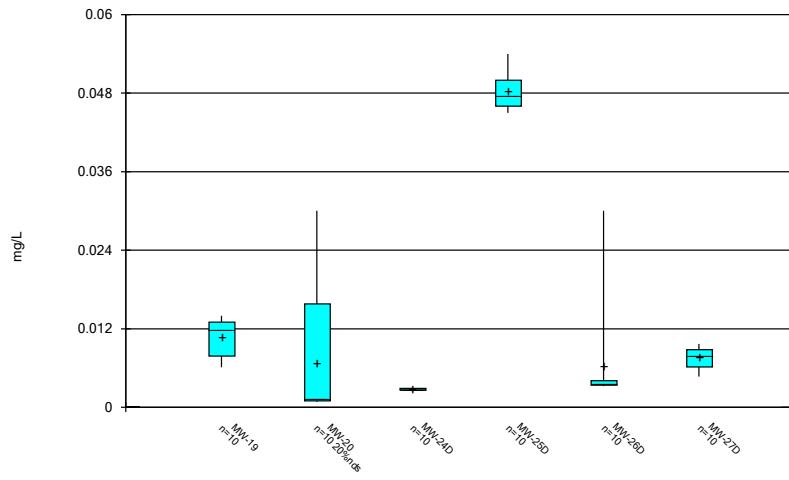
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Box & Whiskers Plot



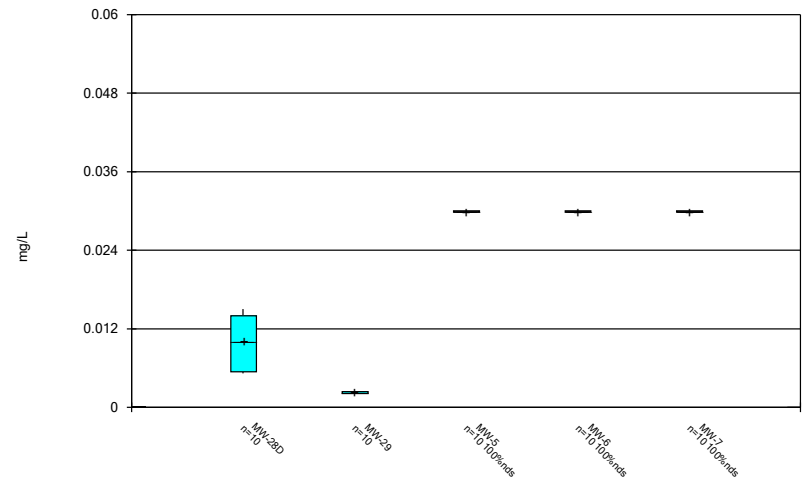
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Box & Whiskers Plot



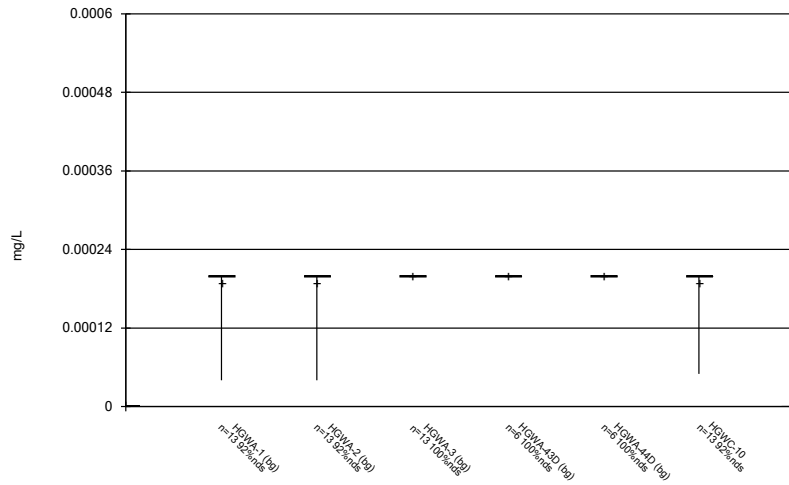
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Box & Whiskers Plot



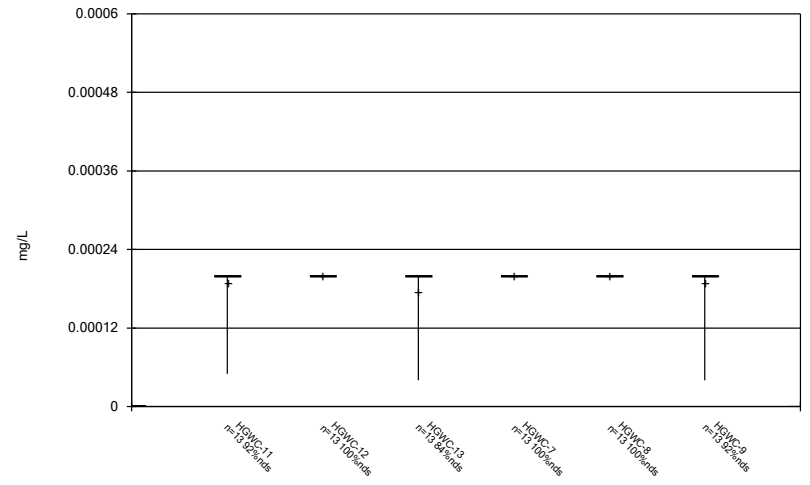
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Box & Whiskers Plot



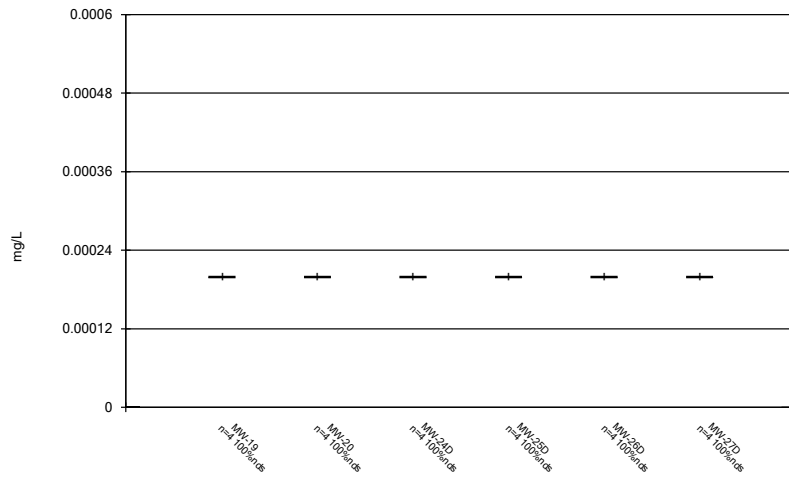
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Box & Whiskers Plot



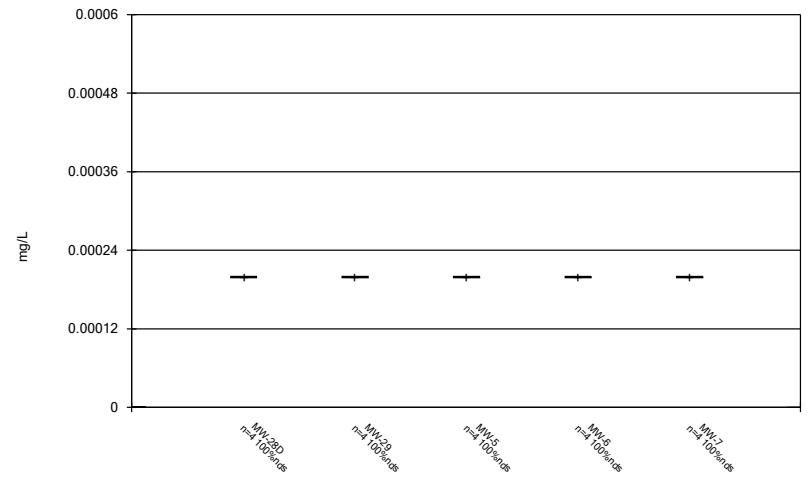
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Box & Whiskers Plot



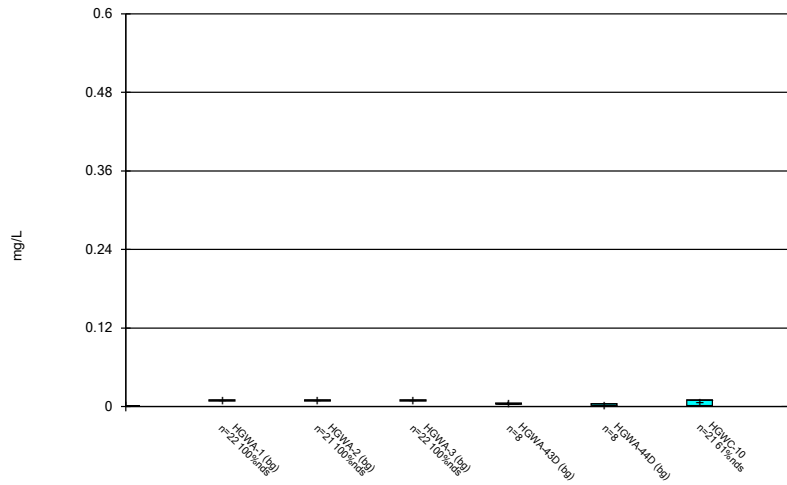
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Box & Whiskers Plot



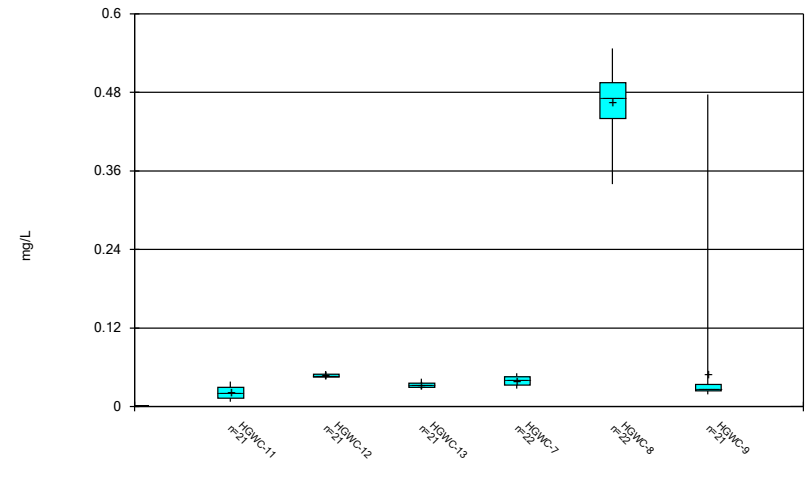
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Box & Whiskers Plot



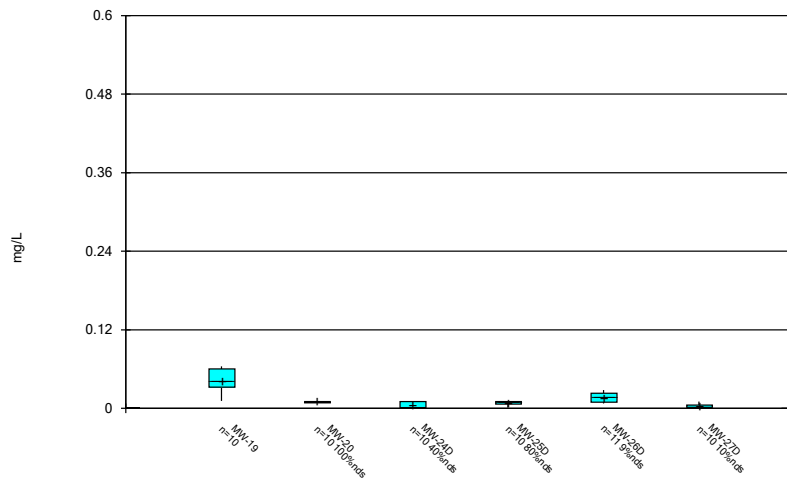
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Box & Whiskers Plot



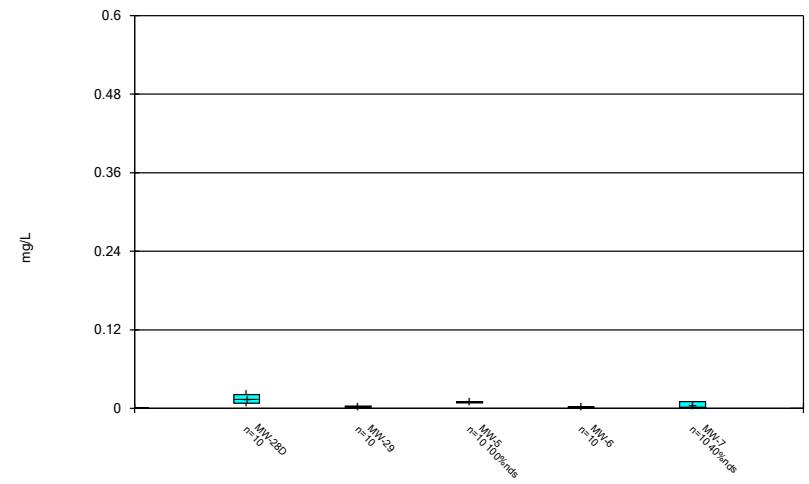
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



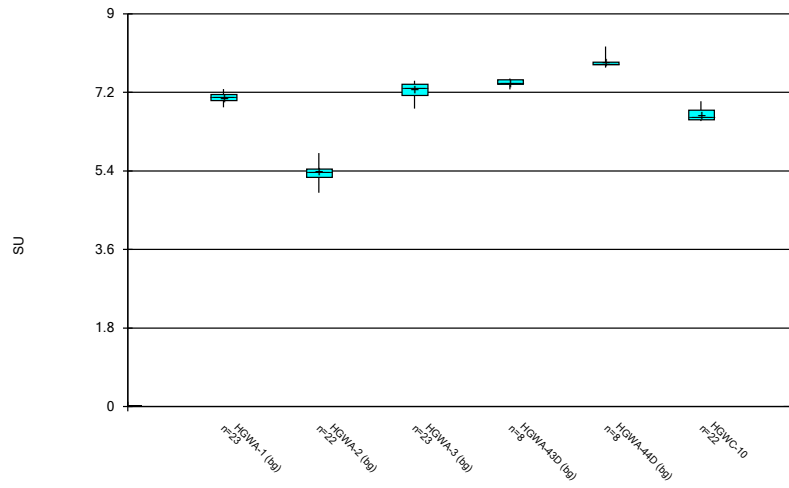
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



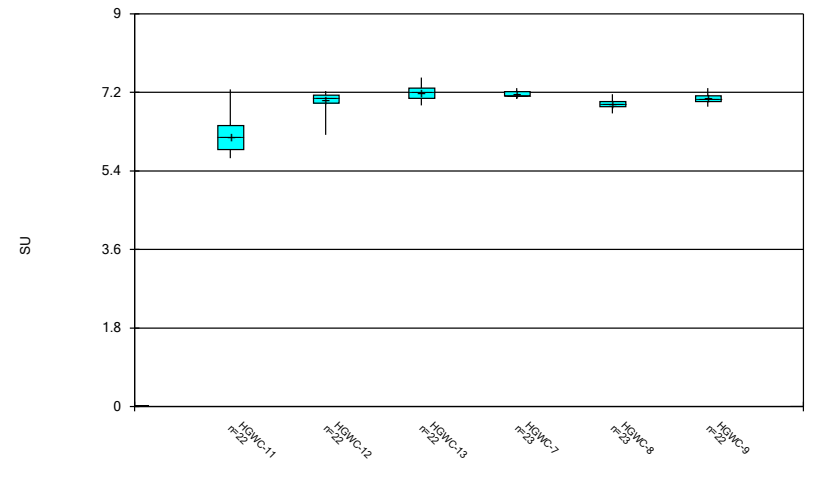
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



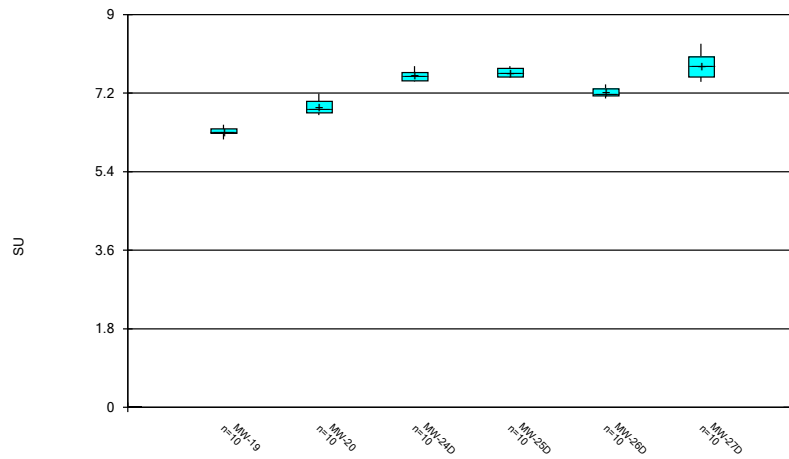
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



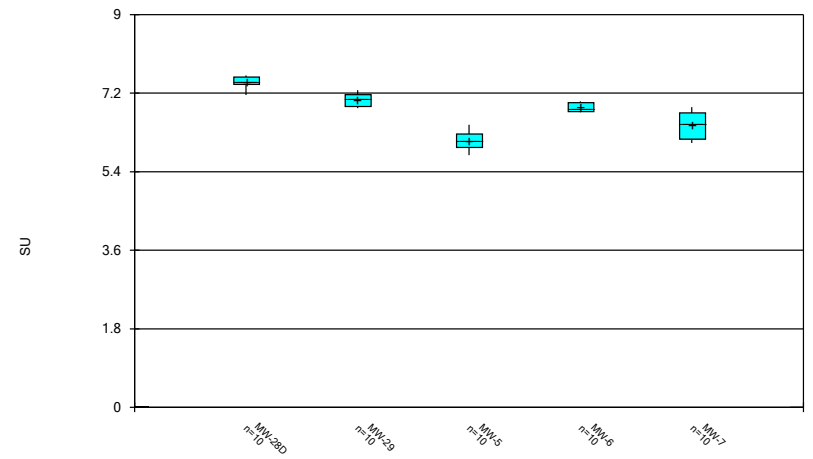
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Box & Whiskers Plot



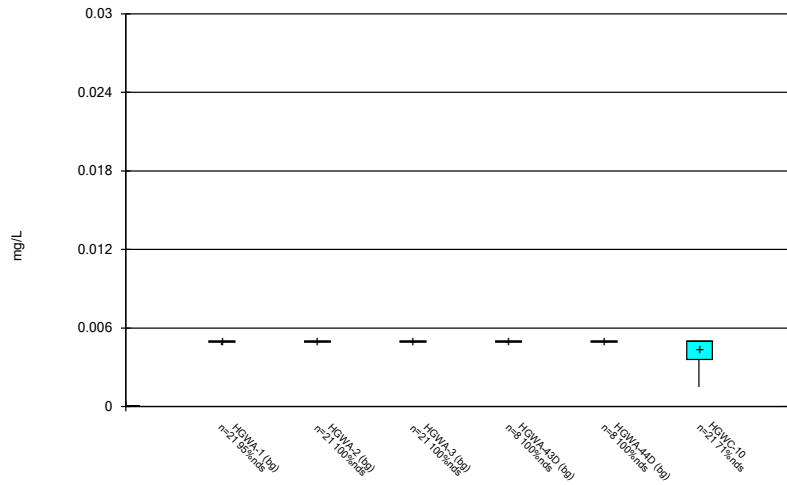
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Box & Whiskers Plot



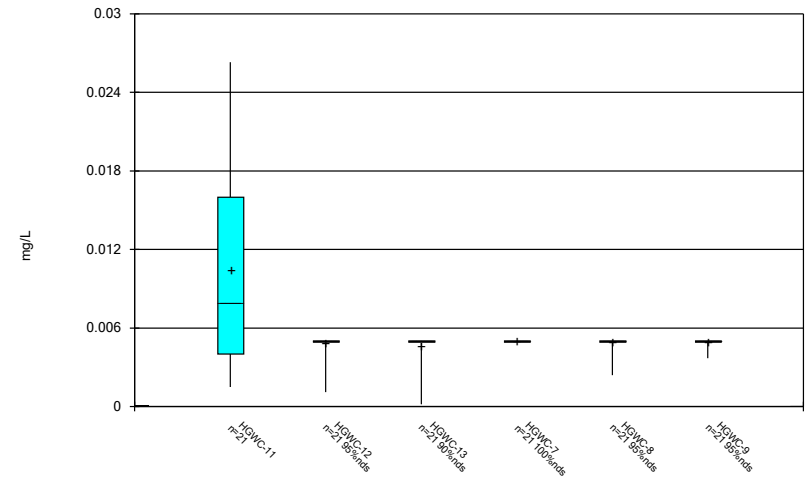
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



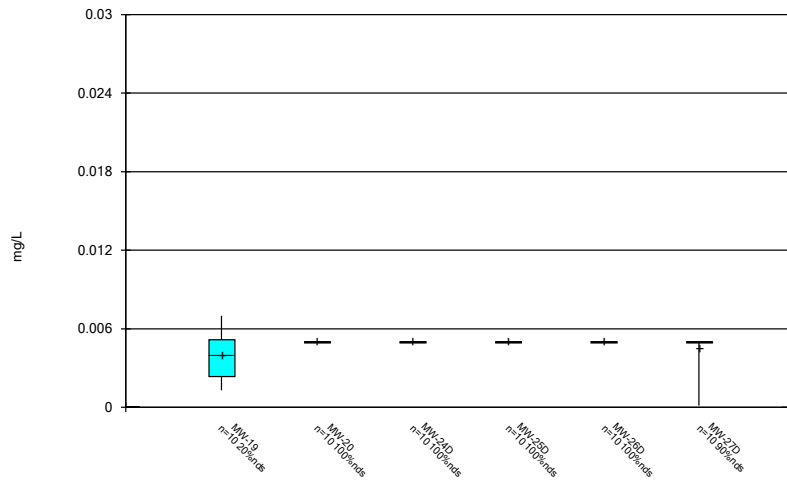
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



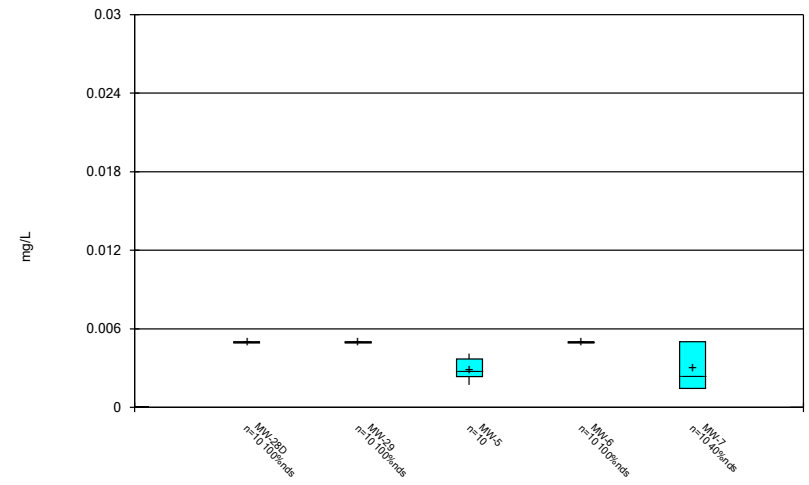
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Box & Whiskers Plot



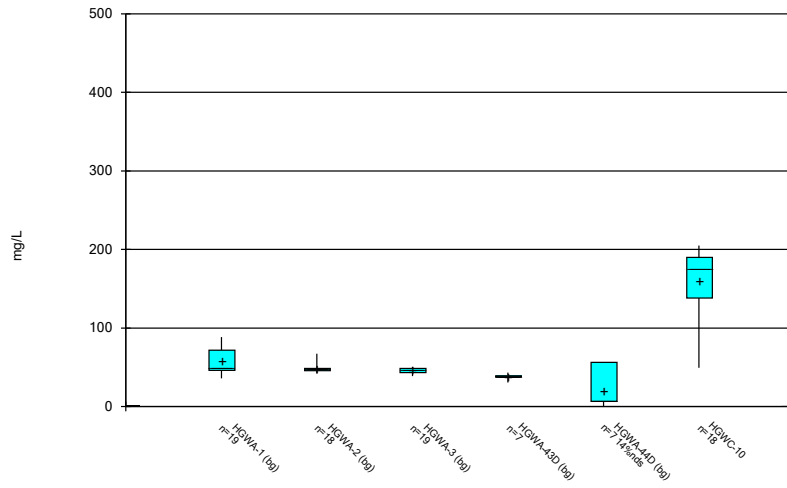
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Box & Whiskers Plot



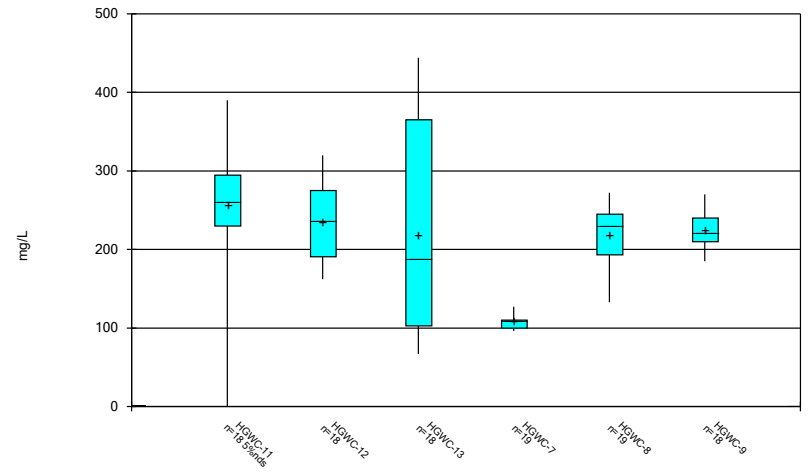
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Box & Whiskers Plot



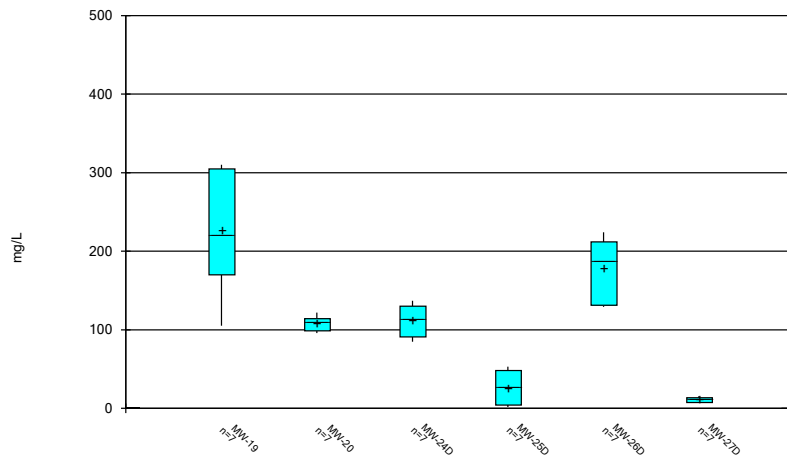
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Box & Whiskers Plot



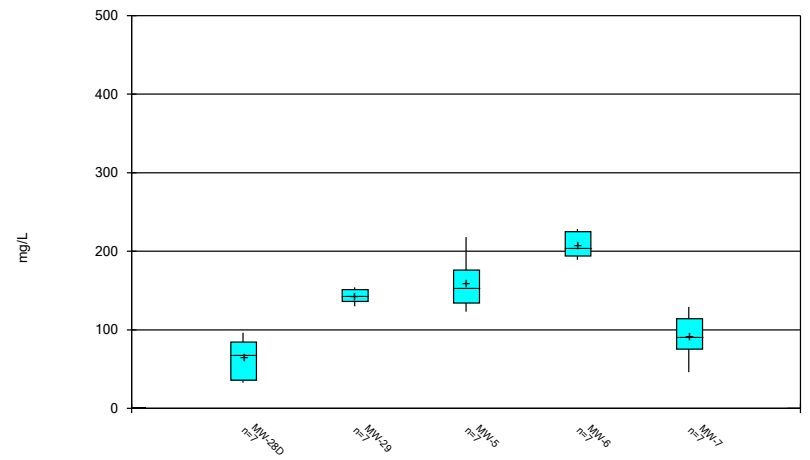
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Box & Whiskers Plot



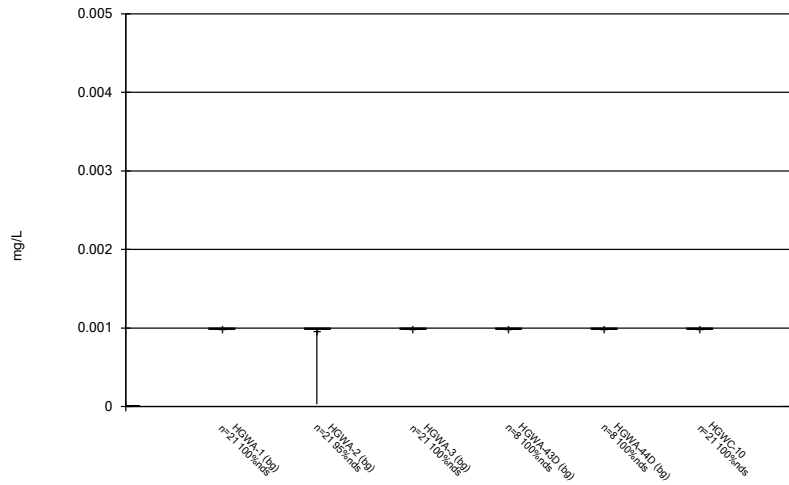
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Box & Whiskers Plot



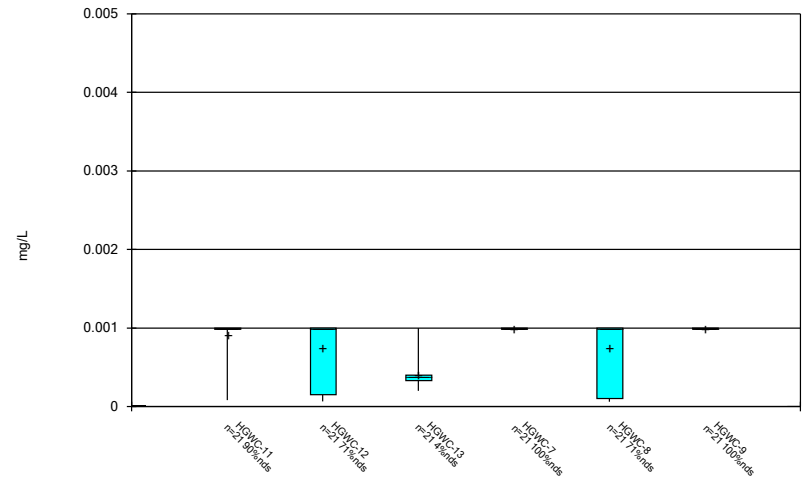
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Box & Whiskers Plot



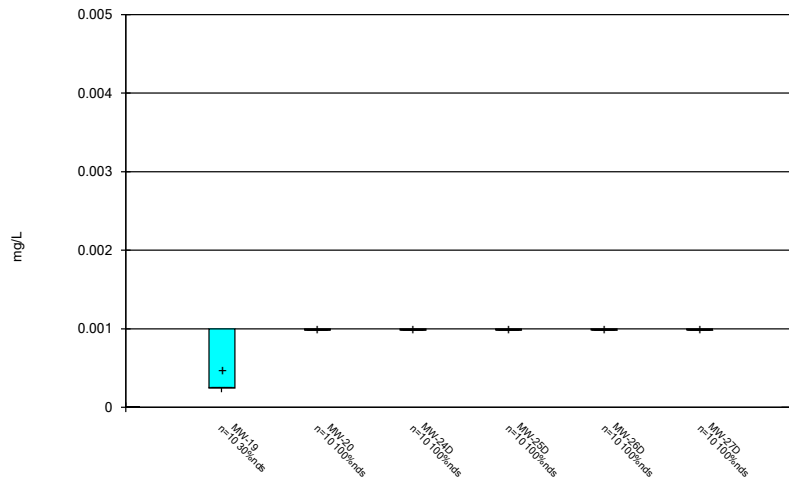
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Box & Whiskers Plot



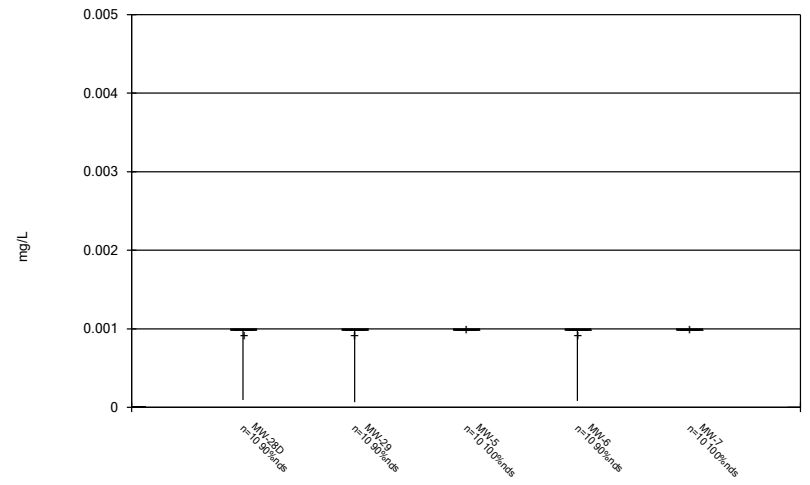
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



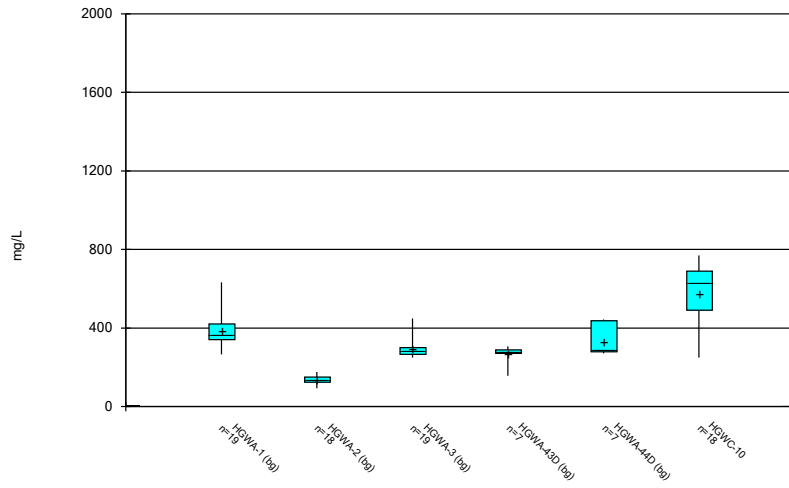
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Box & Whiskers Plot



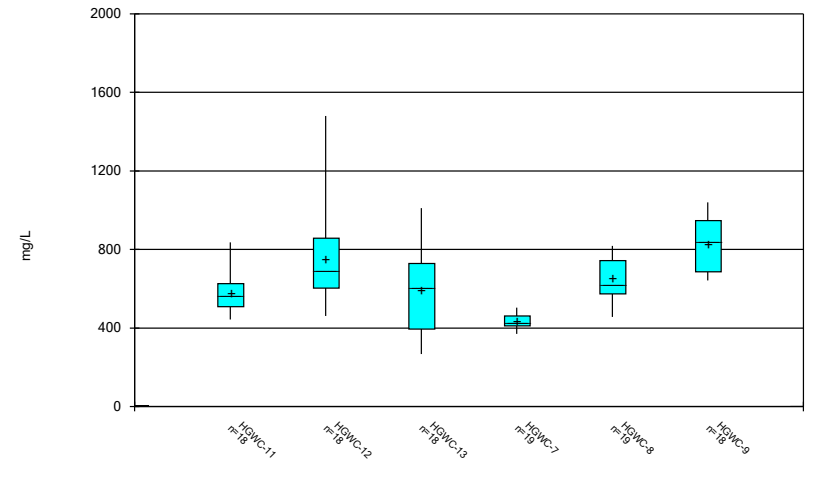
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Box & Whiskers Plot



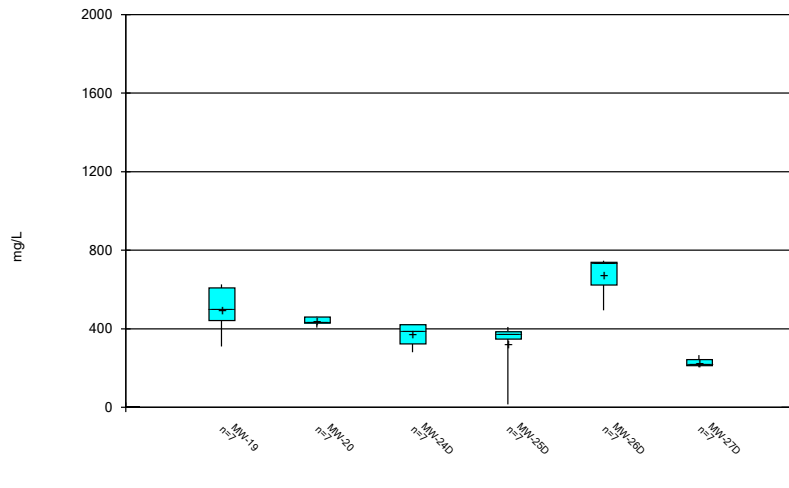
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



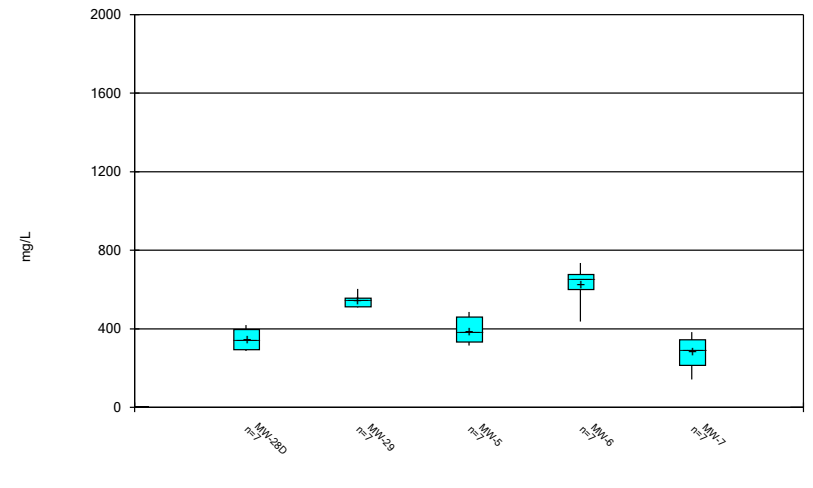
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 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/25/2022 2:37 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/25/2022 2:37 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE C.

Outlier Summary

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/25/2022, 2:41 PM

No outliers were flagged.

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-11	0.44	n/a	2/9/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.44	n/a	2/9/2022	2	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	2/10/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-7	0.44	n/a	2/10/2022	1.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.44	n/a	2/10/2022	1.7	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	2/9/2022	2.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	2/9/2022	144	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	2/9/2022	172	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	2/10/2022	206	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	2/10/2022	153	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	2/9/2022	183	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-12	44.8	n/a	2/9/2022	46.8	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	2/10/2022	48.2	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	2/9/2022	84.4	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	88.2	n/a	2/9/2022	276	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	88.2	n/a	2/9/2022	252	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	88.2	n/a	2/10/2022	371	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	88.2	n/a	2/10/2022	97.5	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	88.2	n/a	2/10/2022	224	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	88.2	n/a	2/9/2022	224	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-12	632	n/a	2/9/2022	678	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-13	632	n/a	2/10/2022	814	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-9	632	n/a	2/9/2022	756	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2

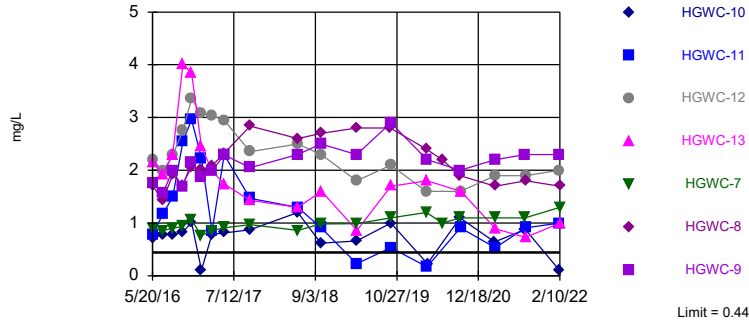
Appendix III Interwell Prediction Limits - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:54 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	HGWC-10	0.44	n/a	2/9/2022	0.1	No	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-11	0.44	n/a	2/9/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.44	n/a	2/9/2022	2	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	2/10/2022	1	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-7	0.44	n/a	2/10/2022	1.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.44	n/a	2/10/2022	1.7	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	2/9/2022	2.3	Yes	70	n/a	n/a	4.286	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-10	138	n/a	2/9/2022	76.8	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-11	138	n/a	2/9/2022	144	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	2/9/2022	172	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	2/10/2022	206	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-7	138	n/a	2/10/2022	108	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-8	138	n/a	2/10/2022	153	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	2/9/2022	183	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-10	44.8	n/a	2/9/2022	1.2	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-11	44.8	n/a	2/9/2022	20.4	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-12	44.8	n/a	2/9/2022	46.8	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-13	44.8	n/a	2/10/2022	17.4	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-7	44.8	n/a	2/10/2022	39.8	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	2/10/2022	48.2	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	2/9/2022	84.4	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-10	0.96	n/a	2/9/2022	0.12	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-11	0.96	n/a	2/9/2022	0.2	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-12	0.96	n/a	2/9/2022	0.2	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-13	0.96	n/a	2/10/2022	0.53	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-7	0.96	n/a	2/10/2022	0.083J	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-8	0.96	n/a	2/10/2022	0.42	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
Fluoride (mg/L)	HGWC-9	0.96	n/a	2/9/2022	0.1	No	84	n/a	n/a	32.14	n/a	n/a	0.0002738	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-10	8.25	4.9	2/9/2022	7	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-11	8.25	4.9	2/9/2022	6.55	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-12	8.25	4.9	2/9/2022	7.23	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-13	8.25	4.9	2/10/2022	7.54	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-7	8.25	4.9	2/10/2022	7.22	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-8	8.25	4.9	2/10/2022	6.99	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
pH, Field (SU)	HGWC-9	8.25	4.9	2/9/2022	7.3	No	84	n/a	n/a	0	n/a	n/a	0.0005477	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-10	88.2	n/a	2/9/2022	49.2	No	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	88.2	n/a	2/9/2022	276	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	88.2	n/a	2/9/2022	252	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	88.2	n/a	2/10/2022	371	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	88.2	n/a	2/10/2022	97.5	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	88.2	n/a	2/10/2022	224	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	88.2	n/a	2/9/2022	224	Yes	70	n/a	n/a	1.429	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-10	632	n/a	2/9/2022	250	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-11	632	n/a	2/9/2022	544	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-12	632	n/a	2/9/2022	678	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-13	632	n/a	2/10/2022	814	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-7	632	n/a	2/10/2022	414	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-8	632	n/a	2/10/2022	578	No	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-9	632	n/a	2/9/2022	756	Yes	70	n/a	n/a	0	n/a	n/a	0.0003866	NP Inter (normality) 1 of 2

Exceeds Limit: HGWC-11, HGWC-12, HGWC-13, HGWC-7, HGWC-8, HGWC-9

Prediction Limit
Interwell Non-parametric

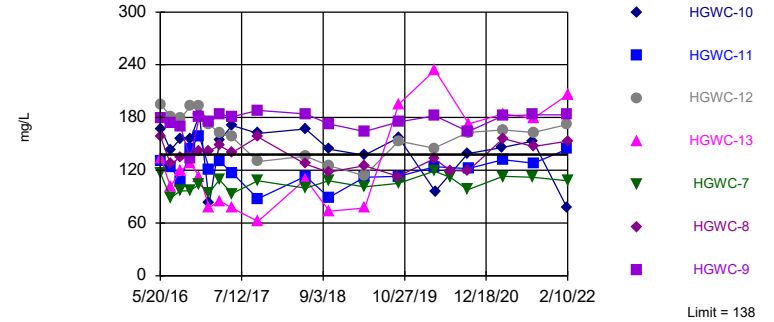


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. 4.286% NDs. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 4/7/2022 3:51 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-11, HGWC-12, HGWC-13, HGWC-8, HGWC-9

Prediction Limit
Interwell Non-parametric

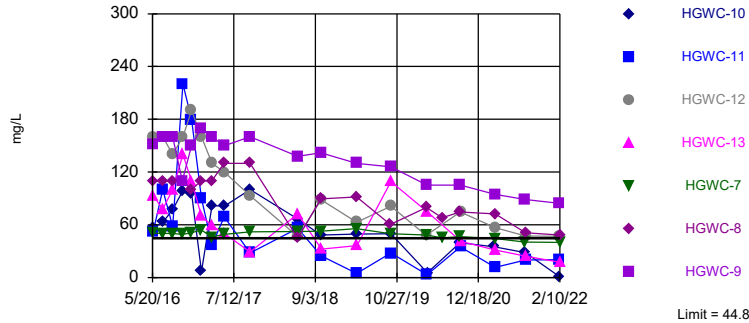


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 4/7/2022 3:51 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-12, HGWC-8, HGWC-9

Prediction Limit
Interwell Non-parametric

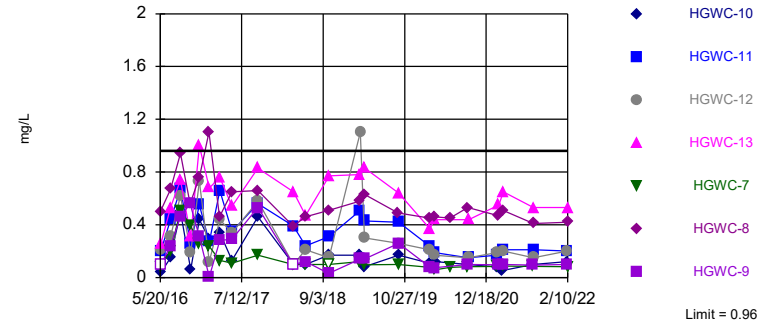


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 4/7/2022 3:51 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.
Within Limit

Prediction Limit
Interwell Non-parametric

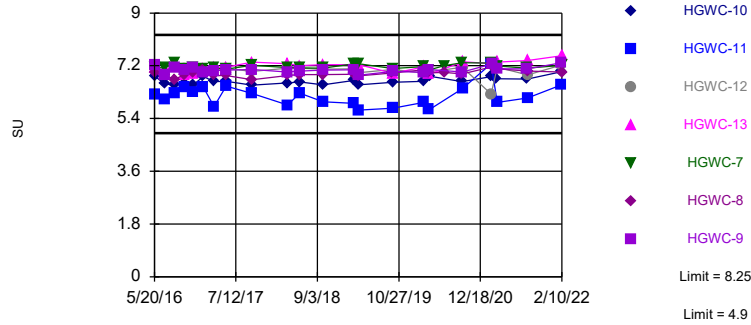


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. 32.14% NDs. Annual per-constituent alpha = 0.003827. Individual comparison alpha = 0.0002738 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 4/7/2022 3:51 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Within Limits

Prediction Limit
Interwell Non-parametric

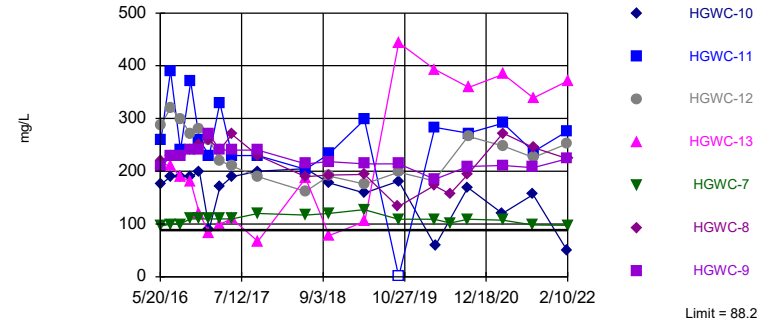


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 84 background values. Annual per-constituent alpha = 0.007654. Individual comparison alpha = 0.0005477 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 4/7/2022 3:51 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.
Exceeds Limit: HGWC-11, HGWC-12,
HGWC-13, HGWC-7, HGWC-8, HGWC-9

Prediction Limit
Interwell Non-parametric

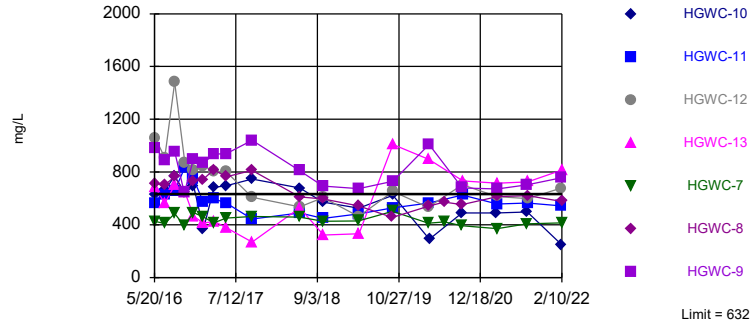


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. 1.429% NDs. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 4/7/2022 3:51 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Exceeds Limit: HGWC-12, HGWC-13,
HGWC-9

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 70 background values. 1.429% NDs. Annual per-constituent alpha = 0.005399. Individual comparison alpha = 0.0003866 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:51 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-10	HGWC-12
1/19/2021									
3/10/2021	0.015 (J)								
3/11/2021		0.015 (J)	0.056						
3/12/2021								0.64	
3/15/2021				1.7	1.1				
3/16/2021						0.53			1.9
3/17/2021							0.89		
8/11/2021	0.02 (J)								
8/12/2021		<0.04	0.044						
8/13/2021									
8/16/2021					1.1				
8/17/2021								0.88	
8/18/2021				1.8		0.91			1.9
8/19/2021							0.73		
2/1/2022	0.016 (J)	0.011 (J)	0.056						
2/9/2022						1		0.1	2
2/10/2022				1.7	1.3		1		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	1.76		
7/11/2016			
7/12/2016	1.56		
8/30/2016			
9/1/2016	2		
10/19/2016			
10/20/2016	1.68		
10/24/2016			
12/6/2016	2.15		
12/7/2016			
1/24/2017			
1/25/2017			
1/26/2017	1.87		
3/21/2017			
3/22/2017	1.99		
5/22/2017			
5/23/2017	2.29		
5/24/2017			
10/3/2017	2.05		
6/4/2018			
6/5/2018			
6/6/2018	2.3		
10/1/2018			
10/2/2018	2.5		
10/3/2018			
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	2.3		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	2.9		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	2.2		
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		0.061 (J)	0.23
9/17/2020	2		
9/18/2020			
9/21/2020			
11/10/2020		0.057 (J)	0.29
12/15/2020		0.052 (J)	0.31

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		0.049 (J)	0.4
3/10/2021			0.39
3/11/2021		0.06	
3/12/2021			
3/15/2021			
3/16/2021	2.2		
3/17/2021			
8/11/2021		0.042	
8/12/2021			
8/13/2021			0.31
8/16/2021			
8/17/2021	2.3		
8/18/2021			
8/19/2021			
2/1/2022		0.05	0.44
2/9/2022	2.3		
2/10/2022			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-10	HGWC-12
1/19/2021									
3/10/2021	111								
3/11/2021		83.8	43.8						
3/12/2021								146 (M1)	
3/15/2021				156	113				
3/16/2021						132			166
3/17/2021							184		
8/11/2021	113								
8/12/2021		84	21.9						
8/13/2021									
8/16/2021					112				
8/17/2021								153	
8/18/2021				147		128			163
8/19/2021							179		
2/1/2022	106	85.1	27.2						
2/9/2022						144		76.8	172
2/10/2022				153	108		206		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	179		
7/11/2016			
7/12/2016	174		
8/30/2016			
9/1/2016	170		
10/19/2016			
10/20/2016	133		
10/24/2016			
12/6/2016	181		
12/7/2016			
1/24/2017			
1/25/2017			
1/26/2017	175		
3/21/2017			
3/22/2017	183		
5/22/2017			
5/23/2017	181		
5/24/2017			
10/3/2017	188		
6/4/2018			
6/5/2018			
6/6/2018	184		
10/1/2018			
10/2/2018	173		
10/3/2018			
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	164		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	175		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	182		
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		56	30
9/17/2020	164		
9/18/2020			
9/21/2020			
11/10/2020		63.3	33.6
12/15/2020		62.6	28.7

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		60.1	33
3/10/2021			5.9
3/11/2021		59.6	
3/12/2021			
3/15/2021			
3/16/2021	182		
3/17/2021			
8/11/2021		61	
8/12/2021			
8/13/2021			28.9
8/16/2021			
8/17/2021	183		
8/18/2021			
8/19/2021			
2/1/2022		55.9	24.8
2/9/2022	183		
2/10/2022			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-10	HGWC-12
1/19/2021									
3/10/2021	7.4								
3/11/2021		5.9	5.1						
3/12/2021								35	
3/15/2021				72.4	44.5				
3/16/2021						11.5			56.8
3/17/2021							31.4		
8/11/2021	9.6								
8/12/2021		4.8	5.2						
8/13/2021									
8/16/2021					40.3				
8/17/2021								28.3	
8/18/2021				50.9		19.9			47.3
8/19/2021							24.4		
2/1/2022	7.5	5.7	7						
2/9/2022						20.4		1.2	46.8
2/10/2022				48.2	39.8		17.4		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	152		
7/11/2016			
7/12/2016	160		
8/30/2016			
9/1/2016	160		
10/19/2016			
10/20/2016	110		
10/24/2016			
12/6/2016	150		
12/7/2016			
1/24/2017			
1/25/2017			
1/26/2017	170		
3/21/2017			
3/22/2017	160		
5/22/2017			
5/23/2017	150		
5/24/2017			
10/3/2017	160		
6/4/2018			
6/5/2018			
6/6/2018	138		
10/1/2018			
10/2/2018	142		
10/3/2018			
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	130		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	126		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	105		
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		4.1	7.2
9/17/2020	105		
9/18/2020			
9/21/2020			
11/10/2020		4.4	7.8
12/15/2020		4.7	9.4

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		4.1	9.5
3/10/2021			12.3
3/11/2021		4.5	
3/12/2021			
3/15/2021			
3/16/2021	94.7		
3/17/2021			
8/11/2021		3.5	
8/12/2021			
8/13/2021			39.9
8/16/2021			
8/17/2021	88.6		
8/18/2021			
8/19/2021			
2/1/2022		4.1	44.8
2/9/2022	84.4		
2/10/2022			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/7/2022 3:54 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-12	HGWC-13	HGWC-11	HGWC-9
6/16/2020	0.071 (J)	<0.1			0.45				
6/17/2020				0.077 (J)					
9/15/2020	0.082 (J)	<0.1	<0.1						
9/16/2020				0.081 (J)	0.53				
9/17/2020									0.1
9/18/2020						0.15		0.15	
9/21/2020							0.44		
11/10/2020									
12/15/2020									
1/19/2021									
2/8/2021	0.078 (J)								
2/9/2021		0.074 (J)	<0.1						
2/10/2021				0.085 (J)					
2/12/2021						0.19		0.17	
2/15/2021									
2/16/2021					0.47				0.096 (J)
2/22/2021							0.55		
3/10/2021	0.079 (J)								
3/11/2021		<0.1	0.1						
3/12/2021									
3/15/2021				0.086 (J)	0.51				
3/16/2021						0.2		0.21	0.098 (J)
3/17/2021							0.65		
8/11/2021	0.058 (J)								
8/12/2021		<0.1	<0.1						
8/13/2021									
8/16/2021				0.084 (J)					
8/17/2021									0.095 (J)
8/18/2021					0.41	0.15		0.21	
8/19/2021							0.53		
2/1/2022	0.064 (J)	<0.1	<0.1						
2/9/2022						0.2		0.2	0.1
2/10/2022				0.083 (J)	0.42		0.53		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	0.0394 (J)		
7/11/2016			
7/12/2016	0.15 (J)		
8/30/2016			
9/1/2016	0.5		
10/19/2016			
10/20/2016			
10/24/2016	0.06 (J)		
12/6/2016			
12/7/2016	0.44		
1/24/2017			
1/25/2017			
1/26/2017	0.29 (J)		
3/21/2017			
3/22/2017	0.34		
5/22/2017			
5/23/2017			
5/24/2017	0.13 (J)		
10/3/2017	0.46		
4/2/2018			
4/3/2018			
4/4/2018	<0.1		
6/4/2018			
6/5/2018	<0.1		
6/6/2018			
10/1/2018			
10/2/2018	0.17 (J)		
10/3/2018			
10/5/2018			
3/12/2019			
3/13/2019	0.17 (J)		
3/14/2019			
4/1/2019			
4/2/2019			
4/3/2019	0.082 (J)		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	0.17 (J)		
3/2/2020			
3/3/2020	0.11 (J)		
3/4/2020			
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020	0.12 (J)		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020	<0.1	0.22	0.52
9/17/2020			
9/18/2020			
9/21/2020			
11/10/2020		0.19	0.59
12/15/2020		0.21	0.67
1/19/2021		0.16	0.74
2/8/2021			
2/9/2021		0.19	0.44
2/10/2021			
2/12/2021			
2/15/2021	0.08 (J)		
2/16/2021			
2/22/2021			
3/10/2021			0.65
3/11/2021		0.2	
3/12/2021	0.054 (J)		
3/15/2021			
3/16/2021			
3/17/2021			
8/11/2021		0.15	
8/12/2021			
8/13/2021			0.87
8/16/2021			
8/17/2021	<0.1		
8/18/2021			
8/19/2021			
2/1/2022		0.19	0.96
2/9/2022	0.12		
2/10/2022			

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/7/2022 3:54 PM
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-12	HGWC-13	HGWC-11	HGWC-9
6/16/2020	6.97 (D)	7.31 (D)			6.97 (D)				
6/17/2020				7.2 (D)					
9/15/2020	7.15	7.29	5.22						
9/16/2020				7.3	6.92				
9/17/2020									6.99
9/18/2020						7.15		6.42	
9/21/2020							7.34		
11/10/2020									
12/15/2020									
1/19/2021									
2/8/2021	7.11								
2/9/2021		7.23	5.42						
2/10/2021				7.29					
2/12/2021						6.23		7.27	
2/15/2021									
2/16/2021					7.16				7.26
2/22/2021							7.27		
3/10/2021	6.95								
3/11/2021		7.33	5.8						
3/12/2021									
3/15/2021				7.19	7.09				
3/16/2021						7.15		5.95	7.1
3/17/2021							7.33		
8/11/2021	6.98								
8/12/2021		7.31	5.05						
8/13/2021									
8/16/2021				7.12					
8/17/2021									7.1
8/18/2021					7.02	6.89		6.1	
8/19/2021							7.38		
2/1/2022	7.19	7.45	5.24						
2/9/2022						7.23		6.55	7.3
2/10/2022				7.22	6.99		7.54		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	6.83		
7/11/2016			
7/12/2016	6.58		
8/30/2016			
9/1/2016	6.54		
10/19/2016			
10/20/2016			
10/24/2016	6.59		
12/6/2016			
12/7/2016	6.56		
1/24/2017			
1/25/2017			
1/26/2017	6.83		
3/21/2017			
3/22/2017	6.66		
5/22/2017			
5/23/2017			
5/24/2017	6.67		
10/3/2017	6.54		
4/2/2018			
4/3/2018			
4/4/2018	6.61		
6/4/2018			
6/5/2018	6.65		
6/6/2018			
10/1/2018			
10/2/2018	6.55		
10/3/2018			
10/5/2018			
3/12/2019			
3/13/2019	6.7		
3/14/2019			
4/1/2019			
4/2/2019			
4/3/2019	6.55		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	6.64		
3/2/2020			
3/3/2020	6.67		
3/4/2020			
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020	6.84		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020	6.66	7.52	7.83
9/17/2020			
9/18/2020			
9/21/2020			
11/10/2020		7.27	7.84
12/15/2020		7.39	7.87
1/19/2021		7.39	7.86
2/8/2021			
2/9/2021		7.44	7.84
2/10/2021			
2/12/2021			
2/15/2021	6.83		
2/16/2021			
2/22/2021			
3/10/2021			7.92
3/11/2021		7.46	
3/12/2021	6.76		
3/15/2021			
3/16/2021			
3/17/2021			
8/11/2021		7.4	
8/12/2021			
8/13/2021			7.77
8/16/2021			
8/17/2021	6.75		
8/18/2021			
8/19/2021			
2/1/2022		7.52	8.25
2/9/2022	7		
2/10/2022			

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-10	HGWC-12
1/19/2021									
3/10/2021	49.6								
3/11/2021		50.4	52.9						
3/12/2021								120	
3/15/2021				272	107				
3/16/2021						291			248
3/17/2021							384		
8/11/2021	48.9								
8/12/2021		38.6	47.4						
8/13/2021									
8/16/2021					98.1				
8/17/2021								156	
8/18/2021				245		237			226
8/19/2021							339		
2/1/2022	43.7	46	67.1						
2/9/2022						276		49.2	252
2/10/2022				224	97.5		371		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	207		
7/11/2016			
7/12/2016	230		
8/30/2016			
9/1/2016	230		
10/19/2016			
10/20/2016	240		
10/24/2016			
12/6/2016	240		
12/7/2016			
1/24/2017			
1/25/2017			
1/26/2017	270		
3/21/2017			
3/22/2017	240		
5/22/2017			
5/23/2017	240		
5/24/2017			
10/3/2017	240		
6/4/2018			
6/5/2018			
6/6/2018	214		
10/1/2018			
10/2/2018	218		
10/3/2018			
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	214		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	214		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	185		
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		43	6.9
9/17/2020	209		
9/18/2020			
9/21/2020			
11/10/2020		39	6.3
12/15/2020		38.8	6.7

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		37.3	7.4
3/10/2021			<1
3/11/2021		38.6	
3/12/2021			
3/15/2021			
3/16/2021	211		
3/17/2021			
8/11/2021		30.5	
8/12/2021			
8/13/2021			56.1
8/16/2021			
8/17/2021	207		
8/18/2021			
8/19/2021			
2/1/2022		37.5	56.3
2/9/2022	224		
2/10/2022			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-8	HGWC-7	HGWC-11	HGWC-13	HGWC-10	HGWC-12
1/19/2021									
3/10/2021	348								
3/11/2021		267	169						
3/12/2021								490 (H1)	
3/15/2021				614	370				
3/16/2021						558			614
3/17/2021							716		
8/11/2021	366								
8/12/2021		265	118						
8/13/2021									
8/16/2021					407				
8/17/2021								496	
8/18/2021				620		566			600
8/19/2021							726		
2/1/2022	270	350	156						
2/9/2022						544		250	678
2/10/2022				578	414		814		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/7/2022 3:54 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2016			
5/20/2016			
5/23/2016	984		
7/11/2016			
7/12/2016	887		
8/30/2016			
9/1/2016	956		
10/19/2016			
10/20/2016	642		
10/24/2016			
12/6/2016	899		
12/7/2016			
1/24/2017			
1/25/2017			
1/26/2017	869		
3/21/2017			
3/22/2017	936		
5/22/2017			
5/23/2017	939		
5/24/2017			
10/3/2017	1040		
6/4/2018			
6/5/2018			
6/6/2018	810		
10/1/2018			
10/2/2018	693		
10/3/2018			
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	673		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	730		
3/25/2020			
3/26/2020			
3/27/2020			
3/30/2020			
3/31/2020	1010		
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		272	270
9/17/2020	680		
9/18/2020			
9/21/2020			
11/10/2020		307	287
12/15/2020		289	295

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/7/2022 3:54 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	HGWA-43D (bg)	HGWA-44D (bg)
1/19/2021		270	278
3/10/2021			289
3/11/2021		279	
3/12/2021			
3/15/2021			
3/16/2021	672		
3/17/2021			
8/11/2021		277	
8/12/2021			
8/13/2021			436
8/16/2021			
8/17/2021	704		
8/18/2021			
8/19/2021			
2/1/2022		156	444
2/9/2022	756		
2/10/2022			

FIGURE E.

Appendix III Trend Test Summary - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:58 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	HGWA-2 (bg)	0.002699	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-13	-0.2813	-90	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-7	0.05328	110	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.1051	81	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.781	86	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	20.44	21	18	Yes	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-12	-22.37	-111	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-8	-9.715	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-9	-13.5	-103	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.393	83	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-12	-84.21	-91	-68	Yes	18	0	n/a	n/a	0.01	NP

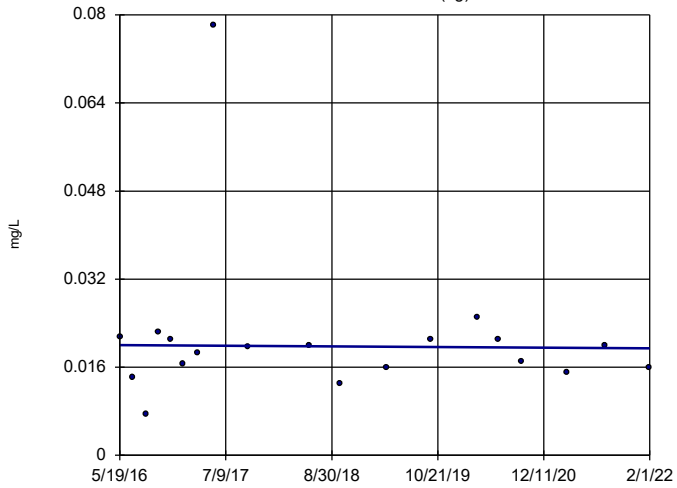
Appendix III Trend Test Summary - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/7/2022, 3:58 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	HGWA-1 (bg)	-0.00009951	-10	-74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-2 (bg)	0.002699	99	68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-3 (bg)	0.00007969	6	74	No	19	15.79	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-43D (bg)	-0.01252	-11	-18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-44D (bg)	0.1524	14	18	No	7	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-11	-0.1891	-49	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-12	-0.1561	-61	-68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-13	-0.2813	-90	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-7	0.05328	110	74	Yes	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-8	0.04833	19	74	No	19	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.1051	81	68	Yes	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-1 (bg)	2.687	54	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-2 (bg)	0.4885	35	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.781	86	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-43D (bg)	-3.578	-7	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-44D (bg)	-5.272	-9	-18	No	7	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-11	0.2076	3	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-12	-6.225	-52	-68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-13	14.04	32	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-8	-1.147	-19	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-9	0.7636	34	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.6486	50	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	-0.1714	-45	-68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.1393	-73	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-43D (bg)	-0.2444	-4	-18	No	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	20.44	21	18	Yes	7	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-12	-22.37	-111	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-8	-9.715	-86	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-9	-13.5	-103	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-1 (bg)	1.77	34	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.393	83	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-3 (bg)	1.106	61	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-8.864	-15	-18	No	7	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-44D (bg)	7.3	9	18	No	7	14.29	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-11	-7.699	-17	-68	No	18	5.556	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-12	-14.75	-59	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-13	33.22	25	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-7	0	-12	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-8	-5.775	-22	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-9	-4.06	-54	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	1.455	7	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-2 (bg)	-1.375	-12	-68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-3 (bg)	1.051	12	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-43D (bg)	-42.44	-9	-18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-44D (bg)	112.8	15	18	No	7	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-12	-84.21	-91	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-13	22.89	23	68	No	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-9	-40.5	-45	-68	No	18	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

HGWA-1 (bg)

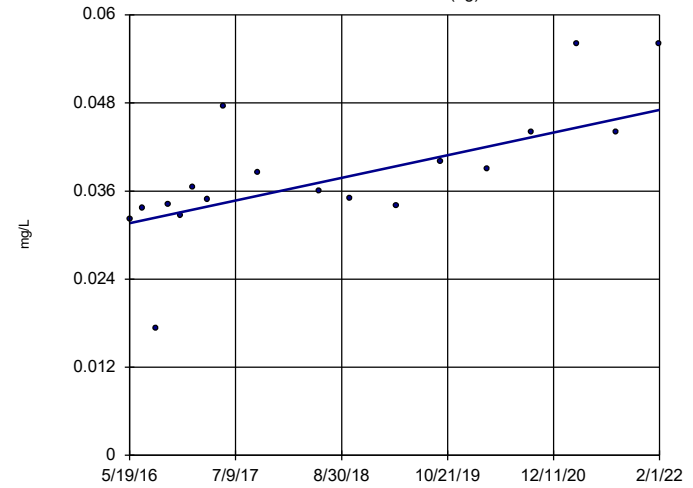


n = 19
 Slope = -0.00009951
 units per year.
 Mann-Kendall
 statistic = -10
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-2 (bg)

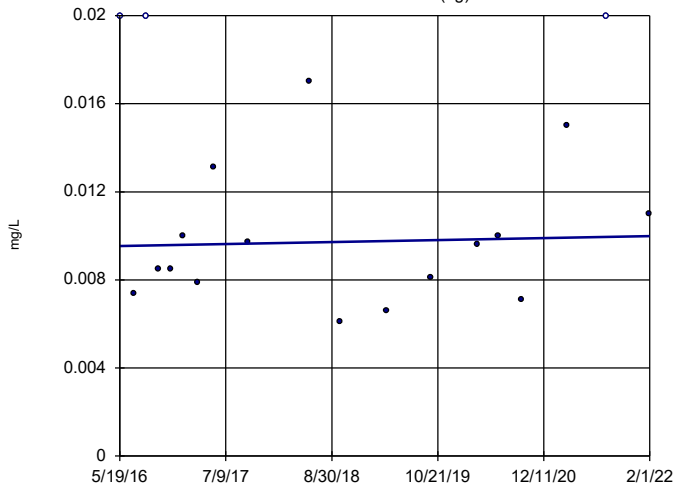


n = 18
 Slope = 0.002699
 units per year.
 Mann-Kendall
 statistic = 99
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-3 (bg)

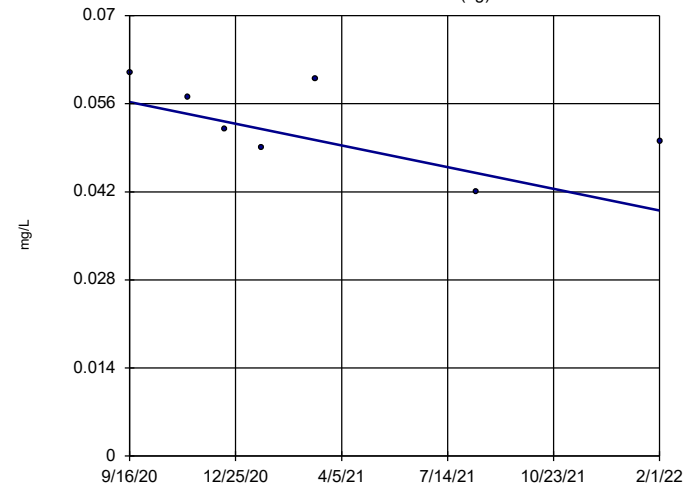


n = 19
 Slope = 0.00007969
 units per year.
 Mann-Kendall
 statistic = 6
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-43D (bg)

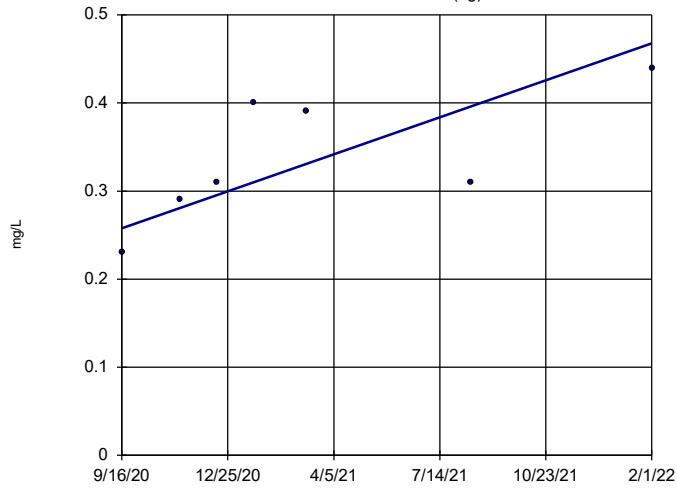


n = 7
 Slope = -0.01252
 units per year.
 Mann-Kendall
 statistic = -11
 critical = -18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-44D (bg)

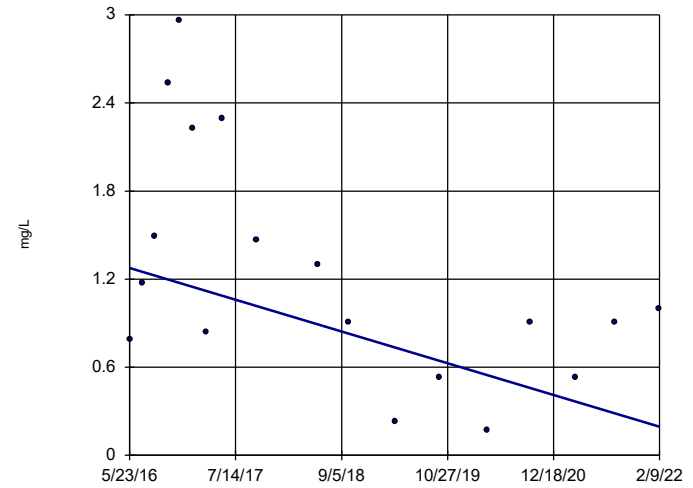


n = 7
 Slope = 0.1524
 units per year.
 Mann-Kendall
 statistic = 14
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-11

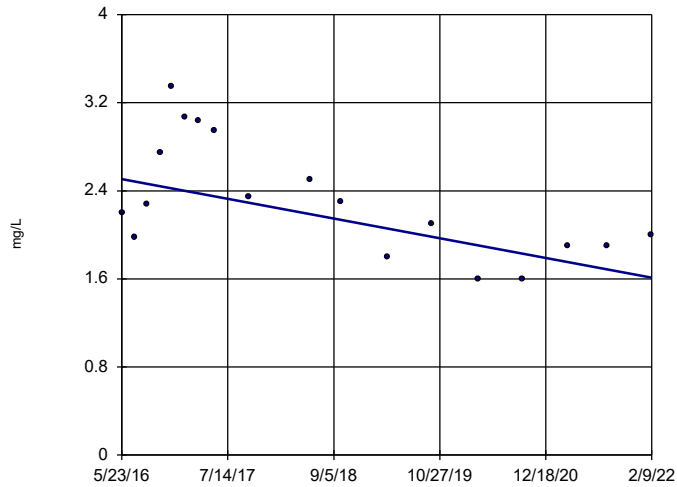


n = 18
 Slope = -0.1891
 units per year.
 Mann-Kendall
 statistic = -49
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-12

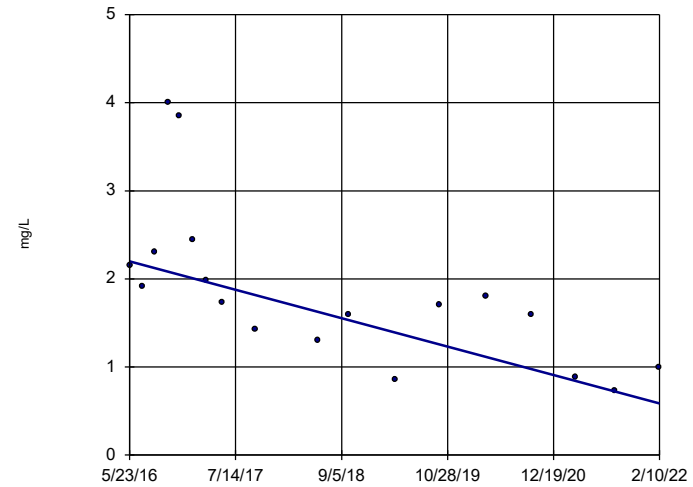


n = 18
 Slope = -0.1561
 units per year.
 Mann-Kendall
 statistic = -61
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

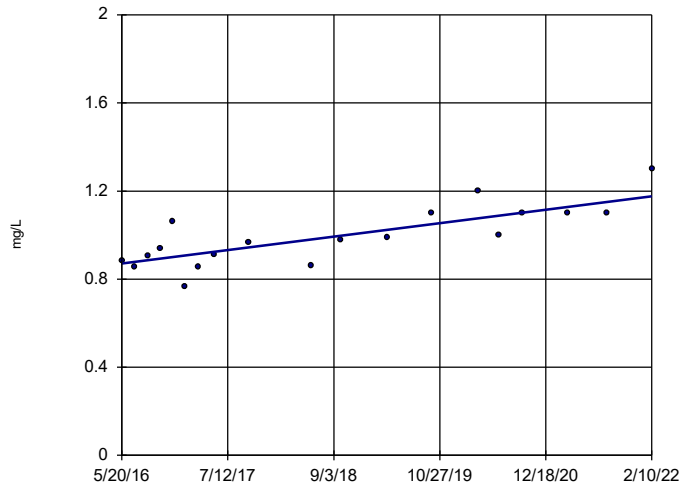
HGWC-13



n = 18
 Slope = -0.2813
 units per year.
 Mann-Kendall
 statistic = -90
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

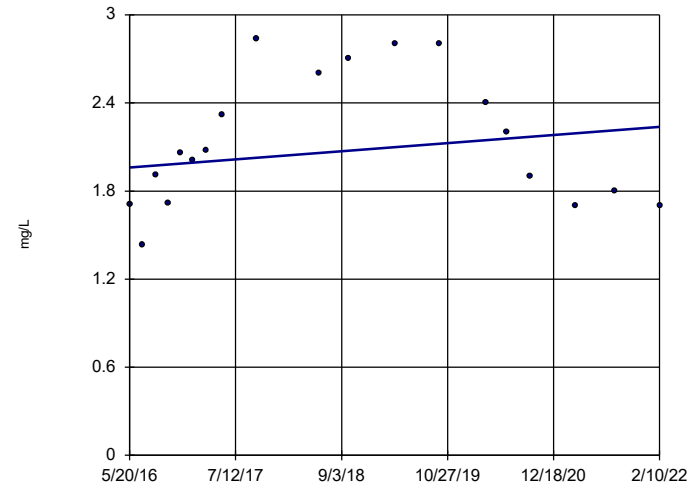
Sen's Slope Estimator
HGWC-7



n = 19
Slope = 0.05328
units per year.
Mann-Kendall
statistic = 110
critical = 74
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

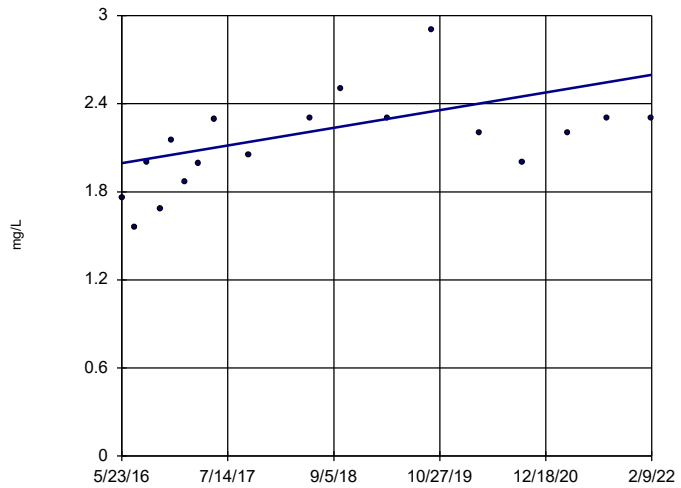
Sen's Slope Estimator
HGWC-8



n = 19
Slope = 0.04833
units per year.
Mann-Kendall
statistic = 19
critical = 74
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

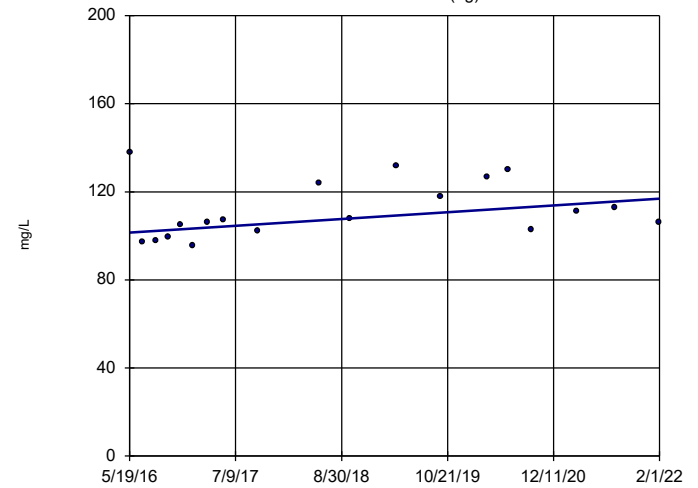
Sen's Slope Estimator
HGWC-9



n = 18
Slope = 0.1051
units per year.
Mann-Kendall
statistic = 81
critical = 68
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

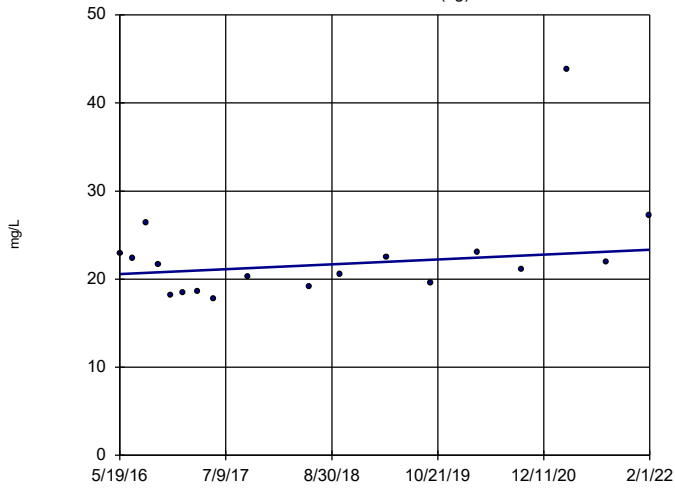
Sen's Slope Estimator
HGWA-1 (bg)



n = 19
Slope = 2.687
units per year.
Mann-Kendall
statistic = 54
critical = 74
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

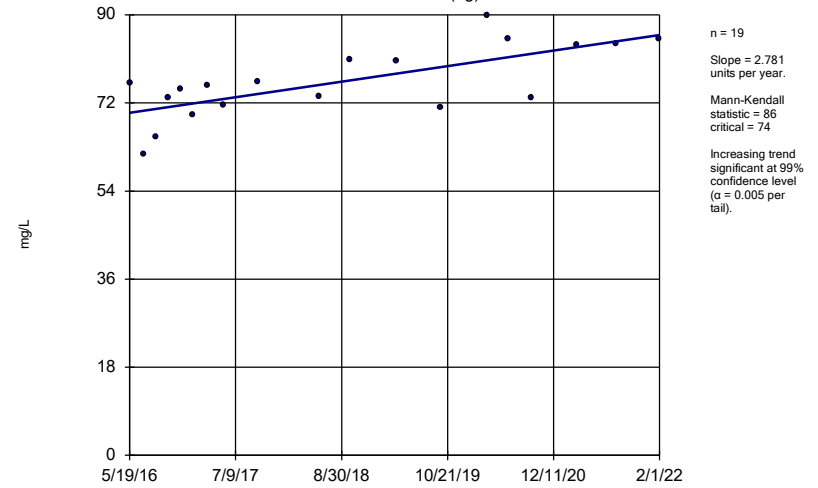
Constituent: Calcium Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWA-2 (bg)



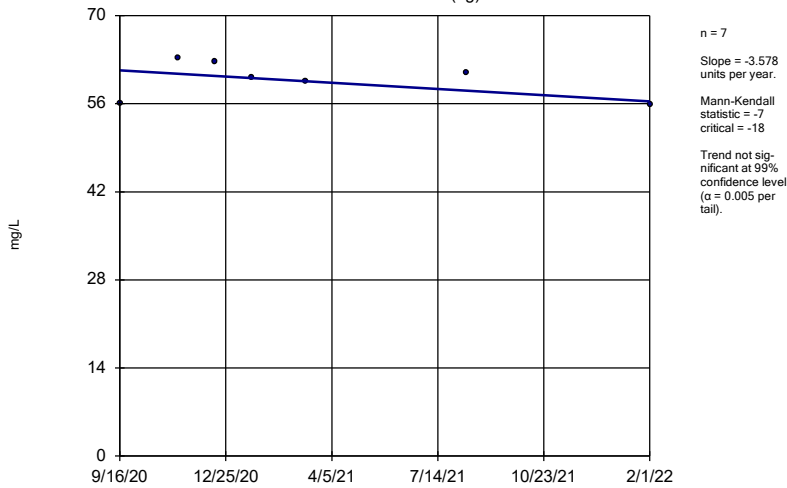
Constituent: Calcium Analysis Run 4/7/2022 3:56 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWA-3 (bg)



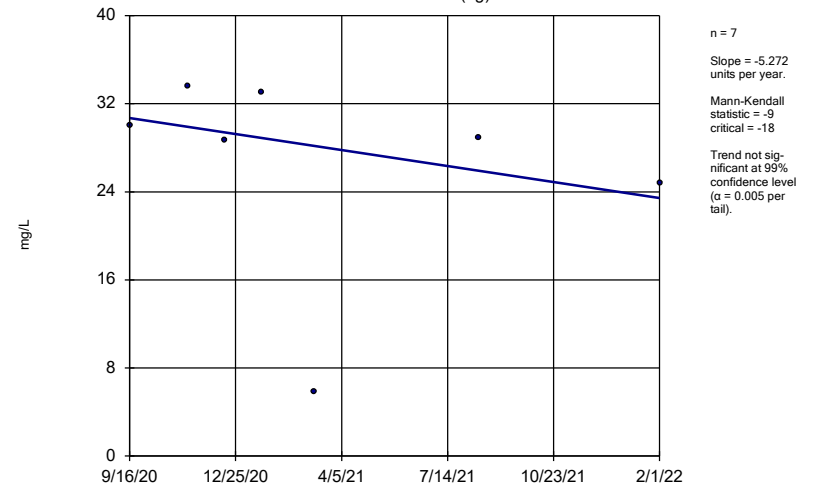
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWA-43D (bg)



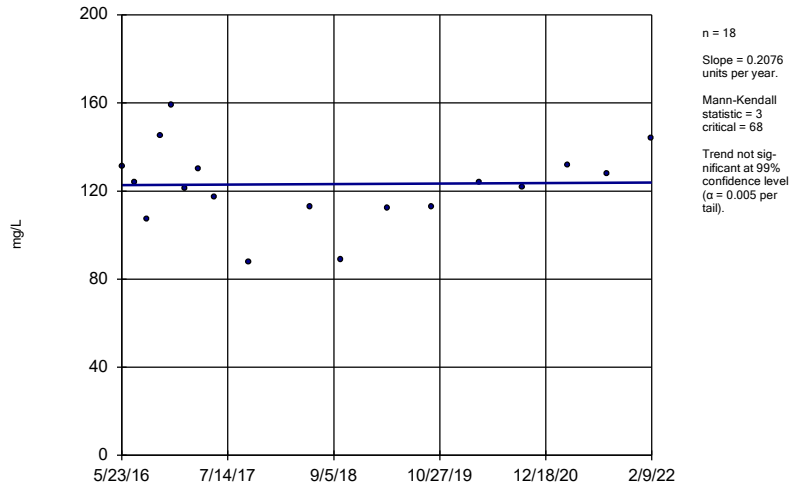
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWA-44D (bg)



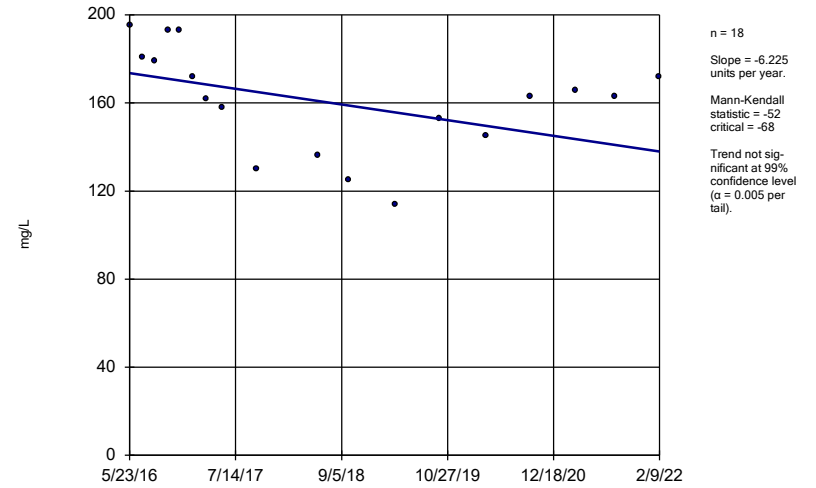
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator HGWC-11



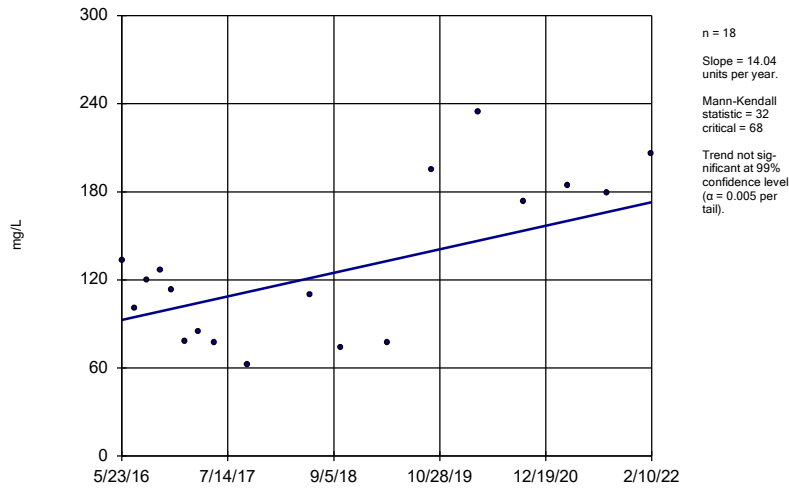
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator HGWC-12



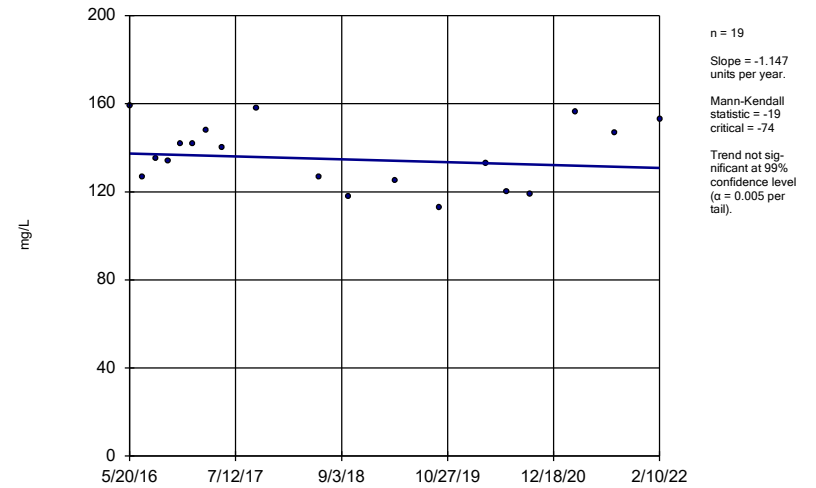
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator HGWC-13



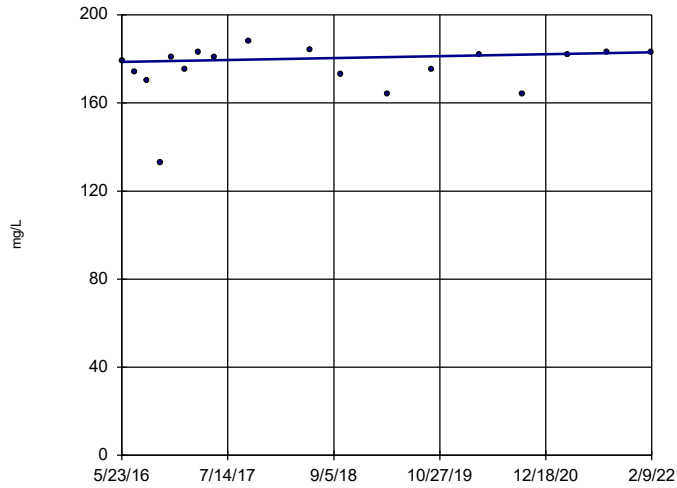
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator HGWC-8



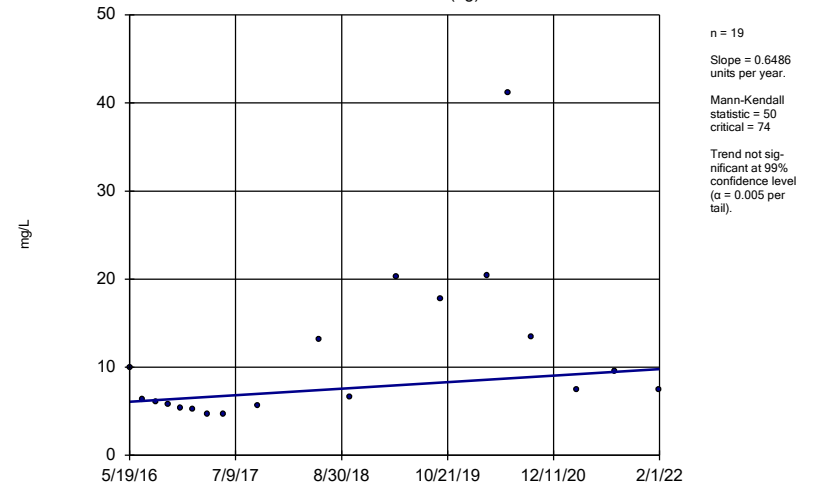
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator HGWC-9



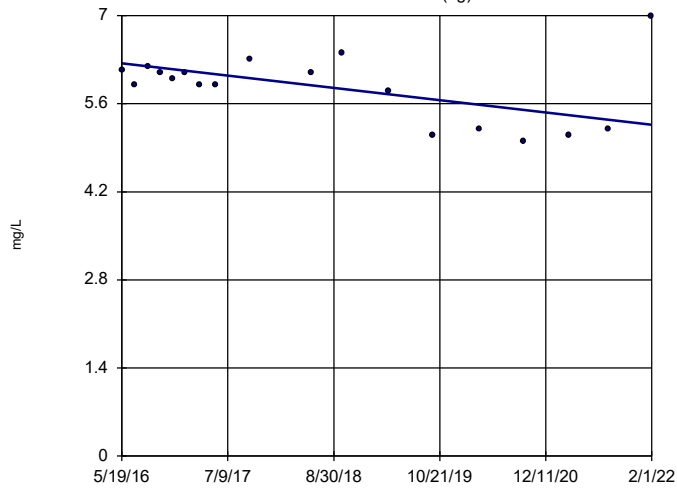
Constituent: Calcium Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator HGWA-1 (bg)



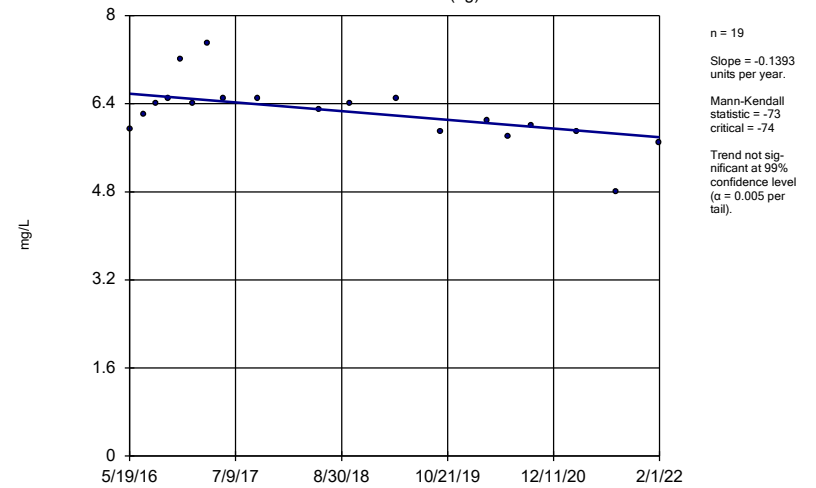
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator HGWA-2 (bg)



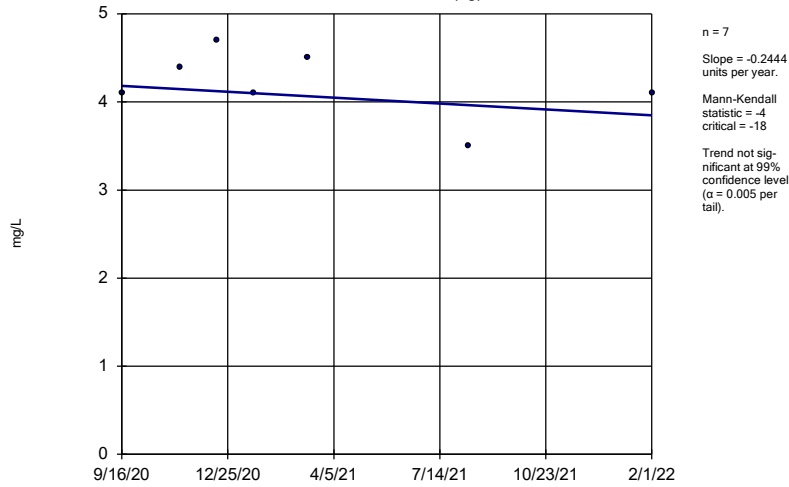
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator HGWA-3 (bg)



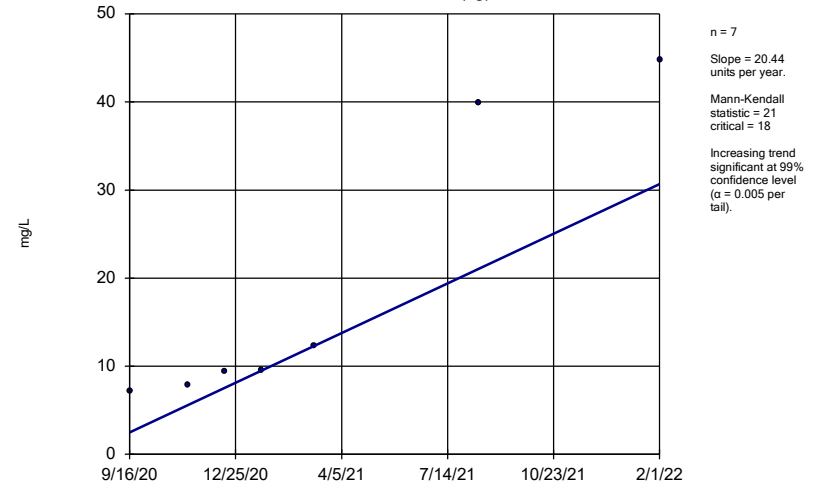
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWA-43D (bg)



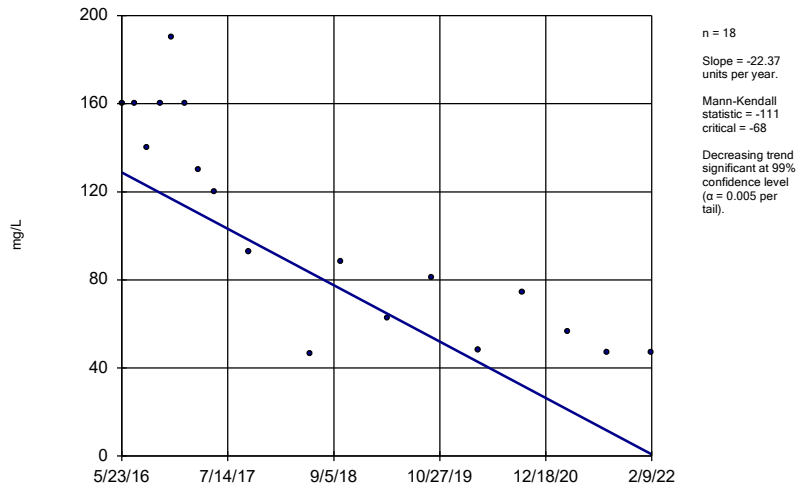
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWA-44D (bg)



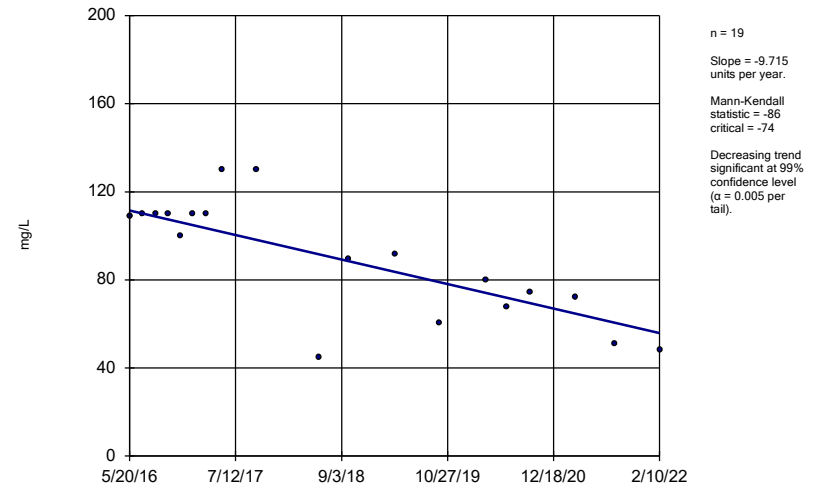
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWC-12



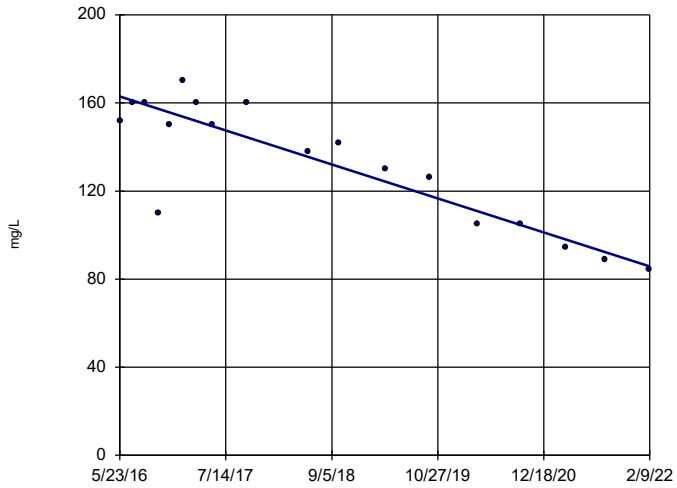
Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWC-8



Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

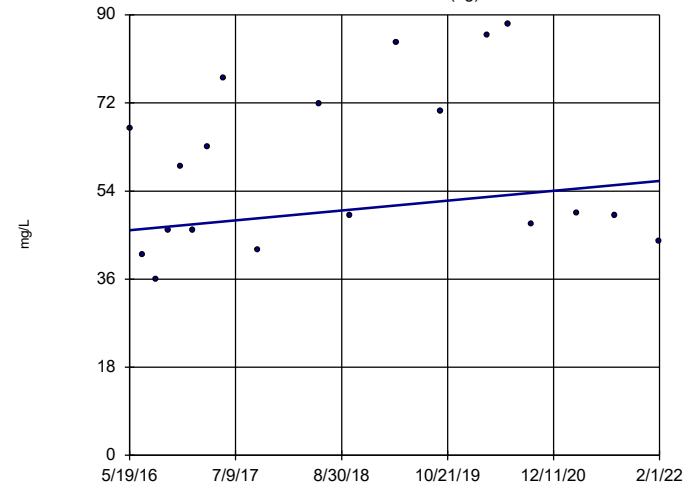
Sen's Slope Estimator HGWC-9



n = 18
 Slope = -13.5
 units per year.
 Mann-Kendall
 statistic = -103
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

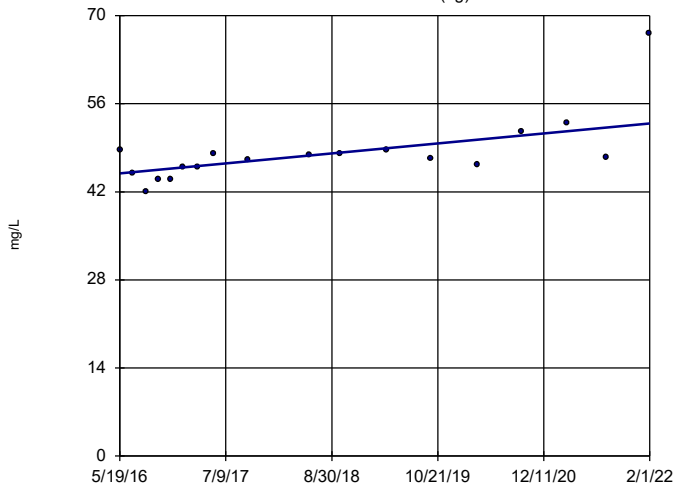
Sen's Slope Estimator HGWA-1 (bg)



n = 19
 Slope = 1.77
 units per year.
 Mann-Kendall
 statistic = 34
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

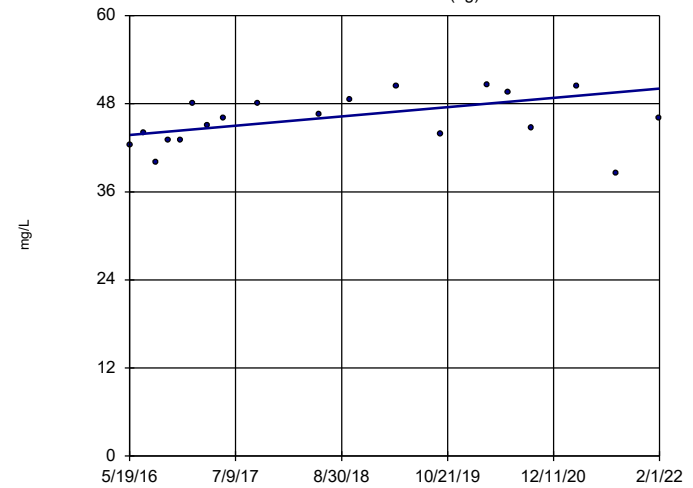
Sen's Slope Estimator HGWA-2 (bg)



n = 18
 Slope = 1.393
 units per year.
 Mann-Kendall
 statistic = 83
 critical = 68
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator HGWA-3 (bg)

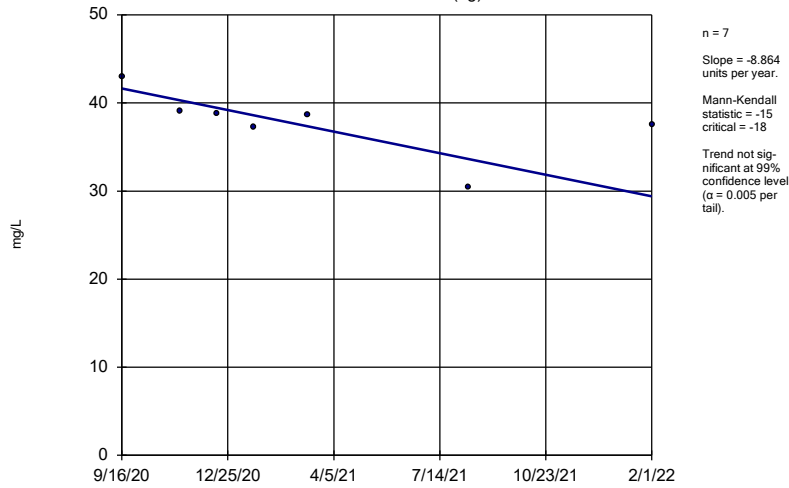


n = 19
 Slope = 1.106
 units per year.
 Mann-Kendall
 statistic = 61
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-43D (bg)

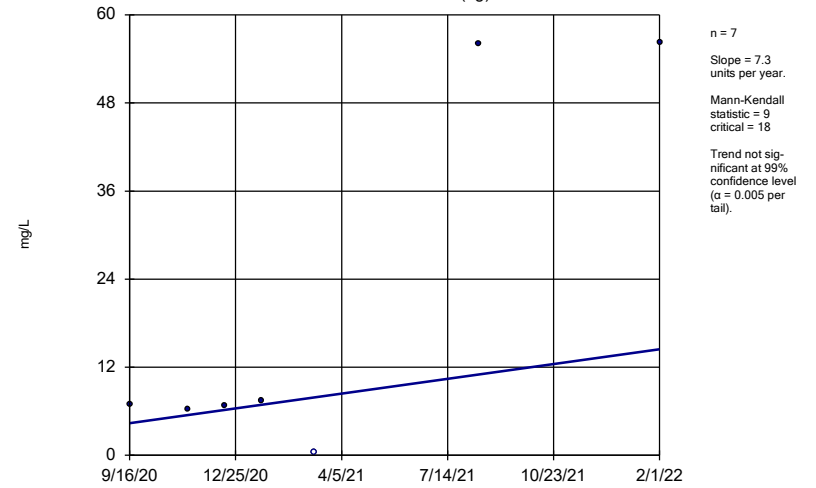


Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.

Sen's Slope Estimator

HGWA-44D (bg)

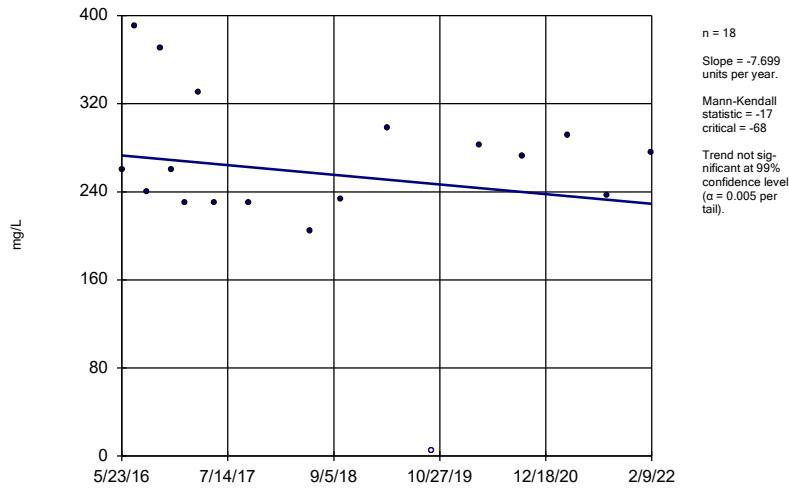


Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values.

Sen's Slope Estimator

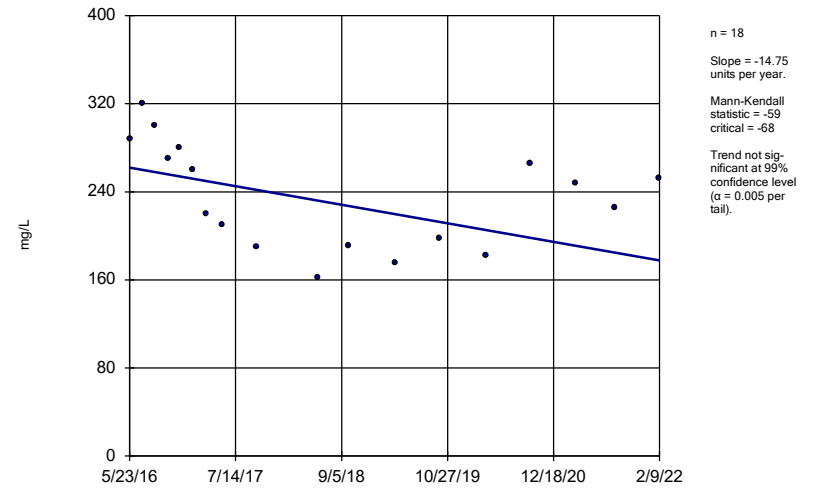
HGWC-11



Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

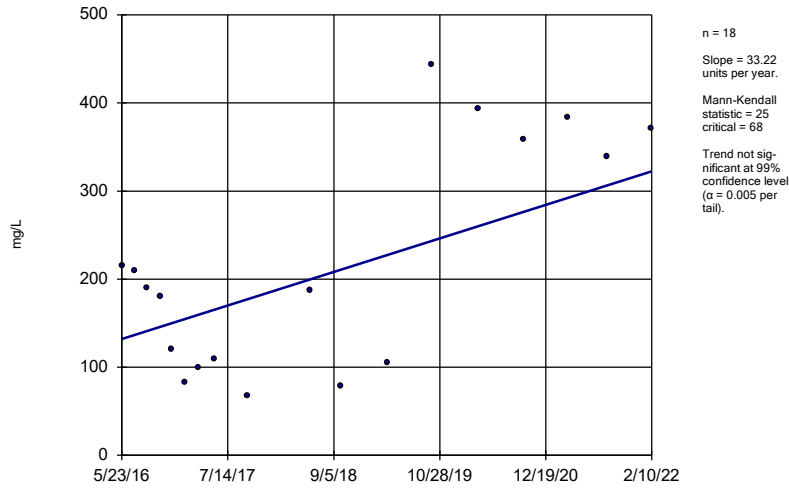
Sen's Slope Estimator

HGWC-12



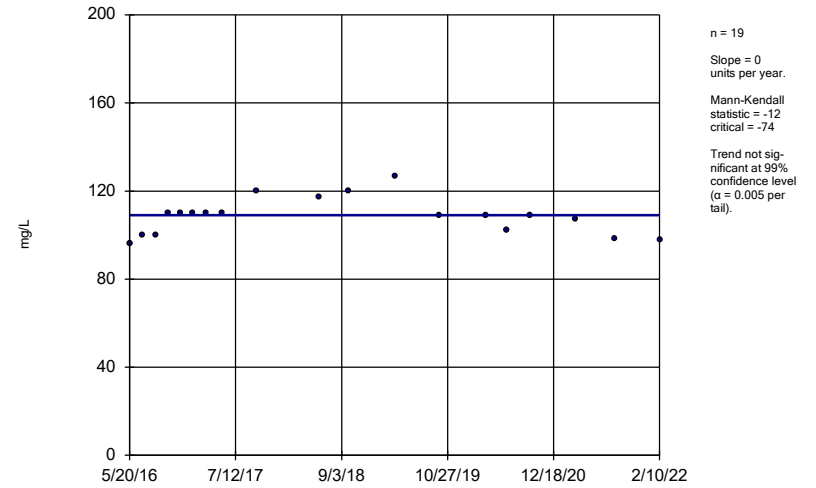
Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWC-13



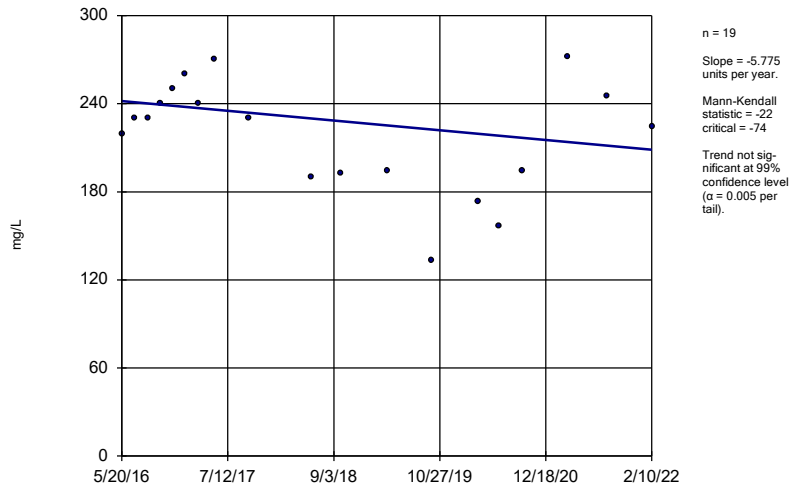
Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWC-7



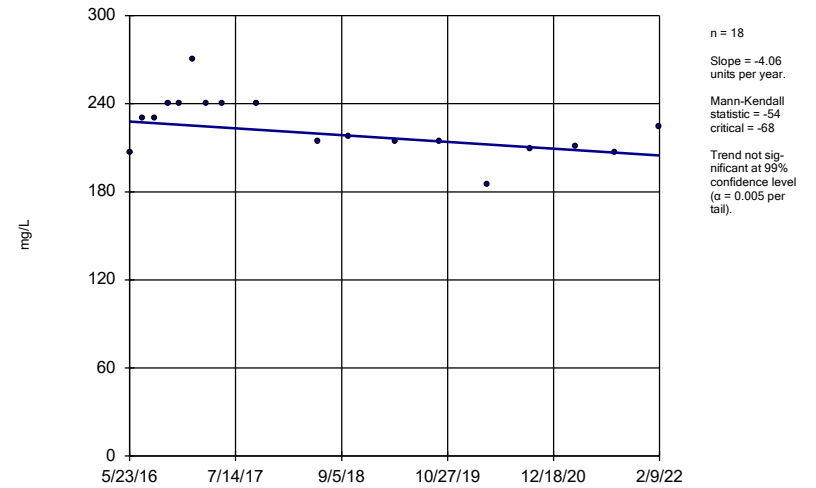
Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWC-8



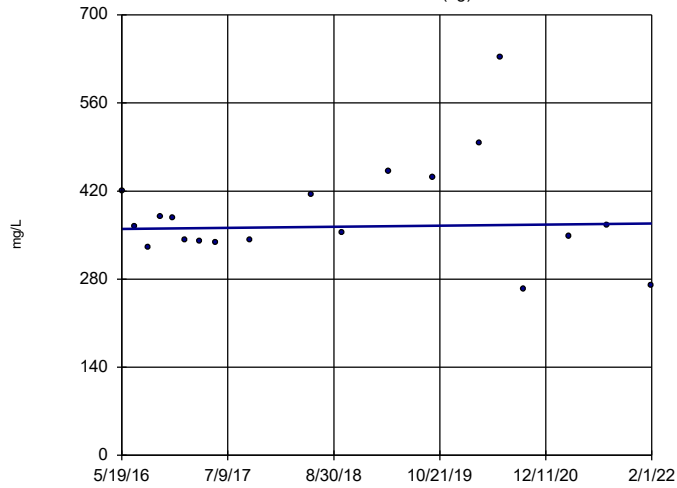
Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWC-9



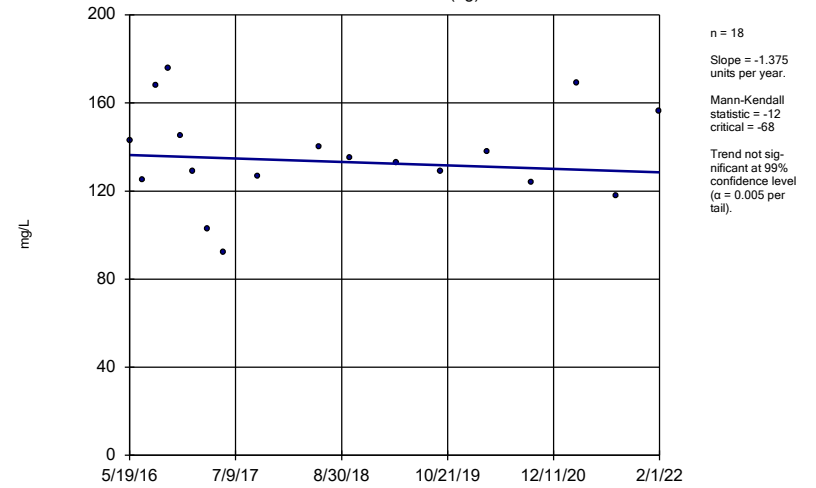
Constituent: Sulfate Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWA-1 (bg)



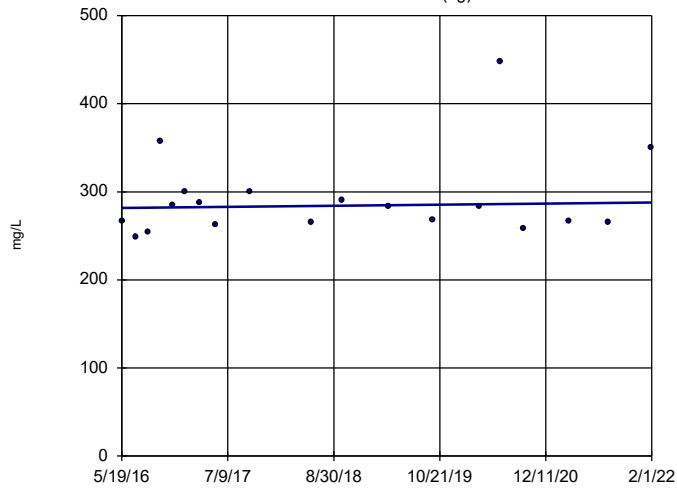
Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWA-2 (bg)



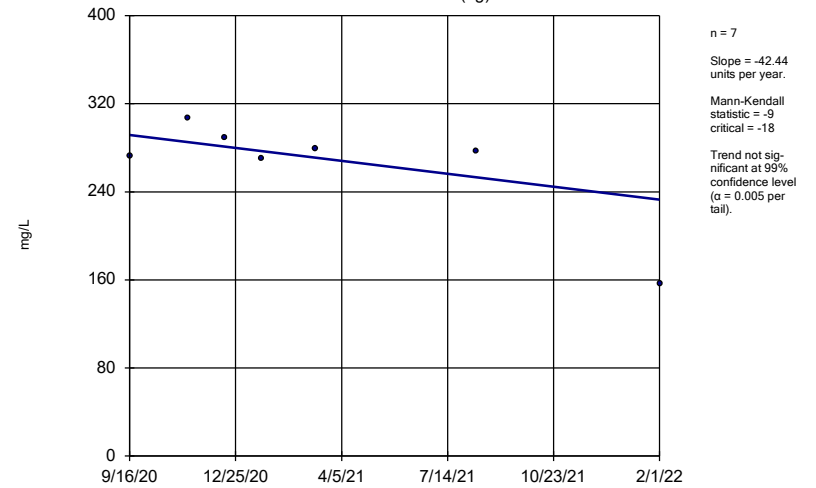
Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator
HGWA-3 (bg)



Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

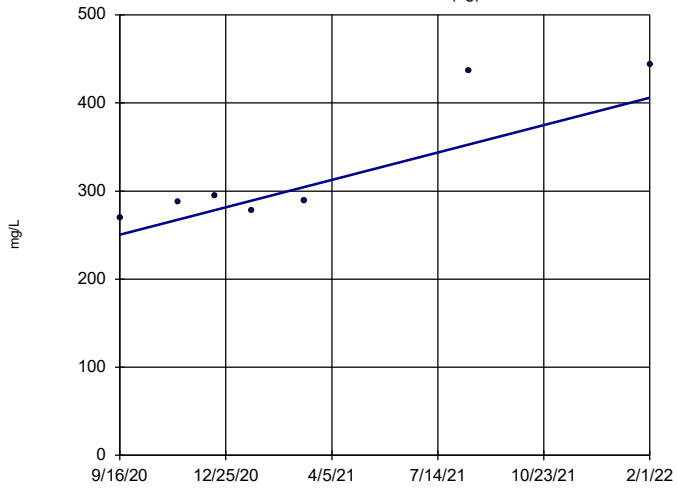
Sen's Slope Estimator
HGWA-43D (bg)



Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-44D (bg)

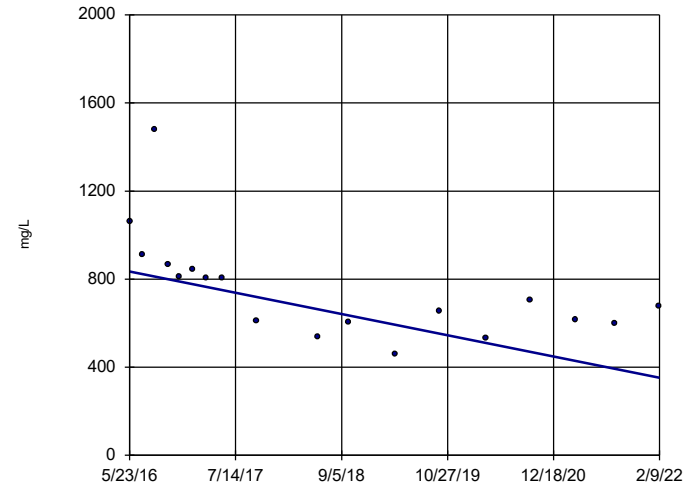


n = 7
 Slope = 112.8
 units per year.
 Mann-Kendall
 statistic = 15
 critical = 18
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-12

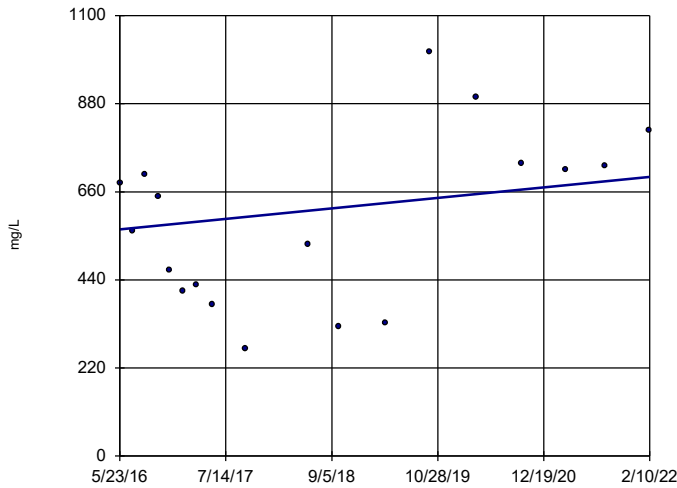


n = 18
 Slope = -84.21
 units per year.
 Mann-Kendall
 statistic = -91
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-13

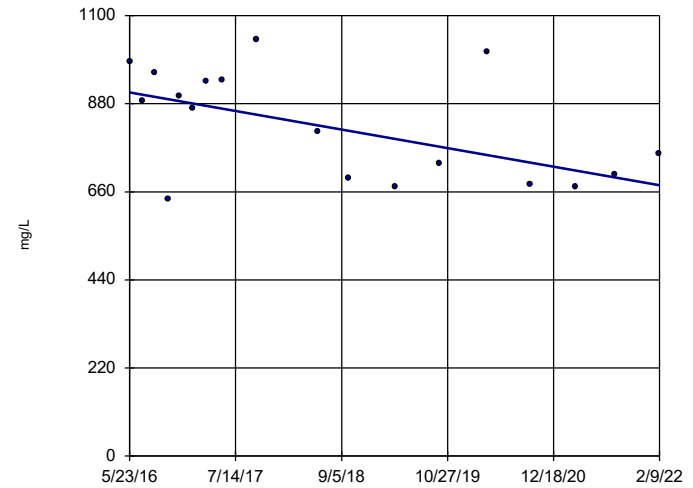


n = 18
 Slope = 22.89
 units per year.
 Mann-Kendall
 statistic = 23
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-9



n = 18
 Slope = -40.5
 units per year.
 Mann-Kendall
 statistic = -45
 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/7/2022 3:57 PM View: Appendix III - Trend Test
 Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/25/2022, 2:44 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	73	n/a	n/a	78.08	n/a	n/a	0.02365	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	79	n/a	n/a	63.29	n/a	n/a	0.01738	NP Inter(NDs)
Barium (mg/L)	n/a	0.46	n/a	n/a	n/a	n/a	79	n/a	n/a	0	n/a	n/a	0.01738	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	73	n/a	n/a	78.08	n/a	n/a	0.02365	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	73	n/a	n/a	86.3	n/a	n/a	0.02365	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0079	n/a	n/a	n/a	n/a	73	n/a	n/a	80.82	n/a	n/a	0.02365	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.038	n/a	n/a	n/a	n/a	73	n/a	n/a	72.6	n/a	n/a	0.02365	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.36	n/a	n/a	n/a	n/a	79	n/a	n/a	0	n/a	n/a	0.01738	NP Inter(normality)
Fluoride (mg/L)	n/a	0.96	n/a	n/a	n/a	n/a	84	n/a	n/a	32.14	n/a	n/a	0.01345	NP Inter(normality)
Lead (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	70	n/a	n/a	64.29	n/a	n/a	0.02758	NP Inter(NDs)
Lithium (mg/L)	n/a	0.048	n/a	n/a	n/a	n/a	79	n/a	n/a	20.25	n/a	n/a	0.01738	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	n/a	51	n/a	n/a	96.08	n/a	n/a	0.0731	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	81	n/a	n/a	80.25	n/a	n/a	0.01569	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	79	n/a	n/a	98.73	n/a	n/a	0.01738	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	79	n/a	n/a	98.73	n/a	n/a	0.01738	NP Inter(NDs)

FIGURE G.

PLANT HAMMOND AP-1 GWPS				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.46	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005
Chromium, Total (mg/L)	0.1		0.0079	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.038	0.038
Combined Radium, Total (pCi/L)	5		4.36	5
Fluoride, Total (mg/L)	4		0.96	4
Lead, Total (mg/L)	n/a	0.015	0.001	0.015
Lithium, Total (mg/L)	n/a	0.04	0.048	0.048
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

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

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:17 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	HGWC-13	0.4243	0.3567	0.01	Yes	21	0.3905	0.06131	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-8	0.4903	0.4416	0.1	Yes	22	0.466	0.04541	0	None	No	0.01	Param.

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	HGWC-10	0.003	0.00065	0.006	No	19	0.002876	0.0005391	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-11	0.003	0.00038	0.006	No	19	0.002862	0.0006011	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-13	0.003	0.00036	0.006	No	19	0.002038	0.001296	63.16	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-7	0.003	0.0017	0.006	No	19	0.002792	0.0006642	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-8	0.003	0.00064	0.006	No	19	0.002876	0.0005414	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-9	0.003	0.00043	0.006	No	19	0.002588	0.000978	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-24D	0.003	0.003	0.006	No	10	0.00287	0.0004111	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-26D	0.003	0.002	0.006	No	10	0.00273	0.0005926	80	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-27D	0.003	0.0003	0.006	No	10	0.001382	0.001394	40	None	No	0.011	NP (normality)
Antimony (mg/L)	MW-28D	0.003	0.003	0.006	No	10	0.00289	0.0003479	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-29	0.003	0.003	0.006	No	10	0.002794	0.0006514	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-6	0.003	0.003	0.006	No	10	0.00284	0.000506	90	None	No	0.011	NP (NDs)
Antimony (mg/L)	MW-7	0.003	0.00086	0.006	No	10	0.002277	0.001014	60	None	No	0.011	NP (NDs)
Arsenic (mg/L)	HGWC-11	0.005	0.0017	0.01	No	21	0.003417	0.001744	42.86	None	No	0.01	NP (normality)
Arsenic (mg/L)	HGWC-12	0.004566	0.003196	0.01	No	21	0.003881	0.001242	9.524	None	No	0.01	Param.
Arsenic (mg/L)	HGWC-13	0.4243	0.3567	0.01	Yes	21	0.3905	0.06131	0	None	No	0.01	Param.
Arsenic (mg/L)	HGWC-7	0.005	0.0019	0.01	No	21	0.004852	0.0006765	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-8	0.005	0.002	0.01	No	21	0.004857	0.0006547	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-9	0.005	0.0021	0.01	No	21	0.004239	0.001634	80.95	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-19	0.005	0.005	0.01	No	10	0.004545	0.001439	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-20	0.005	0.00094	0.01	No	10	0.003862	0.001891	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.001	0.01	No	10	0.003475	0.00199	60	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-26D	0.005	0.0008	0.01	No	10	0.00381	0.001936	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-27D	0.005	0.00069	0.01	No	10	0.003689	0.002119	70	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-28D	0.005	0.005	0.01	No	10	0.00461	0.001233	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-29	0.005	0.005	0.01	No	10	0.004537	0.001464	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-5	0.005	0.005	0.01	No	10	0.00463	0.00117	90	None	No	0.011	NP (NDs)
Arsenic (mg/L)	MW-6	0.005	0.005	0.01	No	10	0.00484	0.000506	90	None	No	0.011	NP (NDs)
Barium (mg/L)	HGWC-10	0.08616	0.06339	2	No	21	0.07478	0.02063	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-11	0.05204	0.03249	2	No	21	0.04349	0.01968	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	HGWC-12	0.1104	0.08821	2	No	21	0.1007	0.02119	0	None	ln(x)	0.01	Param.
Barium (mg/L)	HGWC-13	0.08963	0.06681	2	No	21	0.07822	0.02069	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-7	0.0746	0.06816	2	No	21	0.07138	0.005842	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-8	0.07497	0.06265	2	No	21	0.06881	0.01117	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-9	0.1206	0.1049	2	No	21	0.1127	0.01424	0	None	No	0.01	Param.
Barium (mg/L)	MW-19	0.0645	0.0469	2	No	10	0.0557	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	MW-20	0.09572	0.08428	2	No	10	0.09	0.006412	0	None	No	0.01	Param.
Barium (mg/L)	MW-24D	0.081	0.048	2	No	10	0.0619	0.02291	0	None	No	0.011	NP (normality)
Barium (mg/L)	MW-25D	0.5334	0.4006	2	No	10	0.467	0.07439	0	None	No	0.01	Param.
Barium (mg/L)	MW-26D	0.1303	0.0783	2	No	10	0.1043	0.02914	0	None	No	0.01	Param.
Barium (mg/L)	MW-27D	1.2	0.95	2	No	10	1.079	0.1676	0	None	No	0.011	NP (normality)
Barium (mg/L)	MW-28D	0.7165	0.2695	2	No	10	0.493	0.2505	0	None	No	0.01	Param.
Barium (mg/L)	MW-29	0.08459	0.07481	2	No	10	0.0797	0.005478	0	None	No	0.01	Param.
Barium (mg/L)	MW-5	0.05079	0.04361	2	No	10	0.0472	0.004022	0	None	No	0.01	Param.
Barium (mg/L)	MW-6	0.09214	0.07966	2	No	10	0.0859	0.006999	0	None	No	0.01	Param.
Barium (mg/L)	MW-7	0.06238	0.04882	2	No	10	0.0556	0.007604	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-11	0.0005	0.0001	0.004	No	19	0.0003577	0.0001924	63.16	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-13	0.0005	0.000093	0.004	No	19	0.0003281	0.0002074	57.89	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-7	0.0005	0.00019	0.004	No	19	0.0004394	0.0001454	84.21	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-8	0.0005	0.000078	0.004	No	19	0.0003674	0.0002006	68.42	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-19	0.0005	0.0005	0.004	No	10	0.0004558	0.0001398	90	None	No	0.011	NP (NDs)
Beryllium (mg/L)	MW-28D	0.0005	0.000054	0.004	No	10	0.0003742	0.000204	70	None	No	0.011	NP (NDs)
Beryllium (mg/L)	MW-7	0.0005	0.0005	0.004	No	10	0.0004551	0.000142	90	None	No	0.011	NP (NDs)
Cadmium (mg/L)	HGWC-10	0.0005	0.0001	0.005	No	19	0.0003587	0.0001913	63.16	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-11	0.0005	0.0001	0.005	No	19	0.0004366	0.0001504	84.21	None	No	0.01	NP (NDs)

Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cadmium (mg/L)	HGWC-12	0.0005	0.0003	0.005	No	19	0.0004337	0.0001368	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-7	0.0005	0.0002	0.005	No	19	0.0004316	0.0001376	78.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-8	0.00032	0.00017	0.005	No	19	0.0003068	0.0003506	5.263	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-9	0.0005	0.0002	0.005	No	19	0.0004405	0.0001429	84.21	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-19	0.0004257	0.0001233	0.005	No	10	0.000349	0.000295	20	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	HGWC-10	0.02	0.0011	0.1	No	19	0.005584	0.003603	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-11	0.005	0.00061	0.1	No	19	0.004522	0.001434	89.47	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-12	0.005	0.0025	0.1	No	19	0.004411	0.001444	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-13	0.005	0.00059	0.1	No	19	0.004292	0.00168	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-7	0.071	0.0016	0.1	No	19	0.007486	0.01548	68.42	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-8	0.005	0.0015	0.1	No	19	0.004133	0.001735	78.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-9	0.005	0.0011	0.1	No	19	0.004331	0.00159	84.21	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-19	0.005	0.00059	0.1	No	10	0.003032	0.002131	50	None	No	0.011	NP (normality)
Chromium (mg/L)	MW-20	0.005	0.00068	0.1	No	10	0.00369	0.00211	70	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-24D	0.005	0.0017	0.1	No	10	0.004212	0.001688	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-25D	0.005	0.005	0.1	No	10	0.004561	0.001388	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-26D	0.005	0.001	0.1	No	10	0.003206	0.001969	50	None	No	0.011	NP (normality)
Chromium (mg/L)	MW-27D	0.005	0.00082	0.1	No	10	0.004152	0.001788	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-28D	0.005	0.00081	0.1	No	10	0.002764	0.002001	40	None	No	0.011	NP (normality)
Chromium (mg/L)	MW-29	0.005	0.005	0.1	No	10	0.0046	0.001265	90	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-5	0.004196	0.002284	0.1	No	10	0.00324	0.001071	0	None	No	0.01	Param.
Chromium (mg/L)	MW-6	0.005	0.00059	0.1	No	10	0.004103	0.001891	80	None	No	0.011	NP (NDs)
Chromium (mg/L)	MW-7	0.005	0.0015	0.1	No	10	0.00238	0.001412	20	None	No	0.011	NP (normality)
Cobalt (mg/L)	HGWC-10	0.005	0.0007	0.038	No	19	0.003663	0.002026	68.42	None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-11	0.005	0.00098	0.038	No	19	0.002903	0.001776	36.84	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-12	0.0018	0.0012	0.038	No	19	0.001805	0.001159	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-13	0.004075	0.002642	0.038	No	19	0.003358	0.001224	5.263	None	No	0.01	Param.
Cobalt (mg/L)	HGWC-7	0.0026	0.00065	0.038	No	19	0.001551	0.001611	15.79	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-8	0.0023	0.0019	0.038	No	19	0.002188	0.000719	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-9	0.0011	0.00053	0.038	No	19	0.001158	0.001396	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-19	0.04228	0.03012	0.038	No	10	0.0362	0.006812	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-20	0.005	0.005	0.038	No	10	0.00461	0.001233	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-24D	0.005	0.00056	0.038	No	10	0.003691	0.002117	70	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-26D	0.005	0.00044	0.038	No	10	0.002276	0.002346	40	None	No	0.011	NP (normality)
Cobalt (mg/L)	MW-27D	0.005	0.0004	0.038	No	10	0.003594	0.002266	70	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-28D	0.005	0.005	0.038	No	10	0.004593	0.001287	90	None	No	0.011	NP (NDs)
Cobalt (mg/L)	MW-29	0.001281	0.0006929	0.038	No	10	0.000987	0.0003296	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-6	0.005	0.00041	0.038	No	10	0.001431	0.001888	20	None	No	0.011	NP (normality)
Combined Radium 226 + 228 (pCi/L)	HGWC-10	1.084	0.5887	5	No	21	0.8361	0.4486	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-11	1.178	0.6584	5	No	21	0.9183	0.4711	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-12	1.065	0.5671	5	No	21	0.8161	0.4513	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-13	1.012	0.5939	5	No	21	0.803	0.379	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-7	0.908	0.413	5	No	21	0.7117	0.5013	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-8	0.9892	0.7076	5	No	21	0.8484	0.2552	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-9	0.923	0.5264	5	No	21	0.7247	0.3595	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-19	1.057	0.419	5	No	10	0.7382	0.3578	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	1.041	0.3055	5	No	10	0.6733	0.4123	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	0.6843	0.1353	5	No	10	0.4167	0.3701	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	1.202	0.7598	5	No	10	0.9811	0.248	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26D	1.069	0.1051	5	No	10	0.5869	0.5399	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-27D	1.731	0.7838	5	No	10	1.257	0.5305	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-28D	1.512	0.547	5	No	10	1.029	0.5406	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-29	1.003	0.3103	5	No	10	0.6564	0.3879	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5	1.02	0.4979	5	No	10	0.759	0.2927	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	0.872	0.557	5	No	10	0.8099	0.4811	0	None	No	0.011	NP (normality)

Confidence Intervals - All Results

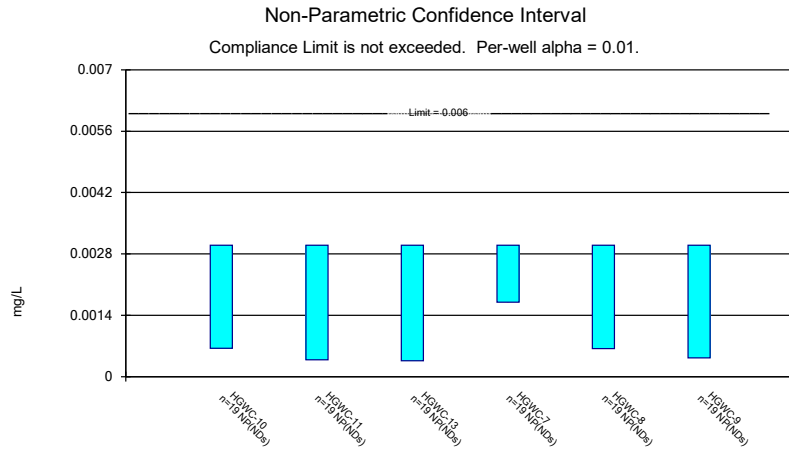
Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:17 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	MW-7	1.242	0.4847	5	No	10	0.8635	0.4245	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-10	0.1935	0.07795	4	No	22	0.1766	0.1375	18.18	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-11	0.4339	0.26	4	No	22	0.347	0.1619	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-12	0.3832	0.1863	4	No	22	0.3151	0.2438	4.545	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-13	0.7044	0.5046	4	No	22	0.6045	0.1861	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-7	0.17	0.083	4	No	23	0.1457	0.112	8.696	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-8	0.6281	0.4776	4	No	23	0.5678	0.1729	0	None	ln(x)	0.01	Param.
Fluoride (mg/L)	HGWC-9	0.2464	0.09575	4	No	22	0.1913	0.1573	9.091	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-19	0.3015	0.09303	4	No	10	0.1992	0.1388	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-20	0.1	0.1	4	No	10	0.0972	0.008854	90	None	No	0.011	NP (NDs)
Fluoride (mg/L)	MW-24D	0.09578	0.04138	4	No	10	0.0868	0.03963	40	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-25D	1.7	1.5	4	No	10	1.64	0.2171	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	MW-26D	0.1115	0.05026	4	No	10	0.0817	0.04186	10	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-27D	0.28	0.24	4	No	10	0.265	0.05662	0	None	No	0.011	NP (normality)
Fluoride (mg/L)	MW-28D	0.2507	0.1533	4	No	10	0.202	0.05453	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-29	0.1	0.07	4	No	10	0.0995	0.03387	70	None	No	0.011	NP (NDs)
Fluoride (mg/L)	MW-5	0.08789	0.05536	4	No	10	0.0773	0.02094	20	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-6	0.19	0.059	4	No	10	0.1025	0.05484	20	None	No	0.011	NP (normality)
Fluoride (mg/L)	MW-7	0.1	0.1	4	No	10	0.1039	0.02519	80	None	No	0.011	NP (NDs)
Lead (mg/L)	HGWC-10	0.005	0.00005	0.015	No	17	0.004709	0.001201	94.12	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-11	0.005	0.00021	0.015	No	17	0.003298	0.002377	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-12	0.005	0.000096	0.015	No	17	0.003573	0.00228	70.59	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-13	0.005	0.00014	0.015	No	17	0.003282	0.002398	64.71	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-7	0.005	0.00009	0.015	No	17	0.002529	0.002419	47.06	None	No	0.01	NP (normality)
Lead (mg/L)	HGWC-8	0.005	0.0002	0.015	No	17	0.003854	0.002129	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-9	0.005	0.00014	0.015	No	17	0.002724	0.002488	52.94	None	No	0.01	NP (NDs)
Lead (mg/L)	MW-19	0.005	0.000038	0.015	No	8	0.002538	0.002632	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-20	0.005	0.000039	0.015	No	8	0.002555	0.002614	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-24D	0.005	0.00004	0.015	No	8	0.001932	0.002541	37.5	None	No	0.004	NP (normality)
Lead (mg/L)	MW-26D	0.005	0.00008	0.015	No	8	0.003772	0.002273	75	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-27D	0.005	0.00013	0.015	No	8	0.00382	0.002186	75	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-28D	0.0007463	0.0001038	0.015	No	8	0.002128	0.002394	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Lead (mg/L)	MW-29	0.005	0.000052	0.015	No	8	0.003156	0.002544	62.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	MW-5	0.005	0.000047	0.015	No	8	0.004381	0.001751	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Lead (mg/L)	MW-6	0.005	0.000036	0.015	No	8	0.002564	0.002605	50	None	No	0.004	NP (normality)
Lead (mg/L)	MW-7	0.005	0.000062	0.015	No	8	0.004383	0.001746	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	HGWC-12	0.01077	0.008283	0.048	No	21	0.009529	0.002258	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-13	0.03752	0.03069	0.048	No	21	0.0341	0.006196	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-7	0.003	0.0021	0.048	No	21	0.003114	0.002766	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-8	0.003	0.0025	0.048	No	21	0.003305	0.002694	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-9	0.0045	0.004	0.048	No	21	0.00471	0.002399	4.762	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-19	0.01337	0.008369	0.048	No	10	0.01087	0.002804	0	None	No	0.01	Param.
Lithium (mg/L)	MW-20	0.015	0.00091	0.048	No	10	0.003912	0.005849	20	None	No	0.011	NP (normality)
Lithium (mg/L)	MW-24D	0.002893	0.002587	0.048	No	10	0.00274	0.0001713	0	None	No	0.01	Param.
Lithium (mg/L)	MW-25D	0.05057	0.04583	0.048	No	10	0.0482	0.002658	0	None	No	0.01	Param.
Lithium (mg/L)	MW-26D	0.0041	0.0033	0.048	No	10	0.00629	0.008336	0	None	No	0.011	NP (normality)
Lithium (mg/L)	MW-27D	0.008926	0.006134	0.048	No	10	0.00753	0.001565	0	None	No	0.01	Param.
Lithium (mg/L)	MW-28D	0.01353	0.006626	0.048	No	10	0.01008	0.003872	0	None	No	0.01	Param.
Lithium (mg/L)	MW-29	0.002388	0.002132	0.048	No	10	0.00226	0.000143	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-10	0.0002	0.00005	0.002	No	13	0.0001885	0.0000416	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-11	0.0002	0.00005	0.002	No	13	0.0001885	0.0000416	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-13	0.0002	0.00005	0.002	No	13	0.0001762	0.00005824	84.62	None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-9	0.0002	0.00004	0.002	No	13	0.0001877	0.00004438	92.31	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-10	0.005	0.0014	0.1	No	21	0.00361	0.00183	61.9	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-11	0.02653	0.01633	0.1	No	21	0.02143	0.009245	0	None	No	0.01	Param.

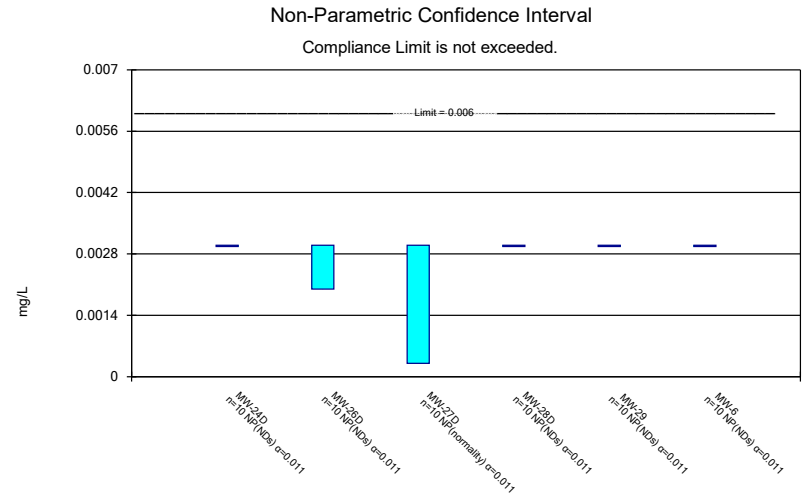
Confidence Intervals - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:17 AM

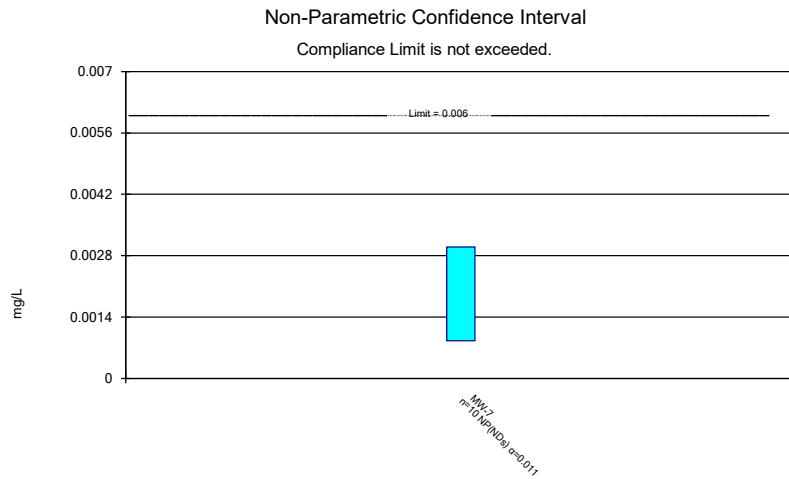
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	HGWC-12	0.04931	0.04537	0.1	No	21	0.04734	0.003573	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-13	0.03557	0.03036	0.1	No	21	0.03297	0.004724	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-7	0.04304	0.03524	0.1	No	22	0.03914	0.007261	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-8	0.4903	0.4416	0.1	Yes	22	0.466	0.04541	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-9	0.034	0.0236	0.1	No	21	0.04941	0.09809	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-19	0.05671	0.02749	0.1	No	10	0.0421	0.01637	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.005	0.0008	0.1	No	10	0.002489	0.002171	40	None	No	0.011	NP (normality)
Molybdenum (mg/L)	MW-25D	0.005	0.0022	0.1	No	10	0.004314	0.001476	80	None	No	0.011	NP (NDs)
Molybdenum (mg/L)	MW-26D	0.0227	0.009659	0.1	No	11	0.01618	0.007828	9.091	None	No	0.01	Param.
Molybdenum (mg/L)	MW-27D	0.004255	0.001265	0.1	No	10	0.00276	0.001676	10	None	No	0.01	Param.
Molybdenum (mg/L)	MW-28D	0.0217	0.008281	0.1	No	10	0.01499	0.007519	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-29	0.003348	0.002352	0.1	No	10	0.00285	0.0005583	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.002621	0.002219	0.1	No	10	0.00242	0.0002251	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-7	0.005	0.0015	0.1	No	10	0.0032	0.001689	40	None	No	0.011	NP (normality)
Selenium (mg/L)	HGWC-10	0.005	0.0031	0.05	No	21	0.004324	0.001187	71.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-11	0.01453	0.006329	0.05	No	21	0.01043	0.007431	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-12	0.005	0.0011	0.05	No	21	0.004814	0.000851	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-13	0.005	0.0016	0.05	No	21	0.004609	0.001256	90.48	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-8	0.005	0.0024	0.05	No	21	0.004876	0.0005674	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-9	0.005	0.0037	0.05	No	21	0.004938	0.0002837	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-19	0.004996	0.002077	0.05	No	10	0.00396	0.001711	20	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	MW-27D	0.005	0.005	0.05	No	10	0.004512	0.001543	90	Kaplan-Meier	No	0.011	NP (NDs)
Selenium (mg/L)	MW-5	0.003618	0.002262	0.05	No	10	0.00294	0.0007604	0	None	No	0.01	Param.
Selenium (mg/L)	MW-7	0.005	0.0014	0.05	No	10	0.00306	0.001708	40	None	No	0.011	NP (normality)
Thallium (mg/L)	HGWC-11	0.001	0.00008	0.002	No	21	0.0009124	0.0002767	90.48	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-12	0.001	0.0001	0.002	No	21	0.000744	0.0004155	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-13	0.0004561	0.0003223	0.002	No	21	0.0004042	0.0001581	4.762	None	ln(x)	0.01	Param.
Thallium (mg/L)	HGWC-8	0.001	0.00009	0.002	No	21	0.0007375	0.0004253	71.43	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-19	0.001	0.00023	0.002	No	10	0.000477	0.000362	30	None	No	0.011	NP (normality)
Thallium (mg/L)	MW-28D	0.001	0.001	0.002	No	10	0.0009092	0.0002871	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	MW-29	0.001	0.001	0.002	No	10	0.0009064	0.000296	90	None	No	0.011	NP (NDs)
Thallium (mg/L)	MW-6	0.001	0.001	0.002	No	10	0.0009082	0.0002903	90	None	No	0.011	NP (NDs)



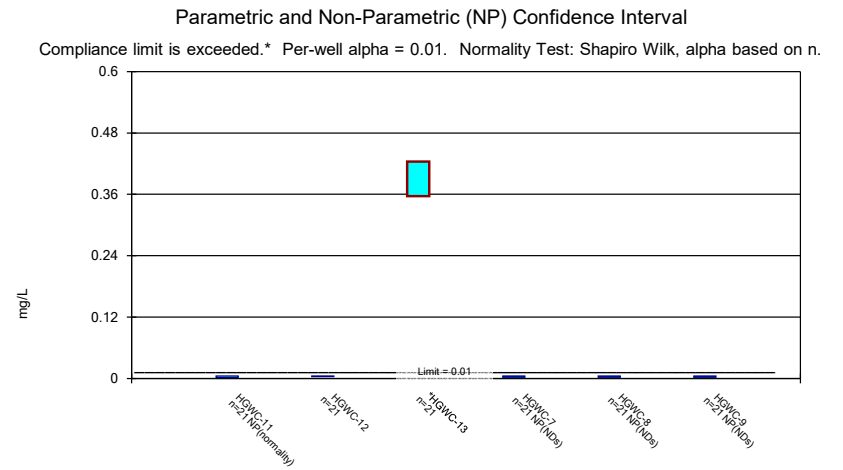
Constituent: Antimony Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Antimony Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

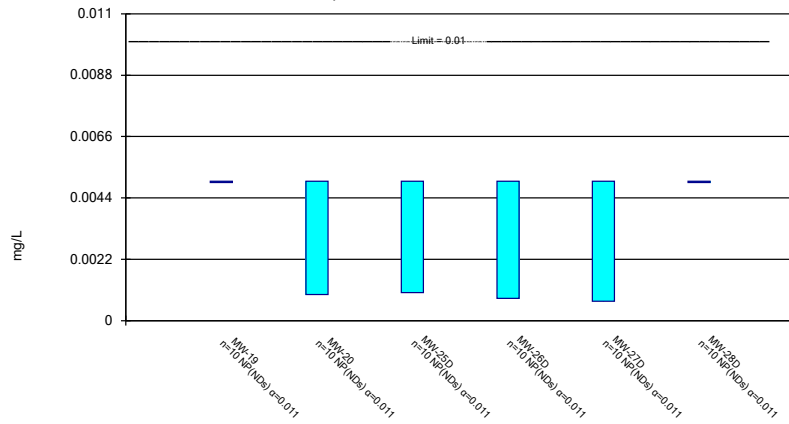


Constituent: Antimony Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1



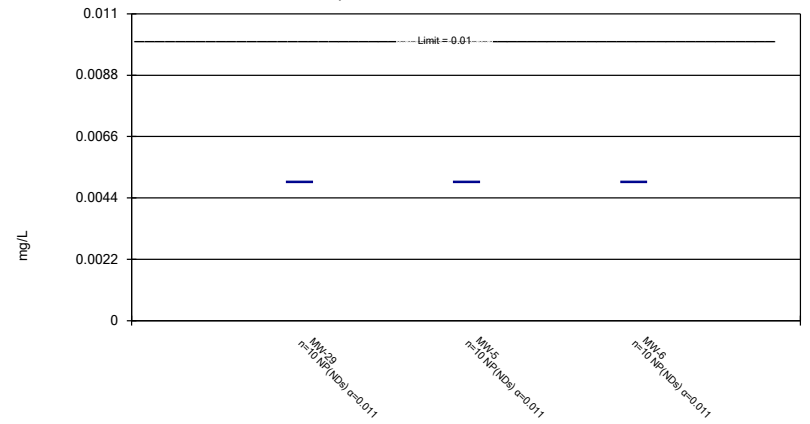
Constituent: Arsenic Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Constituent: Arsenic Analysis Run 4/28/2022 9:14 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

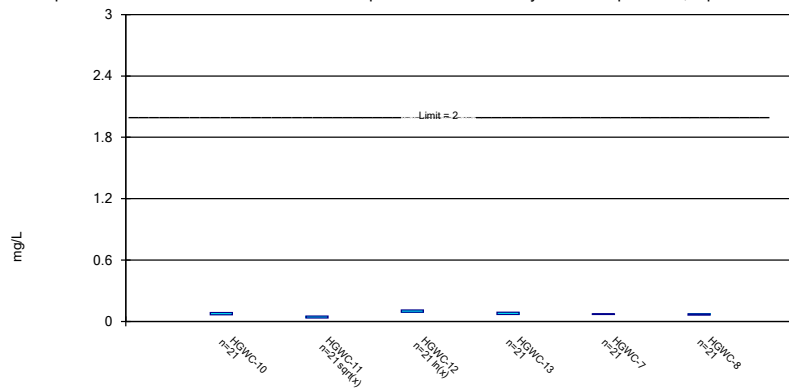
Non-Parametric Confidence Interval
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Constituent: Arsenic Analysis Run 4/28/2022 9:14 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

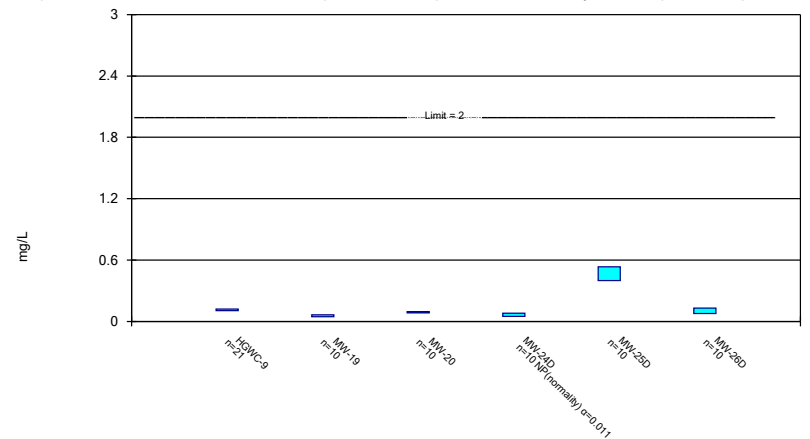
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Constituent: Barium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

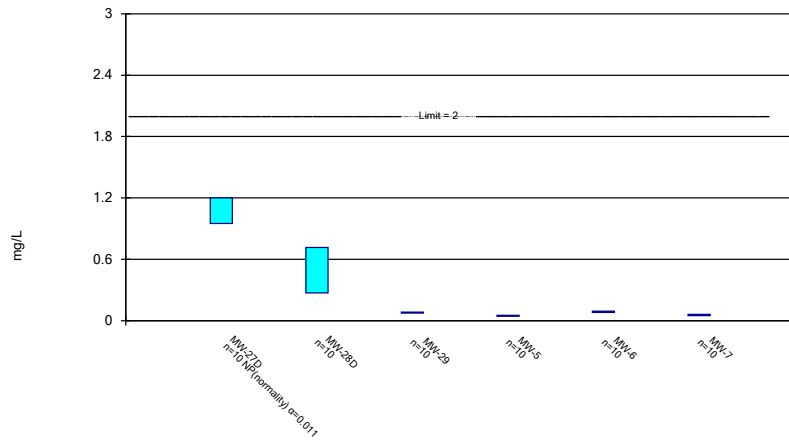
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

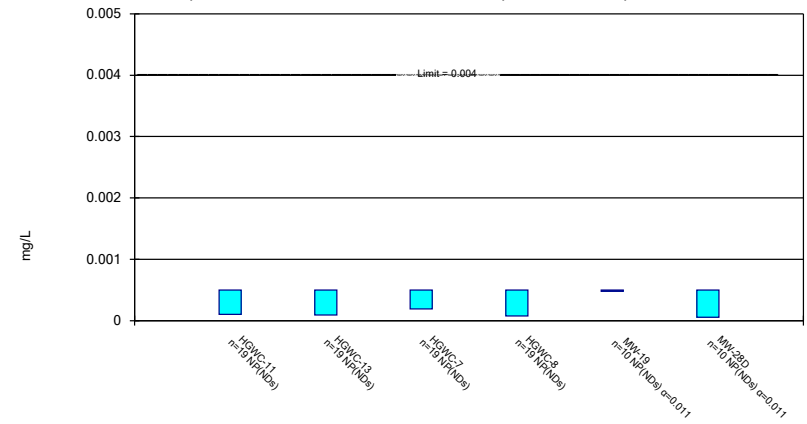
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Constituent: Barium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

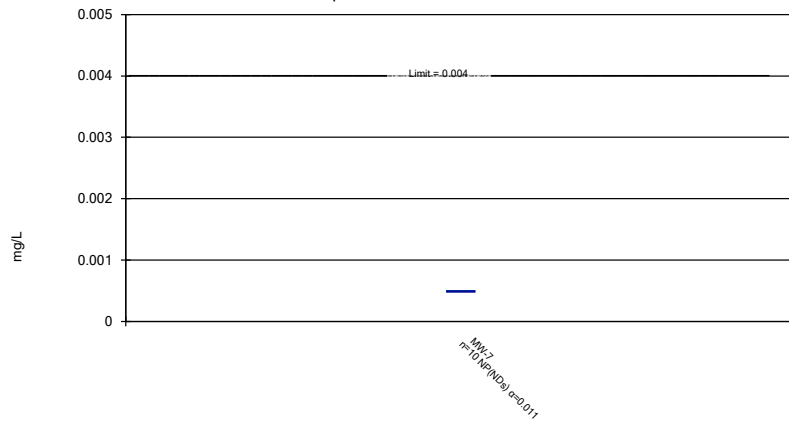
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Constituent: Beryllium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

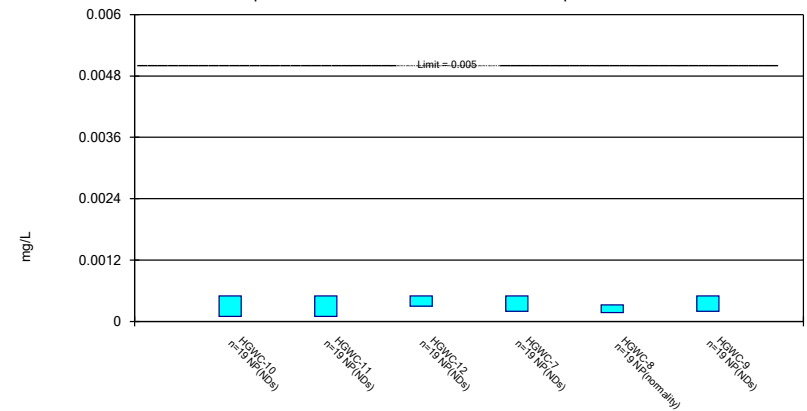
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Constituent: Beryllium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

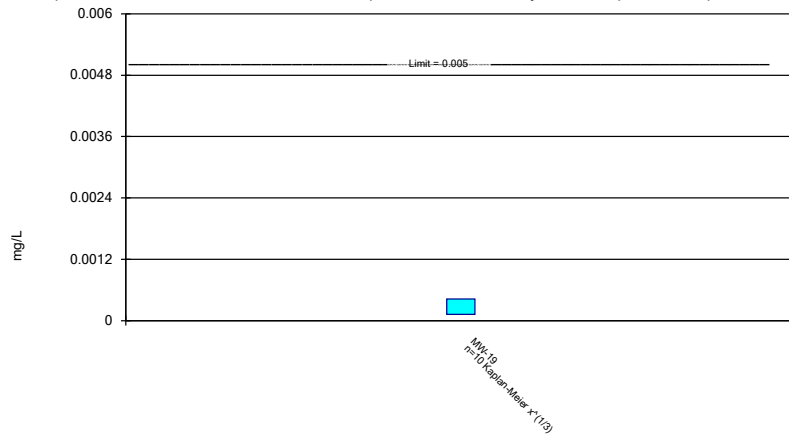
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Constituent: Cadmium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

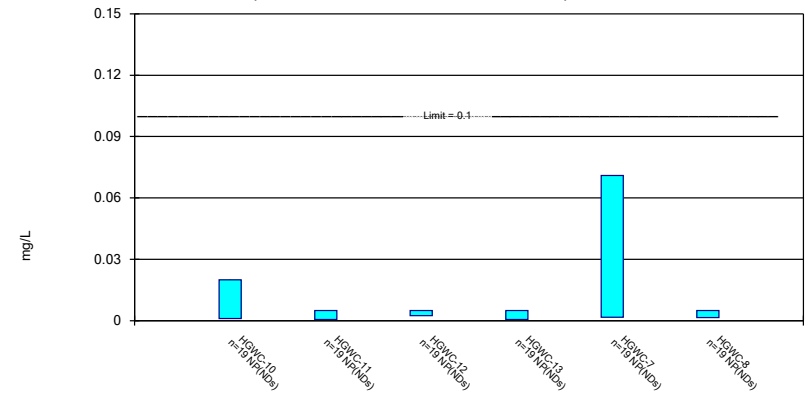
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Constituent: Cadmium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

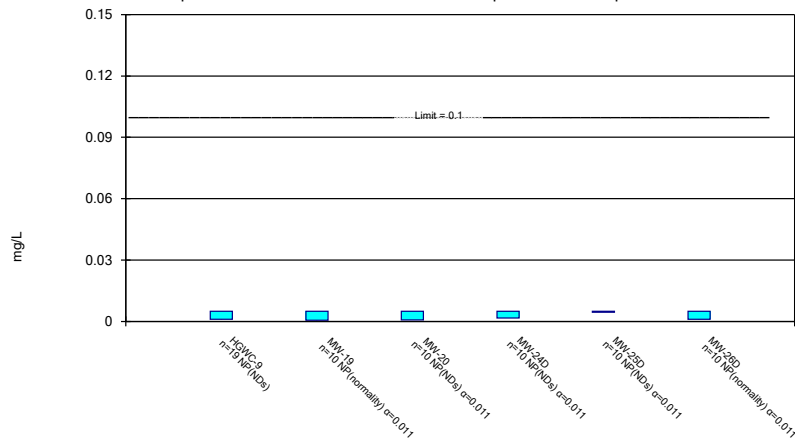
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Constituent: Chromium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

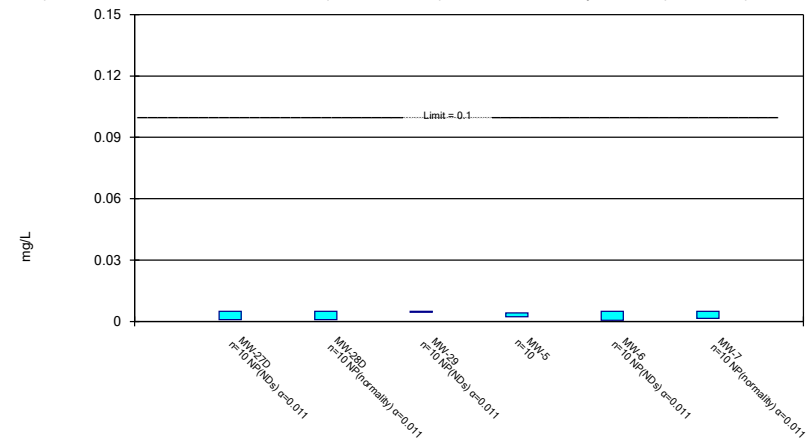
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Constituent: Chromium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

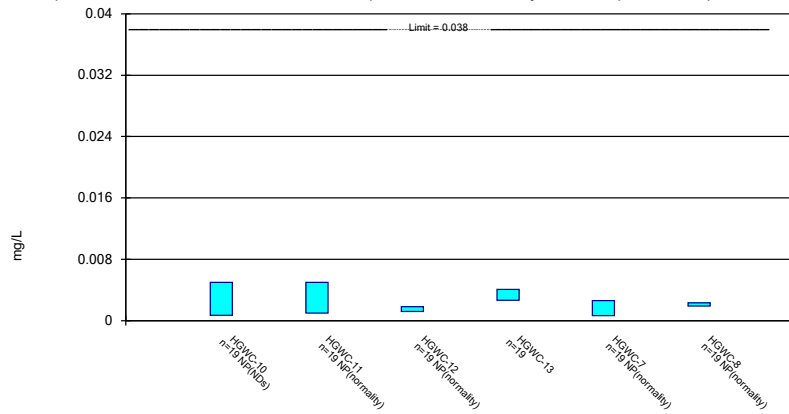
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

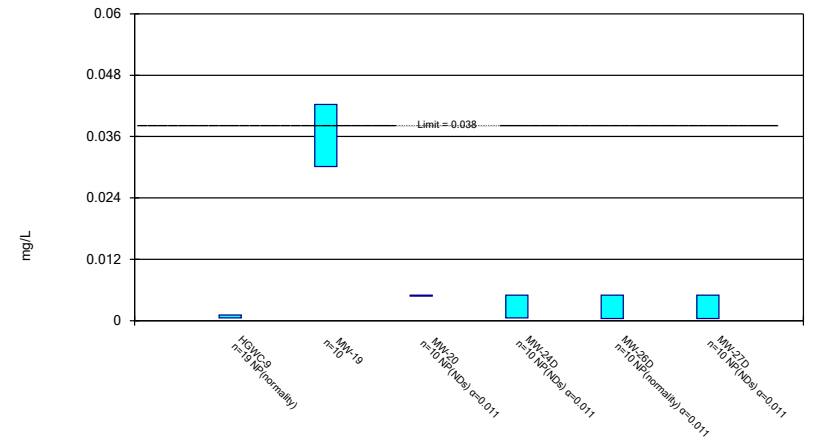
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Constituent: Cobalt Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

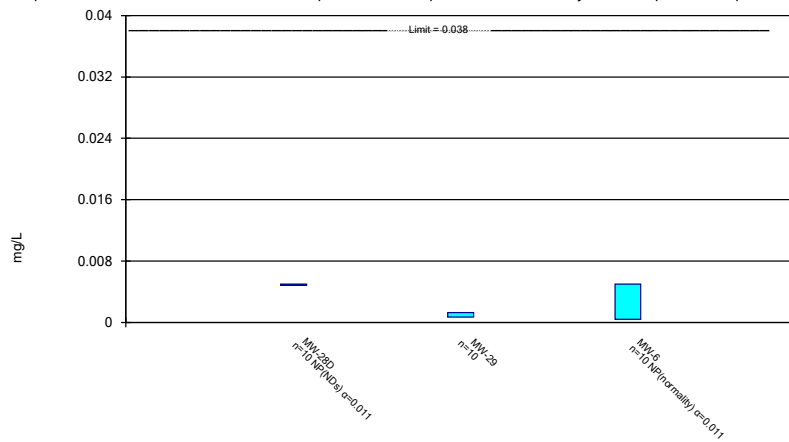
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Constituent: Cobalt Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

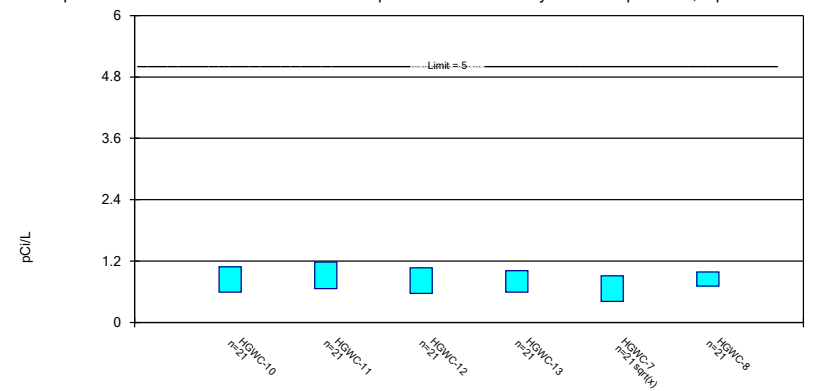
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

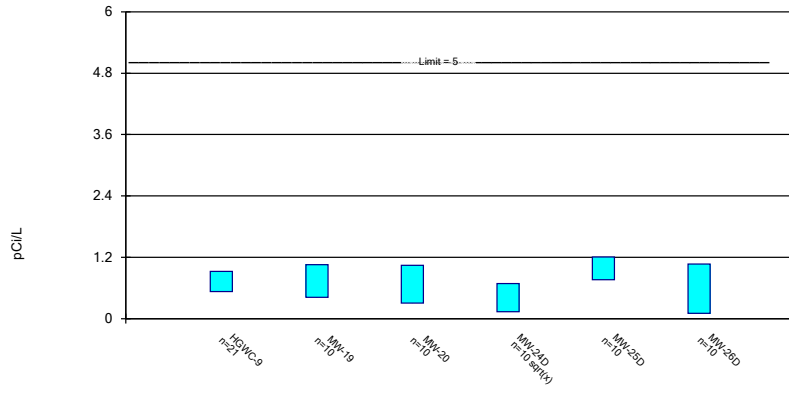
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

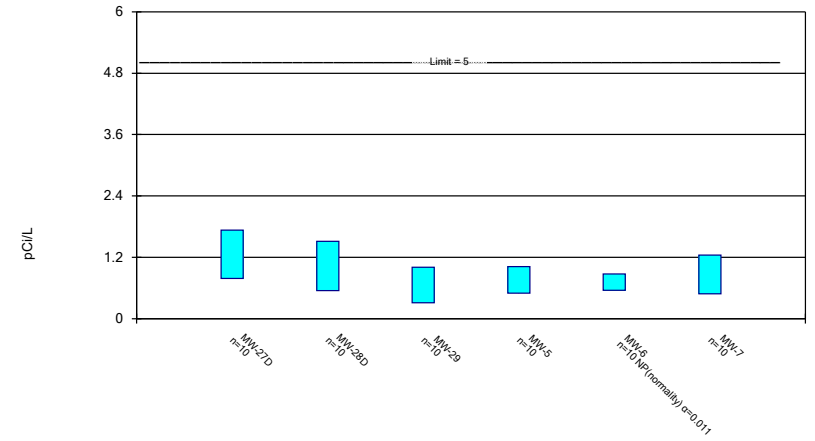
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 9:14 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

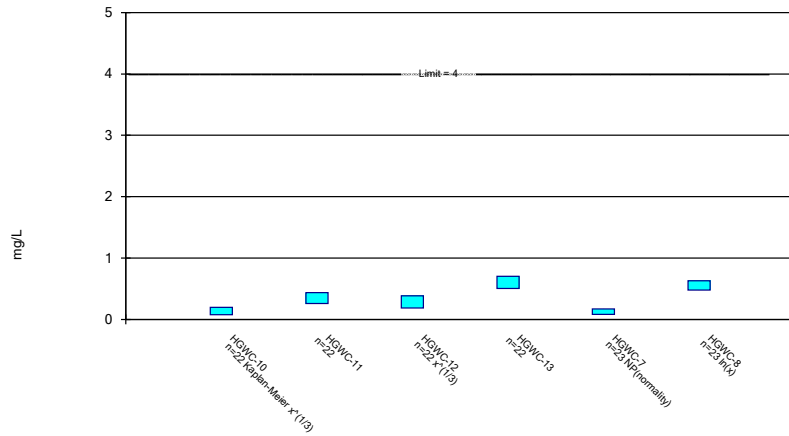
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2022 9:14 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

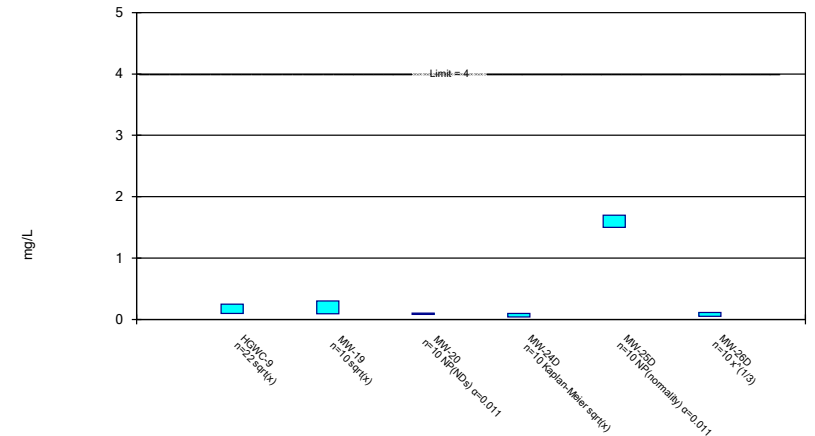
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/28/2022 9:14 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

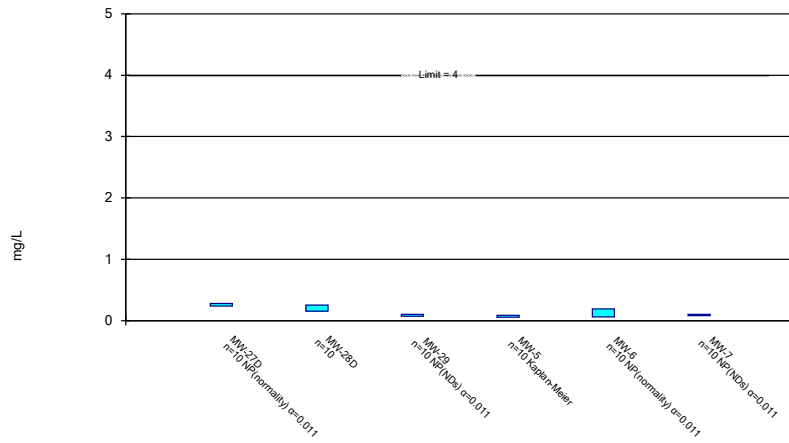
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/28/2022 9:14 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

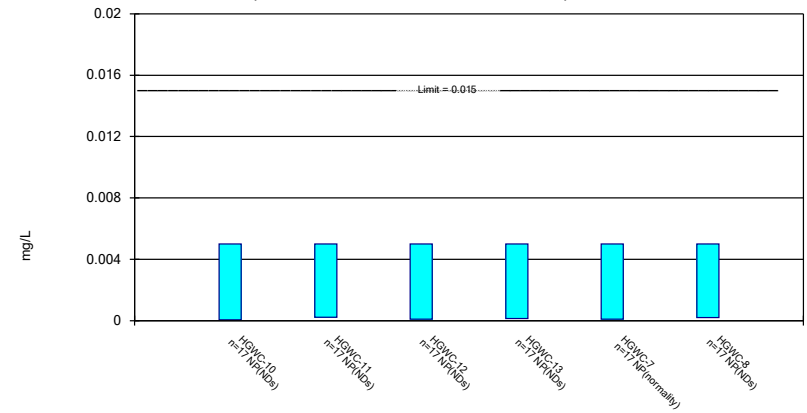
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

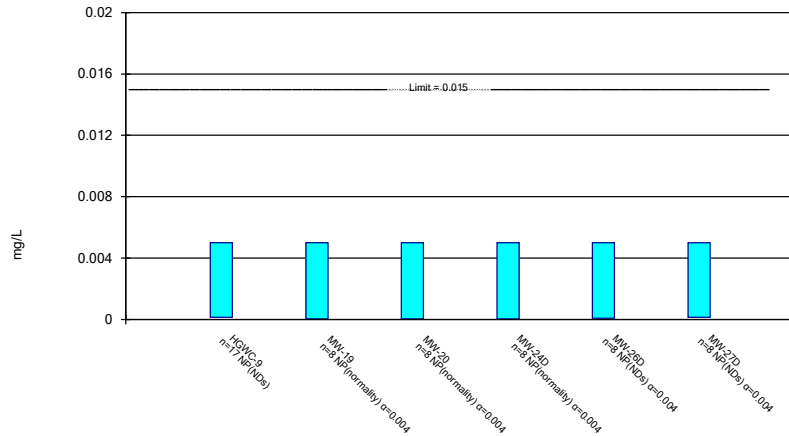
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

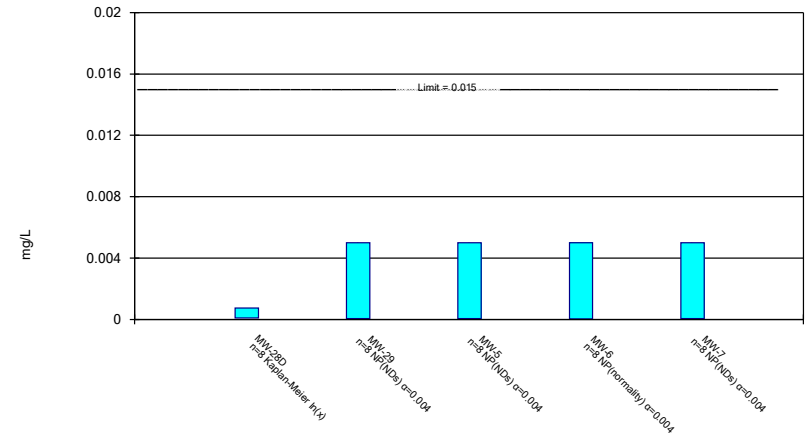
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

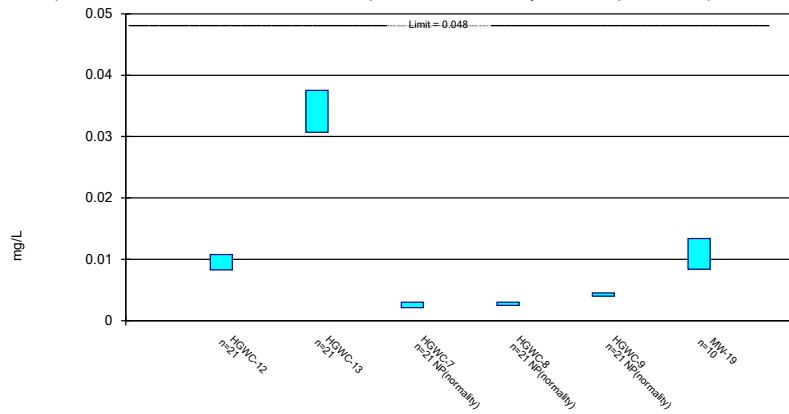
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

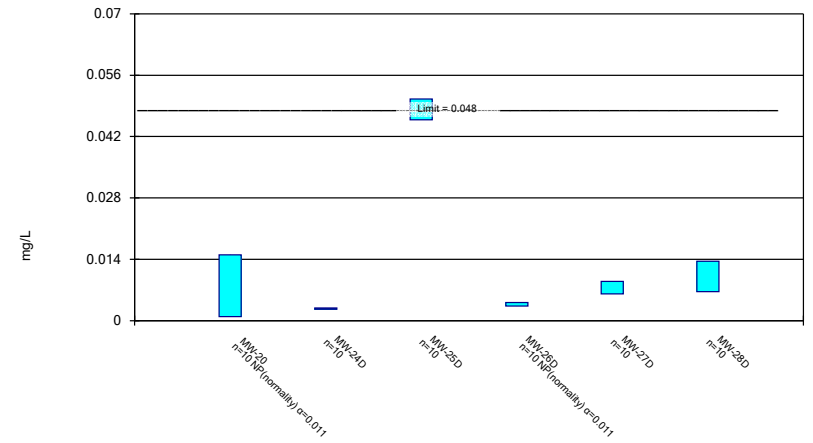
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

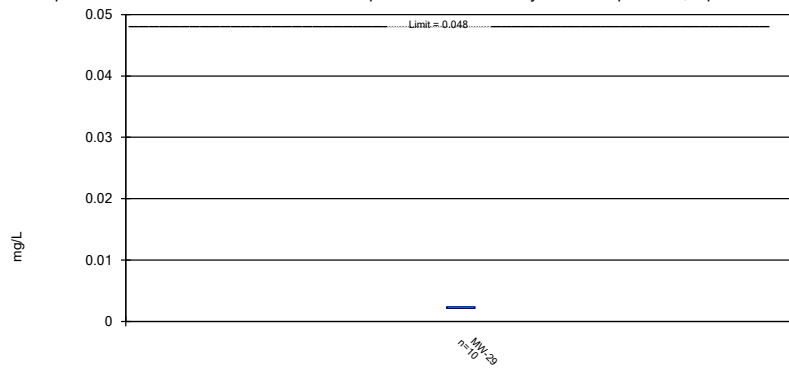
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric Confidence Interval

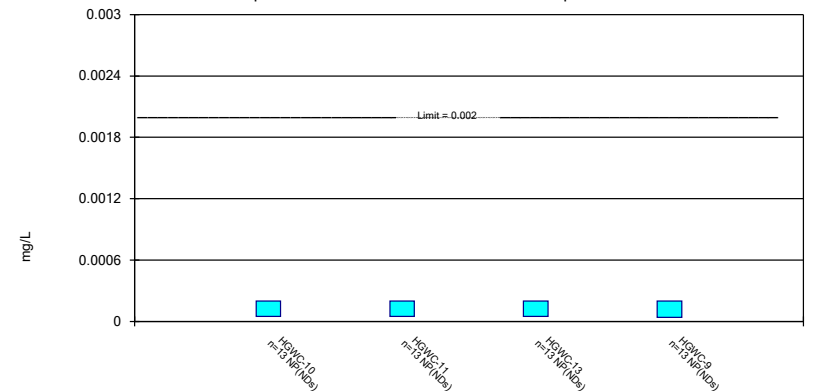
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

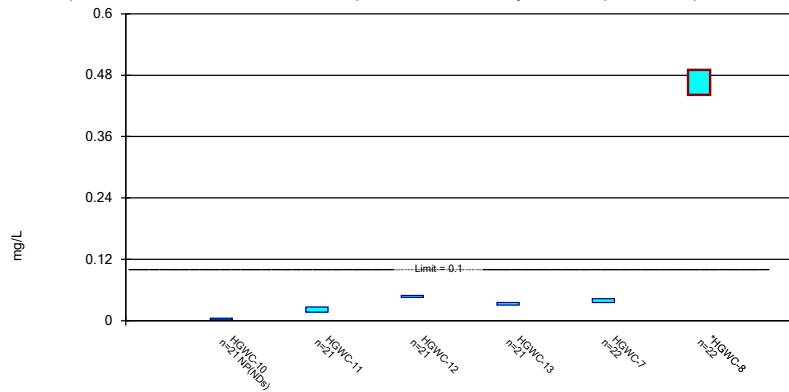
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

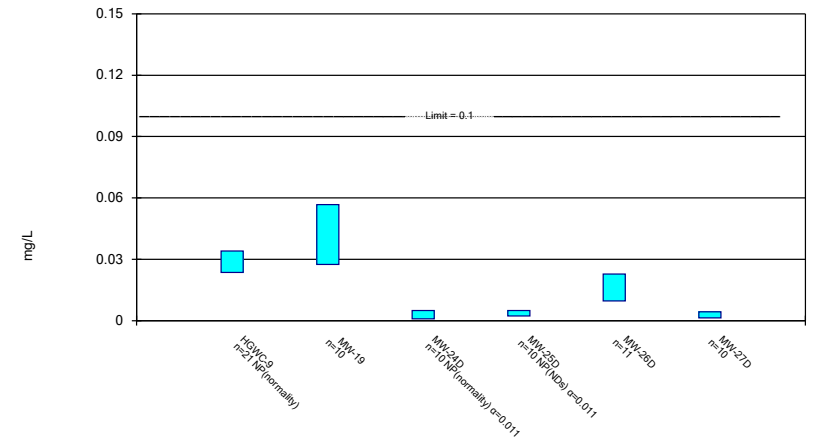
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

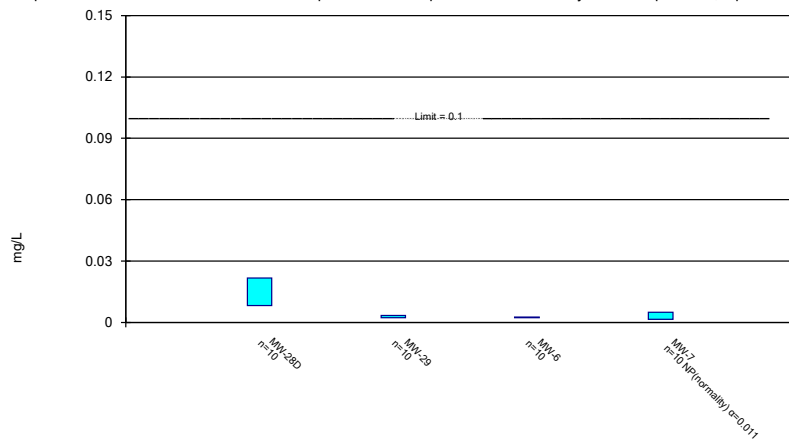
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

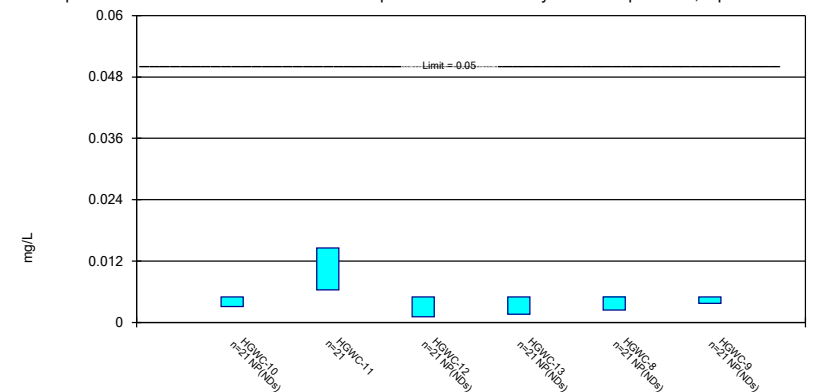
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

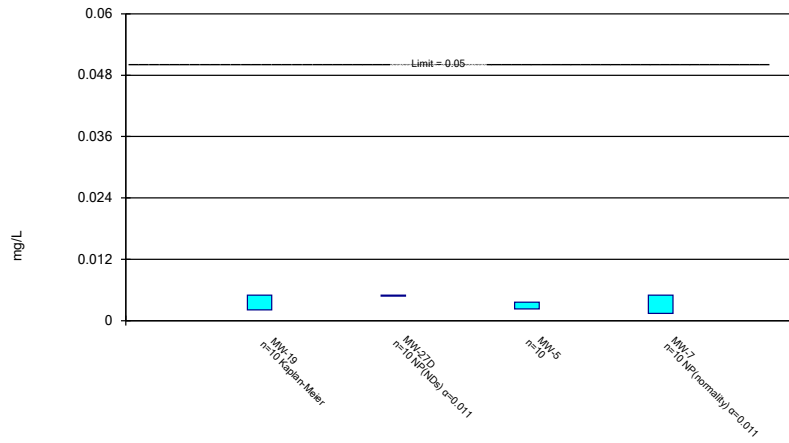
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

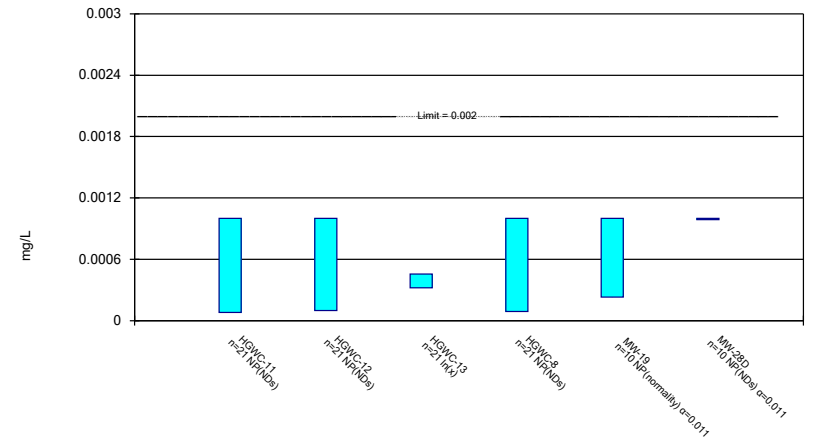
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

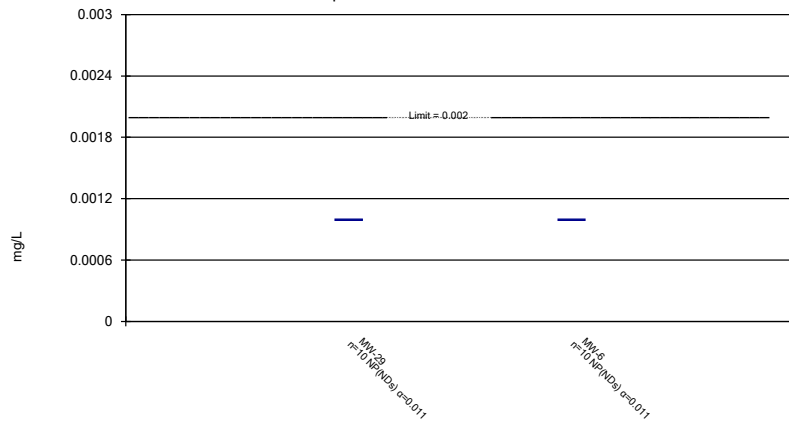
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Thallium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 4/28/2022 9:14 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.003	<0.003	
5/23/2016	<0.003	<0.003	<0.003			<0.003
7/12/2016	<0.003	<0.003	0.0003 (J)	<0.003	<0.003	<0.003
9/1/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/20/2016				<0.003	<0.003	<0.003
10/24/2016	<0.003	<0.003	<0.003			
12/6/2016				<0.003	<0.003	<0.003
12/7/2016	<0.003	<0.003	<0.003			
1/25/2017				<0.003	<0.003	
1/26/2017	<0.003	<0.003	<0.003			<0.003
3/21/2017				<0.003	<0.003	
3/22/2017	<0.003	<0.003	<0.003			<0.003
5/23/2017				<0.003	<0.003	<0.003
5/24/2017	<0.003	<0.003	<0.003			
4/3/2018				<0.003	<0.003	<0.003
4/4/2018	<0.003	<0.003	<0.003			
3/12/2019					<0.003	
3/13/2019	<0.003	<0.003	<0.003	<0.003		<0.003
4/2/2019				<0.003		
4/3/2019	<0.003	<0.003			<0.003	<0.003
4/5/2019			0.00021 (J)			
9/24/2019					<0.003	
9/25/2019				<0.003		
9/26/2019			<0.003			
9/27/2019	<0.003	<0.003				<0.003
3/3/2020	<0.003	<0.003			<0.003	
3/4/2020			0.00061 (J)	<0.003		0.00032 (J)
3/27/2020				<0.003	<0.003	
3/30/2020			0.00036 (J)			
3/31/2020		<0.003				0.00042 (J)
4/1/2020	<0.003					
9/16/2020	<0.003			0.00034 (J)	<0.003	
9/17/2020						<0.003
9/18/2020		0.00038 (J)				
9/21/2020			0.00029 (J)			
2/10/2021				<0.003		
2/12/2021		<0.003				
2/15/2021	0.00065 (J)					
2/16/2021					0.00064 (J)	0.00043 (J)
2/22/2021			0.00047 (J)			
3/12/2021	<0.003					
3/15/2021				<0.003	<0.003	
3/16/2021		<0.003				<0.003
3/17/2021			0.00049 (J)			
8/16/2021				0.0017 (J)		
8/17/2021	<0.003					<0.003
8/18/2021		<0.003			<0.003	
8/19/2021			<0.003			
2/9/2022	<0.003	<0.003				<0.003
2/10/2022			<0.003	<0.003	<0.003	
Mean	0.002876	0.002862	0.002038	0.002792	0.002876	0.002588
Std. Dev.	0.0005391	0.0006011	0.001296	0.0006642	0.0005414	0.000978

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-13	HGWC-7	HGWC-8	HGWC-9
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.00065	0.00038	0.00036	0.0017	0.00064	0.00043

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-24D	MW-26D	MW-27D	MW-28D	MW-29	MW-6
3/12/2019				<0.003	<0.003	
3/13/2019	<0.003	<0.003	<0.003			<0.003
4/2/2019				<0.003	<0.003	
4/3/2019		<0.003				<0.003
4/4/2019			0.00016 (J)			
4/8/2019	<0.003					
9/24/2019					<0.003	
9/26/2019	<0.003	<0.003	0.0003 (J)	<0.003		<0.003
3/2/2020					<0.003	
3/3/2020						<0.003
3/4/2020	0.0017 (J)	0.002 (J)	0.00037 (J)	<0.003		
3/27/2020				<0.003		<0.003
3/30/2020	<0.003				<0.003	
3/31/2020		0.0013 (J)				
4/2/2020			0.0003 (J)			
9/16/2020					<0.003	
9/17/2020		<0.003				
9/18/2020			0.00031 (J)			
9/21/2020	<0.003			<0.003		0.0014 (J)
2/10/2021				0.0019 (J)		
2/15/2021					0.00094 (J)	
2/16/2021	<0.003	<0.003	0.00038 (J)			<0.003
3/12/2021			<0.003			
3/15/2021				<0.003	<0.003	
3/16/2021						<0.003
3/17/2021	<0.003	<0.003				
8/16/2021					<0.003	
8/17/2021		<0.003	<0.003			<0.003
8/18/2021				<0.003		
8/19/2021	<0.003					
2/9/2022		<0.003				<0.003
2/10/2022	<0.003		<0.003	<0.003	<0.003	
Mean	0.00287	0.00273	0.001382	0.00289	0.002794	0.00284
Std. Dev.	0.0004111	0.0005926	0.001394	0.0003479	0.0006514	0.000506
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.003	0.002	0.0003	0.003	0.003	0.003

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-7
3/13/2019	0.00086 (J)
4/3/2019	<0.003
9/26/2019	<0.003
3/3/2020	0.0013 (J)
3/30/2020	<0.003
9/21/2020	0.00051 (J)
2/15/2021	0.0021 (J)
3/15/2021	<0.003
8/17/2021	<0.003
2/8/2022	<0.003
Mean	0.002277
Std. Dev.	0.001014
Upper Lim.	0.003
Lower Lim.	0.00086

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	<0.005	
5/23/2016	<0.005	0.0046 (J)	0.329			<0.005
7/12/2016	0.0015 (J)	0.005	0.297	<0.005	<0.005	<0.005
9/1/2016	<0.005	0.0043 (J)	0.314	<0.005	<0.005	<0.005
10/20/2016				<0.005	<0.005	<0.005
10/24/2016	<0.005	0.0049 (J)	0.334			
12/6/2016				<0.005	<0.005	<0.005
12/7/2016	<0.005	0.0046 (J)	0.35			
1/25/2017				<0.005	<0.005	
1/26/2017	<0.005	<0.005	0.424			<0.005
3/21/2017				<0.005	<0.005	
3/22/2017	0.0053	0.0019 (J)	0.419			0.0008 (J)
5/23/2017				<0.005	<0.005	<0.005
5/24/2017	<0.005	0.0022 (J)	0.393			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	0.49			
6/5/2018	0.0012 (J)		0.38	<0.005		
6/6/2018		0.0048 (J)			<0.005	<0.005
10/2/2018				0.0019 (J)	<0.005	<0.005
10/3/2018	<0.005	0.0037 (J)				
10/5/2018			0.34			
3/12/2019					<0.005	
3/13/2019	0.0024 (J)		0.42	<0.005		0.00075 (J)
3/14/2019		0.0026 (J)				
4/2/2019				<0.005		
4/3/2019	0.00094 (J)	0.0022 (J)			<0.005	<0.005
4/5/2019			0.36			
9/24/2019					<0.005	
9/25/2019				<0.005		
9/26/2019			0.44			
9/27/2019	0.0018 (J)	0.0061				0.00037 (J)
3/3/2020	0.0022 (J)	0.0023 (J)			<0.005	
3/4/2020			0.52	<0.005		<0.005
3/26/2020		0.0028 (J)				
3/27/2020				<0.005	<0.005	
3/30/2020			0.47			
3/31/2020	0.0022 (J)					<0.005
9/16/2020				<0.005	<0.005	
9/17/2020						<0.005
9/18/2020	0.00081 (J)	0.0031 (J)				
9/21/2020			0.39			
2/10/2021				<0.005		
2/12/2021	0.002 (J)	0.0045 (J)				
2/16/2021					<0.005	<0.005
2/22/2021			0.45			
3/15/2021				<0.005	<0.005	
3/16/2021	0.0017 (J)	0.0038 (J)				<0.005
3/17/2021			0.39			
8/16/2021				<0.005		
8/17/2021						<0.005
8/18/2021	<0.005	0.0028 (J)			<0.005	
8/19/2021			0.31			

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.0047 (J)	0.0053				0.0021 (J)
2/10/2022			0.38	<0.005	0.002 (J)	
Mean	0.003417	0.003881	0.3905	0.004852	0.004857	0.004239
Std. Dev.	0.001744	0.001242	0.06131	0.0006765	0.0006547	0.001634
Upper Lim.	0.005	0.004566	0.4243	0.005	0.005	0.005
Lower Lim.	0.0017	0.003196	0.3567	0.0019	0.002	0.0021

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-20	MW-25D	MW-26D	MW-27D	MW-28D
3/12/2019						<0.005
3/13/2019		0.0023 (J)		<0.005	<0.005	
3/14/2019	<0.005		0.0019 (J)			
4/2/2019		<0.005				<0.005
4/3/2019	<0.005		<0.005	<0.005		
4/4/2019					0.0002 (J)	
9/25/2019		<0.005				
9/26/2019				<0.005	<0.005	<0.005
9/27/2019	<0.005		0.0011 (J)			
3/2/2020		0.00038 (J)				
3/3/2020			0.001 (J)			
3/4/2020	0.00045 (J)			0.0006 (J)	0.00069 (J)	<0.005
3/26/2020	<0.005		0.00075 (J)			
3/27/2020		<0.005				<0.005
3/31/2020				<0.005		
4/2/2020					<0.005	
9/17/2020		<0.005		<0.005		
9/18/2020			<0.005		<0.005	
9/21/2020	<0.005					<0.005
2/10/2021						0.0011 (J)
2/11/2021		0.00094 (J)				
2/12/2021	<0.005		<0.005			
2/16/2021				0.0008 (J)	0.001 (J)	
3/12/2021					<0.005	
3/15/2021		<0.005				<0.005
3/16/2021			<0.005			
3/17/2021	<0.005			<0.005		
8/17/2021		<0.005		<0.005	<0.005	
8/18/2021	<0.005					<0.005
8/19/2021			<0.005			
2/9/2022	<0.005		<0.005	0.0017 (J)		
2/10/2022		<0.005			<0.005	<0.005
Mean	0.004545	0.003862	0.003475	0.00381	0.003689	0.00461
Std. Dev.	0.001439	0.001891	0.00199	0.001936	0.002119	0.001233
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.005	0.00094	0.001	0.0008	0.00069	0.005

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-29	MW-5	MW-6
3/12/2019	<0.005		
3/13/2019		<0.005	<0.005
4/2/2019	<0.005		
4/3/2019		<0.005	<0.005
9/24/2019	<0.005		
9/25/2019		<0.005	
9/26/2019			<0.005
3/2/2020	<0.005	<0.005	
3/3/2020			<0.005
3/26/2020		<0.005	
3/27/2020			<0.005
3/30/2020	0.00037 (J)		
9/16/2020	<0.005		
9/17/2020		<0.005	
9/21/2020			<0.005
2/15/2021	<0.005		
2/16/2021		<0.005	<0.005
3/15/2021	<0.005		
3/16/2021		<0.005	<0.005
8/16/2021	<0.005		
8/17/2021		<0.005	<0.005
2/9/2022		0.0013 (J)	0.0034 (J)
2/10/2022	<0.005		
Mean	0.004537	0.00463	0.00484
Std. Dev.	0.001464	0.00117	0.000506
Upper Lim.	0.005	0.005	0.005
Lower Lim.	0.005	0.005	0.005

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					0.0687	0.0808
5/23/2016	0.0877	0.0466	0.133	0.0779		
7/12/2016	0.0926	0.0616	0.135	0.0697	0.0731	0.083
9/1/2016	0.0994	0.0497	0.123	0.07	0.0747	0.0829
10/20/2016					0.072	0.0811
10/24/2016	0.101	0.0794	0.135	0.0882		
12/6/2016					0.0752	0.0845
12/7/2016	0.107	0.1	0.13	0.0798		
1/25/2017					0.0747	0.078
1/26/2017	0.0538	0.0696	0.127	0.0738		
3/21/2017					0.0722	0.0791
3/22/2017	0.0962	0.0346	0.112	0.0755		
5/23/2017					0.0794	0.0846
5/24/2017	0.0996	0.0437	0.106	0.0627		
4/3/2018					0.075	0.065
4/4/2018	0.084	0.029	0.083	0.099		
6/5/2018	0.086	0.039		0.13	0.071	
6/6/2018			0.09			0.063
10/2/2018	0.076				0.078	0.061
10/3/2018		0.033	0.087			
10/5/2018				0.076		
3/12/2019						0.062
3/13/2019	0.044	0.024		0.1	0.083	
3/14/2019			0.081			
4/2/2019					0.072	
4/3/2019	0.076	0.023	0.077			0.066
4/5/2019				0.079		
9/24/2019						0.053
9/25/2019					0.061	
9/26/2019				0.11		
9/27/2019	0.078	0.033	0.096			
3/3/2020	0.048	0.022	0.092			0.052
3/4/2020				0.1	0.068	
3/26/2020			0.089			
3/27/2020					0.059	0.059
3/30/2020				0.08		
3/31/2020		0.026				
4/1/2020	0.058					
9/16/2020	0.068				0.068	0.06
9/18/2020		0.043	0.086			
9/21/2020				0.052		
2/10/2021					0.069	
2/12/2021		0.039	0.09			
2/15/2021	0.06					
2/16/2021						0.069
2/22/2021				0.061		
3/12/2021	0.058					
3/15/2021					0.074	0.063
3/16/2021		0.035	0.084			
3/17/2021				0.056		
8/16/2021					0.068	
8/17/2021	0.055					

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/18/2021		0.04	0.083			0.062
8/19/2021				0.049		
2/9/2022	0.042	0.042	0.075			
2/10/2022				0.053	0.063	0.056
Mean	0.07478	0.04349	0.1007	0.07822	0.07138	0.06881
Std. Dev.	0.02063	0.01968	0.02119	0.02069	0.005842	0.01117
Upper Lim.	0.08616	0.05204	0.1104	0.08963	0.0746	0.07497
Lower Lim.	0.06339	0.03249	0.08821	0.06681	0.06816	0.06265

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	0.117					
7/12/2016	0.13					
9/1/2016	0.13					
10/20/2016	0.0806					
12/6/2016	0.128					
1/26/2017	0.142					
3/22/2017	0.122					
5/23/2017	0.127					
4/3/2018	0.1					
6/6/2018	0.11					
10/2/2018	0.11					
3/13/2019	0.1		0.087	0.053		0.099
3/14/2019		0.06			0.44	
4/2/2019			0.08			
4/3/2019	0.12	0.05			0.38	0.12
4/8/2019				0.043		
9/25/2019			0.085			
9/26/2019				0.12		0.12
9/27/2019	0.11	0.068			0.39	
3/2/2020			0.099			
3/3/2020					0.42	
3/4/2020	0.11	0.069		0.081		0.17
3/26/2020		0.067			0.45	
3/27/2020			0.093			
3/30/2020				0.056		
3/31/2020	0.11					0.11
9/17/2020	0.11		0.096			0.099
9/18/2020					0.44	
9/21/2020		0.056		0.053		
2/11/2021			0.093			
2/12/2021		0.051			0.46	
2/16/2021	0.11			0.062		0.093
3/15/2021			0.096			
3/16/2021	0.11				0.51	
3/17/2021		0.049		0.055		0.094
8/17/2021	0.095		0.089			0.072
8/18/2021		0.045				
8/19/2021				0.048	0.58	
2/9/2022	0.096	0.042			0.6	0.066
2/10/2022			0.082	0.048		
Mean	0.1127	0.0557	0.09	0.0619	0.467	0.1043
Std. Dev.	0.01424	0.009866	0.006412	0.02291	0.07439	0.02914
Upper Lim.	0.1206	0.0645	0.09572	0.081	0.5334	0.1303
Lower Lim.	0.1049	0.0469	0.08428	0.048	0.4006	0.0783

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		0.82	0.089			
3/13/2019	1.5			0.056	0.1	0.063
4/2/2019		0.37	0.078			
4/3/2019				0.049	0.09	0.058
4/4/2019	1.2					
9/24/2019			0.081			
9/25/2019				0.046		
9/26/2019	0.95	0.15			0.089	0.066
3/2/2020			0.088	0.049		
3/3/2020					0.09	0.043
3/4/2020	0.95	0.77				
3/26/2020				0.046		
3/27/2020		0.64			0.086	
3/30/2020			0.08			0.05
4/2/2020	1					
9/16/2020			0.076			
9/17/2020				0.043		
9/18/2020	1					
9/21/2020		0.18			0.083	0.065
2/10/2021		0.26				
2/15/2021			0.081			0.048
2/16/2021	1			0.05	0.085	
3/12/2021	1.1					
3/15/2021		0.45	0.078			0.053
3/16/2021				0.046	0.081	
8/16/2021			0.074			
8/17/2021	1.1			0.045	0.081	0.057
8/18/2021		0.53				
2/8/2022						0.053
2/9/2022				0.042	0.074	
2/10/2022	0.99	0.76	0.072			
Mean	1.079	0.493	0.0797	0.0472	0.0859	0.0556
Std. Dev.	0.1676	0.2505	0.005478	0.004022	0.006999	0.007604
Upper Lim.	1.2	0.7165	0.08459	0.05079	0.09214	0.06238
Lower Lim.	0.95	0.2695	0.07481	0.04361	0.07966	0.04882

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-13	HGWC-7	HGWC-8	MW-19	MW-28D
5/20/2016			<0.0005	<0.0005		
5/23/2016	<0.0005	<0.0005				
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005		
9/1/2016	<0.0005	<0.0005	<0.0005	<0.0005		
10/20/2016			<0.0005	<0.0005		
10/24/2016	<0.0005	<0.0005				
12/6/2016			<0.0005	<0.0005		
12/7/2016	<0.0005	<0.0005				
1/25/2017			<0.0005	<0.0005		
1/26/2017	<0.0005	<0.0005				
3/21/2017			<0.0005	<0.0005		
3/22/2017	9E-05 (J)	<0.0005				
5/23/2017			<0.0005	<0.0005		
5/24/2017	<0.0005	<0.0005				
4/3/2018			<0.0005	<0.0005		
4/4/2018	<0.0005	<0.0005				
3/12/2019				<0.0005		<0.0005
3/13/2019	0.0001 (J)	6.2E-05 (J)	<0.0005			
3/14/2019					<0.0005	
4/2/2019			<0.0005			<0.0005
4/3/2019	0.00017 (J)			7.4E-05 (J)	<0.0005	
4/5/2019		<0.0005				
9/24/2019				<0.0005		
9/25/2019			<0.0005			
9/26/2019		0.00011 (J)				<0.0005
9/27/2019	8.6E-05 (J)				<0.0005	
3/3/2020	0.00012 (J)			<0.0005		
3/4/2020		9.3E-05 (J)	7.7E-05 (J)		<0.0005	0.00014 (J)
3/26/2020					<0.0005	
3/27/2020			<0.0005	<0.0005		<0.0005
3/30/2020		9.9E-05 (J)				
3/31/2020	0.00015 (J)					
9/16/2020			<0.0005	0.0001 (J)		
9/18/2020	<0.0005					
9/21/2020		0.00011 (J)			<0.0005	<0.0005
2/10/2021			8.1E-05 (J)			5.4E-05 (J)
2/12/2021	<0.0005				<0.0005	
2/16/2021				7.1E-05 (J)		
2/22/2021		9.7E-05 (J)				
3/15/2021			0.00019 (J)	7.8E-05 (J)		4.8E-05 (J)
3/16/2021	8.1E-05 (J)					
3/17/2021		9E-05 (J)			<0.0005	
8/16/2021			<0.0005			
8/18/2021	<0.0005			8.7E-05 (J)	5.8E-05 (J)	<0.0005
8/19/2021		7.3E-05 (J)				
2/9/2022	<0.0005				<0.0005	
2/10/2022		<0.0005	<0.0005	7.1E-05 (J)		<0.0005
Mean	0.0003577	0.0003281	0.0004394	0.0003674	0.0004558	0.0003742
Std. Dev.	0.0001924	0.0002074	0.0001454	0.0002006	0.0001398	0.000204
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.0001	9.3E-05	0.00019	7.8E-05	0.0005	5.4E-05

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-7
3/13/2019	<0.0005
4/3/2019	5.1E-05 (J)
9/26/2019	<0.0005
3/3/2020	<0.0005
3/30/2020	<0.0005
9/21/2020	<0.0005
2/15/2021	<0.0005
3/15/2021	<0.0005
8/17/2021	<0.0005
2/8/2022	<0.0005
Mean	0.0004551
Std. Dev.	0.000142
Upper Lim.	0.0005
Lower Lim.	0.0005

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0005	0.00024 (J)	
5/23/2016	0.000115 (J)	<0.0005	<0.0005			<0.0005
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005	0.0002 (J)	<0.0005
9/1/2016	0.0001 (J)	<0.0005	<0.0005	<0.0005	0.0001 (J)	<0.0005
10/20/2016				<0.0005	0.0001 (J)	0.0002 (J)
10/24/2016	0.0001 (J)	<0.0005	<0.0005			
12/6/2016				0.0002 (J)	0.0017	0.0001 (J)
12/7/2016	0.0001 (J)	0.0001 (J)	0.0002 (J)			
1/25/2017				0.0002 (J)	0.0002 (J)	
1/26/2017	<0.0005	<0.0005	<0.0005			<0.0005
3/21/2017				0.0002 (J)	0.0002 (J)	
3/22/2017	0.0001 (J)	0.0001 (J)	0.0003 (J)			7E-05 (J)
5/23/2017				0.0001 (J)	0.0003 (J)	<0.0005
5/24/2017	0.0002 (J)	<0.0005	9E-05 (J)			
4/3/2018				<0.0005	<0.0005	<0.0005
4/4/2018	<0.0005	<0.0005	<0.0005			
3/12/2019					0.0002 (J)	
3/13/2019	<0.0005	<0.0005		<0.0005		<0.0005
3/14/2019			<0.0005			
4/2/2019				<0.0005		
4/3/2019	0.0001 (J)	9.6E-05 (J)	<0.0005		0.00032 (J)	<0.0005
9/24/2019					0.0002 (J)	
9/25/2019				<0.0005		
9/27/2019	<0.0005	<0.0005	<0.0005			<0.0005
3/3/2020	<0.0005	<0.0005	0.00015 (J)		0.00017 (J)	
3/4/2020				<0.0005		<0.0005
3/26/2020			<0.0005			
3/27/2020				<0.0005	0.00014 (J)	
3/31/2020		<0.0005				<0.0005
4/1/2020	<0.0005					
9/16/2020	<0.0005			<0.0005	0.00023 (J)	
9/17/2020						<0.0005
9/18/2020		<0.0005	<0.0005			
2/10/2021				<0.0005		
2/12/2021		<0.0005	<0.0005			
2/15/2021	<0.0005					
2/16/2021					0.00037 (J)	<0.0005
3/12/2021	<0.0005					
3/15/2021				<0.0005	0.00017 (J)	
3/16/2021		<0.0005	<0.0005			<0.0005
8/16/2021				<0.0005		
8/17/2021	<0.0005					<0.0005
8/18/2021		<0.0005	<0.0005		0.0002 (J)	
2/9/2022	<0.0005	<0.0005	<0.0005			<0.0005
2/10/2022				<0.0005	0.00029 (J)	
Mean	0.0003587	0.0004366	0.0004337	0.0004316	0.0003068	0.0004405
Std. Dev.	0.0001913	0.0001504	0.0001368	0.0001376	0.0003506	0.0001429
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.00032	0.0005
Lower Lim.	0.0001	0.0001	0.0003	0.0002	0.00017	0.0002

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19
3/14/2019	<0.0005
4/3/2019	<0.0005
9/27/2019	0.00013 (J)
3/4/2020	0.00026 (J)
3/26/2020	0.00019 (J)
9/21/2020	0.00018 (J)
2/12/2021	0.0002 (J)
3/17/2021	0.00016 (J)
8/18/2021	0.00027 (J)
2/9/2022	0.0011
Mean	0.000349
Std. Dev.	0.000295
Upper Lim.	0.0004257
Lower Lim.	0.0001233

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					<0.005	<0.005
5/23/2016	<0.005	<0.005	<0.005	<0.005		
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016					<0.005	<0.005
10/24/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016					<0.005	<0.005
12/7/2016	<0.005	<0.005	<0.005	<0.005		
1/25/2017					<0.005	<0.005
1/26/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017					<0.005	0.0005 (J)
3/22/2017	<0.005	0.0003 (J)	0.0004 (J)	0.0004 (J)		
5/23/2017					<0.005	<0.005
5/24/2017	<0.005	<0.005	<0.005	<0.005		
4/3/2018					<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005	<0.005		
3/12/2019						<0.005
3/13/2019	<0.005	<0.005		<0.005	<0.005	
3/14/2019			0.0025 (J)			
4/2/2019					<0.005	
4/3/2019	0.02	<0.005	<0.005			<0.005
4/5/2019				<0.005		
9/24/2019						<0.005
9/25/2019					0.071	
9/26/2019				<0.005		
9/27/2019	<0.005	<0.005	<0.005			
3/3/2020	<0.005	0.00061 (J)	<0.005			0.0007 (J)
3/4/2020				<0.005	0.0016 (J)	
3/26/2020			<0.005			
3/27/2020					0.0004 (J)	<0.005
3/30/2020				0.00059 (J)		
3/31/2020		<0.005				
4/1/2020	<0.005					
9/16/2020	<0.005				0.00074 (J)	0.0015 (J)
9/18/2020		<0.005	0.00091 (J)			
9/21/2020				0.00056 (J)		
2/10/2021					0.0014 (J)	
2/12/2021		<0.005	<0.005			
2/15/2021	<0.005					
2/16/2021						<0.005
2/22/2021				<0.005		
3/12/2021	<0.005					
3/15/2021					0.0021 (J)	0.00082 (J)
3/16/2021		<0.005	<0.005			
3/17/2021				<0.005		
8/16/2021					<0.005	
8/17/2021	<0.005					
8/18/2021		<0.005	<0.005			<0.005
8/19/2021				<0.005		
2/9/2022	0.0011 (J)	<0.005	<0.005			
2/10/2022				<0.005	<0.005	<0.005
Mean	0.005584	0.004522	0.004411	0.004292	0.007486	0.004133

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
Std. Dev.	0.003603	0.001434	0.001444	0.00168	0.01548	0.001735
Upper Lim.	0.02	0.005	0.005	0.005	0.071	0.005
Lower Lim.	0.0011	0.00061	0.0025	0.00059	0.0016	0.0015

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	<0.005					
7/12/2016	<0.005					
9/1/2016	<0.005					
10/20/2016	<0.005					
12/6/2016	<0.005					
1/26/2017	<0.005					
3/22/2017	<0.005					
5/23/2017	<0.005					
4/3/2018	<0.005					
3/13/2019	<0.005		<0.005	<0.005		<0.005
3/14/2019		<0.005			<0.005	
4/2/2019			<0.005			
4/3/2019	<0.005	<0.005			<0.005	<0.005
4/8/2019				<0.005		
9/25/2019			<0.005			
9/26/2019				0.00042 (J)		0.00076 (J)
9/27/2019	<0.005	<0.005			<0.005	
3/2/2020			0.00071 (J)			
3/3/2020					<0.005	
3/4/2020	<0.005	0.00066 (J)		<0.005		0.0028 (J)
3/26/2020		0.00047 (J)			0.00061 (J)	
3/27/2020			0.00051 (J)			
3/30/2020				<0.005		
3/31/2020	0.00052 (J)					0.001 (J)
9/17/2020	<0.005		<0.005			<0.005
9/18/2020					<0.005	
9/21/2020		0.0014 (J)		<0.005		
2/11/2021			<0.005			
2/12/2021		0.00059 (J)			<0.005	
2/16/2021	0.00067 (J)			<0.005		0.001 (J)
3/15/2021			0.00068 (J)			
3/16/2021	<0.005				<0.005	
3/17/2021		0.0022 (J)		0.0017 (J)		0.0015 (J)
8/17/2021	<0.005		<0.005			<0.005
8/18/2021		<0.005				
8/19/2021				<0.005	<0.005	
2/9/2022	0.0011 (J)	<0.005			<0.005	<0.005
2/10/2022			<0.005	<0.005		
Mean	0.004331	0.003032	0.00369	0.004212	0.004561	0.003206
Std. Dev.	0.00159	0.002131	0.00211	0.001688	0.001388	0.001969
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0011	0.00059	0.00068	0.0017	0.005	0.001

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		<0.005	<0.005			
3/13/2019	<0.005			0.003 (J)	<0.005	<0.005
4/2/2019		<0.005	<0.005			
4/3/2019				0.003 (J)	<0.005	0.0023 (J)
4/4/2019	<0.005					
9/24/2019			<0.005			
9/25/2019				0.0052 (J)		
9/26/2019	<0.005	0.00081 (J)			<0.005	0.0013 (J)
3/2/2020			<0.005	0.0042 (J)		
3/3/2020					0.00044 (J)	0.0015 (J)
3/4/2020	<0.005	0.0027 (J)				
3/26/2020				0.0044 (J)		
3/27/2020		<0.005			0.00059 (J)	
3/30/2020			0.001 (J)			0.0021 (J)
4/2/2020	<0.005					
9/16/2020			<0.005			
9/17/2020				0.0021 (J)		
9/18/2020	0.0007 (J)					
9/21/2020		0.00085 (J)			<0.005	0.0017 (J)
2/10/2021		0.0014 (J)				
2/15/2021			<0.005			0.0015 (J)
2/16/2021	0.00082 (J)			0.0032 (J)	<0.005	
3/12/2021	<0.005					
3/15/2021		0.00078 (J)	<0.005			0.0018 (J)
3/16/2021				0.0024 (J)	<0.005	
8/16/2021			<0.005			
8/17/2021	<0.005			0.0018 (J)	<0.005	<0.005
8/18/2021		<0.005				
2/8/2022						0.0016 (J)
2/9/2022				0.0031 (J)	<0.005	
2/10/2022	<0.005	0.0011 (J)	<0.005			
Mean	0.004152	0.002764	0.0046	0.00324	0.004103	0.00238
Std. Dev.	0.001788	0.002001	0.001265	0.001071	0.001891	0.001412
Upper Lim.	0.005	0.005	0.005	0.004196	0.005	0.005
Lower Lim.	0.00082	0.00081	0.005	0.002284	0.00059	0.0015

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					<0.005	0.00207 (J)
5/23/2016	<0.005	<0.005	<0.005	0.00361 (J)		
7/12/2016	0.0006 (J)	0.0021 (J)	0.0018 (J)	0.0032 (J)	0.0003 (J)	0.0019 (J)
9/1/2016	0.0007 (J)	0.0025 (J)	0.0016 (J)	0.0033 (J)	<0.005	0.0023 (J)
10/20/2016					0.0008 (J)	0.002 (J)
10/24/2016	0.0009 (J)	0.0032 (J)	0.0017 (J)	0.004 (J)		
12/6/2016					0.0009 (J)	0.0026 (J)
12/7/2016	0.0012 (J)	0.003 (J)	0.0021 (J)	0.0034 (J)		
1/25/2017					0.0005 (J)	0.002 (J)
1/26/2017	<0.005	0.0014 (J)	0.0016 (J)	0.0024 (J)		
3/21/2017					0.0005 (J)	0.0023 (J)
3/22/2017	0.0006 (J)	0.0014 (J)	0.0018 (J)	0.0026 (J)		
5/23/2017					0.0005 (J)	0.0023 (J)
5/24/2017	0.0006 (J)	0.0008 (J)	0.0015 (J)	0.0022 (J)		
4/3/2018					<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005	<0.005		
3/12/2019						0.002 (J)
3/13/2019	<0.005	0.00098 (J)		0.0022 (J)	0.00067 (J)	
3/14/2019			0.0011 (J)			
4/2/2019					0.00069 (J)	
4/3/2019	<0.005	0.0018 (J)	0.0011 (J)			0.0019 (J)
4/5/2019				0.0017 (J)		
9/24/2019						0.0015 (J)
9/25/2019					0.0026 (J)	
9/26/2019				0.0042 (J)		
9/27/2019	<0.005	0.00071 (J)	0.0012 (J)			
3/3/2020	<0.005	0.00087 (J)	0.0013 (J)			0.002 (J)
3/4/2020				0.0066	0.0011 (J)	
3/26/2020			0.0012 (J)			
3/27/2020					0.00074 (J)	0.0018 (J)
3/30/2020				0.0053		
3/31/2020		0.0014 (J)				
4/1/2020	<0.005					
9/16/2020	<0.005				0.00065 (J)	0.0019 (J)
9/18/2020		<0.005	0.0014 (J)			
9/21/2020				0.0032 (J)		
2/10/2021					0.00081 (J)	
2/12/2021		<0.005	0.0012 (J)			
2/15/2021	<0.005					
2/16/2021						0.002 (J)
2/22/2021				0.003 (J)		
3/12/2021	<0.005					
3/15/2021					0.0014 (J)	0.0019 (J)
3/16/2021		<0.005	0.0012 (J)			
3/17/2021				0.0029 (J)		
8/16/2021					0.0012 (J)	
8/17/2021	<0.005					
8/18/2021		<0.005	0.0012 (J)			0.002 (J)
8/19/2021				0.0024 (J)		
2/9/2022	<0.005	<0.005	0.0013 (J)			
2/10/2022				0.0026 (J)	0.0011 (J)	0.0021 (J)
Mean	0.003663	0.002903	0.001805	0.003358	0.001551	0.002188

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
Std. Dev.	0.002026	0.001776	0.001159	0.001224	0.001611	0.000719
Upper Lim.	0.005	0.005	0.0018	0.004075	0.0026	0.0023
Lower Lim.	0.0007	0.00098	0.0012	0.002642	0.00065	0.0019

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-26D	MW-27D
5/23/2016	<0.005					
7/12/2016	0.0006 (J)					
9/1/2016	0.0007 (J)					
10/20/2016	0.002 (J)					
12/6/2016	0.0011 (J)					
1/26/2017	0.0006 (J)					
3/22/2017	0.0005 (J)					
5/23/2017	0.0006 (J)					
4/3/2018	<0.005					
3/13/2019	0.00065 (J)		0.0011 (J)	<0.005	<0.005	<0.005
3/14/2019		0.025				
4/2/2019			<0.005			
4/3/2019	0.00069 (J)	0.036			<0.005	
4/4/2019						9.1E-05 (J)
4/8/2019				0.00025 (J)		
9/25/2019			<0.005			
9/26/2019				0.0011 (J)	0.00053 (J)	<0.005
9/27/2019	0.00057 (J)	0.033				
3/2/2020			<0.005			
3/4/2020	0.00053 (J)	0.048		0.00056 (J)	<0.005	0.00045 (J)
3/26/2020		0.045				
3/27/2020			<0.005			
3/30/2020				<0.005		
3/31/2020	0.00051 (J)				0.0003 (J)	
4/2/2020						<0.005
9/17/2020	0.0007 (J)		<0.005		<0.005	
9/18/2020						<0.005
9/21/2020		0.032		<0.005		
2/11/2021			<0.005			
2/12/2021		0.037				
2/16/2021	0.00061 (J)			<0.005	0.00045 (J)	0.0004 (J)
3/12/2021						<0.005
3/15/2021			<0.005			
3/16/2021	0.00069 (J)					
3/17/2021		0.037		<0.005	0.00044 (J)	
8/17/2021	0.00045 (J)		<0.005		0.00045 (J)	<0.005
8/18/2021		0.039				
8/19/2021				<0.005		
2/9/2022	0.00051 (J)	0.03			0.00059 (J)	
2/10/2022			<0.005	<0.005		<0.005
Mean	0.001158	0.0362	0.00461	0.003691	0.002276	0.003594
Std. Dev.	0.001396	0.006812	0.001233	0.002117	0.002346	0.002266
Upper Lim.	0.0011	0.04228	0.005	0.005	0.005	0.005
Lower Lim.	0.00053	0.03012	0.005	0.00056	0.00044	0.0004

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-6
3/12/2019	<0.005	0.00057 (J)	
3/13/2019			0.00055 (J)
4/2/2019	<0.005	0.00084 (J)	
4/3/2019			<0.005
9/24/2019		0.0015 (J)	
9/26/2019	<0.005		0.00036 (J)
3/2/2020		0.00067 (J)	
3/3/2020			0.00094 (J)
3/4/2020	0.00093 (J)		
3/27/2020	<0.005		0.00059 (J)
3/30/2020		0.00063 (J)	
9/16/2020		0.0013 (J)	
9/21/2020	<0.005		0.00041 (J)
2/10/2021	<0.005		
2/15/2021		0.00097 (J)	
2/16/2021			0.00045 (J)
3/15/2021	<0.005	0.0011 (J)	
3/16/2021			0.00042 (J)
8/16/2021		0.0014 (J)	
8/17/2021			<0.005
8/18/2021	<0.005		
2/9/2022			0.00059 (J)
2/10/2022	<0.005	0.00089 (J)	
Mean	0.004593	0.000987	0.001431
Std. Dev.	0.001287	0.0003296	0.001888
Upper Lim.	0.005	0.001281	0.005
Lower Lim.	0.005	0.0006929	0.00041

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					0.62 (U)	0.56 (U)
5/23/2016	0.419 (U)	0.509 (U)	1.12	0.625 (U)		
7/12/2016	0.855	0.784 (U)	1.61	0.478 (U)	0.283 (U)	0.636 (U)
9/1/2016	0.844 (U)	0.261 (U)	1.23	0.595 (U)	0.703 (U)	0.818 (U)
10/20/2016					1.97	1.04 (U)
10/24/2016	0.917 (U)	1.42	1.98	1.54		
12/6/2016					2	0.771 (U)
12/7/2016	0.558 (U)	0.781 (U)	0.319 (U)	0.657 (U)		
1/25/2017					1.06 (U)	0.859 (U)
1/26/2017	0.922 (U)	0.842 (U)	0.54 (U)	1.22		
3/21/2017					0.668 (U)	0.851 (U)
3/22/2017	0.751 (U)	0.318 (U)	0.635 (U)	0.285 (U)		
5/23/2017					0.621 (U)	0.705 (U)
5/24/2017	0.725 (U)	0.687 (U)	1.01	0.655 (U)		
4/3/2018					0.538 (U)	0.311 (U)
4/4/2018	0.715 (U)	1.5	0.956	0.882 (U)		
6/5/2018	0.718 (U)	0.549 (U)		1.1 (U)	0.985 (U)	
6/6/2018			0.424 (U)			0.896 (U)
10/2/2018	0.948				0.837 (U)	1.21
10/3/2018		1.48	0.57 (U)			
10/5/2018				0.558 (U)		
3/12/2019						0.544 (U)
3/13/2019	1.19 (U)	0.584 (U)		0.39 (U)	0.403 (U)	
3/14/2019			0.992 (U)			
4/2/2019					0.865 (U)	
4/3/2019	1.82 (U)	0.36 (U)	0.734 (U)			0.885 (U)
4/5/2019				0.422 (U)		
9/24/2019						1.3
9/25/2019					0.884 (U)	
9/26/2019				0.939 (U)		
9/27/2019	1.16 (U)	1.78	0.958 (U)			
3/3/2020	0.667 (U)	0.716 (U)	0.971 (U)			0.835 (U)
3/4/2020				0.708 (U)	0.624 (U)	
3/26/2020			0.209 (U)			
3/27/2020					0.485 (U)	1.04 (U)
3/30/2020				0.602 (U)		
3/31/2020		1.3 (U)				
4/1/2020	0.235 (U)					
9/16/2020	0 (U)				0.135 (U)	0.526 (U)
9/18/2020		1.24 (U)	0.916 (U)			
9/21/2020				1.53		
2/10/2021					0.281 (U)	
2/12/2021		1.1	0.236 (U)			
2/15/2021	1.91					
2/16/2021						0.764 (U)
2/22/2021				1.02		
3/12/2021	1.12 (U)					
3/15/2021					0.666 (U)	1.3 (U)
3/16/2021		1.71	0.245 (U)			
3/17/2021				1.45 (U)		
8/16/2021					0.143 (U)	
8/17/2021	0.595 (U)					

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/18/2021		0.919 (U)	0.919 (U)			1.02 (U)
8/19/2021				0.764 (U)		
2/9/2022	0.49 (U)	0.444 (U)	0.564 (U)			
2/10/2022				0.442 (U)	0.175 (U)	0.945 (U)
Mean	0.8361	0.9183	0.8161	0.803	0.7117	0.8484
Std. Dev.	0.4486	0.4711	0.4513	0.379	0.5013	0.2552
Upper Lim.	1.084	1.178	1.065	1.012	0.908	0.9892
Lower Lim.	0.5887	0.6584	0.5671	0.5939	0.413	0.7076

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	0.826 (U)					
7/12/2016	0.511 (U)					
9/1/2016	0.762 (U)					
10/20/2016	1.17					
12/6/2016	0.126 (U)					
1/26/2017	0.515 (U)					
3/22/2017	0.451 (U)					
5/23/2017	0.924 (U)					
4/3/2018	0.732 (U)					
6/6/2018	0.813 (U)					
10/2/2018	0.61 (U)					
3/13/2019	1 (U)		0.538 (U)	0.311 (U)		0.627 (U)
3/14/2019		0.347 (U)			1.28 (U)	
4/2/2019			1.02 (U)			
4/3/2019	0.156 (U)	0.884 (U)			0.662 (U)	0.205 (U)
4/8/2019				0.573 (U)		
9/25/2019			1.35 (U)			
9/26/2019				0.878 (U)		0.912 (U)
9/27/2019	0.428 (U)	0.534 (U)			0.945 (U)	
3/2/2020			0.653 (U)			
3/3/2020					1.36	
3/4/2020	1.03	1.04		0.333 (U)		1.27 (U)
3/26/2020		1.1 (U)			0.793 (U)	
3/27/2020			0.1 (U)			
3/30/2020				0.107 (U)		
3/31/2020	1.2 (U)					1.65
9/17/2020	1.38 (U)		0.469 (U)			0.42 (U)
9/18/2020					1.17 (U)	
9/21/2020		1.36 (U)		1.23 (U)		
2/11/2021			0.334 (U)			
2/12/2021		0.764 (U)			1.17	
2/16/2021	1.17 (U)			0.156 (U)		0.505 (U)
3/15/2021			1.24 (U)			
3/16/2021	0.446 (U)				0.742 (U)	
3/17/2021		0.466 (U)		0.174 (U)		0.165 (U)
8/17/2021	0.771 (U)		0.709 (U)			0.0468 (U)
8/18/2021		0.642 (U)				
8/19/2021				0.227 (U)	0.935 (U)	
2/9/2022	0.198 (U)	0.245 (U)			0.754 (U)	0.0677 (U)
2/10/2022			0.32 (U)	0.178 (U)		
Mean	0.7247	0.7382	0.6733	0.4167	0.9811	0.5869
Std. Dev.	0.3595	0.3578	0.4123	0.3701	0.248	0.5399
Upper Lim.	0.923	1.057	1.041	0.6843	1.202	1.069
Lower Lim.	0.5264	0.419	0.3055	0.1353	0.7598	0.1051

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		0.926 (U)	1.37			
3/13/2019	1.81			0.621 (U)	2.07	1.23
4/2/2019		0.479 (U)	0.62 (U)			
4/3/2019				0.932 (U)	0.872 (U)	1.05 (U)
4/4/2019	1.33					
9/24/2019			0.675 (U)			
9/25/2019				0.798 (U)		
9/26/2019	0.974 (U)	0.997 (U)			0.745 (U)	0.947 (U)
3/2/2020			0.413 (U)	0.964 (U)		
3/3/2020					0.757 (U)	1.15
3/4/2020	1.12	1.31				
3/26/2020				1.1		
3/27/2020		1.59			0.758 (U)	
3/30/2020			0.885 (U)			0.83 (U)
4/2/2020	2.48					
9/16/2020			0.193 (U)			
9/17/2020				0.618 (U)		
9/18/2020	1.13 (U)					
9/21/2020		1.39 (U)			0.796 (U)	1.55 (U)
2/10/2021		0.201 (U)				
2/15/2021			1.17 (U)			0.892 (U)
2/16/2021	1.21			0.466 (U)	0.198 (U)	
3/12/2021	0.649 (U)					
3/15/2021		0.564 (U)	0.436 (U)			0.386 (U)
3/16/2021				1.22	0.727 (U)	
8/16/2021			0.208 (U)			
8/17/2021	1.06 (U)			0.304 (U)	0.557 (U)	0.183 (U)
8/18/2021		0.876 (U)				
2/8/2022						0.417 (U)
2/9/2022				0.567 (U)	0.619 (U)	
2/10/2022	0.809 (U)	1.96 (U)	0.594 (U)			
Mean	1.257	1.029	0.6564	0.759	0.8099	0.8635
Std. Dev.	0.5305	0.5406	0.3879	0.2927	0.4811	0.4245
Upper Lim.	1.731	1.512	1.003	1.02	0.872	1.242
Lower Lim.	0.7838	0.547	0.3103	0.4979	0.557	0.4847

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					0.0828 (J)	0.499
5/23/2016	0.0394 (J)	0.203 (J)	0.212 (J)	0.2587 (J)		
7/12/2016	0.15 (J)	0.44	0.31	0.53	0.2 (J)	0.67
9/1/2016	0.5	0.67	0.62	0.74	0.51	0.94
10/20/2016					0.4	0.56
10/24/2016	0.06 (J)	0.26 (J)	0.19 (J)	0.31		
12/6/2016					0.26 (J)	0.76
12/7/2016	0.44	0.55	0.73	1		
1/25/2017					0.24 (J)	1.1
1/26/2017	0.29 (J)	0.27 (J)	0.12 (J)	0.68		
3/21/2017					0.13 (J)	0.46
3/22/2017	0.34	0.66	0.44	0.76		
5/23/2017					0.11 (J)	0.65
5/24/2017	0.13 (J)	0.35	0.34	0.54		
10/3/2017	0.46	0.56	0.58	0.83	0.17 (J)	0.66
4/3/2018					<0.1	0.39
4/4/2018	<0.1	0.39	<0.1	0.65		
6/5/2018	<0.1	0.24 (J)		0.47	0.099 (J)	
6/6/2018			0.21 (J)			0.46
10/2/2018	0.17 (J)				<0.1	0.51
10/3/2018		0.31	0.15 (J)			
10/5/2018				0.77		
3/12/2019						0.58
3/13/2019	0.17 (J)	0.51		0.78	0.12 (J)	
3/14/2019			1.1			
4/2/2019					0.097 (J)	
4/3/2019	0.082 (J)	0.43	0.3 (J)			0.63
4/5/2019				0.83		
9/24/2019						0.49
9/25/2019					0.1 (J)	
9/26/2019				0.64		
9/27/2019	0.17 (J)	0.42	0.26 (J)			
3/3/2020	0.11 (J)	0.24 (J)	0.21 (J)			0.45
3/4/2020				0.37	0.077 (J)	
3/26/2020			0.17 (J)			
3/27/2020					0.059 (J)	0.46
3/30/2020				0.44		
3/31/2020		0.19 (J)				
4/1/2020	0.12 (J)					
6/16/2020						0.45
6/17/2020					0.077 (J)	
9/16/2020	<0.1				0.081 (J)	0.53
9/18/2020		0.15	0.15			
9/21/2020				0.44		
2/10/2021					0.085 (J)	
2/12/2021		0.17	0.19			
2/15/2021	0.08 (J)					
2/16/2021						0.47
2/22/2021				0.55		
3/12/2021	0.054 (J)					
3/15/2021					0.086 (J)	0.51
3/16/2021		0.21	0.2			

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
3/17/2021				0.65		
8/16/2021					0.084 (J)	
8/17/2021	<0.1					
8/18/2021		0.21	0.15			0.41
8/19/2021				0.53		
2/9/2022	0.12	0.2	0.2			
2/10/2022				0.53	0.083 (J)	0.42
Mean	0.1766	0.347	0.3151	0.6045	0.1457	0.5678
Std. Dev.	0.1375	0.1619	0.2438	0.1861	0.112	0.1729
Upper Lim.	0.1935	0.4339	0.3832	0.7044	0.17	0.6281
Lower Lim.	0.07795	0.26	0.1863	0.5046	0.083	0.4776

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	<0.1					
7/12/2016	0.24 (J)					
9/1/2016	0.46					
10/20/2016	0.56					
12/6/2016	0.31					
1/26/2017	0.004 (J)					
3/22/2017	0.28 (J)					
5/23/2017	0.29 (J)					
10/3/2017	0.53					
4/3/2018	<0.1					
6/6/2018	0.12 (J)					
10/2/2018	0.031 (J)					
3/13/2019	0.14 (J)		0.072 (J)	0.074 (J)		0.052 (J)
3/14/2019		0.35			2.2	
4/2/2019			<0.1			
4/3/2019	0.14 (J)	0.19 (J)			1.6	0.044 (J)
4/8/2019				0.048 (J)		
9/25/2019			<0.1			
9/26/2019				0.18 (J)		0.19 (J)
9/27/2019	0.26 (J)	0.53			1.5	
3/2/2020			<0.1			
3/3/2020					1.4	
3/4/2020	0.08 (J)	0.096 (J)		0.051 (J)		0.052 (J)
3/26/2020		0.12 (J)			1.6	
3/27/2020			<0.1			
3/30/2020				0.064 (J)		
3/31/2020	0.074 (J)					<0.1
9/17/2020	0.1		<0.1			0.069 (J)
9/18/2020					1.6	
9/21/2020		0.17		<0.1		
2/11/2021			<0.1			
2/12/2021		0.16			1.6	
2/16/2021	0.096 (J)			<0.1		0.071 (J)
3/15/2021			<0.1			
3/16/2021	0.098 (J)				1.7	
3/17/2021		0.18		<0.1		0.072 (J)
8/17/2021	0.095 (J)		<0.1			0.075 (J)
8/18/2021		0.12				
8/19/2021				<0.1	1.5	
2/9/2022	0.1	0.076 (J)			1.7	0.092 (J)
2/10/2022			<0.1	0.051 (J)		
Mean	0.1913	0.1992	0.0972	0.0868	1.64	0.0817
Std. Dev.	0.1573	0.1388	0.008854	0.03963	0.2171	0.04186
Upper Lim.	0.2464	0.3015	0.1	0.09578	1.7	0.1115
Lower Lim.	0.09575	0.09303	0.1	0.04138	1.5	0.05026

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		0.24 (J)	0.07 (J)			
3/13/2019	0.28 (J)			0.1 (J)	0.19 (J)	0.069 (J)
4/2/2019		0.18 (J)	0.045 (J)			
4/3/2019				0.049 (J)	0.15 (J)	<0.1
4/4/2019	0.26 (J)					
9/24/2019			0.18 (J)			
9/25/2019				0.076 (J)		
9/26/2019	0.42	0.22 (J)			0.19 (J)	0.17 (J)
3/2/2020			<0.1	0.065 (J)		
3/3/2020					0.062 (J)	<0.1
3/4/2020	0.25 (J)	0.26 (J)				
3/26/2020				0.082 (J)		
3/27/2020		0.26 (J)			<0.1	
3/30/2020			<0.1			<0.1
4/2/2020	0.24 (J)					
9/16/2020			<0.1			
9/17/2020				0.094 (J)		
9/18/2020	0.22					
9/21/2020		0.1			<0.1	<0.1
2/10/2021		0.16				
2/15/2021			<0.1			<0.1
2/16/2021	0.25			0.051 (J)	0.059 (J)	
3/12/2021	0.24					
3/15/2021		0.24	<0.1			<0.1
3/16/2021				<0.1	0.06 (J)	
8/16/2021			<0.1			
8/17/2021	0.24			<0.1	0.055 (J)	<0.1
8/18/2021		0.14				
2/8/2022						<0.1
2/9/2022				0.056 (J)	0.059 (J)	
2/10/2022	0.25	0.22	<0.1			
Mean	0.265	0.202	0.0995	0.0773	0.1025	0.1039
Std. Dev.	0.05662	0.05453	0.03387	0.02094	0.05484	0.02519
Upper Lim.	0.28	0.2507	0.1	0.08789	0.19	0.1
Lower Lim.	0.24	0.1533	0.07	0.05536	0.059	0.1

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					<0.005	<0.005
5/23/2016	<0.005	<0.005	<0.005	<0.005		
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016					<0.005	<0.005
10/24/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016					0.0001 (J)	<0.005
12/7/2016	<0.005	<0.005	<0.005	<0.005		
1/25/2017					0.0001 (J)	<0.005
1/26/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017					9E-05 (J)	<0.005
3/22/2017	<0.005	0.0003 (J)	<0.005	7E-05 (J)		
5/23/2017					8E-05 (J)	<0.005
5/24/2017	<0.005	9E-05 (J)	<0.005	<0.005		
4/3/2018					<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005	<0.005		
3/12/2019						<0.005
3/13/2019	<0.005	<0.005		<0.005	<0.005	
3/14/2019			<0.005			
3/3/2020	<0.005	0.00021 (J)	5.6E-05 (J)			0.00013 (J)
3/4/2020				0.00014 (J)	0.00051 (J)	
3/26/2020			0.00043 (J)			
3/27/2020					5.4E-05 (J)	<0.005
3/30/2020				0.0001 (J)		
3/31/2020		0.0003 (J)				
4/1/2020	5E-05 (J)					
9/16/2020	<0.005				0.0002 (J)	0.0002 (J)
9/18/2020		6E-05 (J)	9.6E-05 (J)			
9/21/2020				0.00015 (J)		
2/10/2021					0.00056 (J)	
2/12/2021		<0.005	6.7E-05 (J)			
2/15/2021	<0.005					
2/16/2021						8.6E-05 (J)
2/22/2021				0.00018 (J)		
3/12/2021	<0.005					
3/15/2021					0.0013	0.00011 (J)
3/16/2021		9.9E-05 (J)	8.9E-05 (J)			
3/17/2021				0.00015 (J)		
8/16/2021					<0.005	
8/17/2021	<0.005					
8/18/2021		<0.005	<0.005			<0.005
8/19/2021				<0.005		
2/9/2022	<0.005	<0.005	<0.005			
2/10/2022				<0.005	<0.005	<0.005
Mean	0.004709	0.003298	0.003573	0.003282	0.002529	0.003854
Std. Dev.	0.001201	0.002377	0.00228	0.002398	0.002419	0.002129
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	5E-05	0.00021	9.6E-05	0.00014	9E-05	0.0002

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-20	MW-24D	MW-26D	MW-27D
5/23/2016	<0.005					
7/12/2016	<0.005					
9/1/2016	<0.005					
10/20/2016	<0.005					
12/6/2016	0.0002 (J)					
1/26/2017	0.0001 (J)					
3/22/2017	<0.005					
5/23/2017	0.0001 (J)					
4/3/2018	<0.005					
3/13/2019	<0.005		<0.005	<0.005	<0.005	<0.005
3/14/2019		<0.005				
3/2/2020			0.00017 (J)			
3/4/2020	8.4E-05 (J)	0.00011 (J)		0.00019 (J)	<0.005	<0.005
3/26/2020		<0.005				
3/27/2020			0.00013 (J)			
3/30/2020				6.4E-05 (J)		
3/31/2020	0.00014 (J)				0.0001 (J)	
4/2/2020						0.00013 (J)
9/17/2020	0.00022 (J)		<0.005		<0.005	
9/18/2020						<0.005
9/21/2020		8.5E-05 (J)		4.2E-05 (J)		
2/11/2021			3.9E-05 (J)			
2/12/2021		7.1E-05 (J)				
2/16/2021	0.0002 (J)			0.00012 (J)	8E-05 (J)	0.00043 (J)
3/12/2021						<0.005
3/15/2021			0.0001 (J)			
3/16/2021	0.00027 (J)					
3/17/2021		3.8E-05 (J)		4E-05 (J)	<0.005	
8/17/2021	<0.005		<0.005		<0.005	<0.005
8/18/2021		<0.005				
8/19/2021				<0.005		
2/9/2022	<0.005	<0.005			<0.005	
2/10/2022			<0.005	<0.005		<0.005
Mean	0.002724	0.002538	0.002555	0.001932	0.003772	0.00382
Std. Dev.	0.002488	0.002632	0.002614	0.002541	0.002273	0.002186
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00014	3.8E-05	3.9E-05	4E-05	8E-05	0.00013

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			<0.005	<0.005	<0.005
3/2/2020		9E-05 (J)	4.7E-05 (J)		
3/3/2020				0.00013 (J)	6.2E-05 (J)
3/4/2020	0.001 (J)				
3/26/2020			<0.005		
3/27/2020	6.2E-05 (J)			<0.005	
3/30/2020		0.00011 (J)			<0.005
9/16/2020		<0.005			
9/17/2020			<0.005		
9/21/2020	0.00018 (J)			0.00026 (J)	<0.005
2/10/2021	0.00044 (J)				
2/15/2021		5.2E-05 (J)			<0.005
2/16/2021			<0.005	8.4E-05 (J)	
3/15/2021	0.00034 (J)	<0.005			<0.005
3/16/2021			<0.005	3.6E-05 (J)	
8/16/2021		<0.005			
8/17/2021			<0.005	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					<0.005
2/9/2022			<0.005	<0.005	
2/10/2022	<0.005	<0.005			
Mean	0.002128	0.003156	0.004381	0.002564	0.004383
Std. Dev.	0.002394	0.002544	0.001751	0.002605	0.001746
Upper Lim.	0.0007463	0.005	0.005	0.005	0.005
Lower Lim.	0.0001038	5.2E-05	4.7E-05	3.6E-05	6.2E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9	MW-19
5/20/2016			<0.03	<0.03		
5/23/2016	0.0107 (J)	0.0422 (J)			<0.03	
7/12/2016	0.0113 (J)	0.0366 (J)	0.0021 (J)	0.0023 (J)	0.004 (J)	
9/1/2016	0.0118 (J)	0.04 (J)	0.0025 (J)	0.0029 (J)	0.0044 (J)	
10/20/2016			0.0021 (J)	0.0027 (J)	0.0027 (J)	
10/24/2016	0.0114 (J)	0.0435 (J)				
12/6/2016			0.0026 (J)	0.0032 (J)	0.005 (J)	
12/7/2016	0.0155 (J)	0.0477 (J)				
1/25/2017			0.0024 (J)	0.0026 (J)		
1/26/2017	0.0099 (J)	0.0342 (J)			0.0042 (J)	
3/21/2017			0.0026 (J)	0.0029 (J)		
3/22/2017	0.0098 (J)	0.0353 (J)			0.0043 (J)	
5/23/2017			0.0026 (J)	0.0029 (J)	0.0048 (J)	
5/24/2017	0.0105 (J)	0.0317 (J)				
4/3/2018			0.0023 (J)	0.0025 (J)	0.0043 (J)	
4/4/2018	0.008 (J)	0.031 (J)				
6/5/2018		0.031 (J)	0.0022 (J)			
6/6/2018	0.0095 (J)			0.0023 (J)	0.0043 (J)	
10/2/2018			0.003 (J)	0.0025 (J)	0.004 (J)	
10/3/2018	0.0083 (J)					
10/5/2018		0.027 (J)				
3/12/2019				0.0025 (J)		
3/13/2019		0.029 (J)	0.0024 (J)		0.004 (J)	
3/14/2019	0.0058 (J)					0.0089 (J)
4/2/2019			0.002 (J)			
4/3/2019	0.0066 (J)			0.0025 (J)	0.004 (J)	0.0061 (J)
4/5/2019		0.023 (J)				
9/24/2019				0.0024 (J)		
9/25/2019			0.0019 (J)			
9/26/2019		0.035				
9/27/2019	0.011 (J)				0.0044 (J)	0.013 (J)
3/3/2020	0.0063 (J)			0.0028 (J)		
3/4/2020		0.041	0.0034 (J)		0.004 (J)	0.01 (J)
3/26/2020	0.0063 (J)					0.013 (J)
3/27/2020			0.002 (J)	0.0026 (J)		
3/30/2020		0.038				
3/31/2020					0.0043 (J)	
9/16/2020			0.0026 (J)	0.0033 (J)		
9/17/2020					0.004 (J)	
9/18/2020	0.01 (J)					
9/21/2020		0.028 (J)				0.013 (J)
2/10/2021			0.0032 (J)			
2/12/2021	0.0094 (J)					0.012 (J)
2/16/2021				0.0027 (J)	0.0045 (J)	
2/22/2021		0.032				
3/15/2021			0.0038 (J)	0.0029 (J)		
3/16/2021	0.0081 (J)				0.0046 (J)	
3/17/2021		0.031				0.012 (J)
8/16/2021			0.0025 (J)			
8/17/2021					0.004 (J)	
8/18/2021	0.0099 (J)			0.0029 (J)		0.014 (J)
8/19/2021		0.028 (J)				

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9	MW-19
2/9/2022	0.01 (J)				0.0041 (J)	0.0067 (J)
2/10/2022		0.031	0.0022 (J)	0.003 (J)		
Mean	0.009529	0.0341	0.003114	0.003305	0.00471	0.01087
Std. Dev.	0.002258	0.006196	0.002766	0.002694	0.002399	0.002804
Upper Lim.	0.01077	0.03752	0.003	0.003	0.0045	0.01337
Lower Lim.	0.008283	0.03069	0.0021	0.0025	0.004	0.008369

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-20	MW-24D	MW-25D	MW-26D	MW-27D	MW-28D
3/12/2019						0.011 (J)
3/13/2019	0.0016 (J)	0.0029 (J)		0.0033 (J)	0.0097 (J)	
3/14/2019			0.05			
4/2/2019	0.0015 (J)					0.0052 (J)
4/3/2019			0.047 (J)	0.0034 (J)		
4/4/2019					0.0069 (J)	
4/8/2019		0.0027 (J)				
9/25/2019	<0.03					
9/26/2019		0.003 (J)		0.0041 (J)	0.0055 (J)	0.0055 (J)
9/27/2019			0.047			
3/2/2020	0.00082 (J)					
3/3/2020			0.05			
3/4/2020		0.0026 (J)		0.03 (J)	0.0047 (J)	0.015 (J)
3/26/2020			0.054			
3/27/2020	0.0012 (J)					0.014 (J)
3/30/2020		0.0027 (J)				
3/31/2020				0.0036 (J)		
4/2/2020					0.0068 (J)	
9/17/2020	<0.03			0.0032 (J)		
9/18/2020			0.046		0.0084 (J)	
9/21/2020		0.0024 (J)				0.0053 (J)
2/10/2021						0.0092 (J)
2/11/2021	0.001 (J)					
2/12/2021			0.045			
2/16/2021		0.0028 (J)		0.0038 (J)	0.0078 (J)	
3/12/2021					0.009 (J)	
3/15/2021	0.0011 (J)					0.013 (J)
3/16/2021			0.049			
3/17/2021		0.0027 (J)		0.004 (J)		
8/17/2021	0.00091 (J)			0.0036 (J)	0.0079 (J)	
8/18/2021						0.0086 (J)
8/19/2021		0.0027 (J)	0.046			
2/9/2022			0.048	0.0039 (J)		
2/10/2022	0.00099 (J)	0.0029 (J)			0.0086 (J)	0.014 (J)
Mean	0.003912	0.00274	0.0482	0.00629	0.00753	0.01008
Std. Dev.	0.005849	0.0001713	0.002658	0.008336	0.001565	0.003872
Upper Lim.	0.015	0.002893	0.05057	0.0041	0.008926	0.01353
Lower Lim.	0.00091	0.002587	0.04583	0.0033	0.006134	0.006626

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-29
3/12/2019	0.0024 (J)
4/2/2019	0.0021 (J)
9/24/2019	0.0022 (J)
3/2/2020	0.0025 (J)
3/30/2020	0.0023 (J)
9/16/2020	0.0021 (J)
2/15/2021	0.0024 (J)
3/15/2021	0.0022 (J)
8/16/2021	0.0021 (J)
2/10/2022	0.0023 (J)
Mean	0.00226
Std. Dev.	0.000143
Upper Lim.	0.002388
Lower Lim.	0.002132

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-13	HGWC-9
5/23/2016	<0.0002	<0.0002	<0.0002	<0.0002
7/12/2016	<0.0002	<0.0002	<0.0002	<0.0002
9/1/2016	<0.0002	<0.0002	<0.0002	<0.0002
10/20/2016				<0.0002
10/24/2016	<0.0002	<0.0002	<0.0002	
12/6/2016				<0.0002
12/7/2016	<0.0002	<0.0002	<0.0002	
1/26/2017	5E-05 (J)	5E-05 (J)	4E-05 (J)	4E-05 (J)
3/22/2017	<0.0002	<0.0002	<0.0002	<0.0002
5/23/2017				<0.0002
5/24/2017	<0.0002	<0.0002	5E-05 (J)	
4/3/2018				<0.0002
4/4/2018	<0.0002	<0.0002	<0.0002	
3/13/2019	<0.0002	<0.0002	<0.0002	<0.0002
3/3/2020	<0.0002	<0.0002		
3/4/2020			<0.0002	<0.0002
2/12/2021		<0.0002		
2/15/2021	<0.0002			
2/16/2021				<0.0002
2/22/2021			<0.0002	
2/9/2022	<0.0002	<0.0002		<0.0002
2/10/2022			<0.0002	
Mean	0.0001885	0.0001885	0.0001762	0.0001877
Std. Dev.	4.16E-05	4.16E-05	5.824E-05	4.438E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5E-05	5E-05	5E-05	4E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					0.028	0.446
5/23/2016	<0.01	0.0164	0.0413 (J)	0.027		
7/12/2016	0.0013 (J)	0.0251	0.0484	0.0316	0.0273	0.455
9/1/2016	<0.01	0.0259	0.0474	0.0336	0.0274	0.481
10/20/2016					0.036	0.472
10/24/2016	<0.01	0.0293	0.047	0.0352		
12/6/2016					0.0365	0.52
12/7/2016	<0.01	0.0209	0.0432	0.0383		
1/25/2017					0.0317	0.478
1/26/2017	<0.01	0.0277	0.0484	0.041		
3/21/2017					0.0346	0.547
3/22/2017	0.0013 (J)	0.011	0.0494	0.0426		
5/23/2017					0.0336	0.482
5/24/2017	0.0014 (J)	0.0373	0.047	0.04		
4/3/2018					0.032	0.44
4/4/2018	<0.01	0.013	0.052	0.027		
6/5/2018	<0.01	0.029		0.027	0.036	
6/6/2018			0.054			0.49
10/2/2018	<0.01				0.039	0.47
10/3/2018		0.02	0.054			
10/5/2018				0.033		
3/12/2019						0.5
3/13/2019	<0.01	0.012		0.033	0.04	
3/14/2019			0.046			
4/2/2019					0.041	
4/3/2019	0.0021 (J)	0.01	0.049			0.5
4/5/2019				0.03		
9/24/2019						0.54
9/25/2019					0.047	
9/26/2019				0.026		
9/27/2019	0.0014 (J)	0.016	0.052			
3/3/2020	<0.01	0.011	0.045			0.44
3/4/2020				0.03	0.045	
3/26/2020			0.045			
3/27/2020					0.044	0.42
3/30/2020				0.029		
3/31/2020		0.0074 (J)				
4/1/2020	<0.01					
6/16/2020						0.45
6/17/2020					0.048	
9/16/2020	0.0014 (J)				0.046	0.43
9/18/2020		0.032	0.046			
9/21/2020				0.032		
2/10/2021					0.051	
2/12/2021		0.023	0.048			
2/15/2021	<0.01					
2/16/2021						0.46
2/22/2021				0.036		
3/12/2021	0.0007 (J)					
3/15/2021					0.047	0.41
3/16/2021		0.015	0.044			
3/17/2021				0.035		

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/16/2021					0.045	
8/17/2021	0.0012 (J)					
8/18/2021		0.038	0.045			0.48
8/19/2021				0.032		
2/9/2022	<0.01	0.03	0.042			
2/10/2022				0.033	0.045	0.34
Mean	0.00361	0.02143	0.04734	0.03297	0.03914	0.466
Std. Dev.	0.00183	0.009245	0.003573	0.004724	0.007261	0.04541
Upper Lim.	0.005	0.02653	0.04931	0.03557	0.04304	0.4903
Lower Lim.	0.0014	0.01633	0.04537	0.03036	0.03524	0.4416

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-9	MW-19	MW-24D	MW-25D	MW-26D	MW-27D
5/23/2016	0.0187					
7/12/2016	0.0229					
9/1/2016	0.0239					
10/20/2016	0.477					
12/6/2016	0.0236					
1/26/2017	0.0234					
3/22/2017	0.0219					
5/23/2017	0.0242					
4/3/2018	0.025					
6/6/2018	0.027					
10/2/2018	0.028					
3/13/2019	0.028		<0.01		<0.01	<0.01
3/14/2019		0.057		0.0022 (J)		
4/3/2019	0.03	0.04		<0.01	0.0083 (J)	
4/4/2019						0.0018 (J)
4/8/2019			0.00027 (J)			
9/26/2019			<0.01		0.017	0.0042 (J)
9/27/2019	0.033	0.063		<0.01		
11/25/2019					0.02	
3/3/2020				<0.01		
3/4/2020	0.031	0.032	<0.01		0.0074 (J)	0.0058 (J)
3/26/2020		0.033		<0.01		
3/30/2020			<0.01			
3/31/2020	0.031				0.0093 (J)	
4/2/2020						0.003 (J)
9/17/2020	0.03				0.014	
9/18/2020				0.00094 (J)		0.0018 (J)
9/21/2020		0.064	0.00099 (J)			
2/12/2021		0.046		<0.01		
2/16/2021	0.035		0.00096 (J)		0.022	0.0019 (J)
3/12/2021						0.0008 (J)
3/16/2021	0.035			<0.01		
3/17/2021		0.043	0.001 (J)		0.023	
8/17/2021	0.035				0.024	0.0016 (J)
8/18/2021		0.032				
8/19/2021			0.00087 (J)	<0.01		
2/9/2022	0.034	0.011		<0.01	0.028	
2/10/2022			0.0008 (J)			0.0017 (J)
Mean	0.04941	0.0421	0.002489	0.004314	0.01618	0.00276
Std. Dev.	0.09809	0.01637	0.002171	0.001476	0.007828	0.001676
Upper Lim.	0.034	0.05671	0.005	0.005	0.0227	0.004255
Lower Lim.	0.0236	0.02749	0.0008	0.0022	0.009659	0.001265

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-28D	MW-29	MW-6	MW-7
3/12/2019	0.013	0.0038 (J)		
3/13/2019			0.0021 (J)	<0.01
4/2/2019	0.028	0.0028 (J)		
4/3/2019			0.0021 (J)	<0.01
9/24/2019		0.0021 (J)		
9/26/2019	0.017		0.0026 (J)	0.0033 (J)
3/2/2020		0.0025 (J)		
3/3/2020			0.0022 (J)	<0.01
3/4/2020	0.009 (J)			
3/27/2020	0.0068 (J)		0.0026 (J)	
3/30/2020		0.0029 (J)		<0.01
9/16/2020		0.0021 (J)		
9/21/2020	0.018		0.0025 (J)	0.0015 (J)
2/10/2021	0.02			
2/15/2021		0.0029 (J)		0.0015 (J)
2/16/2021			0.0025 (J)	
3/15/2021	0.013	0.0031 (J)		0.0015 (J)
3/16/2021			0.0023 (J)	
8/16/2021		0.0027 (J)		
8/17/2021			0.0027 (J)	0.003 (J)
8/18/2021	0.022			
2/8/2022				0.0012 (J)
2/9/2022			0.0026 (J)	
2/10/2022	0.0031 (J)	0.0036 (J)		
Mean	0.01499	0.00285	0.00242	0.0032
Std. Dev.	0.007519	0.0005583	0.0002251	0.001689
Upper Lim.	0.0217	0.003348	0.002621	0.005
Lower Lim.	0.008281	0.002352	0.002219	0.0015

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-8	HGWC-9
5/20/2016					<0.005	
5/23/2016	<0.005	0.0106	<0.005	<0.005		<0.005
7/12/2016	<0.005	0.0057 (J)	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	0.0057 (J)	<0.005	<0.005	<0.005	<0.005
10/20/2016					<0.005	<0.005
10/24/2016	<0.005	0.0021 (J)	<0.005	<0.005		
12/6/2016					0.0024 (J)	0.0037 (J)
12/7/2016	<0.005	0.0015 (J)	0.0011 (J)	<0.005		
1/25/2017					<0.005	
1/26/2017	0.0041 (J)	0.0062 (J)	<0.005	<0.005		<0.005
3/21/2017					<0.005	
3/22/2017	<0.005	0.0263	<0.005	<0.005		<0.005
5/23/2017					<0.005	<0.005
5/24/2017	<0.005	0.0038 (J)	<0.005	<0.005		
4/3/2018					<0.005	<0.005
4/4/2018	<0.005	0.021	<0.005	<0.005		
6/5/2018	<0.005	0.0062 (J)		<0.005		
6/6/2018			<0.005		<0.005	<0.005
10/2/2018	0.0023 (J)				<0.005	<0.005
10/3/2018		0.009 (J)	<0.005			
10/5/2018				<0.005		
3/12/2019					<0.005	
3/13/2019	0.0015 (J)	0.023		<0.005		<0.005
3/14/2019			<0.005			
4/3/2019	<0.005	0.016	<0.005		<0.005	<0.005
4/5/2019				0.00018 (J)		
9/24/2019					<0.005	
9/26/2019				<0.005		
9/27/2019	<0.005	0.013	<0.005			<0.005
3/3/2020	<0.005	0.016	<0.005		<0.005	
3/4/2020				<0.005		<0.005
3/26/2020			<0.005			
3/27/2020					<0.005	
3/30/2020				<0.005		
3/31/2020		0.019				<0.005
4/1/2020	0.002 (J)					
9/16/2020	<0.005				<0.005	
9/17/2020						<0.005
9/18/2020		0.0042 (J)	<0.005			
9/21/2020				0.0016 (J)		
2/12/2021		0.0079 (J)	<0.005			
2/15/2021	0.0028 (J)					
2/16/2021					<0.005	<0.005
2/22/2021				<0.005		
3/12/2021	<0.005					
3/15/2021					<0.005	
3/16/2021		0.015	<0.005			<0.005
3/17/2021				<0.005		
8/17/2021	<0.005					<0.005
8/18/2021		0.0033 (J)	<0.005		<0.005	
8/19/2021				<0.005		
2/9/2022	0.0031 (J)	0.0035 (J)	<0.005			<0.005

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-8	HGWC-9
2/10/2022				<0.005	<0.005	
Mean	0.004324	0.01043	0.004814	0.004609	0.004876	0.004938
Std. Dev.	0.001187	0.007431	0.000851	0.001256	0.0005674	0.0002837
Upper Lim.	0.005	0.01453	0.005	0.005	0.005	0.005
Lower Lim.	0.0031	0.006329	0.0011	0.0016	0.0024	0.0037

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
 Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-19	MW-27D	MW-5	MW-7
3/13/2019		<0.005	0.0033 (J)	0.0016 (J)
3/14/2019	<0.005			
4/3/2019	0.007 (J)		0.0027 (J)	<0.005
4/4/2019		0.00012 (J)		
9/25/2019			0.0021 (J)	
9/26/2019		<0.005		0.0014 (J)
9/27/2019	0.0013 (J)			
3/2/2020			0.0041 (J)	
3/3/2020				<0.005
3/4/2020	0.0044 (J)	<0.005		
3/26/2020	0.0053 (J)		0.0039 (J)	
3/30/2020				0.0014 (J)
4/2/2020		<0.005		
9/17/2020			0.0028 (J)	
9/18/2020		<0.005		
9/21/2020	0.0033 (J)			0.0026 (J)
2/12/2021	0.0021 (J)			
2/15/2021				<0.005
2/16/2021		<0.005	0.0035 (J)	
3/12/2021		<0.005		
3/15/2021				0.0021 (J)
3/16/2021			0.0026 (J)	
3/17/2021	<0.005			
8/17/2021		<0.005	0.0017 (J)	<0.005
8/18/2021	0.0026 (J)			
2/8/2022				0.0015 (J)
2/9/2022	0.0036 (J)		0.0027 (J)	
2/10/2022		<0.005		
Mean	0.00396	0.004512	0.00294	0.00306
Std. Dev.	0.001711	0.001543	0.0007604	0.001708
Upper Lim.	0.004996	0.005	0.003618	0.005
Lower Lim.	0.002077	0.005	0.002262	0.0014

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-8	MW-19	MW-28D
5/20/2016				<0.001		
5/23/2016	<0.001	<0.001	0.000378 (J)			
7/12/2016	8E-05 (J)	0.0002 (J)	0.0004 (J)	7E-05 (J)		
9/1/2016	<0.001	<0.001	0.0004 (J)	<0.001		
10/20/2016				<0.001		
10/24/2016	<0.001	<0.001	0.0005 (J)			
12/6/2016				<0.001		
12/7/2016	<0.001	<0.001	0.0004 (J)			
1/25/2017				<0.001		
1/26/2017	<0.001	<0.001	0.0004 (J)			
3/21/2017				9E-05 (J)		
3/22/2017	<0.001	0.0001 (J)	0.0004 (J)			
5/23/2017				8E-05 (J)		
5/24/2017	8E-05 (J)	9E-05 (J)	0.0003 (J)			
4/3/2018				<0.001		
4/4/2018	<0.001	<0.001	0.00032 (J)			
6/5/2018	<0.001		0.00035 (J)			
6/6/2018		<0.001		<0.001		
10/2/2018				<0.001		
10/3/2018	<0.001	<0.001				
10/5/2018			0.00025 (J)			
3/12/2019				<0.001		<0.001
3/13/2019	<0.001		0.00039 (J)			
3/14/2019		<0.001			<0.001	
4/2/2019						<0.001
4/3/2019	<0.001	<0.001		<0.001	<0.001	
4/5/2019			0.00034 (J)			
9/24/2019				0.00011 (J)		
9/26/2019			0.00039 (J)			<0.001
9/27/2019	<0.001	8.8E-05 (J)			0.00027 (J)	
3/3/2020	<0.001	6.6E-05 (J)		6.1E-05 (J)		
3/4/2020			0.00056 (J)		0.00026 (J)	9.2E-05 (J)
3/26/2020		8E-05 (J)			0.00026 (J)	
3/27/2020				7.7E-05 (J)		<0.001
3/30/2020			0.00048 (J)			
3/31/2020	<0.001					
9/16/2020				<0.001		
9/18/2020	<0.001	<0.001				
9/21/2020			0.00036 (J)		0.0003 (J)	<0.001
2/10/2021						<0.001
2/12/2021	<0.001	<0.001			0.00019 (J)	
2/16/2021				<0.001		
2/22/2021			0.0003 (J)			
3/15/2021				<0.001		<0.001
3/16/2021	<0.001	<0.001				
3/17/2021			0.00037 (J)		0.00026 (J)	
8/18/2021	<0.001	<0.001		<0.001	0.00023 (J)	<0.001
8/19/2021			0.0002 (J)			
2/9/2022	<0.001	<0.001			<0.001	
2/10/2022			<0.001	<0.001		<0.001
Mean	0.0009124	0.000744	0.0004042	0.0007375	0.000477	0.0009092
Std. Dev.	0.0002767	0.0004155	0.0001581	0.0004253	0.000362	0.0002871

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	HGWC-11	HGWC-12	HGWC-13	HGWC-8	MW-19	MW-28D
Upper Lim.	0.001	0.001	0.0004561	0.001	0.001	0.001
Lower Lim.	8E-05	0.0001	0.0003223	9E-05	0.00023	0.001

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/28/2022 9:17 AM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

	MW-29	MW-6
3/12/2019	<0.001	
3/13/2019		<0.001
4/2/2019	<0.001	
4/3/2019		<0.001
9/24/2019	6.4E-05 (J)	
9/26/2019		<0.001
3/2/2020	<0.001	
3/3/2020		8.2E-05 (J)
3/27/2020		<0.001
3/30/2020	<0.001	
9/16/2020	<0.001	
9/21/2020		<0.001
2/15/2021	<0.001	
2/16/2021		<0.001
3/15/2021	<0.001	
3/16/2021		<0.001
8/16/2021	<0.001	
8/17/2021		<0.001
2/9/2022		<0.001
2/10/2022	<0.001	
Mean	0.0009064	0.0009082
Std. Dev.	0.000296	0.0002903
Upper Lim.	0.001	0.001
Lower Lim.	0.001	0.001

FIGURE I.

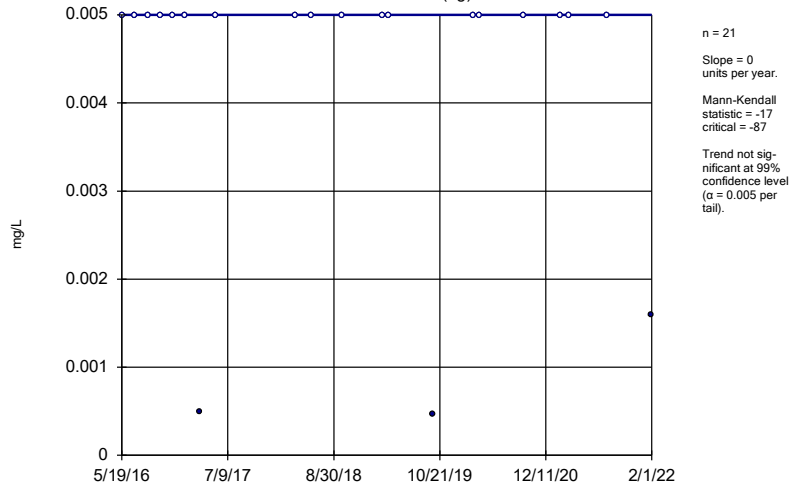
Appendix IV Trend Tests - All Results (No Significant)

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/28/2022, 9:20 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	HGWA-1 (bg)	0	-17	-87	No	21	85.71	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-2 (bg)	0	16	87	No	21	57.14	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-3 (bg)	0	4	87	No	21	57.14	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-43D (bg)	-0.001127	-7	-21	No	8	25	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-44D (bg)	0	-7	-21	No	8	75	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWC-13	0.0144	58	87	No	21	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-1 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-2 (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-3 (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-43D (bg)	-0.0008179	-9	-21	No	8	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-44D (bg)	0.002925	19	21	No	8	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWC-8	-0.00841	-55	-92	No	22	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

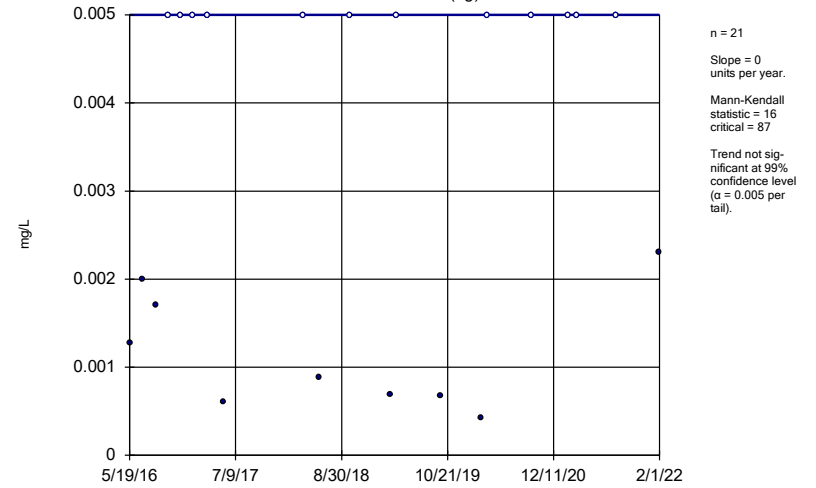
HGWA-1 (bg)



Constituent: Arsenic Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

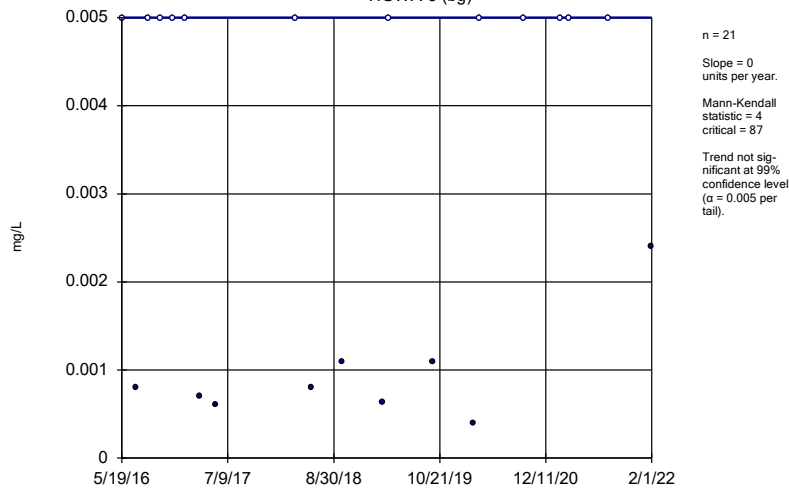
HGWA-2 (bg)



Constituent: Arsenic Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

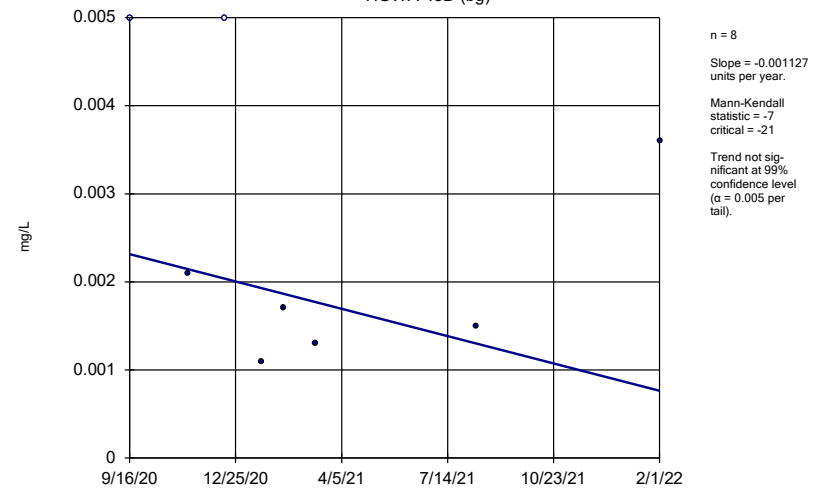
HGWA-3 (bg)



Constituent: Arsenic Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

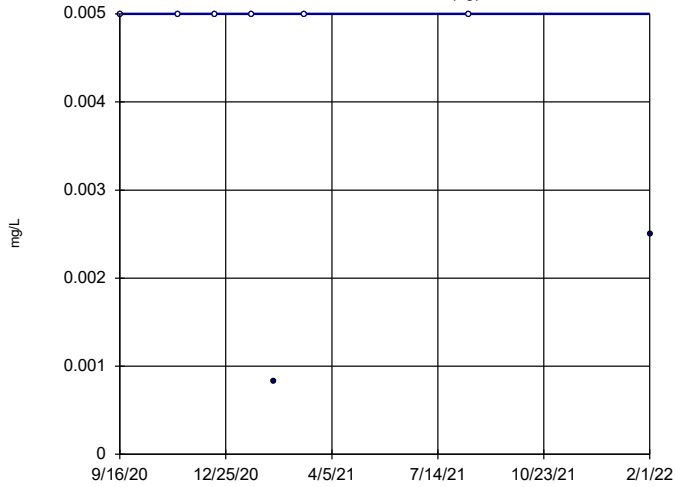
HGWA-43D (bg)



Constituent: Arsenic Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-44D (bg)

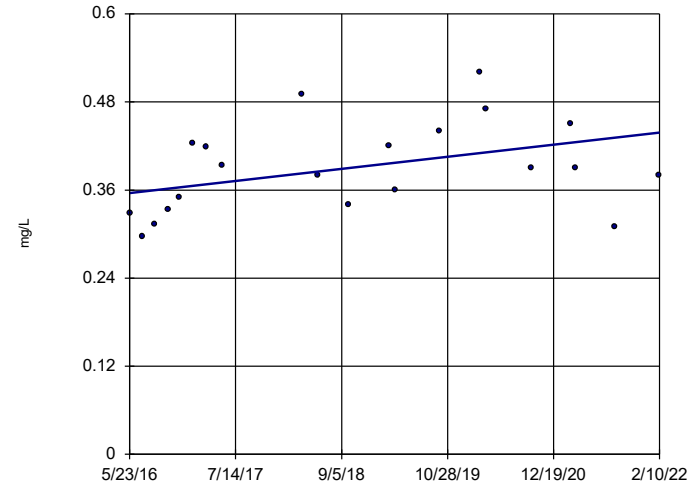


n = 8
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -7
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Arsenic Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-13

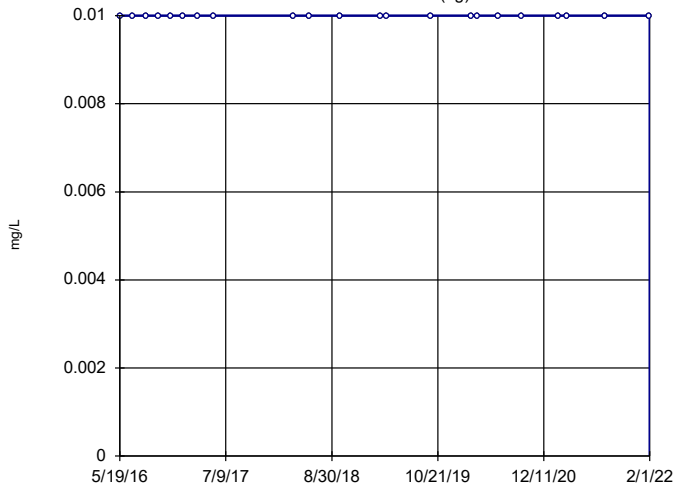


n = 21
 Slope = 0.0144
 units per year.
 Mann-Kendall
 statistic = 58
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Arsenic Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-1 (bg)

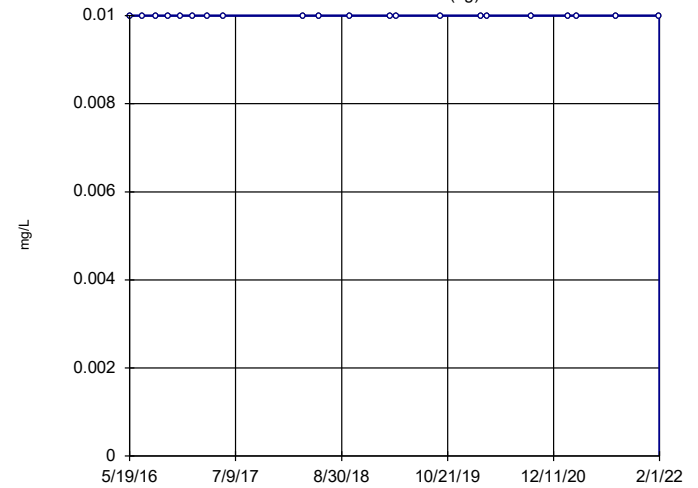


n = 22
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 92
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Molybdenum Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-2 (bg)

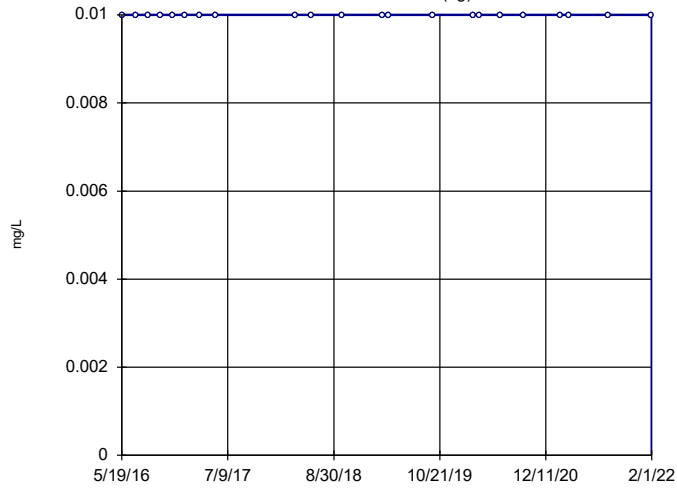


n = 21
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 87
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Molybdenum Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests
 Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-3 (bg)

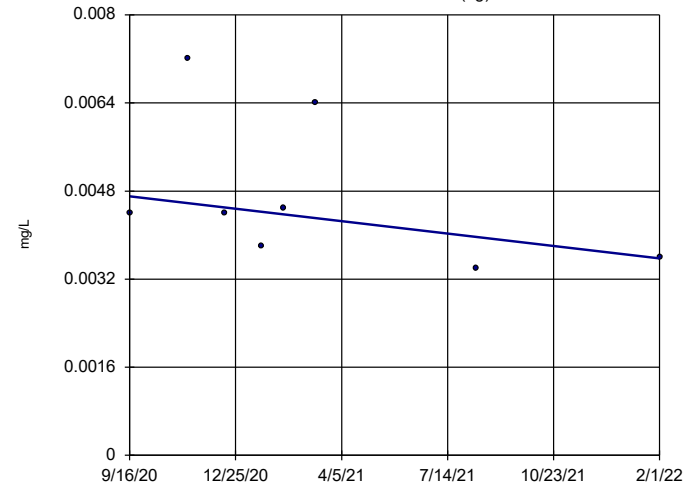


n = 22
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Molybdenum Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-43D (bg)

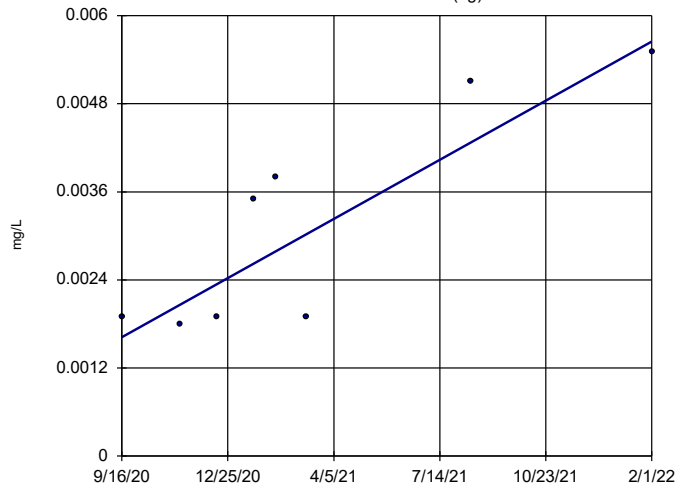


n = 8
Slope = -0.0008179
units per year.
Mann-Kendall
statistic = -9
critical = -21
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Molybdenum Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWA-44D (bg)

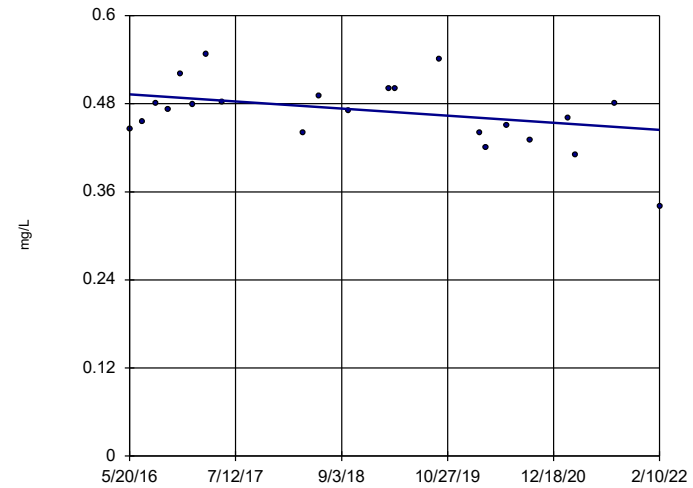


n = 8
Slope = 0.002925
units per year.
Mann-Kendall
statistic = 19
critical = 21
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Molybdenum Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sen's Slope Estimator

HGWC-8



n = 22
Slope = -0.00841
units per year.
Mann-Kendall
statistic = -55
critical = -92
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Molybdenum Analysis Run 4/28/2022 9:19 AM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

APPENDIX D

Alternate Source Demonstration – Lithium, Georgia Power Company, Plant Hammond Ash Pond 1



Prepared for

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

ALTERNATE SOURCE DEMONSTRATION – LITHIUM

PLANT HAMMOND ASH POND 1

Prepared by

Geosyntec 
consultants

engineers | scientists | innovators

1255 Roberts Boulevard, Suite 200
Kennesaw, Georgia 30144

Project Number GW6581B

August 2022



ALTERNATE SOURCE DEMONSTRATION – LITHIUM

Plant Hammond
Ash Pond 1 (AP-1)

August 31, 2022

A handwritten signature in blue ink, appearing to read "Kip Gray".

Kip Gray, Ph.D.
Project Engineer

A handwritten signature in blue ink, appearing to read "Whitney Law".

Whitney Law, P.E.
Project Manager

Certification Statement

**Alternate Source Demonstration – Lithium
Plant Hammond
Ash Pond 1
August 31, 2022**

This *Alternate Source Demonstration – Lithium, Plant Hammond Ash Pond 1 (AP-1)* has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule [40 Code of Federal Regulations 257 Subpart D], specifically 257.95(g)(3)(ii), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10(6), by a qualified groundwater scientist or engineer with Geosyntec Consultants. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g).



Whitney B. Law
Georgia Professional Engineer No. 36641

August 31, 2022

Date

TABLE OF CONTENTS

1.	INTRODUCTION	1
1.1	Purpose	1
1.2	Summary of ASD	1
1.3	Site Description	2
1.3.1	Operations	2
1.3.2	Geology and Hydrogeology	2
1.4	Groundwater Monitoring and Basis of Statistically Significant Levels	3
2.	ALTERNATE SOURCE DEMONSTRATION.....	5
2.1	Historical Compliance With Background-based GWPS	5
2.2	Geochemical Composition of Liquid Samples.....	5
3.	CONCLUSIONS	8
4.	REFERENCES	9

LIST OF TABLES

Table 1	Monitoring Well Network Summary
Table 2	Summary of Lithium Groundwater Protection Standard
Table 3	Summary of Groundwater and Pore Water Analytical Data
Table 4	Summary of Low-flow Sampling Drawdown

LIST OF FIGURES

Figure 1	Site Location Map
Figure 2	Monitoring Well Network and Sampling Location Map
Figure 3	MW-25D Lithium Confidence Intervals
Figure 4	Piper Trilinear Plot
Figure 5	Stiff Diagrams

LIST OF APPENDICES

Appendix A	Boring and Well Construction Logs for HGWC-11, HGWC-12, MW-25D, and HGWA-44D
Appendix B	February 2022 Field Purge Logs for HGWA-1, HGWA-2, HGWA-3, HGWA-43D, HGWA-44D, HGWC-11, HGWC-12, and MW-25D

LIST OF ACRONYMS AND ABBREVIATIONS

ACM	assessment of corrective measures
AP-1	ash pond 1
As	arsenic
ASD	Alternate Source Demonstration
Ca	calcium
CCR	Coal Combustion Residual
CSM	conceptual site model
CFR	Code of Federal Regulations
Cl	chloride
GA EPD	Georgia Environmental Protection Division
GA-20	Georgia Highway 20
Georgia Power	Georgia Power Company
Geosyntec	Geosyntec Consultants, Inc.
Golder	Golder Associates, Inc.
GWPS	groundwater protection standard
HCO ₃	bicarbonate alkalinity
K	potassium
Li	lithium
MCL	maximum contaminant level
Mg	magnesium
mg/L	milligram per liter
Mo	molybdenum
Na	sodium
SSL	statistically significant level
SO ₄	sulfate
USEPA	United States Environmental Protection Agency

1. INTRODUCTION

1.1 Purpose

This document presents an alternate source demonstration (ASD) for the statistically significant levels (SSLs) of lithium (Li) detected in delineation well MW-25D associated with the coal combustion residual (CCR) unit Ash Pond 1 (AP-1) located at Georgia Power Company (Georgia Power) Plant Hammond (Site). Statistically significant levels of Li at MW-25D were first determined to be above Groundwater Protection Standards (GWPS) based on statistical evaluations of the groundwater quality data for samples obtained during assessment monitoring activities conducted through March 2020 (Geosyntec, 2020) and reported to the Georgia Environmental Protection Division (GA EPD) on August 31, 2020. This ASD has been prepared pursuant to Georgia regulations per Rule 391-3-4-.10(6) of the Georgia Administrative Code, which incorporates Title 40 Code of Federal Regulations (CFR) Part 257 Subpart D (the Federal CCR Rule), specifically 40 CFR 257.95(g)(3)(ii) by reference, which allows the owner or operator to “demonstrate that a source other than the CCR unit caused the contamination, or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.”

1.2 Summary of ASD

Concentrations of Li observed at MW-25D do not originate from AP-1 and are similar to background concentrations observed HGWA-44D, caused by natural variation in deep groundwater at the Site. This ASD provides the following lines of evidence in support of this conclusion:

- Li concentrations in groundwater are greater in background compliance wells than either AP-1 pore water or shallow downgradient compliance monitoring and delineation wells.
- Geochemical evaluations using Piper and Stiff diagrams indicate that the chemical composition of groundwater sampled from MW-25D shows no evidence of a CCR impact and is similar to other deep slow recharge wells screened in bedrock. Longer residence times in slow recharge wells, evidenced by large drawdowns during low-flow sampling, leads to dissolution of solutes into the water (USGS, 2019) that results in a distinct geochemical signature.

- Statistical analysis of the January/February 2022 data incorporated new Li data from background compliance well HGWA-44D, which raised the GWPS from 0.034 mg/L to 0.048 mg/L. Using the updated background data set, Li at MW-25D was not identified as an SSL. Furthermore, when compared to the current GWPS, confidence intervals for Li in MW-25D have never exceeded observed background concentrations in HGWA-44D.

1.3 Site Description

1.3.1 Operations

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

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

AP-1 is a 35-acre surface impoundment located at Plant Hammond that received CCR materials from its commission in 1952 until 1969. After 1969, AP-1 was utilized as a co-treatment pond to handle return water flows from the other ponds and for recycling of process water for plant operations. Closure activities in accordance with §257.100 were initiated in April 2022 in accordance with Closure permit No. 057-023D(CCR), which was issued by GA EPD on June 22, 2020. Closure construction activities for AP-1 consist of closure by removal.

1.3.2 Geology and Hydrogeology

1.3.2.1 Geology

The Site is located within the Great Valley District of the Valley and Ridge Physiographic Province (Valley and Ridge) in northwest Georgia, which is characterized by Paleozoic sedimentary rocks that have been folded and faulted into the ridges and valleys that gave this region its name. Geologic mapping performed at the Site by Petrologic Solutions, Inc. under the direction of Golder Associates Inc. (Golder, 2018) indicates that AP-1 is underlain by the middle units of the Cambrian age Conasauga Formation, consisting of mostly shaley limestone. AP-1 is underlain primarily by five units: (i) fill, (ii) terrace

alluvium, (iii) residuum, (iv) highly weathered/fractured shaley limestone bedrock, and (v) competent shaley limestone bedrock. The limestone is described as medium to dark gray, very finely laminated with lighter and darker gray layers, and contains interbeds of calcareous shale. MW-25D is completely screened within the competent shaley limestone bedrock.

1.3.2.2 Hydrogeology

The uppermost aquifer at AP-1 is a regional groundwater aquifer that occurs in the terrace alluvium, residuum, and the weathered and fractured bedrock. The uppermost aquifer is considered to be unconfined; however, localized, semi-confined conditions may be encountered due to the low-permeability clayey nature of the residual soils, or as a result of perched groundwater or poorly interconnected fracture networks in the bedrock. Based on observations of soil types and horizontal conductivity values, the movement of groundwater in the soil, and to some degree the highly weathered bedrock zone, can be characterized as low-to moderate permeability, porous media flow. Groundwater flow in the more competent underlying bedrock is characterized as fracture flow. Groundwater flow in the vicinity of AP-1 is to the east and south (Geosyntec, 2022).

1.4 Groundwater Monitoring and Basis of Statistically Significant Levels

Georgia Power initiated the assessment monitoring program at AP-1 in January 2018, followed with the initiation of an assessment of corrective measures (ACM) program in January 2019 due to the identification of SSLs of molybdenum (Mo) and arsenic (As) above established GWPS at several compliance monitoring wells. Pursuant to § 257.96, groundwater in the vicinity of AP-1 continues to be monitored in accordance with the established assessment monitoring program while ACM efforts are implemented.

Since initiation of ACM activities, additional groundwater monitoring wells have been installed to provide data to characterize upgradient and downgradient groundwater conditions at AP-1. The groundwater monitoring well network is shown on **Figure 2**; **Table 1** provides well construction details.

MW-25D was installed to vertically delineate Mo in HGWC-11 and HGWC-12 after SSLs of Mo were identified above the state GWPS¹ in these two wells. As shown in

¹ Prior to February 22, 2022, the state GWPS for Mo was equal to Site-specific background concentrations (0.010 milligrams per liter [mg/L]) under GA EPD Rules for Solid Waste Management

Table 1 and the boring logs presented in **Appendix A**, MW-25D was installed in a deeper lithological zone compared to HGWC-11 and HGWC-12.

As stated in Section 1.1, SSLs of Li in excess of the GWPS were identified based on statistical analysis of groundwater data collected through the March 2020 semiannual assessment monitoring event (Geosyntec, 2020). The state and federal GWPS established for the event were 0.03 mg/L and 0.04 mg/L, respectively. In August 2020, compliance monitoring well HGWC-44D was installed within the bedrock to characterize background conditions at a deeper bedrock interval than other existing background wells upgradient of AP-1 (boring log provided in **Appendix A**). In January 2021, Li was detected in HGWC-44D at concentrations higher than the state GWPS (Geosyntec, 2021b). Pursuant to § 257.95(h), the state GWPS was revised to 0.034 mg/L based on background concentrations. The Li GWPS was revised again following the January/February 2022 semiannual assessment monitoring event; statistical analysis of the background Li concentrations established a new background-based GWPS of 0.048 mg/L (Geosyntec, 2022). In accordance with § 257.95(h)², the background level is established as the GWPS when the background level is higher than the MCL or CCR-rule specified level (0.04 mg/L). The AP-1 Li GWPS is summarized in **Table 2**.

391-3-4-.10. The federal GWPS were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022. As a result of this, SSLs of Mo above the GWPS (0.10 mg/L) are no longer identified in HGWC-11 and HGWC-12.

² In accordance with §257.95(h), the GWPS is defined as: (i) the maximum contaminant level (MCL) established under §141.62 and §141.66; (ii) the CCR-rule specified level where an MCL has not been established for a constituent; and (iii) the background level when the background level is higher than the MCL or CCR-rule specified level.

2. ALTERNATE SOURCE DEMONSTRATION

The following subsections provide lines of evidence that SSLs of Li at MW-25D i) have never exceeded the current GWPS, and ii) are associated with natural variation in groundwater quality and not AP-1.

2.1 Historical Compliance With Background-based GWPS

Statistical analysis of January/February 2022 data incorporated new Li data from background compliance well HGWA-44D, which raised the GWPS from 0.034 mg/L to 0.048 mg/L. Using the updated background data set, Li at MW-25D was not identified as an SSL, as shown in **Table 2**. As shown on **Figure 3**, all previously identified SSLs of Li at MW-25D comply with the updated GWPS. Furthermore, the updated background-based Li GWPS is above the maximum observed Li concentration in pore water³, as well as Li concentrations reported in downgradient shallow compliance and delineation wells.

MW-25D Li groundwater data obtained from the January/February 2022 semiannual assessment monitoring event were statistically analyzed in accordance with the Professional Engineer-certified (PE-certified) Statistical Analysis Method Certification (October 2017, revised January 2020). Statistical analysis and associated results are discussed in detail in semiannual groundwater monitoring reports, the most recent being *2022 Semiannual Groundwater Monitoring and Corrective Action Report – Plant Hammond Ash Pond 1 (AP-1)* (Geosyntec, 2022).

2.2 Geochemical Composition of Liquid Samples

The chemical characteristics of select background and downgradient monitoring wells are summarized in **Table 3**, which also includes data from pore water piezometers PMW-01 and PMW-02 installed within CCR materials in AP-1. In addition to Appendix III and Appendix IV constituents, **Table 3** includes concentrations of major cations (calcium [Ca], magnesium [Mg], potassium [K], and sodium [Na]) and major anions (chloride [Cl], sulfate [SO₄], and bicarbonate alkalinity [HCO₃]) as well as iron, manganese, sulfide, and field parameters measured during sample collection. Sampling locations are depicted in **Figure 2**. Note that **Table 3** presents data for the latest full set of supplemental data (i.e., from September 2020) used to develop the Piper and Stiff diagrams, as well the latest Appendix III and Appendix IV groundwater quality data obtained during the January/February 2022 semiannual assessment monitoring event. The September 2020

³ The maximum reported Li concentration in AP-1 pore water is 0.043 mg/L; see **Table 3**.

data were used to evaluate the geochemical composition of the various samples collected from select monitoring locations using Piper and Stiff diagrams.

Piper diagrams are trilinear diagrams that plot the relative contributions of major ions to the overall geochemical makeup of a liquid sample. The diagram has three components. The large diamond-shaped component displays the combined cation and anion composition of major solutes. The two smaller triangular components display the cation components and the anion components, separately and in greater detail. The sample data are plotted as a percentage of the total milliequivalents on the diagram with each component reaching 100 percent at its respective corner of the diagram. If the results from discrete samples plot relatively close to each other, their respective chemical compositions are similar, and they might have a similar (or the same) source of solutes. One can also see mixing of different waters if the samples fall along straight lines between various water types (e.g., mixing of Ca-HCO₃ water, such as derived from carbonate rocks with Ca-SO₄ water, such as derived from gypsum).

Stiff diagrams plot the chemical compositions of each sample as polygons. Similar-shaped polygons for different samples indicate similar geochemical compositions, and they might have a similar (or the same) source of solutes. The relative size of each polygon is an indication of the ionic strength (or “concentration”) of the respective sample.

The resulting Piper diagram is presented as **Figure 4** and the Stiff diagrams are presented as **Figure 5**.

As shown on **Figure 4**, groundwater samples from piezometer MW-1 and background compliance monitoring wells HGWA-1, HGWA-3, and HGWA-43D plot close to each other and represent a chemical composition dominated by Ca-HCO₃ and groundwater unimpacted by the CCR unit. Deep background monitoring well HGWA-44D and delineation well MW-25D represent a mixed Na-(Ca-Mg)-HCO₃ groundwater, distinctly different in geochemical composition from the shallow upper aquifer.

CCR pore water samples from piezometers PMW-01 and PMW-02 are also distinctly different from background groundwater and MW-25D groundwater. Piezometers screened in the CCR unit reflect a pore water chemical composition consisting of Ca-SO₄. Furthermore, MW-25D shows a different chemical signature compared to background wells screened in the shallow aquifer. MW-25D plots on the side of the diamond proximal to background well HGWA-44D which is screened approximately 36

feet deeper than MW-25D. The similarities between MW-25D and HGWA-44D and the dissimilarities to PMW-01 and PMW-02 are also apparent in the Piper diagram.

Figure 5 depicts the Stiff diagrams, organized by ionic strength. The MW-25D sample ionic strength is approximately four times lower than pore water samples and has an ionic composition similar to background samples collected from HGWA-44D.

The difference in the geochemical composition of MW-25D and background well HGWC-44D when compared to other wells in the network is likely due to slower recharge groundwater conditions present in bedrock, as evidenced by drawdown during sampling presented in **Table 4**⁴. Prior to collecting groundwater samples, groundwater is purged at a low flowrate⁵ until field water quality parameters stabilize while monitoring the change in groundwater elevation. The change in groundwater elevation between the initiation and ending of purging and sampling is referred to as drawdown. A large drawdown is typically indicative of a slow recharge, low-producing well.

Shallow wells HGWA-1, HGWA-3, HGWC-11, and HGWC-12 drawdown varied between 0.02 and 0.52 feet while purging at 200 ml/min. Deep well HGWA-43D drawdown was 3.19 ft while purging at 200 mL/min and deep well HGWA-44D drawdown was 1.2 ft while purging at 100 mL/min. MW-25D drawdown was greater (4.62 ft) than the two background bedrock wells while purging at 100 mL/min. These larger drawdowns in deeper wells screened in bedrock are indicative of slower recharge caused by fewer and smaller water-bearing fractures within the deeper bedrock. This is consistent with the conceptual site model (CSM) that indicates variable flow conditions and fewer fractures with depth that may or may not be connected to the uppermost aquifer.

Water collected from low-producing wells has had a longer time to interact with the rock matrix, leading to increased weathering and dissolution of solutes from the formation into the water (USGS, 2019), which results in a distinct geochemical signature. This likely accounts for the elevated levels of Li present at MW-25D, consistent with other deep wells (e.g., HGWA-44D) screened in competent limestone bedrock.

⁴ Purge logs associated with **Table 4** are included in **Appendix B**.

⁵ Typically, 100 to 200 milliliters per minute (ml/min).

3. CONCLUSIONS

The following lines of evidence support the conclusion that the SSLs of Li identified in MW-25D are attributed to natural variation in the groundwater quality and are not due to a release from AP-1.

- Lithium concentrations in groundwater are greater in background compliance wells than either AP-1 pore water or shallow downgradient compliance monitoring and delineation wells.
- Geochemical evaluations using Piper and Stiff diagrams indicate that the chemical composition of groundwater sampled from MW-25D shows no evidence of a CCR impact and is similar to other deep slow recharge wells screened in competent bedrock. The ionic strength of groundwater at MW-25D is approximately four times lower than CCR pore water samples and has an ionic composition and strength similar to background samples collected from HGWA-44D and dissimilar from CCR pore water.
- Statistical analysis of the January/February 2022 data incorporated new Li data from background compliance well HGWA-44D, which raised the GWPS from 0.034 mg/L to 0.048 mg/L. Using the updated background data set, Li at MW-25D was not identified as an SSL. Furthermore, when compared to the current GWPS, confidence intervals for Li in MW-25D have never exceeded observed background concentrations in HGWA-44D.

4. REFERENCES

- Geosyntec, 2019. *Hydrogeologic Assessment Report (Revision 1) – Plant Hammond Ash Pond 1 (AP-1)*. December 2019.
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- Geosyntec, 2021a. *Alternate Source Demonstration – Fluoride, Lithium, Molybdenum, Georgia Power Company, Plant Hammond Ash Pond 1*. January 2021
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TABLES

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

Well ID	Hydraulic Location	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (ft)	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)
Compliance Monitoring Well										
HGWA-1	Upgradient	12/3/2014	1550423.32	1940770.00	592.32	595.21	573.12	563.12	32.49	10
HGWA-2	Upgradient	12/2/2015	1549796.87	1939845.15	585.29	587.92	570.29	560.29	27.95	10
HGWA-3	Upgradient	12/2/2015	1549794.41	1939833.39	585.23	587.74	553.23	543.23	44.51	10
HGWA-43D	Upgradient	8/26/2020	1550422.85	1940753.81	592.08	595.08	544.08	534.08	61.25	10
HGWA-44D	Upgradient	8/25/2020	1550409.13	1940756.19	592.01	594.79	491.76	481.76	113.50	10
HGWC-7	Downgradient	12/3/2015	1549520.67	1942319.75	576.55	579.18	561.55	551.55	27.96	10
HGWC-8	Downgradient	12/8/2015	1549114.61	1942392.56	577.14	579.82	564.64	554.64	25.51	10
HGWC-9	Downgradient	12/9/2015	1548693.30	1942215.03	577.72	580.36	543.72	533.72	46.97	10
HGWC-10	Downgradient	12/8/2015	1548469.25	1941644.43	576.76	579.37	566.76	556.76	22.94	10
HGWC-11	Downgradient	12/15/2015	1548477.91	1941146.79	578.12	580.67	565.19	555.19	25.78	10
HGWC-12	Downgradient	12/9/2015	1548476.53	1941152.34	578.14	580.73	555.64	545.64	35.42	10
HGWC-13	Downgradient	12/10/2015	1548628.03	1940900.60	592.94	595.76	560.94	550.94	45.15	10
Delineation Monitoring Well										
MW-5	Downgradient	11/4/2014	1548436.02	1942448.85	578.00	581.14	560.70	550.70	30.84	10
MW-6	Downgradient	11/4/2014	1548383.12	1941689.01	579.18	581.84	559.28	549.28	32.96	10
MW-7	Downgradient	10/30/2014	1548230.47	1941087.44	574.94	577.73	561.24	551.24	26.89	10
MW-19	Downgradient	9/26/2018	1548422.94	1940943.01	577.46	580.65	561.45	551.45	29.53	10
MW-20	Downgradient	9/27/2018	1549029.68	1942736.85	575.96	579.00	554.96	544.96	34.37	10
MW-24D	Downgradient	11/7/2018	1548638.80	1940900.37	592.91	595.68	532.91	522.91	72.77	10
MW-25D	Downgradient	11/6/2018	1548473.00	1941162.20	577.71	580.59	527.71	517.71	63.21	10
MW-26D	Downgradient	11/14/2018	1548699.91	1942222.36	577.63	580.41	512.63	502.63	78.11	10
MW-27D	Downgradient	11/8/2018	1549103.57	1942390.80	576.84	579.70	526.84	516.84	63.19	10
MW-28D	Downgradient	11/13/2018	1549510.90	1942321.14	576.20	579.08	531.20	521.20	58.21	10
MW-29	Downgradient	11/13/2018	1549437.67	1942633.60	572.14	575.06	557.14	547.14	28.25	10
Piezometer										
AP1A-1	Upgradient	12/15/2015	1550080.01	1941614.12	584.78	587.44	575.84	565.84	21.93	10
MW-1	Upgradient	12/2/2014	1549938.24	1941589.06	585.63	588.66	567.93	557.93	31.06	10
MW-8	Downgradient	10/29/2014	1548171.86	1940016.70	584.25	586.93	565.05	555.05	32.72	10
MW-30D	Downgradient	6/19/2019	1549530.00	1942318.45	576.20	578.59	481.20	471.20	107.72	10
MW-40D	Downgradient	4/29/2020	1549542.29	1942316.55	576.41	578.92	450.41	440.41	138.84	10

Notes:

ft = feet

ft BTOC = feet below top of casing

(1) Coordinates in North American Datum (NAD) 1983, State Plane, Georgia-West, feet. Survey data certified by GEL Solutions May 19, 2020. Survey data for HGWA-43D and HGWA-44D certified by GEL Solutions September 10, 2020.

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

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

Table 2
Summary of Lithium Groundwater Protection Standard
Plant Hammond AP-1, Floyd County, Georgia

Analyte	Units	Background ⁽¹⁾	CCR-Rule Specified Level ⁽²⁾	GWPS ⁽³⁾
Lithium	mg/L	0.048	0.040	0.048 ⁽³⁾

Notes:

GWPS = Groundwater Protection Standard

mg/L = milligrams per liter

- (1) The reported lithium background concentration was measured at HGWA-44D during the January/February 2022 semiannual sampling event. The lithium background concentration was previously 0.034 mg/L.
- (2) In accordance with 40 CFR §257.95(h)(2)(iii).
- (3) Under 40 CFR §257.95(h)(1-3) the GWPS is:
 - (i) the maximum contaminant level (MCL) established under §141.62 and §141.66 of this title;
 - (ii) where an MCL has not been established a CCR-rule specified GWPS is used; or
 - (iii) background concentrations for constituents where the background level is higher than the MCL or CCR-rule specified GWPS.
- 4) No MCL has been established for lithium.
- 5) The GA EPD lithium GWPS was equal to the background level prior to February 22, 2022. On February 22, 2022, GA EPD adopted the USEPA federal GWPS for cobalt, lithium, lead, and molybdenum.

Table 3
Summary of Groundwater and Pore Water Analytical Data
Plant Hammond AP-1, Floyd County, Georgia

Well ID:	Background Groundwater										Downgradient Groundwater						CCR Pore Water		
	HGWA-1	HGWA-1	HGWA-3	HGWA-3	HGWA-43D	HGWA-43D	HGWA-44D	HGWA-44D	MW-1	HGWC-11	HGWC-11	HGWC-12	HGWC-12	MW-25D	MW-25D	PMW-01	PMW-02		
Sample Date:	9/15/2020	2/1/2022	9/15/2020	2/1/2022	9/16/2020	2/1/2022	9/16/2020	2/1/2022	6/16/2020	9/18/2020	2/9/2022	9/18/2020	2/9/2022	9/18/2020	2/9/2022	4/9/2020	4/9/2020		
Parameter ^(1,2,3)	Units																		
Appendix III	Boron	mg/L	0.017 J	0.016 J	0.0071 J	0.011 J	0.061 J	0.050	0.23	0.44	0.19	0.91	1.0	1.6	2.0	0.36	0.43	1.7	3.2
	Calcium	mg/L	103	106	73.1	85.1	56	55.9	30	24.8	157	122	144	163	172	25.1	23.5	577	258
	Chloride	mg/L	13.4	7.5	6	5.7	4.1	4.1	7.2	44.8	29.6	34.9	20.4	74.6	46.8	33.4	26.5	69.5	72.7
	Fluoride	mg/L	0.082 J	0.064 J	<0.05	<0.050	0.22	0.19	0.52	0.96	0.2	0.15	0.20	0.15	0.20	1.6	1.7	0.31	0.82
	pH	S.U.	7.15	7.19	7.29	7.45	7.52	7.52	7.83	8.25	6.86	6.41	6.55	7.15	7.23	7.64	7.82	6.58	7.4
	Sulfate	mg/L	47.3	43.7	44.7	46.0	43	37.5	6.9	56.3	114	272	276	266	252	27.4	1.7	1160	454
	TDS	mg/L	265	270	258	350	272	156	270	444	653	626	544	704	678	382	364	2170	1090
Appendix IV	Antimony	mg/L	<0.00028	<0.00078	<0.00028	<0.00078	0.00051 J	<0.00078	0.00049 J	0.0013 J	-	0.00038 J	<0.00078	<0.00028	<0.00078	<0.00028	<0.00078	<0.00027	0.00054 J
	Arsenic	mg/L	<0.00078	0.0016 J	<0.00078	0.0024 J	<0.00078	0.0036 J	<0.00078	0.0025 J	-	0.00081 J	0.0047 J	0.0031 J	0.0053	<0.00078	<0.0011	0.16	0.72
	Barium	mg/L	0.035	0.031	0.12	0.12	0.26	0.29	0.24	0.23	-	0.043	0.042	0.086	0.075	0.44	0.60	0.056	0.16
	Beryllium	mg/L	<0.000046	<0.000054	<0.000046	<0.000054	<0.000046	<0.000054	<0.000046	<0.000054	-	<0.000046	<0.000054	<0.000046	<0.000054	<0.000046	<0.000054	<0.000074	<0.000074
	Cadmium	mg/L	<0.00012	<0.00011	<0.00012	<0.00011	<0.00012	<0.00011	<0.00012	<0.00011	-	<0.00012	<0.00011	<0.00012	<0.00011	<0.00012	<0.00011	<0.00011	<0.00011
	Chromium	mg/L	<0.00055	<0.0011	<0.00055	<0.0011	<0.00055	<0.0011	0.0012 J	0.0013 J	-	<0.00055	<0.0011	0.00091 J	<0.0011	<0.00055	<0.0011	<0.00039	<0.00039
	Cobalt	mg/L	<0.00038	<0.00039	<0.00038	<0.00039	<0.00038	<0.00039	<0.00038	<0.00039	-	<0.00038	<0.00039	0.0014 J	0.0013 J	<0.00038	<0.00039	0.00056 J	<0.0003
	Fluoride	mg/L	0.082 J	0.064 J	<0.05	<0.050	0.22	0.19	0.52	0.96	0.2	0.15	0.20	0.15	0.20	1.6	1.7	0.31	0.82
	Lead	mg/L	<0.00036	<0.00089	0.00042 J	<0.00089	0.00005 J	<0.00089	0.00021 J	<0.00089	-	0.00006 J	<0.00089	0.000096 J	<0.00089	<0.00036	<0.00089	<0.00046	0.00053 J
	Lithium	mg/L	0.00087 J	0.0011 J	0.0026 J	0.0037 J	0.0018 J	0.0018 J	0.014 J	0.048	-	<0.00081	<0.00073	0.01 J	0.010 J	0.046	0.048	0.043	0.018 J
	Mercury	mg/L	-	<0.00013	-	<0.00013	<0.00078	<0.00013	<0.00078	<0.00013	-	-	<0.00013	-	<0.00013	-	<0.00013	<0.00014	<0.00014
	Molybdenum	mg/L	<0.00069	<0.00074	<0.00069	<0.00074	0.0044 J	0.0036 J	0.0019 J	0.0055 J	<0.00095	0.032	0.03	0.046	0.042	0.00094 J	<0.00074	0.0057 J	0.05
	Comb. Radium 226/228	pCi/L	0.748 U	0.143 U	0.161 U	0.266 U	0.531 U	1.12	0.422 U	0.665 U	-	1.24 U	0.444 U	0.916 U	0.564 U	1.17 U	0.754 U	1.03 U	0.352 U
	Selenium	mg/L	<0.0016	<0.0014	<0.0016	<0.0014	<0.0016	<0.0014	<0.0016	<0.0014	-	0.0042 J	0.0035 J	<0.0016	<0.0014	<0.0016	<0.0014	<0.0016	<0.0013
	Thallium	mg/L	<0.00014	<0.00018	<0.00014	<0.00018	<0.00014	<0.00018	<0.00014	<0.00018	-	<0.00014	<0.00018	<0.00014	<0.00018	<0.00014	<0.00018	0.00023 J	0.00059 J
Geochemical Parameters	Alkalinity (Bicarbonate as CaCO ₃)	mg/L	307	-	187	-	251	-	294	-	376	91.6	-	172	-	288	-	185	236
	Alkalinity (Carbonate as CaCO ₃)	mg/L	<5	-	<5	-	<5	-	<5	-	<5	<5	-	<5	-	<5	-	-	-
	Alkalinity (total) as CaCO ₃	mg/L	307	-	187	-	251	-	294	-	376	91.6	-	172	-	288	-	-	-
	Dissolved Organic Carbon	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Nitrogen (Total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Sodium	mg/L	21.1	-	4.9	-	14	-	50.3	-	12.5	5.5	-	9.4	-	103	-	17.1	43.7
	Sulfide	mg/L	<0.05	-	<0.05	-	<0.05	-	0.11	-	<0.05	<0.05	-	<0.05	-	2.9	-	<0.05	<0.05
	Iron	mg/L	0.087	-	0.26	-	0.02 J	-	0.42	-	0.78	<0.016	-	0.083	-	0.088	-	15.5	0.95
	Magnesium	mg/L	4.3	-	4.6	-	18.3	-	15.1	-	23.7	16.2	-	17.3	-	8.3	-	57.4	25.6
	Manganese	mg/L	0.18	-	0.22	-	0.01 J	-	0.02 J	-	0.36	0.017 J	-	2	-	0.04 J	-	9.8	1.1
Phosphorus	mg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Potassium	mg/L	0.34	-	0.46	-	0.97	-	3.2	-	0.39	3.7	-	7.2	-	0.42	-	8.7	8.1	
Field Parameters	DO	mg/L	0.74	0.5575	0.19	0.4778	3.55	0.1129	0.31	12.14	0.09	0.58	0.5178	0.17	0.7796	0.13	0.9878	-	-
	Oxidation-reduction potential	mV	42.92	-1.355	117.4	139.6	126.2	-107.5	77.43	-20.79	88.95	143.4	73.75	113.8	4.729	19.18	-165.6	-	-
	Temp	°C	18.57	17.41	19.73	17.16	19.59	17.27	19.1	16.83	20.47	23.86	16.74	20.78	18.39	23.21	18.92	-	-
	EC (field)	µS/cm	637.8	582.2	433.8	235.3	490.5	463	484.7	795.3	908.9	839.2	847.1	1043	997.9	628.6	616.9	-	-
	Turbidity	NTU	2.15	0.4	1.39	2.85	2	1.63	4.93	4.25	2.91	0.42	1.06	4.8	0.48	0.56	0.99	-	-

Notes:
 - = Parameter was not analyzed
 < = Indicates the parameter was not detected above the analytical method detection limit (MDL).
 J = Indicates the parameter was estimated and detected between the MDL and the reporting limit (RL).
 TDS = Total dissolved solids
 U = Indicates the parameter was not detected above the analytical minimum detectable concentration (MDC) (Specific to combined radium 226/228).
 U* = Indicates the parameter should be considered "not-detected" because it was detected in an associated blank at a similar level
 (1) Metals were analyzed by EPA Method 6020B, anions were analyzed by EPA Method 300.0, and TDS was analyzed by SM2540C.
 (2) The pH value presented was recorded at the time of sample collection in the field.
 (3) Combined radium-226 and -228 is the Appendix IV parameter per 40 CFR 257 Subpart D

Table 4
 Summary of Low-flow Sampling Drawdown
 Plant Hammond AP-1, Floyd County, Georgia

Well ID	Screened Aquifer	Purge Flowrate (mL/min)	Maximum Drawdown (ft)
HGWA-1	Highly Weathered Limestone	200	0.52
HGWA-2	Terrace Alluvium	200	0.14
HGWA-3	Highly Weathered Limestone	200	0.02
HGWA-43D	Competent Limestone	200	3.19
HGWA-44D	Competent Limestone	100	1.20
HGWC-11	Residuum/Highly Weathered Limestone	200	0.14
HGWC-12	Residuum/Highly Weathered Limestone	200	0.05
MW-25D	Competent Limestone	100	4.62

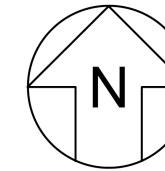
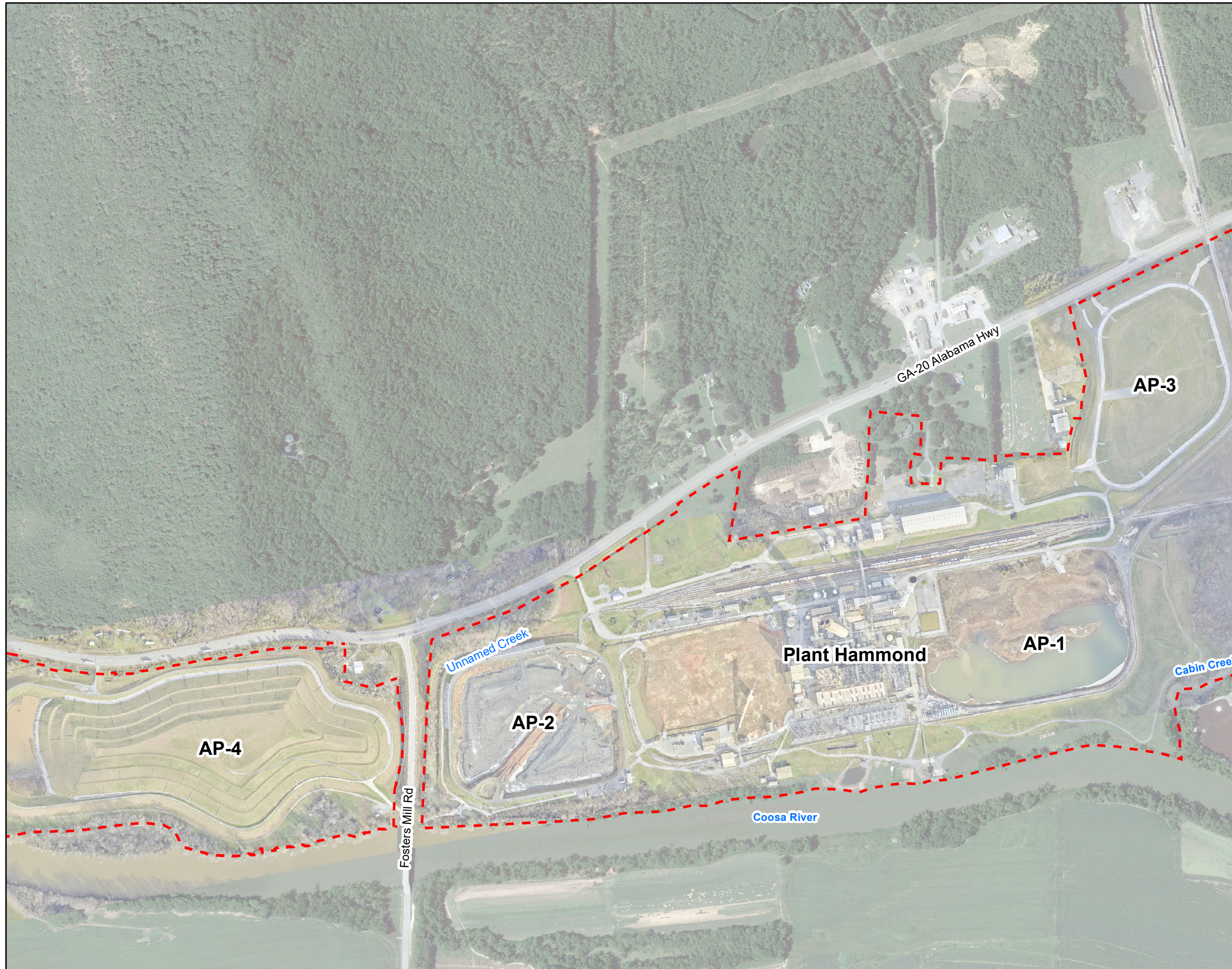
Notes:

ft = feet

mL/min = milliliter per minute

(1) Reported flowrates and drawdowns are from the February 2022 semiannual sampling event.

FIGURES



LEGEND

Plant Hammond Property Boundary



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



SITE LOCATION MAP

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

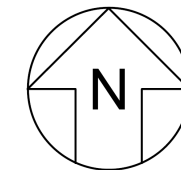
Prepared For: Georgia Power

Prepared By: Geosyntec
consultants

KENNESAW, GA

AUGUST 2022

FIGURE
1



LEGEND

- Compliance Monitoring Well
- Horizontal Delineation Well
- Vertical Delineation Well
- Piezometer
- Surface Water Level Gauge Point
- Pore Water Sampling Location
- Approximate AP-1
- Plant Hammond Property Boundary

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



SCALE IN FEET

MONITORING WELL NETWORK AND SAMPLING LOCATION MAP

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

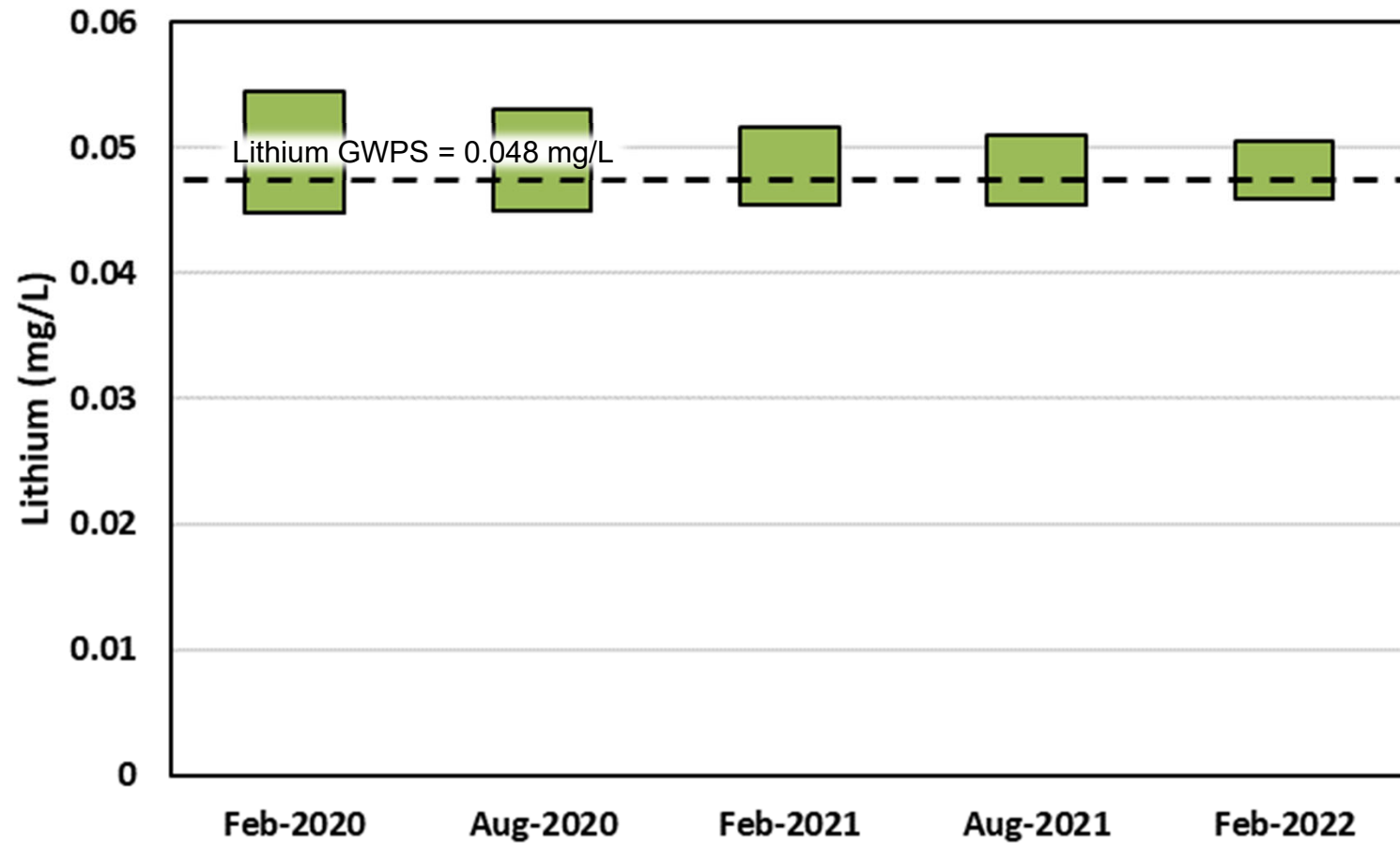
Prepared For: Georgia Power

Prepared By: Geosyntec consultants

KENNESAW, GA

AUGUST 2022

FIGURE 2



Notes:

1. MW-25D lithium confidence interval were previously calculated in Sanitas™ and are reported in semiannual groundwater monitoring reports.
2. The well/constituent pair is considered to exceed its GWPS only when the entire confidence interval is above the Groundwater Protection Standard (GWPS).
3. The lithium (Li) GWPS is 0.048 milligrams per liter (mg/L) based on background levels of Li and in accordance with Title 40 Code of Federal Regulations (CFR) §257.95(h). Prior to the February 2022 semiannual sampling event the Li GWPS was 0.040 mg/L.

MW-25D LITHIUM CONFIDENCE INTERVALS

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

Prepared For:

Prepared By:

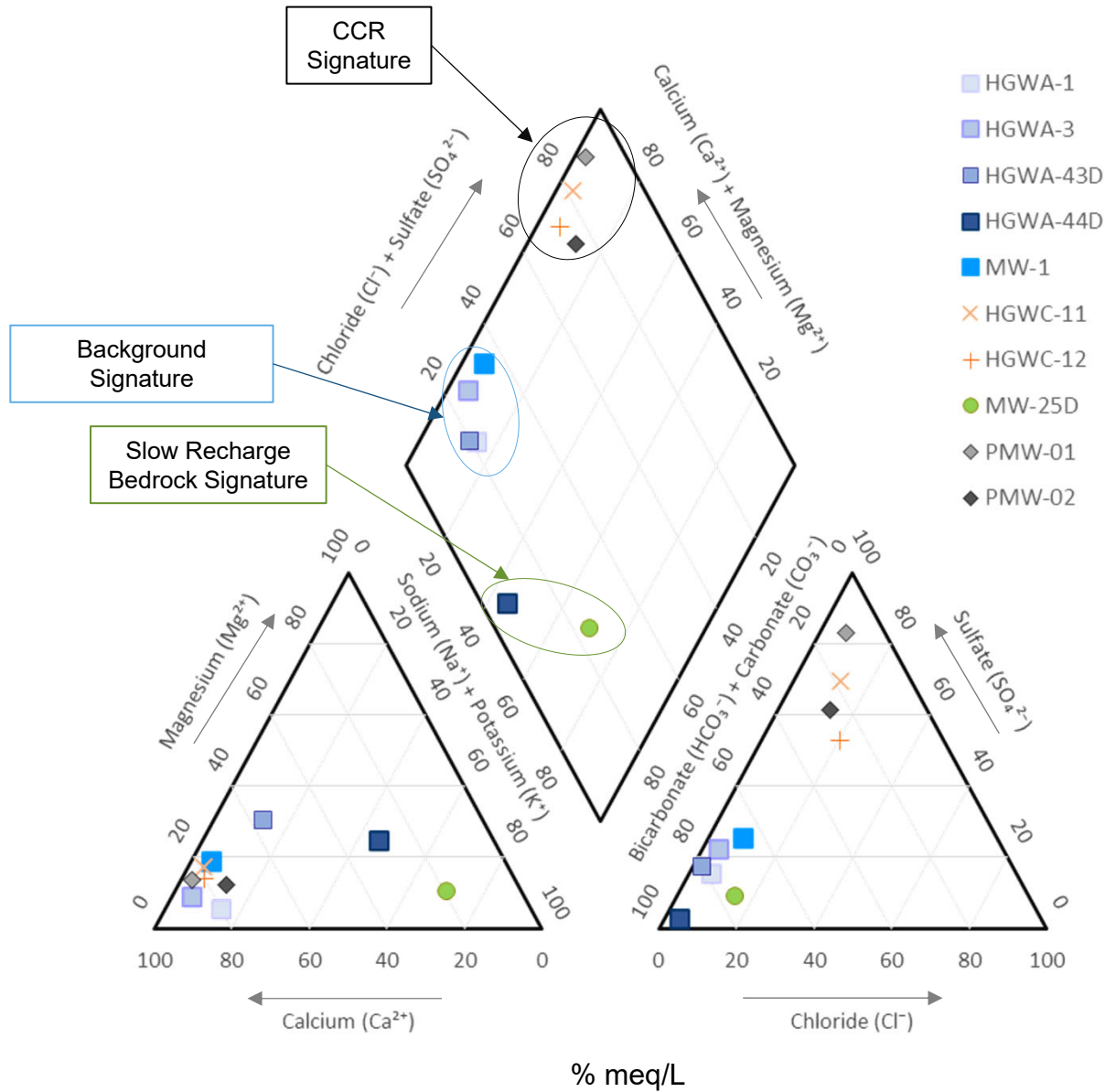


KENNESAW, GA

AUGUST 2022

Figure

3



Notes:

1. Sample results are shown in relative percentage of milliequivalents per liter of water (meq/L).
2. Upgradient wells are displayed in blue and Coal Combustion Residual (CCR) pore water samples are displayed in gray.
3. Groundwater samples were collected in September 2020. CCR pore water samples were collected in April 2020.

PIPER TRILINEAR PLOT

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

Prepared For:

Prepared By:

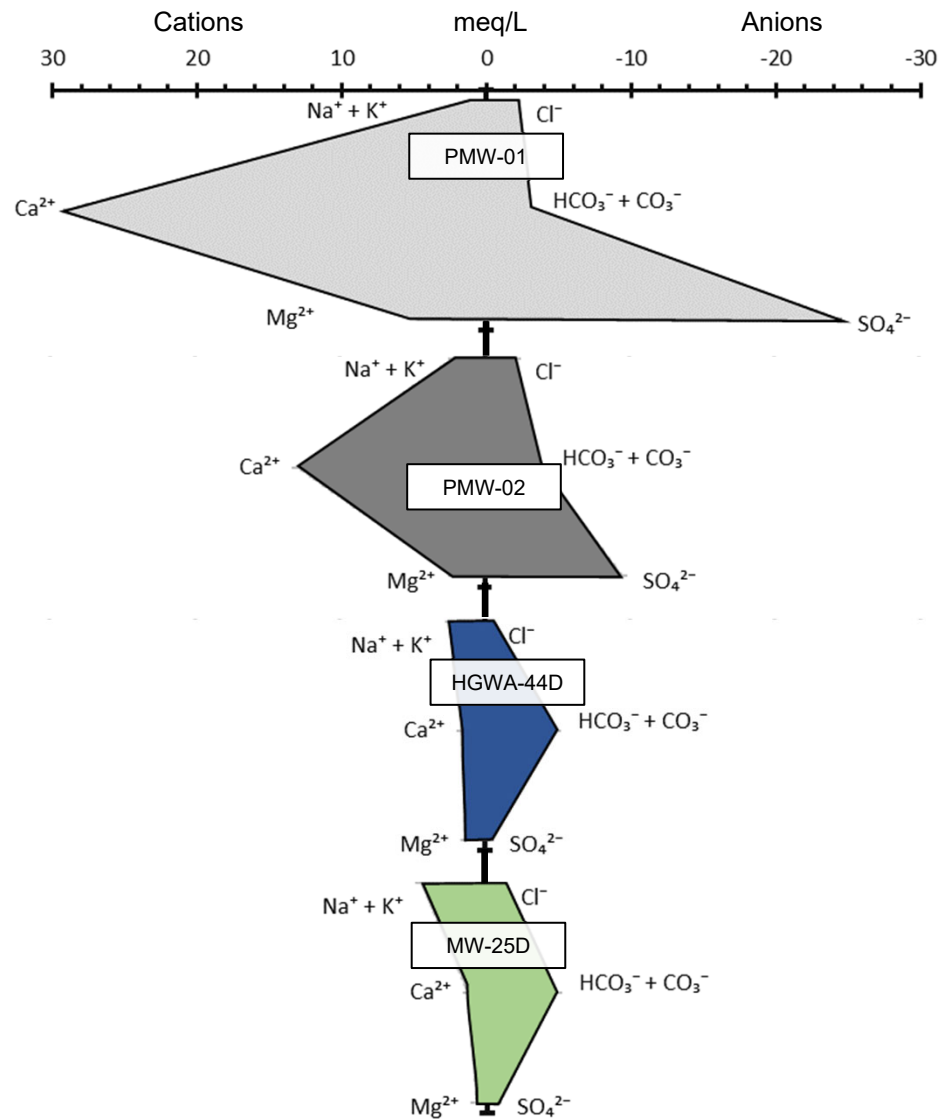


Figure

4

KENNESAW, GA

AUGUST 2022



Notes:

1. Sample results are shown in milliequivalents per liter of water (meq/L).
2. Groundwater samples were collected in September 2020 and Coal Combustion Residual (CCR) pore water samples were collected in April 2020.

STIFF DIAGRAMS

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

Prepared For:

Prepared By:



KENNESAW, GA

AUGUST 2022

Figure

5

APPENDIX A
Boring and Well Construction Logs for
HGWC-11, HGWC-12, MW-25D, and
HGWA-44D

Log updated with revised survey certified 5/19/2020.

DRILLING LOG						Hole No. HGWC-11	
GEOLOGICAL SERVICES						Sheet 1 of 1	
SITE Plant Hammond			HOLE DEPTH 40'	SURF.ELEV. 578.12			
LOCATION Pond 1 South			COORDINATES N 1548477.91	E 1941146.79			
ANGLE _____	BEARING _____	CONTRACTOR SCS	DRILL NO. _____				
DRILLING METHOD Sonic		NO. SAMPLES _____	NO. U.D. SAMPLES 0				
CASING SIZE 2"	LENGTH _____	CORE SIZE _____	TOTAL % REC. 93				
WATER TABLE DEPTH 9.5' BLS		ELEV. 732.1' NAVD88	TIME AFTER COMP. 10.5	DATE TAKEN 12/15/2015			
TYPE GROUT _____		QUANTITY _____	MIX _____	DRILLING START DATE 12/15/2015			
DRILLER Tommy (Casca	RECORDER J. Abraham	APPROVED _____	DRILLING COMP. DATE 12/15/2015				

Depth	Elev.	Material Description, Classification and Remarks	Sample No.	Standard Penetration Test			Comments	% Rec	RQD
				From To	Blows	N			
0	578.12	CLAY OVERBURDEN: Dark brown to black clay with minor silt, dry, non-plastic, organic material with roots.							
1									
2									
3	575.12								
4		CLAY OVERBURDEN: Dark brown to black fat clay, dry to moist, low plasticity, blocky texture.					90		
5									
6	572.12								
7		CLAYEY SAND OVERBURDEN: Reddish brown sand, fine dry to moist, low plasticity, blocky texture.							
8	570.12								
9		CLAYEY SAND OVERBURDEN: Reddish brown sand, fine minor gravel, dry to moist, low plasticity.					90		
10									
11	567.12								
12		CLAYEY SAND OVERBURDEN: Reddish brown sand, fine minor gravel, moist, non-plastic.							
13	565.12								
14		CLAY OVERBURDEN: Orange to brown clay, saturated					85		
15									
16	562.12								
17		CLAY OVERBURDEN: Orange to brown clay, saturated trace limestone fragments; shaly limestone.							
18									
19		SHALE-LIMESTONE					85		
20									
21	567.12	END DRILLING							
22									
23									
24									

WELL CONSTRUCTION LOG

Southern Company Generation

PROJECT: Plant Hammond	DRILLING CO.: Cascade	WELL NAME
CCB Storage Facility	DRILLER: Tommy	HGWC-11
LOCATION: AP-1	RIG TYPE: Sonic	
LOGGER: Abraham	DRILLING METHODS: Sonic	
DATE CONSTRUCTED: 12/15/2015		

	DEPTH FEET	ELEVATION FT, MSL	
Locking Hinged Top 1/4-inch Vent 1/4-inch Weep Hole 6-ft x 6-ft x 4" concrete pad 	TOP OF RISER	-3.08	580.67
			2" Threaded Riser Cap Pea Gravel in annular space
	GROUND SURFACE	0.00	577.59
			PROTECTIVE CASING SIZE: 4x4-inch TYPE: Anodized Aluminum
	BOTTOM OF PROTECTIVE CASING	3.00	
			BACKFILL MATERIAL TYPE: Bentomite Grout mix AMOUNT: 2 x 50lbs
			RISER CASING DIA: 2-inch TYPE: Schedule 40 PVC JOINT TYPE: Flush Threaded
	TOP OF SEAL	8.10	569.49
			ANNULAR SEAL TYPE: 1/4-inch coated bentonite pellets 5-gal buckets AMOUNT: 0.5 bucket PLACEMENT: Tremie
	TOP OF FILTER PACK	10.10	567.49
			FILTER PACK TYPE: DSI Sand - 1A (20/30) Drillers Services, Inc. AMOUNT: 6 bags PLACEMENT: Tremie; wash with water
	BOTTOM OF RISER / TOP OF SCREEN	12.40	565.19
			SCREEN DIA: 2-inch TYPE: Schedule 40 PVC Prepack OPENING WIDTH: 0.01-inch OPENING TYPE: Slotted SLOT SPACING: 0.25-inch SLOT LENGTH: 1.5-inch
	BOTTOM OF SCREEN	22.40	555.19
	BOTTOM OF CASING	22.70	554.89
			Auger refusal at 20.3-ft
			HOLE DIA: 9"

▼ El. N/A
3/2/2016

RECORD OF BOREHOLE HGWC-12

PROJECT: SCS Hammond
 PROJECT NUMBER: 1545812
 DRILLED DEPTH: 37.00 ft
 LOCATION: Rome, GA

DRILL RIG: Pro Sonic 150
 DATE STARTED: 12/8/15
 DATE COMPLETED: 12/9/15

NORTHING: 1,548,476.53
 EASTING: 1,941,152.34
 GS ELEVATION: 578.14
 TOC ELEVATION: 580.73 ft

DEPTH W.L.: 10.55' (bgs)
 ELEVATION W.L.: (amsl)
 DATE W.L.: 12/9/15
 TIME W.L.: 10:22

DEPTH (ft)	ELEVATION (ft)	SOIL PROFILE				SAMPLES			MONITORING WELL/ PIEZOMETER DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
		DESCRIPTION	USCS	GRAPHIC LOG	ELEV. DEPTH (ft)	SAMPLE NO.	TYPE	REC		
0		0.00 - 1.00 CLAY/RESIDUUM; dark brown clay with trace silt, non-plastic, trace gravel, trace to some organic material, topsoil, soft, dry, W<PL	CL		577.14			Portland Type I/ Type II/ Gel mix	<p>WELL CASING Interval: -3'-23' Material: Schedule 40 PVC Diameter: 6" Joint Type: Screw/Flush</p> <p>WELL SCREEN Interval: 22.5'-32.5' Material: Schedule 40 PVC Diameter: 2" Slot Size: 0.010" End Cap: Schedule 40 PVC</p> <p>FILTER PACK Interval: 20.4'-33' Type: #1 sand/ Prepack Filter</p> <p>FILTER PACK SEAL Interval: 18'-20.4' Type: 3/8" Bentonite Pellets</p> <p>ANNULUS SEAL Interval: 0'-18" Type: Portland Type I/Type II/Gel Mix</p> <p>WELL COMPLETION Pad: 4'x4'x4" Protective Casing: Anodized Aluminum</p> <p>DRILLING METHODS Soil Drill: 6-inch diameter Sonic Rock Drill: 6-inch diameter Sonic</p>	
575		1.00 - 2.00 dark brown to black clay with trace fine to coarse sand, trace amounts of coal and rock fragments, soft, non-plastic, dry to moist, W<PL			1.00 576.14 2.00					
5		2.00 - 7.00 yellow orangish clay with trace fine sand, trace sub rounded gravel, low plasticity, stiff to very stiff, moist, W<PL			571.14 (570.83)					
570		7.00 - 8.50 CLAYEY SAND/RESIDUUM; red orange and light gray mottled clay with some fine sand, moderate to high plasticity, firm, moist, W=PL SHELBY TUBE: 7-9'	SC		7.00 569.64		SH	2.00 2.00		
10		8.50 - 10.00 CLAYEY SAND/ALLUVIUM; red orange sand, sub rounded, fine to medium, well sorted, low to non-plastic, moist to wet, W<PL	SC		8.50 568.14					
565		10.00 - 13.00 CLAYEY SAND; blue grey sand with trace clay, trace rounded to sub rounded pebbles, fine to coarse grain, low plasticity, moist, W<PL	SC		10.00 565.14					
15		13.00 - 17.00 SAND; yellowish brown fine to coarse sand with some pea gravel, rounded to sub-rounded, loose, moist to wet	SP		13.00 561.14					
560		17.00 - 21.00 CLAY/RESIDUUM; red orange and brown mottled clay, low to medium plasticity, soft, moist, W=PL	CL-CH		17.00 557.14			3/8" Bentonite Pellets		
555		21.00 - 24.00 CLAY; dark red/orange/brown clay with trace rock fragments, soft, wet, W>PL		21.00 554.14						
25		24.00 - 27.00 BEDROCK; limestone, gravel and sand, fine to coarse, dry, non-plastic, W<PL	BR		24.00 551.14			#1 sand - 0.010" slot screen		
550		27.00 - 37.00 brownish grey limestone with calcite veins		27.00 541.14						
545								3/8" Bentonite Pellets		
540		Boring completed at 37.00 ft								
535										
45										

BOREHOLE RECORD: HAMMOND BORING LOGS.GPJ PIEDMONT.GDT 9/29/17

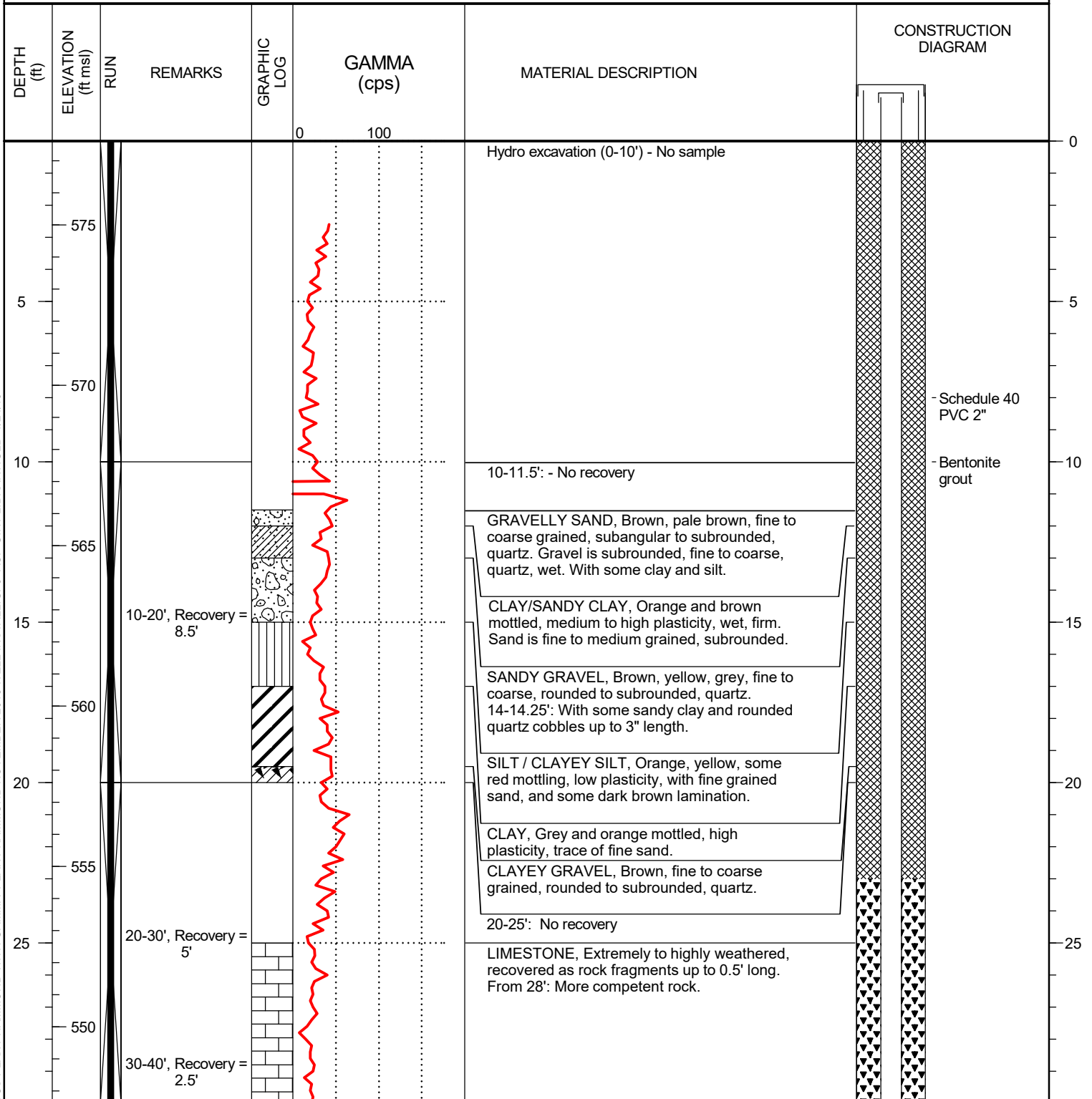
LOG SCALE: 1 in = 5.5 ft
 DRILLING COMPANY: Cascade
 DRILLER: Tom Ardito

Easting and Northing in NAD 1983.
 Elevations in NAVD 1988.

GA INSPECTOR: Michael Boatman
 CHECKED BY: Rachel P. Kirkman, P.G.
 DATE: 9/29/17



CLIENT Southern Company Services	PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581B	PROJECT LOCATION Plant Hammond
DATE STARTED 11/6/18 COMPLETED 11/6/18	NORTHING 1548471.8 ft EASTING 1941161.62 ft
DRILLER Cascade Drilling	GROUND ELEVATION 577.61 ft BORING DIAMETER 6 in
DRILLING METHOD Sonic	TOP OF CASING ELEVATION 580.64 ft
SAMPLING METHOD 4" core 6" override	GEOPHYSICAL CONTRACTOR Geosyntec Consultants
RIG TYPE Geoprobe 8140LC	LOGGED BY C. Hug CHECKED BY J. Ivanowski



SCS PLANT HAMMOND WITH GAMMA PLANT HAMMOND NOVEMBER 2018 WELL INSTALL.GPJ ACP GINT LIBRARY.GLB 1/24/19

CLIENT Southern Company Services

PROJECT NAME Plant Hammond Well Installation

PROJECT NUMBER GW6581B

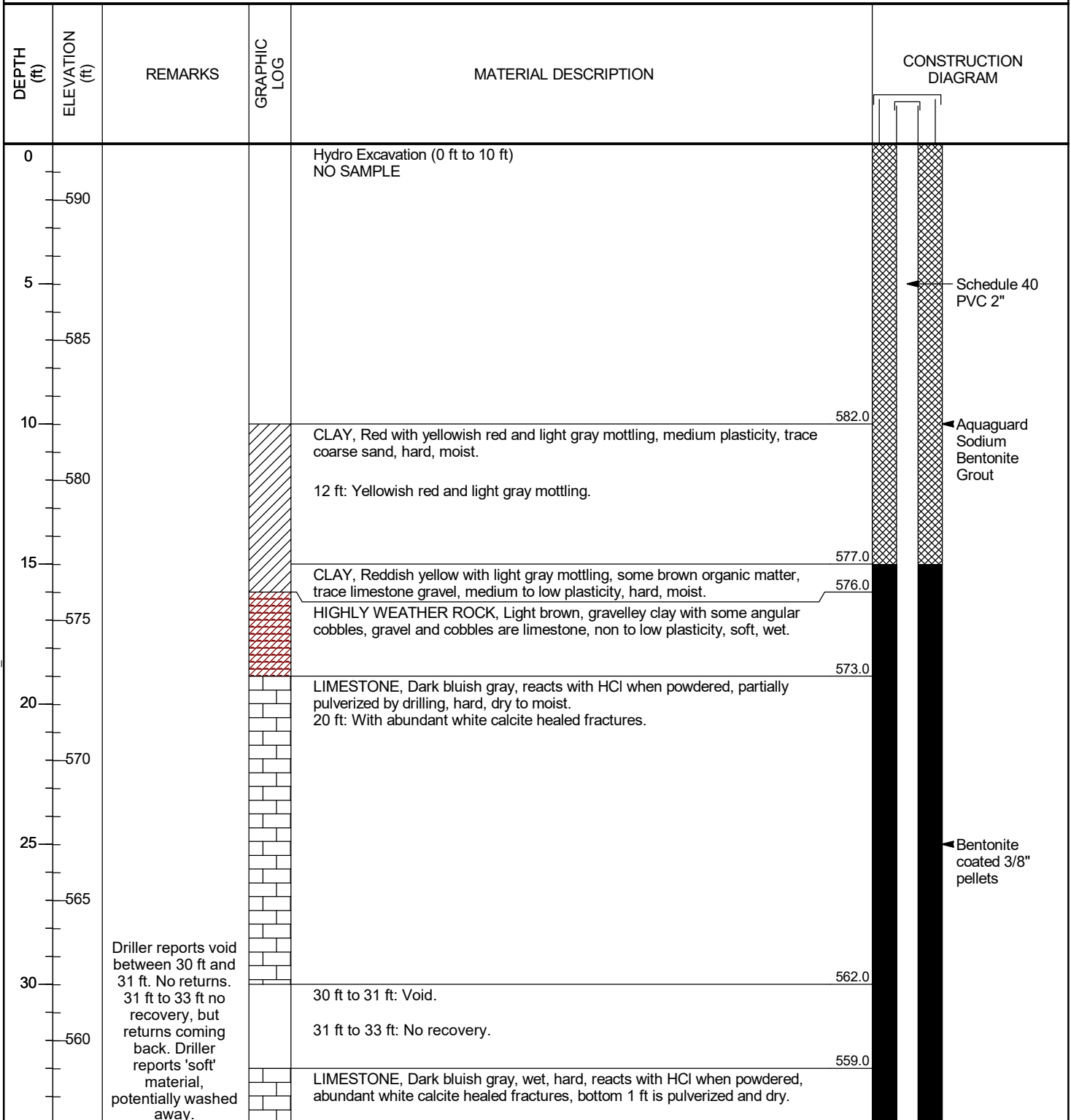
PROJECT LOCATION Plant Hammond

DEPTH (ft)	ELEVATION (ft msl)	RUN	REMARKS	GRAPHIC LOG	GAMMA (cps)	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
					0 100		
30	545		Driller reports 1' drill resistance, 1' dropping rods, 1-2' drill resistance, 0.5' dropping rods, 1' drill resistance, 1' dropping rods, etc. throughout run. Water was added by driller, no returns.			LIMESTONE, Grey, white, abundance of white calcite veins, brown to red brown iron staining, recovered as angular fragments of rock. 0.5 - 1' wide voids throughout run, potential void filling washed away.	
35	540		Driller reports 'soft' and low resistance drilling between 40' and 50', slightly more competent rock than previous run. Increased competence of rock with depth. 40-50', Recovery = 4'			LIMESTONE, Dark grey, grey, with white calcite veining throughout, massive, recovered as angular fragments of rock and fine to coarse gravel sized pieces. Fines washed away. With voids up to 1' throughout.	
40	535		Driller reports 'soft spots' and low resistance throughout run indicating potential void filling. Water added by driller, minimal returns. 50-60', Recovery = 6'			LIMESTONE, As before, recovered as fine to coarse, angular gravel and cobbles, slightly more competent with depth, fines washed away.	
45	530						
50	525						
55	520						
60	515						
Bottom of borehole at 60.0 feet.							

SCS PLANT HAMMOND WITH GAMMA PLANT HAMMOND NOVEMBER 2018 WELL INSTALL.GPJ ACP GINT LIBRARY.GLB 1/24/19

CLIENT Southern Company Services	PROJECT NAME Plant Hammond Well Installation
PROJECT NUMBER GW6581B	PROJECT LOCATION Plant Hammond
DATE STARTED 8/24/20	COMPLETED 8/25/20
DRILLER Cascade Drilling	NORTHING 1550409.13 ft
DRILLING METHOD Sonic	EASTING 1940756.18 ft
SAMPLING METHOD 4" core 6" override	GROUND ELEVATION 592.01 ft
RIG TYPE Terrasonic 1051181	BORING DIAMETER 6 in
	TOP OF CASING ELEVATION 594.79 ft
	GEOPHYSICAL CONTRACTOR ---
	LOGGED BY A. Ramsey
	CHECKED BY J. Ivanowski

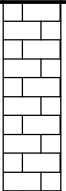

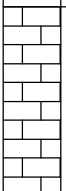

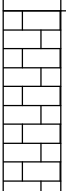

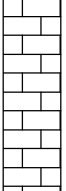

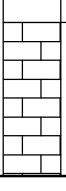

SCS MONITORING WELLS PLANT HAMMOND HGWA7 TO HGWA114 AND MW46D_AUGUST 2020.GPJ ACP GINT LIBRARY.CH.GLB 9/23/20



(Continued Next Page)

CLIENT Southern Company Services **PROJECT NAME** Plant Hammond Well Installation
PROJECT NUMBER GW6581B **PROJECT LOCATION** Plant Hammond

SCS MONITORING WELLS PLANT HAMMOND HGWA7 TO HGWA114 AND MW46D_AUGUST 2020.GPJ ACP GINT LIBRARY.CH.GLB 9/23/20

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
35	555	40 ft: Driller reports no returns.		LIMESTONE, Dark bluish gray, wet, hard, reacts with HCl when powdered, abundant white calcite healed fractures, bottom 1 ft is pulverized and dry. (continued)	
40	552.0			40 ft to 42 ft: No recovery.	
	550.0				
45	545			LIMESTONE, Dark bluish gray, wet, hard, reacts with HCl when powdered, abundant white calcite healed fractures, bottom 1 ft is pulverized by drilling.	
50	542.0	50 ft to 52 ft: No recovery.			
	540.0				
55	535			LIMESTONE, Dark bluish gray, wet, hard, reacts with HCl when powdered, abundant white calcite healed fractures, bottom 1 ft is pulverized by drilling.	
60	532.0	60 ft to 61 ft: No recovery.			
	531.0				
65	525			LIMESTONE, Dark bluish gray, hard, wet, bottom 1 ft pulverized by drilling, reacts with HCl when powdered, abundant white 0.1 in to 2 in thick calcite healed fractures.	
70	522.0	70 ft to 71 ft: No recovery.			
	521.0				
75	520			LIMESTONE, Dark bluish gray, hard, wet, bottom 1 ft pulverized by drilling, reacts with HCl when powdered, abundant white hite 0.1 in to 2 in thick calcite healed fractures.	

← Bentonite coated 3/8" pellets

CLIENT Southern Company Services **PROJECT NAME** Plant Hammond Well Installation
PROJECT NUMBER GW6581B **PROJECT LOCATION** Plant Hammond

SCS MONITORING WELLS PLANT HAMMOND HGWA7 TO HGWA114 AND MW46D_AUGUST 2020.GPJ ACP GINT LIBRARY CH GLOB 9/23/20

DEPTH (ft)	ELEVATION (ft)	REMARKS	GRAPHIC LOG	MATERIAL DESCRIPTION	CONSTRUCTION DIAGRAM
75	515			LIMESTONE, Dark bluish gray, hard, wet, bottom 1 ft pulverized by drilling, reacts with HCl when powdered, abundant white hite 0.1 in to 2 in thick calcite healed fractures. (continued)	<p>← Bentonite coated 3/8" pellets</p> <p>← 20/40 Silica Sand</p> <p>← 0.010 slot size 2" Pre Pack, U-Pack Screen</p> <p>Bottom of well: 110.5 ft</p>
80	512.0	80 ft to 84 ft: No recovery.			
	510				
85	508.0	LIMESTONE, Dark bluish gray, hard, wet, bottom 1 ft pulverized by drilling, reacts with HCl when powdered, abundant white 0.1 in to 2 in thick calcite healed fractures.			
90	502.0	90 ft to 94 ft: No recovery.			
	500				
95	498.0	LIMESTONE, Dark bluish gray, hard, wet, bottom 1 ft pulverized by drilling, reacts with HCl when powdered, abundant white 0.1 in to 2 in thick calcite healed fractures.			
	495				
100	492.0	100 ft to 102 ft: No recovery.			
	490				
105	490.0	LIMESTONE, Dark bluish gray, hard, wet, bottom 1 ft pulverized by drilling, reacts with HCl when powdered, abundant white 0.1 in to 2 in thick calcite healed fractures.			
	485				
110	480.0				

Bottom of borehole at 112.0 feet.

Easting and Northing in NAD 1983.
Elevation in NAVD 1988.

APPENDIX B
February 2022 Field Purge Logs for
HGWA-1, HGWA-2, HGWA-3,
HGWA-43D, HGWA-44D, HGWC-11,
HGWC-12, and MW-25D

Low-Flow Test Report:

Test Date / Time: 2/1/2022 11:33:37 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-1 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 22.50 ft Total Depth: 32.50 ft Initial Depth to Water: 13.42 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 27.50 ft Estimated Total Volume Pumped: 7.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.52 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 11:33 AM	00:00	7.28 pH	18.61 °C	556.69 µS/cm	2.06 mg/L	12.50 NTU	1.6 mV	13.73 ft	200.00 ml/min
2/1/2022 11:38 AM	05:00	7.25 pH	17.05 °C	581.92 µS/cm	1.89 mg/L	5.43 NTU	6.0 mV	13.95 ft	200.00 ml/min
2/1/2022 11:43 AM	10:00	7.25 pH	17.41 °C	575.00 µS/cm	1.67 mg/L	3.36 NTU	6.3 mV	13.92 ft	200.00 ml/min
2/1/2022 11:48 AM	15:00	7.23 pH	17.54 °C	574.57 µS/cm	1.32 mg/L	4.09 NTU	3.3 mV	13.93 ft	200.00 ml/min
2/1/2022 11:53 AM	20:00	7.21 pH	17.45 °C	580.36 µS/cm	1.01 mg/L	2.91 NTU	4.7 mV	13.93 ft	200.00 ml/min
2/1/2022 11:58 AM	25:00	7.19 pH	17.23 °C	583.39 µS/cm	0.73 mg/L	2.07 NTU	0.7 mV	13.93 ft	200.00 ml/min
2/1/2022 12:03 PM	30:00	7.19 pH	17.55 °C	579.09 µS/cm	0.63 mg/L	3.05 NTU	1.4 mV	13.93 ft	200.00 ml/min
2/1/2022 12:08 PM	35:00	7.19 pH	17.41 °C	582.19 µS/cm	0.56 mg/L	0.40 NTU	-1.4 mV	13.94 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-1	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/1/2022 10:42:11 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 17.95 ft Total Depth: 27.95 ft Initial Depth to Water: 8.27 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 22.95 ft Estimated Total Volume Pumped: 14 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 10:42 AM	00:00	5.14 pH	16.69 °C	232.20 µS/cm	0.63 mg/L	46.90 NTU	158.1 mV	8.34 ft	200.00 ml/min
2/1/2022 10:47 AM	05:00	5.15 pH	16.40 °C	192.80 µS/cm	0.75 mg/L	23.20 NTU	136.3 mV	8.35 ft	200.00 ml/min
2/1/2022 10:52 AM	10:00	5.13 pH	16.24 °C	231.06 µS/cm	0.48 mg/L	16.60 NTU	129.5 mV	8.35 ft	200.00 ml/min
2/1/2022 10:57 AM	15:00	5.17 pH	16.30 °C	224.16 µS/cm	0.43 mg/L	10.76 NTU	119.4 mV	8.37 ft	200.00 ml/min
2/1/2022 11:02 AM	20:00	5.17 pH	16.42 °C	233.37 µS/cm	0.42 mg/L	8.08 NTU	113.7 mV	8.37 ft	200.00 ml/min
2/1/2022 11:07 AM	25:00	5.19 pH	16.67 °C	234.45 µS/cm	0.56 mg/L	6.51 NTU	167.3 mV	8.37 ft	200.00 ml/min
2/1/2022 11:12 AM	30:00	5.20 pH	17.00 °C	192.38 µS/cm	0.43 mg/L	6.16 NTU	107.4 mV	8.40 ft	200.00 ml/min
2/1/2022 11:17 AM	35:00	5.19 pH	17.00 °C	149.79 µS/cm	0.39 mg/L	4.79 NTU	103.2 mV	8.40 ft	200.00 ml/min
2/1/2022 11:22 AM	40:00	5.24 pH	17.00 °C	231.77 µS/cm	0.43 mg/L	4.03 NTU	99.1 mV	8.40 ft	200.00 ml/min
2/1/2022 11:27 AM	45:00	5.23 pH	17.21 °C	234.14 µS/cm	0.45 mg/L	3.61 NTU	98.2 mV	8.41 ft	200.00 ml/min
2/1/2022 11:32 AM	50:00	5.24 pH	17.09 °C	199.83 µS/cm	0.51 mg/L	3.56 NTU	146.7 mV	8.41 ft	200.00 ml/min
2/1/2022 11:37 AM	55:00	5.22 pH	17.21 °C	234.19 µS/cm	0.52 mg/L	3.28 NTU	96.1 mV	8.41 ft	200.00 ml/min
2/1/2022 11:42 AM	01:00:00	5.24 pH	17.14 °C	233.68 µS/cm	0.46 mg/L	3.31 NTU	91.1 mV	8.41 ft	200.00 ml/min

2/1/2022 11:47 AM	01:05:00	5.24 pH	17.16 °C	235.29 µS/cm	0.48 mg/L	2.85 NTU	139.6 mV	8.41 ft	200.00 ml/min
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Samples

Sample ID:	Description:
HGWA-2	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/1/2022 9:18:03 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWA-3 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.87 ft Total Depth: 44.87 ft Initial Depth to Water: 7.86 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 39.87 ft Estimated Total Volume Pumped: 8 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.02 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 31 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 9:18 AM	00:00	7.43 pH	14.38 °C	462.35 µS/cm	2.13 mg/L	8.40 NTU	-60.5 mV	7.86 ft	200.00 ml/min
2/1/2022 9:23 AM	05:00	7.42 pH	15.95 °C	470.26 µS/cm	0.50 mg/L	2.62 NTU	-81.6 mV	7.86 ft	200.00 ml/min
2/1/2022 9:28 AM	10:00	7.43 pH	16.15 °C	463.71 µS/cm	0.88 mg/L	2.86 NTU	-85.7 mV	7.86 ft	200.00 ml/min
2/1/2022 9:33 AM	15:00	7.44 pH	16.11 °C	466.16 µS/cm	0.40 mg/L	2.63 NTU	-115.1 mV	7.88 ft	200.00 ml/min
2/1/2022 9:38 AM	20:00	7.44 pH	16.24 °C	504.38 µS/cm	0.50 mg/L	1.63 NTU	-93.6 mV	7.88 ft	200.00 ml/min
2/1/2022 9:43 AM	25:00	7.44 pH	16.24 °C	467.40 µS/cm	0.25 mg/L	0.72 NTU	-94.2 mV	7.88 ft	200.00 ml/min
2/1/2022 9:48 AM	30:00	7.44 pH	16.27 °C	467.09 µS/cm	0.31 mg/L	0.62 NTU	-94.7 mV	7.88 ft	200.00 ml/min
2/1/2022 9:53 AM	35:00	7.45 pH	16.38 °C	466.51 µS/cm	0.20 mg/L	0.68 NTU	-95.7 mV	7.88 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWA-3	Grab Sample.

Low-Flow Test Report:

Test Date / Time: 2/1/2022 9:43:27 AM

Project: GP-Plant Hammond

Operator Name: Anthony Szwast

Location Name: HGWA-43D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 51.25 ft Total Depth: 61.25 ft Initial Depth to Water: 13.34 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 56.25 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 3.19 ft	Instrument Used: Aqua TROLL 400 Serial Number: 843593
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 9:43 AM	00:00	7.53 pH	16.74 °C	496.11 µS/cm	0.53 mg/L	8.09 NTU	-83.8 mV	15.27 ft	200.00 ml/min
2/1/2022 9:48 AM	05:00	7.51 pH	16.85 °C	499.11 µS/cm	0.42 mg/L	3.49 NTU	-119.9 mV	15.57 ft	200.00 ml/min
2/1/2022 9:53 AM	10:00	7.52 pH	16.92 °C	497.47 µS/cm	0.25 mg/L	0.92 NTU	-129.8 mV	15.94 ft	200.00 ml/min
2/1/2022 9:58 AM	15:00	7.53 pH	17.03 °C	489.27 µS/cm	0.18 mg/L	1.95 NTU	-109.8 mV	16.24 ft	200.00 ml/min
2/1/2022 10:03 AM	20:00	7.53 pH	17.01 °C	481.27 µS/cm	0.15 mg/L	0.29 NTU	-136.5 mV	16.41 ft	200.00 ml/min
2/1/2022 10:08 AM	24:37	7.53 pH	17.10 °C	474.80 µS/cm	0.13 mg/L	0.03 NTU	-136.8 mV	16.52 ft	200.00 ml/min
2/1/2022 10:13 AM	29:37	7.53 pH	17.22 °C	469.54 µS/cm	0.12 mg/L	1.72 NTU	-110.6 mV	16.59 ft	200.00 ml/min
2/1/2022 10:18 AM	34:37	7.52 pH	17.32 °C	465.38 µS/cm	0.12 mg/L	1.59 NTU	-108.8 mV	16.63 ft	200.00 ml/min
2/1/2022 10:23 AM	39:37	7.52 pH	17.27 °C	463.05 µS/cm	0.11 mg/L	1.63 NTU	-107.5 mV	16.53 ft	200.00 ml/min

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/1/2022 9:53:41 AM

Project: GP-Plant Hammond

Operator Name: Thomas Kessler

Location Name: HGWA-44D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 103.28 ft Total Depth: 113.28 ft Initial Depth to Water: 13.34 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 108.28 ft Estimated Total Volume Pumped: 26 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 1.20 ft	Instrument Used: Aqua TROLL 400 Serial Number: 728634
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 32 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2022 9:53 AM	00:00	8.03 pH	15.77 °C	788.25 µS/cm	2.41 mg/L	40.40 NTU	-1.7 mV	11.50 ft	200.00 ml/min
2/1/2022 9:58 AM	05:00	8.07 pH	16.24 °C	793.68 µS/cm	6.43 mg/L	30.50 NTU	-10.9 mV	11.85 ft	200.00 ml/min
2/1/2022 10:03 AM	10:00	8.11 pH	16.20 °C	798.19 µS/cm	8.19 mg/L	23.90 NTU	-10.3 mV	12.40 ft	200.00 ml/min
2/1/2022 10:08 AM	15:00	8.13 pH	16.28 °C	800.71 µS/cm	10.64 mg/L	24.30 NTU	-12.4 mV	12.62 ft	200.00 ml/min
2/1/2022 10:13 AM	20:00	8.14 pH	16.46 °C	799.34 µS/cm	12.75 mg/L	18.80 NTU	-11.7 mV	12.90 ft	200.00 ml/min
2/1/2022 10:18 AM	25:00	8.15 pH	16.72 °C	797.19 µS/cm	11.61 mg/L	17.60 NTU	-11.2 mV	13.05 ft	200.00 ml/min
2/1/2022 10:23 AM	30:00	8.16 pH	16.82 °C	795.06 µS/cm	11.42 mg/L	16.70 NTU	-11.0 mV	13.10 ft	200.00 ml/min
2/1/2022 10:28 AM	35:00	8.17 pH	16.28 °C	804.14 µS/cm	12.45 mg/L	16.60 NTU	-13.9 mV	13.30 ft	200.00 ml/min
2/1/2022 10:33 AM	40:00	8.18 pH	16.41 °C	801.48 µS/cm	12.08 mg/L	14.20 NTU	-13.6 mV	13.60 ft	100.00 ml/min
2/1/2022 10:38 AM	45:00	8.19 pH	16.45 °C	804.07 µS/cm	11.86 mg/L	14.00 NTU	-14.6 mV	13.60 ft	100.00 ml/min
2/1/2022 10:43 AM	50:00	8.20 pH	16.46 °C	804.80 µS/cm	11.98 mg/L	16.10 NTU	-16.6 mV	13.65 ft	100.00 ml/min
2/1/2022 10:48 AM	55:00	8.21 pH	16.60 °C	803.09 µS/cm	12.00 mg/L	18.90 NTU	-16.9 mV	13.70 ft	100.00 ml/min
2/1/2022 10:53 AM	01:00:00	8.21 pH	16.72 °C	803.58 µS/cm	12.70 mg/L	16.30 NTU	-17.0 mV	13.75 ft	100.00 ml/min

2/1/2022 10:58 AM	01:05:00	8.21 pH	16.82 °C	802.58 µS/cm	12.73 mg/L	20.00 NTU	-14.3 mV	13.90 ft	100.00 ml/min
2/1/2022 11:03 AM	01:10:00	8.23 pH	16.73 °C	806.13 µS/cm	12.61 mg/L	24.90 NTU	-15.9 mV	14.00 ft	100.00 ml/min
2/1/2022 11:08 AM	01:15:00	8.23 pH	16.82 °C	799.63 µS/cm	12.22 mg/L	15.60 NTU	-12.5 mV	14.10 ft	100.00 ml/min
2/1/2022 11:13 AM	01:20:00	8.23 pH	16.60 °C	803.48 µS/cm	12.18 mg/L	15.20 NTU	-11.4 mV	14.15 ft	100.00 ml/min
2/1/2022 11:18 AM	01:25:00	8.23 pH	16.84 °C	803.65 µS/cm	12.11 mg/L	11.70 NTU	-11.5 mV	14.23 ft	100.00 ml/min
2/1/2022 11:23 AM	01:30:00	8.23 pH	17.08 °C	801.82 µS/cm	12.10 mg/L	11.60 NTU	-12.9 mV	14.35 ft	100.00 ml/min
2/1/2022 11:28 AM	01:35:00	8.24 pH	17.10 °C	800.28 µS/cm	12.06 mg/L	9.96 NTU	-10.9 mV	14.35 ft	100.00 ml/min
2/1/2022 11:33 AM	01:40:00	8.24 pH	16.98 °C	802.78 µS/cm	12.20 mg/L	8.43 NTU	-10.7 mV	14.35 ft	100.00 ml/min
2/1/2022 11:38 AM	01:45:00	8.25 pH	16.55 °C	807.34 µS/cm	12.65 mg/L	8.17 NTU	-10.4 mV	14.40 ft	100.00 ml/min
2/1/2022 11:43 AM	01:50:00	8.25 pH	16.35 °C	809.51 µS/cm	12.60 mg/L	8.27 NTU	-11.9 mV	14.50 ft	100.00 ml/min
2/1/2022 11:48 AM	01:55:00	8.25 pH	16.28 °C	809.68 µS/cm	12.89 mg/L	7.64 NTU	-10.6 mV	14.50 ft	100.00 ml/min
2/1/2022 11:53 AM	02:00:00	8.25 pH	16.23 °C	811.81 µS/cm	12.86 mg/L	7.36 NTU	-10.5 mV	14.50 ft	100.00 ml/min
2/1/2022 11:58 AM	02:05:00	8.25 pH	16.20 °C	811.57 µS/cm	12.90 mg/L	6.17 NTU	-11.8 mV	14.50 ft	100.00 ml/min
2/1/2022 12:03 PM	02:10:00	8.26 pH	16.22 °C	810.30 µS/cm	12.71 mg/L	5.74 NTU	-10.5 mV	14.51 ft	100.00 ml/min
2/1/2022 12:08 PM	02:15:00	8.26 pH	16.19 °C	812.80 µS/cm	12.90 mg/L	5.76 NTU	-12.1 mV	14.51 ft	100.00 ml/min
2/1/2022 12:13 PM	02:20:00	8.26 pH	16.16 °C	812.48 µS/cm	12.88 mg/L	5.35 NTU	-12.2 mV	14.52 ft	100.00 ml/min
2/1/2022 12:18 PM	02:25:00	8.26 pH	16.22 °C	811.47 µS/cm	12.87 mg/L	5.23 NTU	-12.5 mV	14.52 ft	100.00 ml/min
2/1/2022 12:23 PM	02:30:00	8.27 pH	16.24 °C	812.48 µS/cm	12.75 mg/L	7.30 NTU	-12.6 mV	14.53 ft	100.00 ml/min
2/1/2022 12:28 PM	02:35:00	8.27 pH	16.33 °C	810.61 µS/cm	12.74 mg/L	6.77 NTU	-11.4 mV	14.54 ft	100.00 ml/min
2/1/2022 12:33 PM	02:40:00	8.27 pH	16.32 °C	812.17 µS/cm	12.75 mg/L	6.80 NTU	-11.4 mV	14.54 ft	100.00 ml/min
2/1/2022 12:38 PM	02:45:00	8.27 pH	16.39 °C	809.86 µS/cm	12.75 mg/L	6.52 NTU	-11.5 mV	14.54 ft	100.00 ml/min
2/1/2022 12:43 PM	02:50:00	8.27 pH	16.48 °C	810.57 µS/cm	12.73 mg/L	6.00 NTU	-12.1 mV	14.54 ft	100.00 ml/min
2/1/2022 12:47 PM	02:53:59	8.27 pH	16.46 °C	809.23 µS/cm	13.38 mg/L	6.75 NTU	-9.9 mV	14.54 ft	100.00 ml/min
2/1/2022 12:52 PM	02:58:59	8.27 pH	16.51 °C	796.69 µS/cm	12.96 mg/L	6.30 NTU	-13.0 mV	14.54 ft	100.00 ml/min
2/1/2022 12:57 PM	03:03:59	8.27 pH	16.44 °C	808.16 µS/cm	12.86 mg/L	6.41 NTU	-14.2 mV	14.54 ft	100.00 ml/min
2/1/2022 1:01 PM	03:07:44	8.26 pH	16.49 °C	782.67 µS/cm	13.44 mg/L	5.53 NTU	-13.9 mV	14.54 ft	100.00 ml/min
2/1/2022 1:06 PM	03:12:44	8.26 pH	16.49 °C	796.34 µS/cm	13.14 mg/L	13.70 NTU	-15.4 mV	14.54 ft	100.00 ml/min
2/1/2022 1:11 PM	03:17:44	8.26 pH	16.46 °C	806.69 µS/cm	12.44 mg/L	4.35 NTU	-18.4 mV	14.54 ft	100.00 ml/min
2/1/2022 1:16 PM	03:22:44	8.26 pH	16.55 °C	800.04 µS/cm	12.24 mg/L	4.36 NTU	-17.6 mV	14.54 ft	100.00 ml/min

2/1/2022 1:21 PM	03:27:44	8.26 pH	16.57 °C	799.46 µS/cm	12.26 mg/L	4.20 NTU	-18.6 mV	14.54 ft	100.00 ml/min
2/1/2022 1:26 PM	03:32:44	8.25 pH	16.83 °C	795.30 µS/cm	12.14 mg/L	4.25 NTU	-20.8 mV	14.54 ft	100.00 ml/min

Samples

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

Low-Flow Test Report:

Test Date / Time: 2/9/2022 9:27:10 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWC-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 15.78 ft Total Depth: 25.78 ft Initial Depth to Water: 10.19 ft	Pump Type: Peristaltic Tubing Type: Poly Pump Intake From TOC: 20.78 ft Estimated Total Volume Pumped: 7 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.14 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 27 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 9:27 AM	00:00	6.72 pH	13.76 °C	879.81 µS/cm	0.77 mg/L	1.63 NTU	126.5 mV	10.29 ft	200.00 ml/min
2/9/2022 9:32 AM	05:00	6.55 pH	15.96 °C	856.08 µS/cm	0.59 mg/L	2.06 NTU	73.7 mV	10.31 ft	200.00 ml/min
2/9/2022 9:37 AM	10:00	6.55 pH	16.43 °C	850.26 µS/cm	0.55 mg/L	1.63 NTU	60.4 mV	10.32 ft	200.00 ml/min
2/9/2022 9:42 AM	15:00	6.56 pH	16.29 °C	851.32 µS/cm	0.41 mg/L	1.75 NTU	54.3 mV	10.32 ft	200.00 ml/min
2/9/2022 9:47 AM	20:00	6.55 pH	16.47 °C	851.41 µS/cm	0.39 mg/L	1.31 NTU	51.9 mV	10.32 ft	200.00 ml/min
2/9/2022 9:52 AM	25:00	6.55 pH	16.78 °C	853.52 µS/cm	0.50 mg/L	1.26 NTU	49.7 mV	10.33 ft	200.00 ml/min
2/9/2022 9:57 AM	30:00	6.55 pH	16.74 °C	847.06 µS/cm	0.52 mg/L	1.06 NTU	73.7 mV	10.33 ft	200.00 ml/min

Samples

Sample ID:	Description:
HGWC-11	Grab sample.

Low-Flow Test Report:

Test Date / Time: 2/9/2022 10:43:23 AM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: HGWC-12 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.68 ft Total Depth: 35.68 ft Initial Depth to Water: 10.51 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 30.68ft Estimated Total Volume Pumped: 11 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: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny, 48 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 10:43 AM	00:00	7.25 pH	17.89 °C	987.40 µS/cm	1.75 mg/L	16.40 NTU	20.9 mV	10.55 ft	200.00 ml/min
2/9/2022 10:48 AM	05:00	7.24 pH	18.25 °C	1,002.5 µS/cm	1.21 mg/L	15.90 NTU	9.0 mV	10.55 ft	200.00 ml/min
2/9/2022 10:53 AM	10:00	7.20 pH	18.25 °C	990.38 µS/cm	0.87 mg/L	12.00 NTU	6.0 mV	10.55 ft	200.00 ml/min
2/9/2022 10:58 AM	15:00	7.24 pH	18.16 °C	1,001.1 µS/cm	0.81 mg/L	7.25 NTU	5.5 mV	10.55 ft	200.00 ml/min
2/9/2022 11:03 AM	20:00	7.24 pH	18.29 °C	1,054.4 µS/cm	0.88 mg/L	4.07 NTU	4.0 mV	10.55 ft	200.00 ml/min
2/9/2022 11:08 AM	25:00	7.24 pH	18.39 °C	1,003.6 µS/cm	0.97 mg/L	4.01 NTU	5.0 mV	10.55 ft	200.00 ml/min
2/9/2022 11:13 AM	30:00	7.22 pH	18.37 °C	880.88 µS/cm	0.81 mg/L	1.33 NTU	7.5 mV	10.55 ft	200.00 ml/min
2/9/2022 11:18 AM	35:00	7.25 pH	18.36 °C	897.26 µS/cm	0.77 mg/L	0.68 NTU	3.9 mV	10.55 ft	200.00 ml/min
2/9/2022 11:23 AM	40:00	7.24 pH	18.39 °C	998.46 µS/cm	0.84 mg/L	0.53 NTU	4.0 mV	10.55 ft	200.00 ml/min
2/9/2022 11:28 AM	45:00	7.24 pH	18.43 °C	997.19 µS/cm	0.72 mg/L	0.46 NTU	4.4 mV	10.56 ft	200.00 ml/min
2/9/2022 11:33 AM	50:00	7.23 pH	18.39 °C	997.88 µS/cm	0.78 mg/L	0.48 NTU	4.7 mV	10.56 ft	200.00 ml/min

Samples

Low-Flow Test Report:

Test Date / Time: 2/9/2022 1:20:34 PM

Project: GP-Plant Hammond

Operator Name: Connor Cain

Location Name: MW-25D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 53.03 ft Total Depth: 63.03 ft Initial Depth to Water: 10.4 ft	Pump Type: Bladder Tubing Type: Poly Pump Intake From TOC: 58.03 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 4.62 ft	Instrument Used: Aqua TROLL 400 Serial Number: 850724
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Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Sunny 54 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/9/2022 1:20 PM	00:00	7.69 pH	19.41 °C	602.23 µS/cm	1.18 mg/L	1.21 NTU	-131.0 mV	10.99 ft	200.00 ml/min
2/9/2022 1:25 PM	05:00	7.73 pH	18.41 °C	624.43 µS/cm	0.94 mg/L	2.01 NTU	-147.4 mV	12.68 ft	200.00 ml/min
2/9/2022 1:30 PM	10:00	7.78 pH	18.64 °C	638.18 µS/cm	0.73 mg/L	1.60 NTU	-156.7 mV	13.78 ft	200.00 ml/min
2/9/2022 1:35 PM	15:00	7.79 pH	18.56 °C	622.08 µS/cm	0.90 mg/L	1.89 NTU	-161.4 mV	14.75 ft	200.00 ml/min
2/9/2022 1:40 PM	20:00	7.80 pH	18.54 °C	619.05 µS/cm	0.83 mg/L	1.32 NTU	-162.2 mV	14.96 ft	100.00 ml/min
2/9/2022 1:45 PM	25:00	7.80 pH	18.54 °C	621.19 µS/cm	1.02 mg/L	1.14 NTU	-163.3 mV	15.00 ft	100.00 ml/min
2/9/2022 1:50 PM	30:00	7.80 pH	18.59 °C	620.65 µS/cm	1.05 mg/L	0.96 NTU	-164.8 mV	15.02 ft	100.00 ml/min
2/9/2022 1:55 PM	35:00	7.82 pH	18.92 °C	616.93 µS/cm	0.99 mg/L	0.99 NTU	-165.6 mV	15.02 ft	100.00 ml/min

Samples

Sample ID:	Description:
MW-25D	Grab sample.