Prepared for



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2023 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT HAMMOND ASH POND 1 (AP-1)

Prepared by



engineers | scientists | innovators

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Project Number GW6581E

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CERTIFICATION STATEMENT

This 2023 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 [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Geosyntec Consultants, Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01.



Whitney B. Law Georgia Professional Engineer No. 36641 August 31, 2023
Date



SUMMARY

This summary of the 2023 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 2023 (referred to herein as the "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 cotreatment pond to handle return water flows from the other ponds and for recycling of process



Plant Hammond and the Site

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.

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 semiannual reporting period, the Site remained in assessment monitoring as corrective measures are being evaluated.

During the semiannual reporting period, Geosyntec conducted one groundwater sampling event in January 2023 in support of the assessment monitoring program. Groundwater

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

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samples were submitted to Pace Analytical Services, LLC, for analysis. Per the federal CCR Rule, groundwater data from the semiannual assessment monitoring event conducted during the semiannual reporting period 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 semiannual reporting period.

Appendix III Constituent	January 2023							
Boron	HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13							
Calcium	HGWC-9, HGWC-12, HGWC-13							
Chloride	HGWC-8, HGWC-9							
Sulfate	HGWC-7, HGWC-8, HGWC-9, HGWC-11, HGWC-12, HGWC-13							
Total Dissolved Solids	HGWC-9, HGWC-13							
Appendix IV Constituent ⁴	January 2023							
Arsenic	HGWC-13							
Molybdenum	HGWC-8							

Based on a review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program for the 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 proposed selection of a corrective measure, or measures, was submitted to GA EPD on August 31, 2022.

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.



TABLE OF CONTENTS

SUMN	IARY	/i
1.0	INTI 1.1 1.2	RODUCTION
2.0	GRC 2.1 2.2 2.3	DUNDWATER MONITORING ACTIVITIES 5 Monitoring Well Installation and Maintenance 5 Assessment Monitoring 5 Additional Groundwater Evaluations 6
3.0	3.1 3.2 3.3 3.4 3.5	IPLING METHODOLOGY AND ANALYSES7Groundwater and Surface Water Level Measurement7Groundwater Gradient and Flow Velocity7Groundwater Sampling Procedures8Laboratory Analyses9Quality Assurance and Quality Control Summary10
4.0	STA 4.1	TISTICAL ANALYSIS
5.0	NAT 5.1	TURE AND EXTENT
6.0	6.1	Assessment Monitoring Status

Geosyntec consultants 7.0 CONCLUSIONS AND FUTURE ACTIONS 17 8.0 REFERENCES 18



LIST OF TABLES

Table 1A	Monitoring Well Network Summary
Table 1B	Piezometer 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

Site Location Map
Monitoring Well Network and Sampling Location Map
Potentiometric Surface Contour Map – January 2023
so-Concentration Map, Arsenic – January 2023
so-Concentration Map, Molybdenum – January 2023

LIST OF APPENDICES

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

LIST OF ACRONYMS AND ABBREVIATIONS

ACM Assessment of Corrective Measures

AP-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

 $\begin{array}{ll} i & & \text{horizontal hydraulic gradient} \\ K_h & & \text{horizontal hydraulic conductivity} \\ MCL & & Maximum Contaminant Level \\ \end{array}$

mg/L milligram per liter

MNA Monitored Natural Attenuation

 $n_{\rm e}$ 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 2023 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 2023 (referred to herein as the 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. Also, the closure permit issued by GA EPD (i.e., no. 057-023D(CCR)) stipulates that groundwater monitoring is required while CCR waste remains in place at the CCR unit and for no less than 5-years after removal of the material.

Due to statistically significant levels (SSLs) of arsenic and molybdenum identified in the 2018 Annual Groundwater Monitoring and Corrective Action Report (Geosyntec, 2019a), Georgia Power initiated an assessment of corrective measures (ACM) program for AP-1 in January 2019. Pursuant to § 257.96(b), Georgia Power continues to monitor groundwater associated with AP-1 in accordance with the assessment monitoring program established for the unit, including semiannual monitoring and reporting pursuant to § 257.90 through § 257.95 of the federal CCR Rule and GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). 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, (Geosyntec, 2022a) and is currently under review.

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

1.1 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 cotreatment pond to handle return water flows from the other ponds and for recycling of process water for plant operations. Georgia Power has commenced closure of AP-1 through removal of the CCR material from the CCR unit; closure activities will be conducted in accordance with § 257.102 and corresponding Rule 391-3-4-.10(7)(b). The proposed closure by removal approach provides a source control measure that reduces the potential for migration of CCR constituents to groundwater. Details of the closure approach are provided in the Initial Written Closure Plan, published in 2016 to Georgia Power's CCR Rule Compliance website. Closure permit no. 057-023D(CCR) was approved by GA EPD on June 22, 2020.

1.2 Regional Geology and Hydrogeologic Setting

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

1.2.1 Regional and Site Geology

The Site is located within the Great Valley District of the Valley and Ridge Physiographic Province (Valley and Ridge) in northwest Georgia. The Valley and Ridge is characterized by Paleozoic sedimentary rocks that have been folded and faulted into the ridges and valleys that gave this region its name. Geologic mapping performed at the Site by Petrologic Solutions, Inc., under the direction of Golder (Golder, 2018), indicates that AP-1 is underlain by the middle units of the Cambrian age Conasauga Formation, consisting of mostly shaley limestone. Subsurface investigations at AP-1 describe the

2



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

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

1.2.2 Hydrogeologic Setting

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



1.3 Groundwater Monitoring Well Network

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

As part of the assessment monitoring program, assessment monitoring wells have been installed since 2018 to supplement the pre-existing detection monitoring wells and characterize the nature and extent of SSLs in groundwater downgradient of AP-1. Pursuant to § 257.195(g)(1)(iv), the wells classified as "assessment monitoring wells" will continue to be sampled concurrently with the detection monitoring well network as part of the ongoing assessment groundwater monitoring program.

An on-site network of piezometers is used in combination with the detection and assessment monitoring well networks to gauge water levels to define groundwater flow direction and gradients. The piezometers may be sampled as needed to support the ACM program.

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

2.0 GROUNDWATER MONITORING ACTIVITIES

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

2.1 <u>Monitoring Well Installation and Maintenance</u>

Six piezometers (MW-53, MW-54, PT-07, PT-08, PT-09, and PT-10) were installed in June 2023; the locations of these six piezometers are shown on **Figure 2**. MW-53 and MW-54 were installed to provide additional data to define groundwater flow direction, gradients, and characterize groundwater quality downgradient of AP-1. PT-07, PT-08, PT-09, and PT-10 were installed to specifically monitor the performance of the pilot study injections scheduled for August 2023 in support of the ACM program.

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 2023, the networks were inspected, necessary corrective actions were identified and subsequently completed, as documented in **Appendix A**. This documentation was prepared under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

Georgia Power initiated an assessment monitoring program for groundwater at AP-1 in January 2018 based on statically significant increases (SSIs) of Appendix III constituents documented in the 2017 Annual Groundwater Monitoring and Corrective Action Report (ERM, 2018). A notice of assessment monitoring was placed in the operating record on May 15, 2018. Currently identified SSLs of Appendix IV constituents exceeding their respective GWPS at AP-1 are arsenic in HGWC-13 and molybdenum in HGWC-8.

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 (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.

In support of the routine assessment monitoring program, the first semiannual assessment monitoring event was conducted in January 2023. The wells sampled and the dates the samples were collected at AP-1 during the semiannual reporting period are summarized in **Table 2**. Details of these events and analytical results are discussed in Section 3.

2.3 Additional Groundwater Evaluations

Pre-design investigations (PDI) were completed in August 2022 and February 2023 to characterize and refine proposed in-situ injection treatment areas proximal to HGWC-8 and HGWC-13, respectively. Twelve direct push technology (DPT) borings were advanced near HGWC-8 and seven borings near HGWC-13 for the collection of remedial design parameters and screening-level groundwater data. These analytical results were used to determine the locations and depths of pilot study injection and performance monitoring piezometers. The results were summarized in *HGWC-8 Pilot Study Workplan* (Geosyntec, 2023a) and *HGWC-13 Pilot Study Workplan* (Geosyntec, 2023b).

Baseline sampling of the performance monitoring piezometers (PT-07, PT-08, PT-09, and PT-10) was performed in July 2023. These analytical results will be summarized in the next semiannual groundwater monitoring report and a comprehensive technical memorandum that will be prepared at the conclusion of the pilot study for inclusion in a subsequent semiannual groundwater monitoring report. Field and laboratory reports will also be included in next semiannual groundwater monitoring report.

3.0 SAMPLING METHODOLOGY AND ANALYSES

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

3.1 Groundwater and Surface Water Level Measurement

A synoptic round of depth-to-groundwater-level measurements were recorded from the AP-1 wells and piezometers during the January 2023 assessment monitoring event and used to calculate the corresponding groundwater elevations, which are presented in **Table 3**. The January 2023 groundwater elevations are generally representative of the groundwater elevations reported for prior monitoring events.

A surface water elevation was recorded at the Coosa River staff gauge located downgradient of AP-1. The location of the Coosa River staff gauge is shown on **Figure 2**. A water level within AP-1 was not recorded in January 2023 as the staff gauge was reportedly removed in preparation of the closure construction activities.

The groundwater and surface water elevation data were used to prepare a potentiometric surface map for the January 2023 gauging 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. This groundwater flow pattern is consistent with previous observations.

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 2023 gauging 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 gauging 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 semiannual reporting period is 0.017 feet per foot (ft/ft).



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 $\left(\frac{feet}{day}\right)$ K_h = Horizontal Hydraulic Conductivity $\left(\frac{feet}{day}\right)$ i = Horizontal hydraulic gradient $\left(\frac{feet}{foot}\right) = \frac{h_1 - h_2}{L}$ 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 2023 gauging event, the average groundwater flow velocity in the vicinity of AP-1 for the semiannual reporting period was calculated to be 1.3 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 semiannual reporting period are provided in **Appendix B**.

3.4 <u>Laboratory Analyses</u>

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 semiannual reporting period are summarized in **Table 5**.



3.5 Quality Assurance and Quality Control Summary

Quality assurance/quality control (QA/QC) samples were collected during the groundwater monitoring events in accordance with the site's *Groundwater Monitoring Plan* (Geosyntec, 2021b), 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 semiannual reporting period. The data were analyzed by Groundwater Stats Consulting (GSC); the report generated from the analyses are provided in **Appendix C**.

4.1 Statistical Methods

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

Appendix III statistical analysis was performed to assess if Appendix III constituents have returned to background levels. Appendix IV constituents were evaluated to assess if concentrations statistically exceeded the established GWPS. Detailed statistical methods used for Appendix III and Appendix IV constituents are discussed in the statistical analysis reports provided in **Appendix C** and summarized in Sections 4.1.1 and 4.1.2. The GWPS were finalized pursuant to § 257.95(d)(2) and presented in **Table 6**.

4.1.1 Appendix III Statistical Methods

Based on guidance from GA EPD, statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits (PLs) combined with a 1-of-2 verification resample plan for each of the Appendix III constituents. Interwell PLs pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each constituent. The most recent sample from each downgradient well is compared to the background limit to assess whether there are statistically significant increases (SSIs). An "initial exceedance" occurs when an Appendix III constituent reported in the groundwater of a downgradient detection monitoring well exceeds the constituent's associated PL.

August 2023

The 1-of-2 resample plan allows for collection of an independent resample. A confirmed exceedance is noted only when the resample confirms the initial exceedance by also exceeding the statistical limit. If the resample falls within its respective PL, no exceedance is declared.

4.1.2 Appendix IV Statistical Methods

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

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

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

- (1) The MCL established under § 141.62 and § 141.66.
- (2) Where an MCL has not been established:
 - (i) Cobalt 0.006 mg/L;
 - (ii) Lead 0.015 mg/L;
 - (iii) Lithium 0.04 mg/L; and
 - (iv) Molybdenum 0.1 mg/L.
- (3) Background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

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

4.2 <u>Statistical Analyses Results</u>

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 semiannual reporting period.

4.2.1 **January 2023 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 semiannual reporting period are consistent with the 2022 annual reporting period.

5.0 NATURE AND EXTENT

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

The identified SSL of arsenic in HGWC-13 is horizontally and vertically delineated to below the GWPS by MW-19 and MW-24D, respectively. Similarly, the SSL of molybdenum in HGWC-8 is horizontally and vertically delineated by MW-20 and MW-27D, respectively. The groundwater data from the January 2023 semiannual assessment monitoring event were used to generate the arsenic and molybdenum iso-concentration maps presented on **Figures 4** and **5**, respectively.

5.1 Alternate Source Demonstrations

An ASD was 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.

An ASD to address the previous SSL of lithium identified in MW-25D was submitted to GA EPD in August 2022 (Geosyntec, 2022b). Geochemical evaluations using Piper and Stiff diagrams indicate that the chemical composition of groundwater sampled from well MW-25D shows no evidence of a CCR impact (i.e., as compared to the geochemistry of AP-1 pore water) and is similar to other deep background and slow recharge wells screened in bedrock (HGWA-43D, MW-30D, MW-40D). Secondly, all previous SSLs of lithium reported in MW-25D have at all times complied with the current GWPS of 0.064 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 § 257.95(g)(1)(iv), the assessment monitoring wells will continue to be sampled as part of the ongoing assessment groundwater monitoring program.

6.2 Assessment of Corrective Measures

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

- The current groundwater conceptual site model applicable to evaluating groundwater corrective measures proposed in the ACM Report (Geosyntec, 2019b);
- An evaluation of each corrective measure retained for further consideration following the completed investigations; and
- An evaluation of corrective measure options using the comparative criteria such as long- and short-term effectiveness and protectiveness, source control effectiveness, and ease of implementation. The *Draft Remedy Selection Report* presents geochemical approaches (in-situ injections) coupled with monitored natural attenuation as the proposed groundwater remedy for AP-1.

In the interim of GA EPD's review of the *Draft Remedy Selection Report*, the state agency issued a letter on September 23, 2022, stating their support for Georgia Power to initiate a pilot study at AP-1 to facilitate further remedy design. On June 30, 2023, Georgia Power submitted separate workplans for HGWC-8 and HGWC-13 to GA EPD outlining the design and implementation of this pilot study (Geosyntec, 2023a, 2023b). Updates concerning the pilot study results will be reported to GA EPD as brief summaries included as part of semiannual groundwater monitoring and corrective action reporting. A

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comprehensive technical memorandum will be prepared at the conclusion of the pilot study for inclusion in a semiannual groundwater monitoring report. This technical memorandum will summarize pilot study results and provide recommendations for the design and implementation of the full-scale groundwater remedy. If pilot study results support full-scale implementation, Georgia Power anticipates receiving written authorization from GA EPD to hold the public meeting with the selected remedy of geochemical approaches (in-situ injection) and monitored natural attenuation (MNA). After the public meeting, Georgia Power will revise the Draft Remedy Selection Report, incorporating results of the pilot study and public meeting comments.



7.0 CONCLUSIONS AND FUTURE ACTIONS

This 2023 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 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 (Geosyntec, 2022a). The next routine semiannual assessment monitoring event for AP-1 is scheduled for August 2023. Progress made regarding the pilot studies and corrective action design will be documented as a brief summary in the next groundwater monitoring and corrective action report. A comprehensive technical memorandum will be prepared at the conclusion of the pilot study for inclusion in a semiannual groundwater monitoring report.

8.0 REFERENCES

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TABLES

Table 1AMonitoring 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)		
Detection Monitoring Well												
HGWA-1	Upgradient	12/3/2014	1550423.32	1940770.00	592.32	595.21	573.12	563.12	32.49	10		
HGWA-2	Upgradient	12/2/2015	1549796.87	1939845.15	585.29	587.92	570.29	560.29	27.95	10		
HGWA-3	Upgradient	12/2/2015	1549794.41	1939833.39	585.23	587.74	553.23	543.23	44.51	10		
HGWA-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		
Assessment Monitoring Wel	l				•							
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		

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 1BPiezometer 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)
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
MW-53	Downgradient	6/2/2023	1548835.51	1942399.62	577.64	580.59	554.54	544.54	36.45	10
MW-54	Downgradient	6/2/2023	1548699.51	1940805.03	592.98	592.66	564.98	554.98	38.30	10
PT-07	Downgradient	6/3/2023	1548675.24	1940933.39	592.00	591.75	554.40	544.40	47.99	10
PT-08	Downgradient	6/3/2023	1548666.82	1940929.58	592.10	591.83	560.20	550.20	42.32	10
PT-09	Downgradient	6/1/2023	1549049.74	1942393.11	577.33	580.35	560.18	550.18	30.47	10
PT-10	Downgradient	6/1/2023	1549040.34	1942413.88	577.39	580.44	560.29	550.29	30.45	10

ft = feet

ft BTOC = feet below top of casing

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

⁽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 MW-53, MW-54, PT-07 through PT-10 certified by GEL Solutions July 17, 2023, and July 26, 2023.

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

Well ID	Hydraulic Location	January 23 - February 1, 2023	Status of Monitoring Well		
	of Sampling Event:	Assessment			
Detection Monitoring W					
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		
Assessment Monitoring	Well				
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 3Summary of Groundwater and Surface Water Elevations
Plant Hammond AP-1, Floyd County, Georgia

	T. CC	January	23, 2023
Well ID	Top of Casing Elevation (1) (ft)	Depth to Water (ft BTOC)	Groundwater Elevation ⁽¹⁾ (ft)
Detection Monitoring Wel	ı		
HGWA-1	595.21	10.25	584.96
HGWA-2	587.92	8.05	579.87
HGWA-3	587.74	7.50	580.24
HGWA-43D	595.08	10.23	584.85
HGWA-44D	594.79	10.96	583.83
HGWC-7	579.18	6.33	572.85
HGWC-8	579.82	7.90	571.92
HGWC-9	580.36	14.85	565.51
HGWC-10	579.37	13.16	566.21
HGWC-11	580.67	16.43	564.24
HGWC-12	580.73	16.50	564.23
HGWC-13	595.76	24.68	571.08
Assessment Monitoring W	'ell	•	
MW-5	581.14	16.67	564.47
MW-6	581.84	17.11	564.73
MW-7	577.73	14.40	563.33
MW-19	580.65	13.68	566.97
MW-20	579.00	12.95	566.05
MW-24D	595.68	29.15	566.53
MW-25D	580.59	16.37	564.22
MW-26D	580.41	14.95	565.46
MW-27D	579.70	8.07	571.63
MW-28D	579.08	8.25	570.83
MW-29	575.06	4.36	570.70
Piezometer	•		
AP1A-1	587.44	5.94	581.50
MW-1	588.66	7.22	581.44
MW-8	586.93	19.14	567.79
MW-30D	578.59	5.90	572.69
MW-40D	578.92	115.42	463.50
Surface Water Level Gaug			
Coosa River			560.40

-- = 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

	January 23, 2023						
Flow Path Direction (1)	h ₁ (ft)	h ₂ (ft)	L (ft)	i (ft/ft)			
Southerly Flow Path (HGWC-13 to MW-7)	571.08	563.33	450	0.017			
Easterly Flow Path (HGWC-8 to MW-20)	571.92	566.05	350	0.017			

Flow Path Direction (1)	K _h (ft/day)	n _e	i (ft/ft)	V (ft/day) ⁽²⁾	V (ft/day) ⁽³⁾
Southerly Flow Path (HGWC-13 to MW-7)	11.82	0.15	0.017	1.4	1.2
Easterly Flow Path (HGWC-8 to MW-20)	11.82	0.15	0.017	1.3	1.3

ft = feet

ft/day = feet per day

ft/ft = feet per foot

 h_1 and h_2 = groundwater elevation at location 1 and 2

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

K_h = horizontal hydraulic conductivity

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

 n_e = effective porosity

V = groundwater flow velocity

- (1) Flow path direction relative to the orientation of AP-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:	1/24/2023	1/24/2023	1/23/2023	1/24/2023	1/24/2023	1/27/2023	2/1/2023	1/26/2023	1/27/2023	1/26/2023	1/26/2023	1/26/2023
	Parameter (1,2,3)												
	Boron	0.015 J	0.046	0.012 J	0.037 J	0.44	0.93	1.9	1.9	0.065	0.50	1.5	0.83
Ħ	Calcium	117	29.4	85.0	56.6	13.2	124	110	173	60.4	113	154	234
	Chloride	9.0	7.1	5.6	4.3	24.9	40.0	52.4	86.9	1.6	8.8	34.6	12.5
APPENDIX	Fluoride	0.089 J	0.053 J	0.061 J	0.23	1.3	0.10	0.40	0.11	0.16	0.20	0.21	0.40
PE	pН	6.76	5.23	7.32	7.56	8.22	7.25	6.60	7.07	6.89	6.24	7.10	6.90
ΑF	Sulfate	48.3	79.7	39.5	34.7	10.1	119	179	217	37.3	209	228	495
	TDS	369	164	293	271	363	473	528	745	188	429	624	962
	Antimony	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.00092 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0027 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0025 J	0.53
	Barium	0.033	0.088	0.13	0.28	0.18	0.065	0.058	0.069	0.041	0.031	0.076	0.079
	Beryllium	< 0.000054	0.00016 J	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.000056 J	< 0.000054	< 0.000054	< 0.000054	< 0.000054	0.000099 J
	Cadmium	< 0.00011	0.00021 J	< 0.00011	< 0.00011	< 0.00011	0.00019 J	0.00014 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
2	Chromium	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0014 J	< 0.0055	0.0013 J	0.0012 J	0.0012 J	< 0.0011	< 0.0011
X	Cobalt	< 0.00039	0.024	< 0.00039	< 0.00039	< 0.00039	0.00067 J	< 0.002	0.00068 J	< 0.00039	< 0.00039	0.0012 J	0.012
APPENDIX	Fluoride	0.089 J	0.053 J	0.061 J	0.23	1.3	0.10	0.40	0.11	0.16	0.20	0.21	0.40
PE	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
AF	Lithium	0.00092 J	0.0014 J	0.003 J	0.002 J	0.064	0.0018 J	0.0015 J	0.0032 J	< 0.00073	< 0.00073	0.0058 J	0.04
	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	0.0027 J	0.0026 J	0.039	0.29	0.021	< 0.00074	0.022	0.048	0.023
	Comb. Radium 226/228	0.549 U	0.829 U	0.311 U	1.25	0.421 U	0.45 U	0.241 U	0.516 U	1.2	0.441 U	0.877	0.719
	Selenium	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	0.0035 J	0.01	< 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	0.00031 J

1 of 2

< = Indicates the parameter was not detected above the analytical method detection limit (MDL).

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

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

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

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

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

Table 5Summary 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:		1/26/2023	1/26/2023	1/26/2023	1/26/2023	1/26/2023	1/26/2023	1/26/2023	1/26/2023	1/27/2023	1/26/2023	1/26/2023
	Parameter (1,2,3)											
APPENDIX III	Boron	0.044	0.71	0.033 J	0.36	0.099	0.47	0.30	1.8	0.12	0.29	1.0
	Calcium	76.1	180	21.6	118	122	107	21.8	179	28.1	64.4	146
	Chloride	0.86 J	30.5	1.2	7.7	30.0	38.0	17.2	83.6	32.5	27.7	62.4
	Fluoride	0.087 J	0.088 J	0.06 J	0.098 J	0.081 J	0.083 J	1.6	0.11	0.30	0.22	0.068 J
	pH	6.07	6.90	6.23	6.13	6.95	7.61	7.74	7.14	7.80	7.67	7.23
	Sulfate	137	203	26.0	214	109	152	0.59 J	240	9.1	40.8	161
	TDS	363	646	89.0	490	482	412	346	741	255	349	632
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	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
	Barium	0.05	0.079	0.044	0.039	0.097	0.054	0.65	0.065	0.94	0.80	0.076
	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	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	0.0032 J	0.0014 J	0.0017 J	0.0011 J	< 0.0011	< 0.0011	0.0012 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	< 0.00039	0.00044 J	< 0.00039	0.022	< 0.00039	< 0.00039	< 0.00039	0.00051 J	< 0.00039	< 0.00039	0.00056 J
	Fluoride	0.087 J	0.088 J	0.06 J	0.098 J	0.081 J	0.083 J	1.6	0.11	0.30	0.22	0.068 J
	Lead	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	< 0.00073	< 0.00073	< 0.00073	0.0038 J	< 0.00073	0.0025 J	0.036	0.0031 J	0.0072 J	0.011 J	0.0019 J
	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	< 0.00074	0.0029 J	< 0.00074	0.012	< 0.00074	0.0012 J	< 0.00074	0.028	0.0014 J	0.0025 J	0.0029 J
	Comb. Radium 226/228	0.909	0.493 U	0.318 U	0.333 U	0.561 U	0.0906 U	1.1	0.386 U	1.1	0.821	0.793 U
	Selenium	0.0045 J	< 0.0014	< 0.0014	0.0056	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

2 of 2

August 2023

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 (3,4)
Antimony	mg/L	0.006	N/A	0.003	0.006
Arsenic	mg/L	0.01	N/A	0.005	0.01
Barium	mg/L	2	N/A	0.46	2
Beryllium	mg/L	0.004	N/A	0.0005	0.004
Cadmium	mg/L	0.005	N/A	0.0005	0.005
Chromium	mg/L	0.1	N/A	0.0079	0.1
Cobalt	mg/L	N/A	0.006	0.038	0.038
Fluoride	mg/L	4	N/A	1.3	4
Lead	mg/L	N/A	0.015	0.001	0.015
Lithium	mg/L	N/A	0.04	0.064	0.064
Mercury	mg/L	0.002	N/A	0.0002	0.002
Molybdenum	mg/L	N/A	0.1	0.01	0.1
Selenium	mg/L	0.05	N/A	0.005	0.05
Thallium	mg/L	0.002	N/A	0.001	0.002
Combined Radium-226/228	pCi/L	5	N/A	4.36	5

CCR = Coal Combustion Residuals

GWPS = Groundwater Protection Standard

MCL = Maximum Contaminant Level

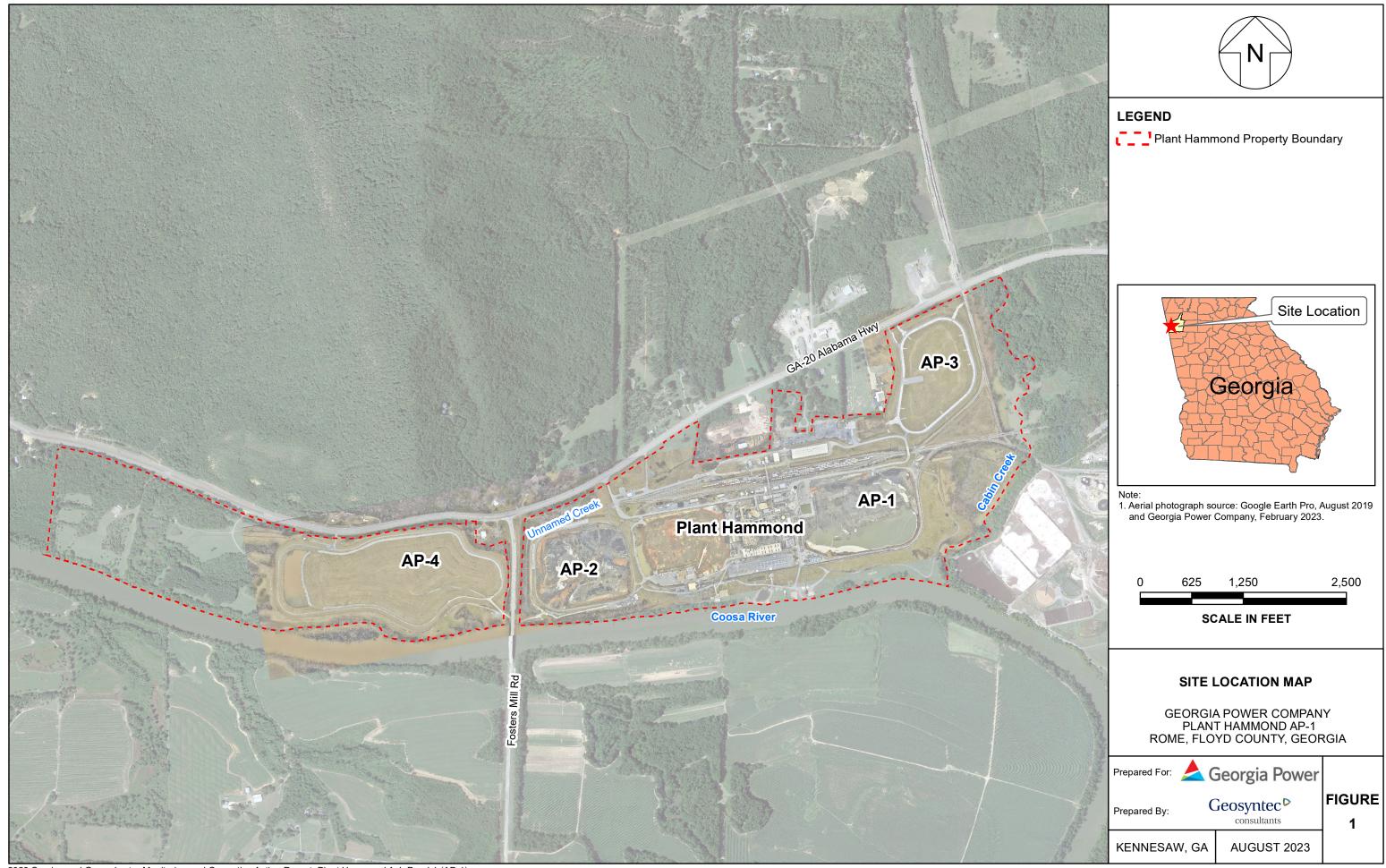
mg/L = milligrams per liter

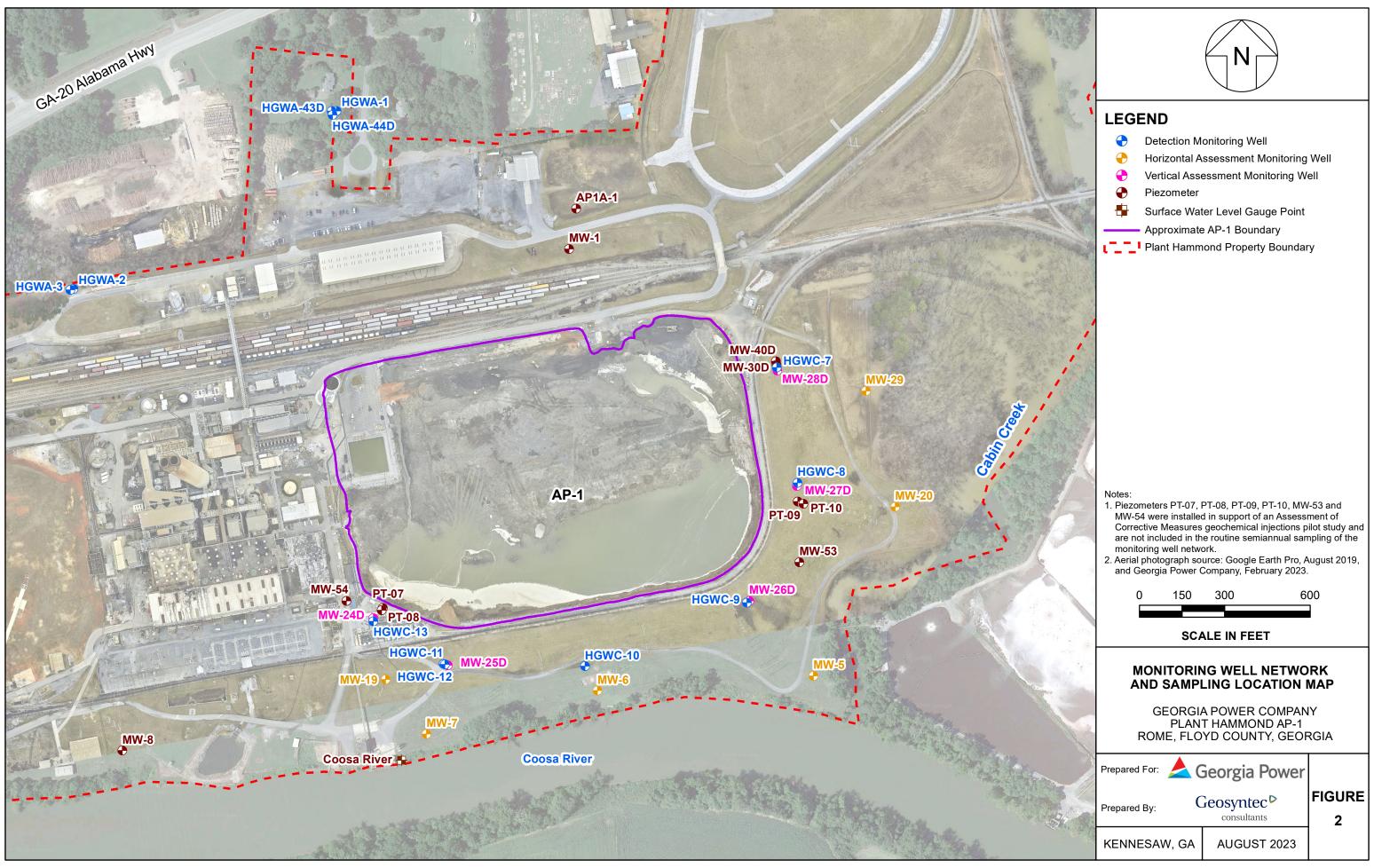
N/A = Not Applicable

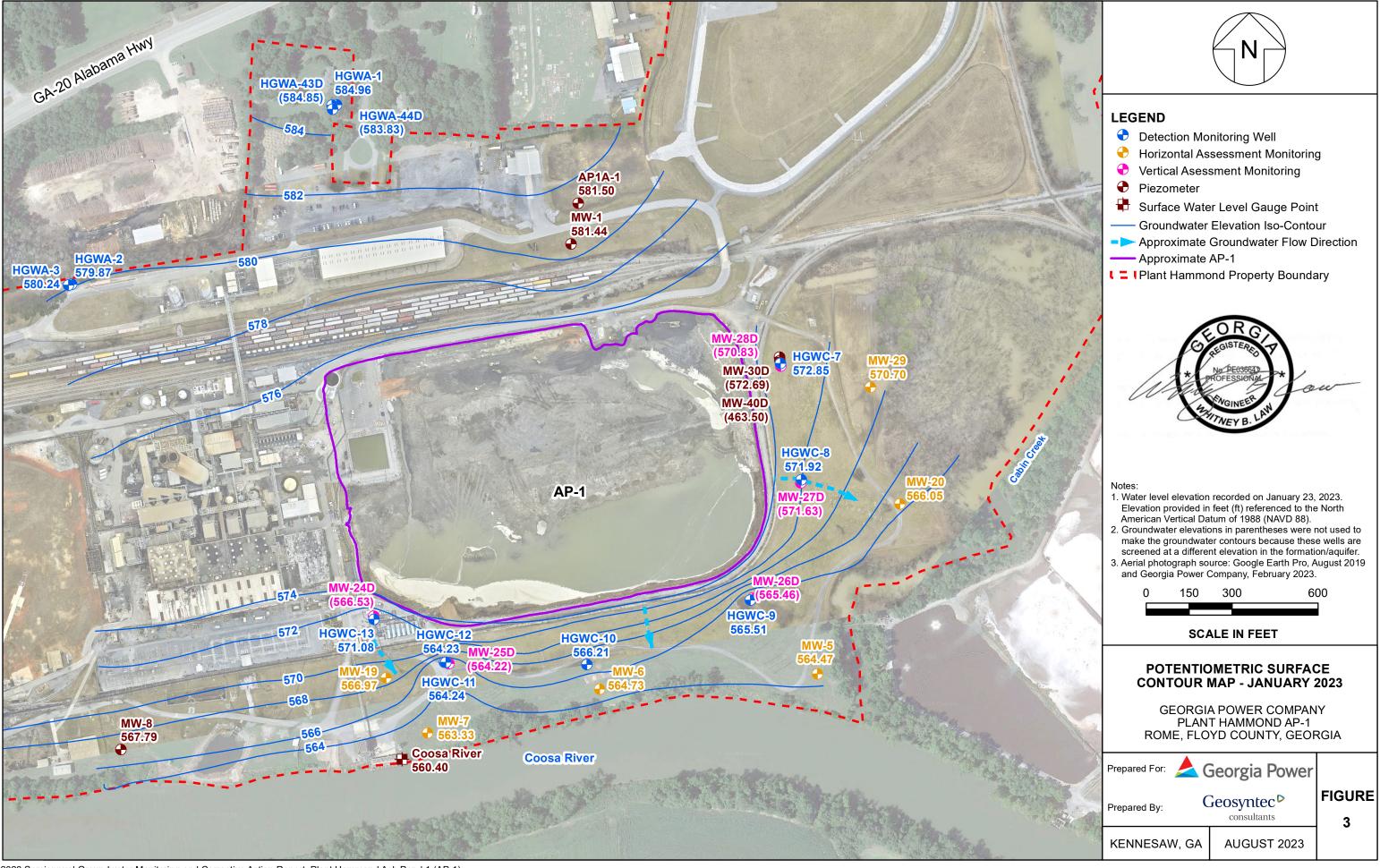
pCi/L = picocuries per liter

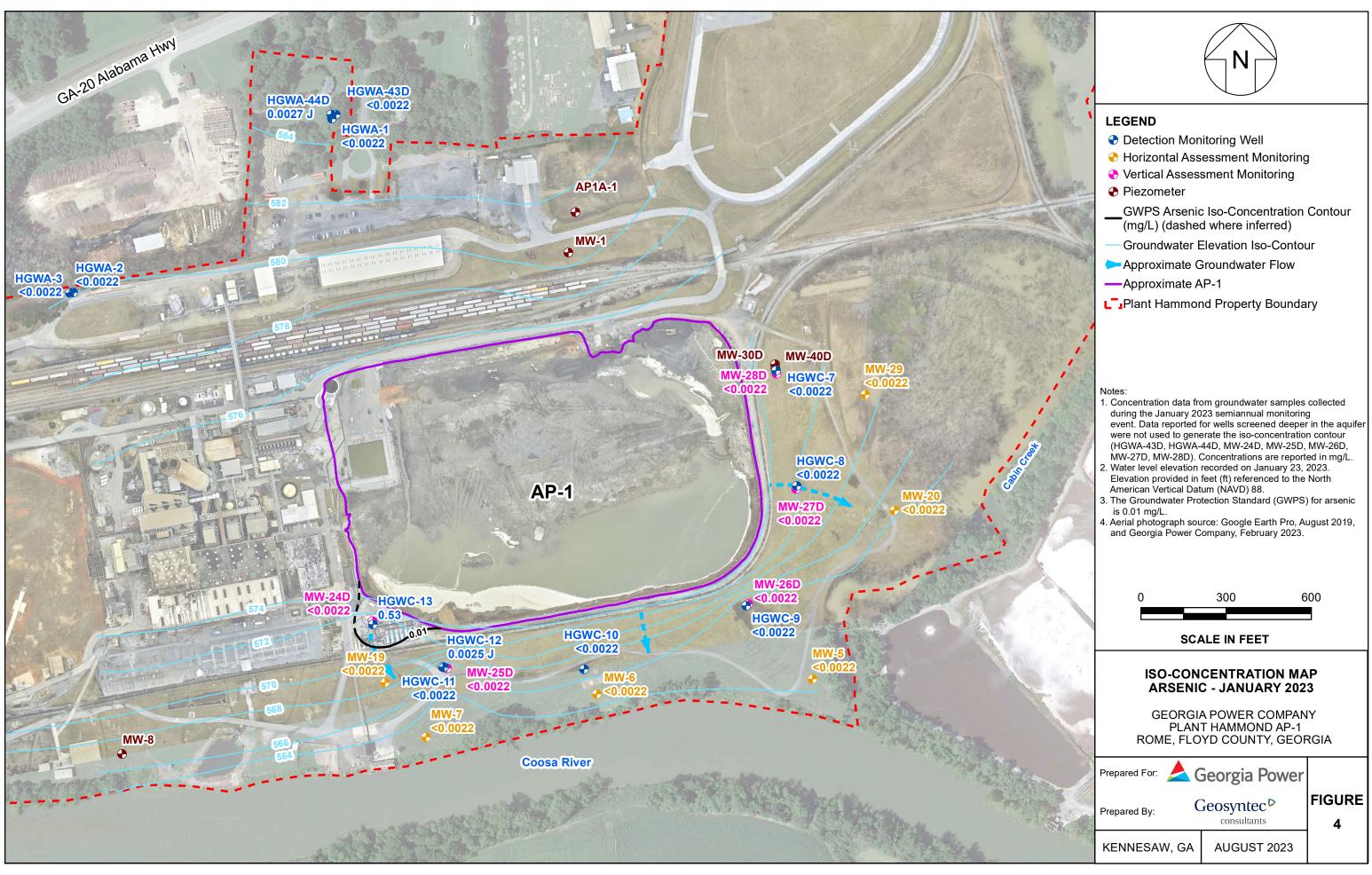
- (1) On February 22, 2022, the Georgia Environmental Protection Division (GA EPD) adopted the federally promulgated GWPS for cobalt, lithium, lead, and molybdenum.
- (2) The background limits were used when determining the GWPS under 40 CFR 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a).
- (3) Under 40 CFR 257.95(h)(1-3) the GWPS is: (i) the maximum contaminant level (MCL) established under §§141.62 and 141.66 of this title; (ii) where an MCL has not been established a rule-specific GWPS; or (iii) background levels for constituents where the background level is higher than the MCL or rule-specified GWPS.

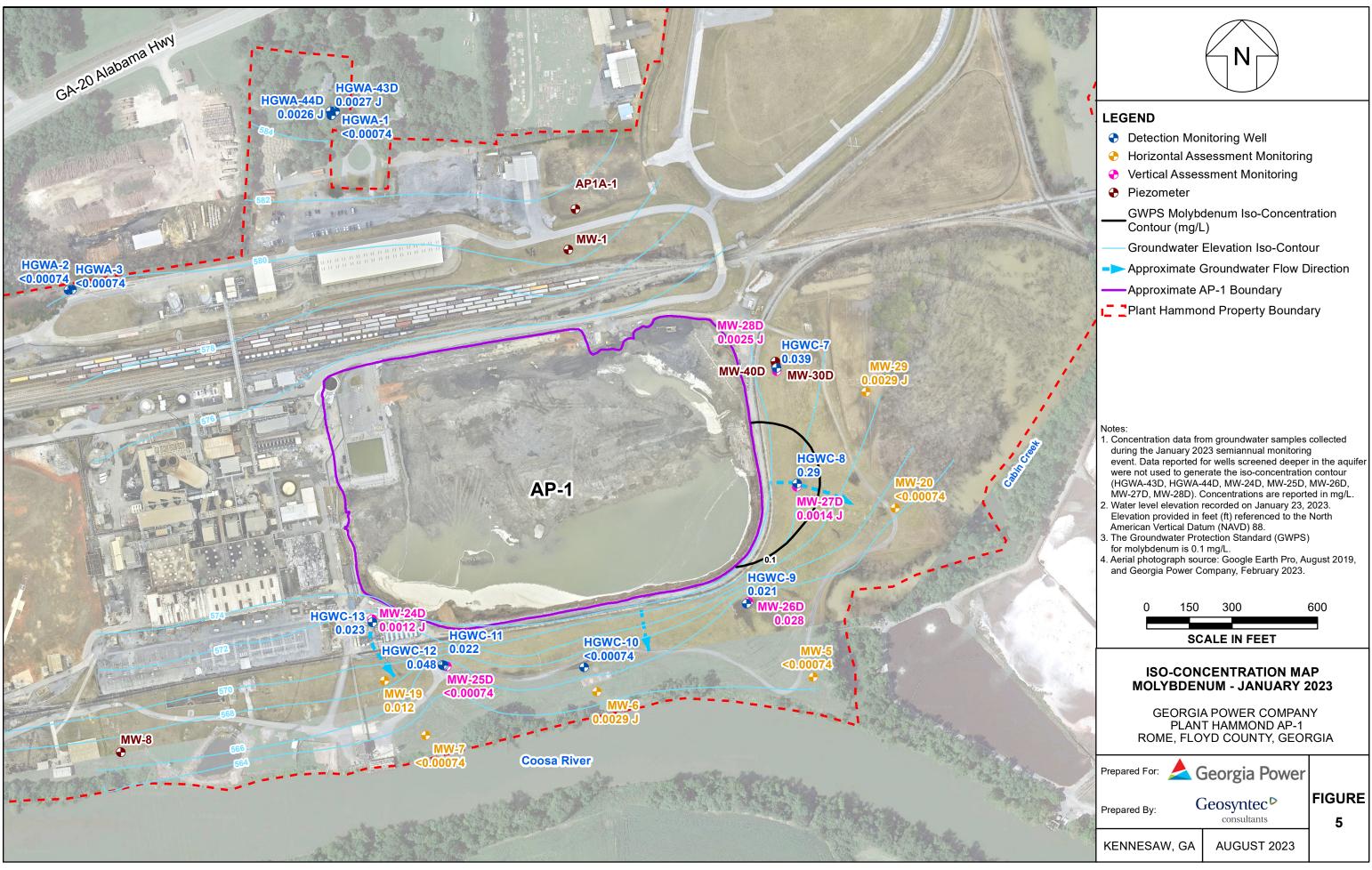
FIGURES











APPENDIX A

Well Maintenance and Repair Documentation Memorandum





MEMORANDUM

DATE: June 22, 2023

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 Ash Pond 1 (AP-1) during the January/February 2023 sampling event. 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	1/23/2023	All Wells	Checked and cleared weep holes of debris.

ATTACHMENT

Fie	ant Name/Unit Name Plant Hammand AP-1, AP-2, AP-3 eld Technician C. CAIN		mm/dd/yyyy <u>)</u> Conditions	1/23/23 sunny	50F
VVe	ell ID HGWA-I				
		Yes	No		Comments
	<u>Location/Identification</u>	-			
	a Is the well visible and accessible?	_/			
	b Is the well properly identified with the correct well ID?	V			
	c Is the well in a high traffic area?				
	d Are appropriate measures in place to protect the well (e.g., bollards)?	-V			
	e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	/			
2	Destructive Continu				-
	Protective Casing				
	a Is the protective casing free from apparent damage and able to be secured?				
		~			
		-			
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	1			
		V			
			_		
	f If locked, is the well lock in good condition? q Is the well lid 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?	1			
	c Is the well pad in complete contact with the protective casing?	1			
	d Is the well pad in complete contact with the ground surface and		* ***		
	stable (not undermined by erosion, animal burrows, and does not				
ì	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?				- la
	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	Sa	meline e	oviomant	,
	b If equipped with dedicated sampling equipment, is it in good				
	operational condition? C If equipped with a dedicated water quality sonde, is it in good				
	operational condition?			/A	
	d Does the desiccant need to be replaced on the water quality sonde?			/A-	
	e If equipped with a water level data logger, is it in good operational condition?			/A	
	f Does the well recharge adequately when purged?	<u></u>			
	g Does the well require redevelopment (low flow, excess turbidity)?		V		
6	Corrective Actions				
O	Corrective Actions a Are corrective actions needed?				
)	a Are corrective actions needed? If yes, indicate here:		· -		
	n yes, maiodie nere.				

Fie	ant Name/Unit Name eld Technician ell ID	Plant Hammond AP-1/2/8 C. CAIN HGWA-2	Date (Field (mm/dd/yyyy <u>)</u> Conditions	Sunny	3/23	
			V	Na		Commente	
1	Location/Identification	n	Yes	No		Comments	
Ċ		le and accessible?	10				
		erly identified with the correct well ID?	D				
		high traffic area?					
		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 i	n obvious drainage flow path)	b				
_			10				
2	Protective Casing						
		e casing free from apparent damage and able to be	200				
	secured?	C. L. C. L. C. L. Astronomy					
		ee of degradation or deterioration?	>				
		g have a functioning weep hole?					
	filled with pea g	pace between casings clear of debris and water, or	1				
	e is the well locke						
		well lock in good condition?	<u> </u>	·			
		good condition?					
		good container.					
3	Surface Pad						
		in good condition (not cracked or broken)?					
		sloped away from the protective casing?					
		in complete contact with the protective casing?	~_	-			
		in complete contact with the ground surface and ermined by erosion, animal burrows, and does not					
V.	move when ste		%				
)		ace clean (not covered with sediment or debris)?	- 10	-			
	•	ice clean (not covered with sediment of debris):	_/0_				
4	Internal Casing						
		revent entry of foreign material into the well?	7				
		ee of kinks or bends, or any obstructions from foreign	04500				
	objects (such a	erly vented for equilibration of air pressure?	_%_				
		oint clearly marked on the inner casing?	->-				
		the well consistent with the original well log?					
		able? (or does the pvc move easily when touched or	_				
		apart by hand due to lack of grout or use of slip					
		nstruction)	y				
_							
5	Sampling and Data (
		vell is equipped with dedicated sampling equipment, ater quality sonde, and/or dedicated water level					
	data logger.	ater quality solide, and/or dedicated water level		-1:			
		n dedicated sampling equipment, is it in good	_2m	the ind said	meny		-
	operational cor		1				
		h a dedicated water quality sonde, is it in good					\rightarrow
	operational cor				./0		
	·	cant need to be replaced on the water quality sonde?	_		VA		-
		n a water level data logger, is it in good operational					
	condition?	Bred Bred			NA		
		echarge adequately when purged?	X				
	g Does the well r	require redevelopment (low flow, excess turbidity)?	1	<u> </u>			
6	Corrective Actions						
ia J		actions needed?		×			
	If yes, indicate here:		1				

Plant	Name/Unit Name Plant Hamman! Ap-1/2/3	Date (mm/dd/yyyy <u>)</u>	1/23/23	
	Technician C. CAIN	Field (Conditions _	Sonny.	50
Vell I	HGWA-3			0	
		Yes	No		Comments -
1 1 0	eation/Identification	165	140		Comments
a	Is the well visible and accessible?	X			
b	Is the well properly identified with the correct well ID?	-\w_			=
	· · ·		TATAL TO SERVICE STREET		
C	Is the well in a high traffic area?				
d	Are appropriate measures in place to protect the well (e.g., bollards)?	70			
е	Is the drainage around the well acceptable? (no standing water, nor	12.00			
	is well located in obvious drainage flow path)	~			
2 Dr	otective Casing				
а	Is the protective casing free from apparent damage and able to be				
	secured?				
b	Is the casing free of degradation or deterioration?	_X_			
С	Does the casing have a functioning weep hole?	7			
d	Is the annular space between casings clear of debris and water, or				
	filled with pea gravel/sand?	X			
е	Is the well locked?	X			
f	If locked, is the well lock in good condition?	- W			
g	Is the well lid in good condition?	×	10		
_					
3 <u>Su</u>	<u>rface Pad</u>				
а	Is the well pad in good condition (not cracked or broken)? —	<u>_X_</u>			
b	Is the well pad sloped away from the protective casing?	×			
С	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)?	10			
	Is the pad surface clean (not covered with sediment or debris)?	7			
е	is the pad surface clean (not covered with sediment of debris):		50		
4 Int	ernal Casing				
a	Does the cap prevent entry of foreign material into the well?	D			
b	Is the casing free of kinks or bends, or any obstructions from foreign				
	objects (such as bailers)?	x			
С	Is the well properly vented for equilibration of air pressure?	1			
d	Is the survey point clearly marked on the inner casing?	~			
e	Is the depth of the well consistent with the original well log?		0 		
f	Is the casing stable? (or does the pvc move easily when touched or	_/_	·— ·		
- 1					
	can it be taken apart by hand due to lack of grout or use of slip				
	couplings in construction)	->-	81 5 - 15 -		
5 Sa	mpling 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.			a.	
h	* -	Den	bride Bank	mont	
b	If equipped with dedicated sampling equipment, is it in good				
	operational condition?	_ }\			
С	If equipped with a dedicated water quality sonde, is it in good				
	operational condition?		A	IA	
d	Does the desiccant need to be replaced on the water quality sonde?			rA	
e	If equipped with a water level data logger, is it in good operational	_		-dd	
J	condition?			1/D	
		F-5000		Vβ	
f	Does the well recharge adequately when purged?	×			
g	Does the well require redevelopment (low flow, excess turbidity)?		>		
6.0-	arractive Actions				
	arrective Actions Are corrective actions needed?		b		
a					
11 10	ves, indicate here:				

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 light in good condition? 3 Surface Pad a Is the well pad in good condition (not cracked or broken)? b 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)?	Field T	echnician	C. CAIN Ap-1/2/3		mm/dd/yyy Conditions	(y) 1/23/23 Sunny &
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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. b If equipped with dedicated sampling equipment, is it in good operational condition? c If equipped with a dedicated water quality sonde, is it in good operational condition? d Does the desiccant need to be replaced on the water quality sonde? e If equipped with a water level data logger, is it in good operational condition? f Does the well recharge adequately when purged? g Does the well recharge adequately when purged? g Does the well require redevelopment (low flow, excess turbidity)? 6 Corrective Actions a Are corrective actions needed?	b	Is the casing fre	e of kinks or bends, or any obstructions from foreign		-	
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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. b If equipped with dedicated sampling equipment, is it in good operational condition? c If equipped with a dedicated water quality sonde, is it in good operational condition? d Does the desiccant need to be replaced on the water quality sonde? e If equipped with a water level data logger, is it in good operational condition? f Does the well recharge adequately when purged? g Does the well require redevelopment (low flow, excess turbidity)?	С			V		
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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 If equipped with dedicated sampling equipment, is it in good operational condition? c If equipped with a dedicated water quality sonde, is it in good operational condition? d Does the desiccant need to be replaced on the water quality sonde? e If equipped with a water level data logger, is it in good operational condition? f Does the well recharge adequately when purged? g Does the well require redevelopment (low flow, excess turbidity)? 6 Corrective Actions a Are corrective actions needed?	f					
5 Sampling and Data Collection Equipment a Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level data logger. b If equipped with dedicated sampling equipment, is it in good operational condition? c If equipped with a dedicated water quality sonde, is it in good operational condition? d Does the desiccant need to be replaced on the water quality sonde? e If equipped with a water level data logger, is it in good operational condition? f Does the well recharge adequately when purged? g Does the well require redevelopment (low flow, excess turbidity)? 6 Corrective Actions a Are corrective actions needed?		can it be taken	apart by hand due to lack of grout or use of slip			
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a dedicated water quality sonde, and/or dedicated water level data logger. b If equipped with dedicated sampling equipment, is it in good operational condition? c If equipped with a dedicated water quality sonde, is it in good operational condition? d Does the desiccant need to be replaced on the water quality sonde? e If equipped with a water level data logger, is it in good operational condition? f Does the well recharge adequately when purged? g Does the well require redevelopment (low flow, excess turbidity)? 6 Corrective Actions a Are corrective actions needed?	5 San	npling and Data C	ollection Equipment			
data logger. b If equipped with dedicated sampling equipment, is it in good operational condition? c If equipped with a dedicated water quality sonde, is it in good operational condition? d Does the desiccant need to be replaced on the water quality sonde? e If equipped with a water level data logger, is it in good operational condition? f Does the well recharge adequately when purged? g Does the well require redevelopment (low flow, excess turbidity)? 6 Corrective Actions a Are corrective actions needed?	а	Indicate if the w	ell is equipped with dedicated sampling equipment,			
b If equipped with dedicated sampling equipment, is it in good operational condition? C If equipped with a dedicated water quality sonde, is it in good operational condition? d Does the desiccant need to be replaced on the water quality sonde? e If equipped with a water level data logger, is it in good operational condition? f Does the well recharge adequately when purged? g Does the well require redevelopment (low flow, excess turbidity)? 6 Corrective Actions a Are corrective actions needed?		a dedicated wa	ter quality sonde, and/or dedicated water level			
operational condition? C If equipped with a dedicated water quality sonde, is it in good operational condition? Does the desiccant need to be replaced on the water quality sonde? If equipped with a water level data logger, is it in good operational condition? Does the well recharge adequately when purged? Does the well require redevelopment (low flow, excess turbidity)? Corrective Actions A Are corrective actions needed?				5	mpling	Equipment
C If equipped with a dedicated water quality sonde, is it in good operational condition? d Does the desiccant need to be replaced on the water quality sonde? e If equipped with a water level data logger, is it in good operational condition? f Does the well recharge adequately when purged? g Does the well require redevelopment (low flow, excess turbidity)? 6 Corrective Actions a Are corrective actions needed?	b					<i>D</i> 1
operational condition? d Does the desiccant need to be replaced on the water quality sonde? e If equipped with a water level data logger, is it in good operational condition? f Does the well recharge adequately when purged? g Does the well require redevelopment (low flow, excess turbidity)? 6 Corrective Actions a Are corrective actions needed?		•		1		
d Does the desiccant need to be replaced on the water quality sonde? e If equipped with a water level data logger, is it in good operational condition? f Does the well recharge adequately when purged? g Does the well require redevelopment (low flow, excess turbidity)? 6 Corrective Actions a Are corrective actions needed?	С					NA
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?	d	-				NA
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 equipped with				
g Does the well require redevelopment (low flow, excess turbidity)? 6 Corrective Actions a Are corrective actions needed?	f		echarge adequately when purged?			TV /7
a Are corrective actions needed?					1	Land of the Signal
a Are corrective actions needed?	6 Cor	rective Actions				
If yes, indicate here:			ctions needed?			
	lf ye					3
	()					

Plant	Name/Unit Name Plant Hammand AP-1, AP-2, AP-3	Date (mm/dd/yyyy)	1/23	3/23
Field	Technician (. CAIN	Field C	conditions	SOF	Sannel.
Well			-		
		Yes	No		Comments
1 <u>Lo</u>	cation/Identification		5		
а	Is the well visible and accessible?	/			
b	Is the well properly identified with the correct well ID?	-/			
С	Is the well in a high traffic area?				
d					
	Are appropriate measures in place to protect the well (e.g., bollards)?	~			
е	Is the drainage around the well acceptable? (no standing water, nor				
	is well located in obvious drainage flow path)	/			
2 <u>Pr</u>	otective Casing				
а	Is the protective casing free from apparent damage and able to be				
	secured?	/			
h					
b	Is the casing free of degradation or deterioration?				
С	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?	1			
е	Is the well locked?	/			
f	If locked, is the well lock in good condition?	1			
	Is the well lid in good condition?				
g	is the well lid in good condition?				
3 St	rface Pad				
а а	Is the well pad in good condition (not cracked or broken)?	-			
		-			8.1.11
b	Is the well pad sloped away from the protective casing?				
С	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)?				
е	Is the pad surface clean (not covered with sediment or debris)?				
C	is the pad surface clean (not covered with sediment or debris):				
4 Int	ernal 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				
D					
	objects (such as bailers)?				
С	Is the well properly vented for equilibration of air pressure?				-
d	Is the survey point clearly marked on the inner casing?	~			
е	Is the depth of the well consistent with the original well log?	1			
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)	./			
	couplings in construction)				
5 Sa	impling 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				
	· ·	A/h			
	data logger,	<u>NA</u>			
þ	If equipped with dedicated sampling equipment, is it in good				
	operational condition?			VA	
С	If equipped with a dedicated water quality sonde, is it in good			911	
·				- 10	
	operational condition?			VI	
d	Does the desiccant need to be replaced on the water quality sonde?			NA	
е	If equipped with a water level data logger, is it in good operational	· · · · · · · · · · · · · · · · · · ·	920		
	condition?	X			
f			1/23/23		
	Does the well recharge adequately when purged?				
g	Does the well require redevelopment (low flow, excess turbidity)?	-	V		
60	prrective Actions				
			/		
a	Are corrective actions needed?				=
IT !	yes, indicate here:				
-					

Plant N	ame/Unit Name Plant Hamman AP-1	Date	(mm/dd/yyyy)	1/23/2	3
Field Te	echnician <u>L. CAIN</u>	Field	Conditions	Sonny	50F
Well ID	HGWI-7			0	
					_
4	Ain - Admitted Ain -	Yes	No		Comments
	ntion/Identification				
а	Is the well visible and accessible?	ν	/— —		
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)?	V			
е	Is the drainage around the well acceptable? (no standing water, nor				
	is well located in obvious drainage flow path)	V	<i></i>		
2 Prote	ective Casing				
a	Is the protective casing free from apparent damage and able to be				
а	secured?				
b	Is the casing free of degradation or deterioration?	-			
	Does the casing have a functioning weep hole?		/— —		
c d		V			
u	Is the annular space between casings clear of debris and water, or filled with non-grave/cond?				
	filled with pea gravel/sand? Is the well locked?		, — —		
e			/— —		
f	If locked, is the well lock in good condition?	V			
g	Is the well lid in good condition?	_1/			
3 Surfa	ace Pad				
a	Is the well pad in good condition (not cracked or broken)?	_ /			
b	Is the well pad sloped away from the protective casing?	1/			
С	Is the well pad in complete contact with the protective casing?	V			
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)?				
е	Is the pad surface clean (not covered with sediment or debris)?	-/			
	nal Casing		/		
а	Does the cap prevent entry of foreign material into the well?	1			
b	Is the casing free of kinks or bends, or any obstructions from foreign	10	3		
	objects (such as bailers)?	V			
С	Is the well properly vented for equilibration of air pressure?	~			
d	Is the survey point clearly marked on the inner casing?	V			
е	Is the depth of the well consistent with the original well log?	V			
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)	V			
5 Sam	pling and Data Collection Equipment				
а	Indicate if the well is equipped with dedicated sampling equipment				
	a dedicated water quality sonde, and/or dedicated water level	,			
	data logger.	N	P		
b	If equipped with dedicated sampling equipment, is it in good		•		
-	operational condition?		Λ	IA	
С	If equipped with a dedicated water quality sonde, is it in good			77	
Ü	operational condition?		a a	in	
		:	. —	10	
d	Does the desiccant need to be replaced on the water quality sonde?	_		NIT	
е	If equipped with a water level data logger, is it in good operational				
	condition?		,	VA	
f	Does the well recharge adequately when purged?				
g	Does the well require redevelopment (low flow, excess turbidity)?				
6 Corr	ective Actions				
а <u>оон</u>	Are corrective actions needed?				
3	s, indicate here:	8====			
., , 0	ej marene nere				
					- 0

Plant N	Name/Unit Name Plant Hammand 4P-1	Date	(mm/dd/yyyy)	1/23/23	3
	echnician C. CAIN	Field	Conditions	Sunny	SOF
Well IE	Hawk-8				
4 1	aki an /lalan kifi an ki	Yes	No		Comments
	ation/Identification Is the well visible and accessible?		•		
а	Is the well properly identified with the correct well ID?			_	
Ь	Is the well in a high traffic area?				
C					
d	Are appropriate measures in place to protect the well (e.g., bollards)?				
е	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)				
	is well located in obvious drainage flow path)				
2 Pro	tective Casing				
	Is the protective casing free from apparent damage and able to be				
а	secured?	/	-		
h		-			
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? Is the well locked?				
e		-4			
f	If locked, is the well lock in good condition?				
g	Is the well lid in good condition?				
3 Sur	face Pad				
а	Is the well pad in good condition (not cracked or broken)?	- /			
b	Is the well pad sloped away from the protective casing?	1			
С	Is the well pad in complete contact with the protective casing?	1			
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)?				
е	Is the pad surface clean (not covered with sediment or debris)?	~	l .		
41.					
	ernal Casing				
а	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)? Is the well properly vented for equilibration of air pressure?				
C		-1	. — -		
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 Sar	mpling and Data Collection Equipment				
а	Indicate if the well is equipped with dedicated sampling equipment				
	a dedicated water quality sonde, and/or dedicated water level				
	data logger.		/A		
b	If equipped with dedicated sampling equipment, is it in good				
	operational condition?			NA	
С	If equipped with a dedicated water quality sonde, is it in good	-	-	100	
	operational condition?			A/B	
d	Does the desiccant need to be replaced on the water quality sonde?	-	-	MA	
e	If equipped with a water level data logger, is it in good operational	-		10.01	
·	condition?			4/10-	
ε		-		Tind	
f	Does the well recharge adequately when purged?	_			
g	Does the well require redevelopment (low flow, excess turbidity)?				
6 Cor	rective Actions				
а	Are corrective actions needed?				
↓ If ye	es, indicate here:		- 100 a		

Plant Name/Unit Name Mant Hammered /AP-1	Date (mm/dd/yyyy)	01/23/2023
Field Technician Assumant	Field Conditions	Sunny, 480F
Well ID FIG-WC-9		-
		0 - 1
1 Location/Identification	Yes No	Comments
1 Location/Identification a Is the well visible and accessible?	,	
	<u> </u>	
		<u> </u>
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		1 2
is well located in obvious drainage flow path)		
2 Protective Casing		
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?	<u> </u>	
f If locked, is the well lock in good condition?		
g Is the well lid in good condition?		
2 Curface Dad		
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	<u> </u>	
can it be taken apart by hand due to lack of grout or use of slip		
	/	
couplings in construction)	<u> </u>	
5 Sampling and Data Collection Equipment		
a Indicate if the well is equipped with dedicated sampling equipment,		1 1 1 destadado
a dedicated water quality sonde, and/or dedicated water level	deditate wa	ler level data logger and water
data logger.		All quality sonde
b If equipped with dedicated sampling equipment, is it in good		21-27-2017
operational condition?	013	NA
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		/4//3
condition?	. /	
	<u> </u>	
f Does the well recharge adequately when purged?	<u> </u>	
g Does the well require redevelopment (low flow, excess turbidity)?		
6 Corrective Actions		
a Are corrective actions needed?		
If yes, indicate here:		***
/ 5-21		

Plant N	ame/Unit Name Plant Hammand AP-1		mm/dd/yyyy)	10	1
Mell ID	C. CAIN	Fleid (Conditions	Sonny	50
vveirib	HGWC-10				
		Yes	No		Comments
1 Loca	tion/Identification				
a	Is the well visible and accessible?				
b	Is the well properly identified with the correct well ID?	-/		- 757	
C	Is the well in a high traffic area?				
d	Are appropriate measures in place to protect the well (e.g., bollards)?	/	-V		
e	Is the drainage around the well acceptable? (no standing water, nor				
Ü	is well located in obvious drainage flow path)	/			
	is well located in obvious drainage how path)	V			
2 Prote	ective Casing				
а	Is the protective casing free from apparent damage and able to be				
	secured?				
b	Is the casing free of degradation or deterioration?	/	- 0		
c	Does the casing have a functioning weep hole?	1	8.		
ď	Is the annular space between casings clear of debris and water, or		3.		
ď	filled with pea gravel/sand?	1			
•	Is the well locked?	~			
e					
f	If locked, is the well lock in good condition?				
g	Is the well lid in good condition?				
3 Surfa	ace Pad				
a	Is the well pad in good condition (not cracked or broken)?	1			
b	Is the well pad sloped away from the protective casing?	1			
С	Is the well pad in complete contact with the protective casing?				
d	Is the well pad in complete contact with the ground surface and		1/2		
ŭ	stable (not undermined by erosion, animal burrows, and does not				
	move when stepped on)?	1			
_		-4			
е	Is the pad surface clean (not covered with sediment or debris)?				
4 Inter	nal Casing	42			
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		1		
	objects (such as bailers)?	./			
С	Is the well properly vented for equilibration of air pressure?	-7	O 		
d	Is the survey point clearly marked on the inner casing?	1			
e	Is the depth of the well consistent with the original well log?	1/	(5) - C (5)		
f	Is the casing stable? (or does the pvc move easily when touched or	V			
,	can it be taken apart by hand due to lack of grout or use of slip				
	couplings in construction)				
	couplings in construction)		u — u —		
5 Sam	pling and Data Collection Equipment				
а	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	57			
	operational condition?		A	/A	
С	If equipped with a dedicated water quality sonde, is it in good				
-	operational condition?		À	M	
d	Does the desiccant need to be replaced on the water quality sonde?			VA.	
e				V. C.	
C	If equipped with a water level data logger, is it in good operational			•/D	
-	condition?			MA	
f	Does the well recharge adequately when purged?	V			
g	Does the well require redevelopment (low flow, excess turbidity)?				
6 Corr	ective Actions		EC.		
a <u>con</u>	Are corrective actions needed?		1		
	s, indicate here:				
ii ye	o, maiodo noto.				
_					

Plant N	ame/Unit Name Plant Hammond AP-1		mm/dd/yyyy <u>)</u>	1/23/2	
Field Te	echnician <u>C. CAIN</u>	Field (Conditions	Sunny	50
Nell ID	HGWC-11				
		Yes	No		Comments
1 Loca	ation/Identification				
а	Is the well visible and accessible?				
b	Is the well properly identified with the correct well ID?	V			
С	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	-6			- Table 1
C	is well located in obvious drainage flow path)	~			
2 Prot	ective Casing				
a	Is the protective casing free from apparent damage and able to be				
а	secured?	1			
		V			
b	Is the casing free of degradation or deterioration?				
С	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?	1			
е	Is the well locked?	-			
f	If locked, is the well lock in good condition?	-			
		-			
g	Is the well lid in good condition?	_/			
3 Surf	ace Pad				
a	Is the well pad in good condition (not cracked or broken)?	/			
b	Is the well pad sloped away from the protective casing?				
		-4			
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)?				
е	Is the pad surface clean (not covered with sediment or debris)?	_/			
4 Inter	rnal Casing	/			
a.	Does the cap prevent entry of foreign material into the well?	V			
b	Is the casing free of kinks or bends, or any obstructions from foreign	11			
	objects (such as bailers)?	./			
С	Is the well properly vented for equilibration of air pressure?	-			
	Is the survey point clearly marked on the inner casing?	-			
d		-1/			
е	Is the depth of the well consistent with the original well log?	V			
f	Is the casing stable? (or does the pvc move easily when touched or		2		
	can it be taken apart by hand due to lack of grout or use of slip	/	6		
	couplings in construction)	/			
_ ~~					
	pling and Data Collection Equipment				
а	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	
_	•	-		IV PT	
С	If equipped with a dedicated water quality sonde, is it in good				
	operational condition?			NA	
d	Does the desiccant need to be replaced on the water quality sonde?			NA	
е	If equipped with a water level data logger, is it in good operational	10.5			- + 1
	condition?			A / A	
,			. 	NA	
f	Does the well recharge adequately when purged?	_/			
g	Does the well require redevelopment (low flow, excess turbidity)?				
6.0	enative Astrono				
	rective Actions				
а	Are corrective actions needed?				
If ye	es, indicate here:				
7					

Field T	ame/Unit Name	Date (······································	<i>yyy</i>]	1-11-		
	echnician <u>C. CAIN</u>	Field 0	Condition	s	Sonny	SOF	
Well ID	HGW6-12				0		
	2 11 11 11 11 11 11 11 11 11 11 11 11 11						
	at a transfer of	Yes	No			Comments	
	ation/Identification						
а	Is the well visible and accessible?			_			
b	Is the well properly identified with the correct well ID?	_/					
С	Is the well in a high traffic area?		V				
d	Are appropriate measures in place to protect the well (e.g., bollards)?	~					
е	Is the drainage around the well acceptable? (no standing water, nor	0.1.14.16			745 W		
	is well located in obvious drainage flow path)	/					
				_			
2 Prot	ective Casing						
а	Is the protective casing free from apparent damage and able to be						
-	secured?	1					
b	Is the casing free of degradation or deterioration?	-		-			
		-		-			
С	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?	_		-			
е	Is the well locked?	/	_				
f	If locked, is the well lock in good condition?	-/	-				
g	Is the well lid in good condition?	-/					
_	-						
3 Surf	ace Pad	/					
а	Is the well pad in good condition (not cracked or broken)?	_/					
b	Is the well pad sloped away from the protective casing?	1					
С	Is the well pad in complete contact with the protective casing?	1					
d	Is the well pad in complete contact with the ground surface and			7			
	stable (not undermined by erosion, animal burrows, and does not						
	move when stepped on)?	/					
		-		_			
е	Is the pad surface clean (not covered with sediment or debris)?			_			
4 Inter	nal Casing						
a	Does the cap prevent entry of foreign material into the well?	1					
b	Is the casing free of kinks or bends, or any obstructions from foreign						
J	objects (such as bailers)?	1					
_							
C	Is the well properly vented for equilibration of air pressure?	-		_		_	
d	Is the survey point clearly marked on the inner casing?			_			
е	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	1					
	couplings in construction)	/					
- 2	portes de la persona de la companio de la proposición de la companio del la companio de la companio del la compan		\				
	pling and Data Collection Equipment						
а	Indicate if the well is equipped with dedicated sampling equipment,						
	a dedicated water quality sonde, and/or dedicated water level		155				
	data logger.	Sar	nplina	e	main	mt	
b	If equipped with dedicated sampling equipment, is it in good	,	1 0	U	/ /		
	operational condition?	./					
С	·			-			
C	If equipped with a dedicated water quality sonde, is it in good						
	operational condition?				<i>P</i>		
d	Does the desiccant need to be replaced on the water quality sonde?			N	A		
е	If equipped with a water level data logger, is it in good operational		1 16.				
	condition?			N	Δ		
f	Does the well recharge adequately when purged?			N	r.i		
	Does the well require redevelopment (low flow, excess turbidity)?		-	_			N
	Does the well require redevelopment (low flow, excess turbidity)?			-			
g							
g	ective Actions						
g 6 <u>Corr</u>	ective Actions Are corrective actions needed?		./				
g 6 <u>Corr</u> a	ective Actions Are corrective actions needed? s, indicate here:						

Plant N	Name/Unit Name _	Plant Hummond AP-1		mm/dd/yyyy)			
	echnician	A; Szwast	Field (Conditions _	sunny, 450E		
Well ID	· -	1-16-VC-13					
			Yes	No	Comments -		
1 Loc	ation/Identification						
a		and accessible?					
b	Is the well prope	rly identified with the correct well ID?	V	80-70 m = 5			
С	Is the well in a hi			<u></u>			
d	Are appropriate	measures in place to protect the well (e.g., bollards)?					
е		round the well acceptable? (no standing water, nor	O * 1 + 2		THE REPORT OF		
	is well located in	obvious drainage flow path)					
. = .							
2 Pro	tective Casing						
а	•	casing free from apparent damage and able to be	1				
	secured?		ν_{\perp}				
b		e of degradation or deterioration?		_			
C		have a functioning weep hole?					
d		ace between casings clear of debris and water, or					
	filled with pea gr						
e	Is the well locked		-4				
f		vell lock in good condition?	1				
g	Is the well lid in o	good condition?					
3 Sun	face Pad						
a		good condition (not cracked or broken)?	1				
b		oped away from the protective casing?	V				
С		complete contact with the protective casing?	V				
d		complete contact with the ground surface and					
		rmined by erosion, animal burrows, and does not					
	move when step						
е		e clean (not covered with sediment or debris)?		-			
		,		-			
/	rnal Casing		/				
а,		event entry of foreign material into the well?					
Ь		e of kinks or bends, or any obstructions from foreign	1/				
_	objects (such as						
C		rly vented for equilibration of air pressure?	4				
d		nt clearly marked on the inner casing? ne well consistent with the original well log?	-				
e f		ble? (or does the pvc move easily when touched or					
ī		part by hand due to lack of grout or use of slip					
	couplings in con		. /				
	couplings in con	struction)					
5 San		ollection Equipment			, do dread o d		
а		ell is equipped with dedicated sampling equipment,	dec	breated water	in quality soude, interlevel detalo		
	a dedicated wa	ter quality sonde, and/or dedicated water level		1. day	1 = 1 = 1		
	data logger.			reuran	of sampling equipment		
b	If equipped with	dedicated sampling equipment, is it in good					
	operational cond	lition?		2 2 5			
С	If equipped with	a dedicated water quality sonde, is it in good	,		. @		
	operational cond		√		AHA 1-27-1023		
d	Does the desico	ant need to be replaced on the water quality sonde?			NIA		
е		a water level data logger, is it in good operational			TELECTION .		
	condition?		./		N/A 0-23.2023		
f		charge adequately when purged?					
g		quire redevelopment (low flow, excess turbidity)?		<u> </u>	*		
•		,		088			
6 <u>Cor</u>	rective Actions			1			
а	Are corrective a	ctions needed?					
	es, indicate here:						

Plant Name/Unit Name Plant Hammand AP-1 Field Technician Well ID APIA-1	Pield Conditions Sunny 50F
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?	Yes No Comments
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?	
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>NP</i> -
 If equipped with dedicated sampling equipment, is it in good operational condition? 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?	ω 1/23/23 N/A
f Does the well recharge adequately when purged? g Does the well require redevelopment (low flow, excess turbidity)?	× VA
6 <u>Corrective Actions</u> a Are corrective actions needed? If yes, indicate here:	

	ame/Unit Name Plant Hammand AP-1 echnician C. CAIN MW-1	[F	Date (m Field Co	1111	1/23/23 Sonny	50F	
VVÇII ID	7400-1	9	etes:			_	
1 Loca a b c d e	Is the well visible and accessible? Is the well properly identified with the correct well ID? Is the well in a high traffic area? Are appropriate measures in place to protect the well (e.g. Is the drainage around the well acceptable? (no standing	g., bollards)?	Yes	No		Comments	
	is well located in obvious drainage flow path)	-	/				
2 Prote	ective Casing						
а	Is the protective casing free from apparent damage and a secured?	able to be	1				
b d	Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and	u - Water, or	7	_ =			
	filled with pea gravel/sand? Is the well locked?	-	4				
e f g	If locked, is the well lock in good condition? Is the well lid in good condition?	-	V	_ =			
3 Surfa	ace Pad						
a b c	Is the well pad in good condition (not cracked or broken)? Is the well pad sloped away from the protective casing? Is the well pad in complete contact with the protective cas is the well pad in complete contact with the ground surface.	sing?	V				
e	stable (not undermined by erosion, animal burrows, and omove when stepped on)? Is the pad surface clean (not covered with sediment or details).	does not	/				
/ Inter	nal Casing	_					
a b	Does the cap prevent entry of foreign material into the we Is the casing free of kinks or bends, or any obstructions for objects (such as bailers)?		/				
c d e	Is the well properly vented for equilibration of air pressure is the survey point clearly marked on the inner casing?— Is the depth of the well consistent with the original well located the control of	g?	Y	_ :			
f	Is the casing stable? (or does the pvc move easily when can it be taken apart by hand due to lack of grout or use couplings in construction)		/				2
5 <u>Sam</u> a	Indicate if the well is equipped with dedicated sampling a dedicated water quality sonde, and/or dedicated water data logger.		N	'h-			
b	If equipped with dedicated sampling equipment, is it in go operational condition?	ood			NA	_	
С	If equipped with a dedicated water quality sonde, is it in goperational condition?	good			NA		
d	Does the desiccant need to be replaced on the water qua	· ·			NA		
е	If equipped with a water level data logger, is it in good op condition?	perational			NA		
f g	Does the well recharge adequately when purged? Does the well require redevelopment (low flow, excess to	urbidity)?		_ -	NA		
а	rective Actions Are corrective actions needed? es, indicate here:	-		<u> </u>			

Field Te	chnician Plant Hammand AP-1		mm/dd/yy Condition:		1/23/2 Suring	
Vell ID					•	
1 <u>Loca</u> a b	tion/Identification Is the well visible and accessible? Is the well properly identified with the correct well ID?	Yes	No	<u> </u>		Comments
C	Is the well in a high traffic area?		1	-		
d	Are appropriate measures in place to protect the well (e.g., bollards)?	~		_		
е	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	_/				
2 Prote	ective Casing					
а	Is the protective casing free from apparent damage and able to be secured?	1				
b	Is the casing free of degradation or deterioration?	-		-		
C	Does the casing have a functioning weep hole?	1		5		
d	Is the annular space between casings clear of debris and water, or			7		
	filled with pea gravel/sand?		4			
е	Is the well locked?	_/		_		
f	If locked, is the well lock in good condition?					
g	Is the well lid in good condition?			-		
	ice Pad	,				
a	Is the well pad in good condition (not cracked or broken)?	-V		_		
b	Is the well pad sloped away from the protective casing? Is the well pad in complete contact with the protective casing?	-		_		
c d	Is the well pad in complete contact with the ground surface and			-		
ŭ	stable (not undermined by erosion, animal burrows, and does not					
	move when stepped on)?	/				
е	Is the pad surface clean (not covered with sediment or debris)?	1	_			
4 Interi	nal Casing					
a	Does the cap prevent entry of foreign material into the well?	1				
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	_				
С	Is the well properly vented for equilibration of air pressure?	/				
d	Is the survey point clearly marked on the inner casing?	_/				
е	Is the depth of the well consistent with the original well log?	_				
Ť	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)	1				
- 0						
a <u>Sam</u>	pling and Data Collection Equipment Indicate if the well is equipped with dedicated sampling equipment, a dedicated water quality sonde, and/or dedicated water level		,			
b	data logger. If equipped with dedicated sampling equipment, is it in good operational condition?	200	mpling	- 1	guipm	von t
С	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?	-	:	7—A	<u>//</u> } //}	
e	If equipped with a water level data logger, is it in good operational condition?	2			y n	
f	Does the well recharge adequately when purged?	~	8			
g	Does the well require redevelopment (low flow, excess turbidity)?		1			
6 Carr	ective Actions	2,		A.		
	ective Actions Are corrective actions needed?		/			
а						

Plant N	ame/Unit Name Plant Hammand AP-I	Date (r	mm/dd/yyyy)	1/23/23
Field Te	echnician C. CAIN	Field C	Conditions	Sunny 50F
Well ID	MW-6			
		.,		
1 1 000	ation/Identification	Yes	No	Comments
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			
Е	is well located in obvious drainage flow path)			
	is well located in obvious drainage flow patif)	_/		
2 Prot	ective Casing			
a	Is the protective casing free from apparent damage and able to be			
a	secured?	1		
h				
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?	-4		
е	Is the well locked?			
f	If locked, is the well lock in good condition?			
g	Is the well lid in good condition?			
3 Surf	ace Pad			
a	Is the well pad in good condition (not cracked or broken)?	./		
b	Is the well pad sloped away from the protective casing?			<u>*</u>
	Is the well pad in complete contact with the protective casing?			
c d	Is the well pad in complete contact with the protective casing?			
u				
	stable (not undermined by erosion, animal burrows, and does not	-		
1	move when stepped on)?	_		
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Inter	nal Casing			
а	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from foreign			
-	objects (such as bailers)?	/		
С	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			
		1		
	couplings in construction)			
5 Sam	pling and Data Collection Equipment			
а	Indicate if the well is equipped with dedicated sampling equipment,			
	a dedicated water quality sonde, and/or dedicated water level			
	data logger.	5	ampling	eminerant
b	If equipped with dedicated sampling equipment, is it in good			C. P. C.
	operational condition?	1	_	
С	If equipped with a dedicated water quality sonde, is it in good			
Ū	operational condition?			1 0
٦	·	-		<u>/A</u>
ď	Does the desiccant need to be replaced on the water quality sonde?			71
е	If equipped with a water level data logger, is it in good operational			
_	condition?		A	<i>/</i> h
f	Does the well recharge adequately when purged?	/		
g	Does the well require redevelopment (low flow, excess turbidity)?			
6 Corr	ective Actions			
a <u>Con</u>	Are corrective actions needed?			
1	s, indicate here:	-		
ii ye	o, indicate nere.			
-				

Plant	Name/Unit Name Plant Hammand AP-1 Technician C. CAIN	Date (mm/dd/yyyy <u>)</u> Conditions	1/23/23 Sunny	50F
Vell I		1 1014	501141110110	sonny	
		Yes	No		Comments
1 <u>Lo</u>	cation/Identification				
а	Is the well visible and accessible?	V			
b	Is the well properly identified with the correct well ID?	~		-	
С	Is the well in a high traffic area?				
d	Are appropriate measures in place to protect the well (e.g., bollards)?	-			
е	Is the drainage around the well acceptable? (no standing water, nor				
	is well located in obvious drainage flow path)	./			
2 Pr	otective Casing				
а	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	_			
u	filled with pea gravel/sand?				
_		-			
e	Is the well locked?	-/-			
T	If locked, is the well lock in good condition?				
g	Is the well lid in good condition?				
3 Su	ırface Pad				
a	Is the well pad in good condition (not cracked or broken)?	1			
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				
u	stable (not undermined by erosion, animal burrows, and does not				
		/			
)	move when stepped on)?		(
е	Is the pad surface clean (not covered with sediment or debris)?		()		
4 Int	ternal Casing				
a	Does the cap prevent entry of foreign material into the well?	1			19
b	Is the casing free of kinks or bends, or any obstructions from foreign				
~	objects (such as bailers)?	1			0
С	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				
		1			
	couplings in construction)				
5 Sa	ampling 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.	C.	maline .	en inser	mt.
ь	If equipped with dedicated sampling equipment, is it in good		1	UT	
~	operational condition?	1	v	•	
	·				
С	If equipped with a dedicated water quality sonde, is it in good		99		
	operational condition?		<i>N</i>	<u> </u>	
d	Does the desiccant need to be replaced on the water quality sonde?			VP-	
е	If equipped with a water level data logger, is it in good operational	, c	8 9 8 10		
	condition?			// *	
f	Does the well recharge adequately when purged?	-:/			
-	Does the well require redevelopment (low flow, excess turbidity)?				
g	2000 the well require ready biophilent (low flow, excess turbialty)!				
6 <u>C</u> c	orrective Actions				
а	Are corrective actions needed?				
lf :	yes, indicate here:		8 8		

Plant Name/Unit Name Plant Hammond AP-1/AP-2 Field Technician Well ID MW-8	Date (mm/dd/yyyy) 1/23/23 Field Conditions 50°F Surmy
1 Location/Identification a Is the well visible and accessible? b Is the well properly identified with the correct well ID? c Is the well in a high traffic area? d Are appropriate measures in place to protect the well (e.g., bollards)? e Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	Yes No Comments
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?	
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 Does the cap prevent entry of foreign material into the well? Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? Is the well properly vented for equilibration of air pressure? Is the survey point clearly marked on the inner casing? Is the depth of the well consistent with the original well log? 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 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? lf 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)?	NA
6 Corrective Actions a Are corrective actions needed? If yes, indicate here:	

int Name/Unit Nam	Plant Hammand AP-1	Date (mm/dd/yyyy) 1/23/23					
ld Technician	C. CAIN	Field Conditions	sunny SOF				
III ID	MW-19						
		Yes No	Comments				
Location/Identificat	on	103	oommento				
	ble and accessible?						
b Is the well pro	perly identified with the correct well ID?						
c Is the well in a	high traffic area?						
	te measures in place to protect the well (e.g., bolla	rds)?					
e Is the drainag	e around the well acceptable? (no standing water,	nor					
is well located	in obvious drainage flow path)						
Desta etili - Casia -							
Protective Casing	us assing from from apparent demans and able to						
a Is the protecti secured?	ve casing free from apparent damage and able to b	oe					
	ree of degradation or deterioration?	<u> </u>					
	ng have a functioning weep hole?	- V					
	space between casings clear of debris and water,	or					
filled with pea		OI _					
	=	-V/					
	e well lock in good condition?						
		_					
g is the well lid	in good condition?						
Surface Pad		·					
	d in good condition (not cracked or broken)?						
b Is the well page	d sloped away from the protective casing?						
	in complete contact with the protective casing?						
	d in complete contact with the ground surface and						
	dermined by erosion, animal burrows, and does no	t 🍃					
move when s	epped on)?						
e Is the pad sur	face clean (not covered with sediment or debris)?						
Internal Casing							
	prevent entry of foreign material into the well?						
	ree of kinks or bends, or any obstructions from fore	eign ————————————————————————————————————					
objects (such							
	perly vented for equilibration of air pressure?						
	point clearly marked on the inner casing?	-					
	f the well consistent with the original well log?						
	stable? (or does the pvc move easily when touche	d or					
	n apart by hand due to lack of grout or use of slip						
	onstruction)	V					
Sampling and Data	Collection Equipment						
	well is equipped with dedicated sampling equipn	nent .					
	vater quality sonde, and/or dedicated water leve						
data logger.	7	Smarting	uiate and				
	th dedicated sampling equipment, is it in good	The state of the s	- Soul				
operational co		1/					
•	th a dedicated water quality sonde, is it in good						
operational co		N	'A				
•	ccant need to be replaced on the water quality son		A				
	th a water level data logger, is it in good operation						
condition?	a mater level data legger, le it in good operation	M	4				
	recharge adequately when purged?		T.				
	require redevelopment (low flow, excess turbidity)						
Corrective Actions	actions pooded?	/					
a Are corrective If yes, indicate here	actions needed?						
a ves. mulcate nere	i.						

FIE	nt Name/Unit Name ld Technician ell ID	C. CAIN NW-20	AP-I		mm/dd/yyyy <u>)</u> Conditions	1/23/23 Sunny	50F	
	Location/Identification	n le and accessible?		Yes	No		Comments	
	b Is the well propose Is the well in a l	erly identified with the co high traffic area?	rrect well ID? otect the well (e.g., bollards)?	7	<u>_</u> =			
		around the well acceptal n obvious drainage flow	ole? (no standing water, nor path)					
2	Protective Casing							
	a Is the protective secured?	e casing free from appare	ent damage and able to be	1				
	b Is the casing fre	ee of degradation or dete	rioration?	1				
		g have a functioning wee		_				
			ear of debris and water, or	/				
	filled with pea g e Is the well locke							
		well lock in good condition	on?	-				
		good condition?		1				
	Surface Pad a Is the well pad i	in good condition (not cra	acked or broken)?	/				
	· ·	sloped away from the pro	•	1				
		in complete contact with		/				
		in complete contact with						
			nal burrows, and does not	20				
	move when ste		th andimont or debrick?					
	e Is the pad surfa	ice clean (not covered wi	tn sediment or debris)?					
4	Internal Casing							
	b Is the casing fre		aterial into the well? iny obstructions from foreign					
	objects (such as c Is the well prop	s ballers)? erly vented for equilibrati	on of air pressure?					
		oint clearly marked on the		-				
		the well consistent with th		-				
			nove easily when touched or					
		apart by hand due to lac nstruction)	k of grout or use of slip					
5	Sampling and Data C	Collection Equipment						
	a Indicate if the war a dedicated wa	ell is equipped with dedi	cated sampling equipment, or dedicated water level	D/	11 . 0	1.5	L	
	data logger. b If equipped with operational con	n dedicated sampling equ	uipment, is it in good	<u>DA</u>	adder of	ment	1	
	•	n a dedicated water quali	ty sonde, is it in good			1/n		
	· ·		on the water quality sonde?	0		MA		
			er, is it in good operational	8		/A		
		echarge adequately whe		1				
	g Does the well re	equire redevelopment (lo	w flow, excess turbidity)?	. —				
6	Corrective Actions							
j		actions needed?		·				
8	If yes, indicate here:							
7								

Plant N	lame/Unit Name	Plant Hammond AP-1	Date (mm/dd/	(VVVV) 01/23/2023
	echnician	A. Szwast	Field Condition	77777
Vell ID	_	MW-24D		
	_		oranos vari	
4 1	-4:/ 4:6:4:		Yes No	Comments
a	ation/Identification	e and accessible?	1/	
b		rly identified with the correct well ID?	-	
C	Is the well in a h			
d		measures in place to protect the well (e.g., bollards)	7 —	*: *
e		around the well acceptable? (no standing water, nor		Tec Street of Loren N
Ū		obvious drainage flow path)	- 1/	
		,		
2 Prof	tective Casing			
а	Is the protective	casing free from apparent damage and able to be		
	secured?			
b		e of degradation or deterioration?		
С		have a functioning weep hole?	<u> </u>	
d		pace between casings clear of debris and water, or	L+uX proffing (
	filled with pea gr		<u> </u>	- p
е	Is the well locke		<u> </u>	
f		well lock in good condition?	- <u> </u>	
g	Is the well lid in	good condition?		
3 Surf	face Pad			
a		n good condition (not cracked or broken)?		
b		loped away from the protective casing?		
С		n complete contact with the protective casing?		-
d		n complete contact with the ground surface and		= -
		rmined by erosion, animal burrows, and does not	7	
	move when step			
е	Is the pad surface	ce clean (not covered with sediment or debris)?		
4 1444				*
	rnal Casing	event entry of foreign material into the well?	. /	
a b		e of kinks or bends, or any obstructions from foreign		· · · · · · · · · · · · · · · · · · ·
D	objects (such as		./	
С		erly vented for equilibration of air pressure?		
d		int clearly marked on the inner casing?	1/	-
e		ne well consistent with the original well log?		*
f		able? (or does the pvc move easily when touched or		2
•		apart by hand due to lack of grout or use of slip		
	couplings in cor			
- ~				
		ollection Equipment ell is equipped with dedicated sampling equipmen	•	
а		ter quality sonde, and/or dedicated water level		
	data logger.	ter quality solide, and/or dedicated water level	dedic	ated sampling equipment
b	107	dedicated sampling equipment, is it in good	- Oce Cur-	area sorring ogsaffi og
•	operational con		,/	
^	•			-
С	operational con-	a dedicated water quality sonde, is it in good		11/1
_	•			- N/M
d		ant need to be replaced on the water quality sonde?		IV/A
е		a water level data logger, is it in good operational		NIA
	condition?	10		JV / JT
f		echarge adequately when purged?	V	
g	Does the well re	equire redevelopment (low flow, excess_turbidity)?		· ·
6 Cor	rective Actions		7.00	47
a <u>001</u>	Are corrective a	ctions needed?	./	
				W V

Plant N	ame/Unit Name	Plant Hammond AP	P-1	Date (r	nm/dd/yyyy	1/23/23	
	chnician	C.CAIN			Conditions	Sonny	50
Well ID		MW-25D				0	
	•						
				Yes	No		Comments
1 Loca	tion/Identification						
а	Is the well visible	e and accessible?					
b	Is the well prope	erly identified with the correct	t well ID?	V			
С	Is the well in a h	nigh traffic area?			1/		
d		measures in place to protec	t the well (e.g., bollards)?				
e		around the well acceptable?					
C		n obvious drainage flow path					
	is well located if	i obvious drainage now patri	,	V			
2 Drote	ective Casing						
а	•	casing free from apparent d	amage and able to be	2			
	secured?			_/			
b	Is the casing fre	e of degradation or deteriora	ition?	/			
С	Does the casino	have a functioning weep ho	le?	1/			
d		pace between casings clear					
u	filled with pea g		or debrie and water, or	,			
_				-			
е	Is the well locke			_			
f		well lock in good condition?		1			
g	Is the well lid in	good condition?		1			
	5 .				9 		
93	ace Pad						
а		n good condition (not cracke		_/_			47
b	Is the well pad s	sloped away from the protect	ive casing?	V			
С	Is the well pad i	n complete contact with the p	protective casing?	-/			
d		n complete contact with the					
=		ermined by erosion, animal b					
			arrows, and does not	1			
	move when step			4			
е	is the pad surfa	ce clean (not covered with se	ediment or debris)?				
4 Intor	nal Casing						
		covert entry of foreign meteri	al into the well?	/			
a		event entry of foreign materi		_V.			
b		e of kinks or bends, or any o	bstructions from foreign				
	objects (such as			_/			
С	Is the well prope	erly vented for equilibration o	f air pressure?	V			
d	Is the survey po	int clearly marked on the inn	er casing?	1/	,		3
е		he well consistent with the or					
f		able? (or does the pvc move					
•		apart by hand due to lack of					
			grout or use or slip	1			
	couplings in cor	istruction)					
5 Sam	nling and Data C	ollection Equipment					
a		ell is equipped with dedicate	d sampling equipment				
a		iter quality sonde, and/or d					
		nter quanty sonde, and/or d	edicated water level				
	data logger.			SAB	mple to	uipmont	
b	If equipped with	dedicated sampling equipm	ent, is it in good				
	operational con-	dition?		/			
С	If equipped with	a dedicated water quality so	ande is it in good				
·			mae, is it in good				
	operational con					NA	
d	Does the desico	cant need to be replaced on t	the water quality sonde?			NA	
е	If equipped with	a water level data logger, is	it in good operational				
	condition?		- ,			aca.	
f		echarge adequately when pu	raed?				
g	Does the well re	equire redevelopment (low flo	ow, excess turbidity)?				
6 Corr	ective Actions						
77	Are corrective a	ections needed?					
a		iotions needed (
ır ye	s, indicate here:						
_							

Plant	Name/Unit Name Plant Hummond (AP-)		mm/dd/yyyy	0/23/2023
	Technician A. Szwast	Field (Conditions	sunny, 450F
Well	ID MV-260			(K)(K)
4 11860500	DOCTOR Y CONTRACT AND	Yes	No	Comments
_	ocation/Identification	./		
а	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?			35
С	Is the well in a high traffic area?			
d	Are appropriate measures in place to protect the well (e.g., bollards)?			
е	Is the drainage around the well acceptable? (no standing water, nor			
	is well located in obvious drainage flow path)			
_ =				
2 <u>Pr</u>	rotective Casing			
а	Is the protective casing free from apparent damage and able to be			
	secured?			
b	Is the casing free of degradation or deterioration?			
С	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?			
е	Is the well locked?			
f	If locked, is the well lock in good condition?	-/-	-	
		-		
g	Is the well lid in good condition?			
3 St	urface Pad			
a	Is the well pad in good condition (not cracked or broken)?	1/		
b	Is the well pad sloped away from the protective casing?	-1/	-	
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			
u				
	stable (not undermined by erosion, animal burrows, and does not			
	move when stepped on)?			
е	Is the pad surface clean (not covered with sediment or debris)?			
4 In	ternal Casing			
a	Does the cap prevent entry of foreign material into the well?			
	Is the casing free of kinks or bends, or any obstructions from foreign			
b		./		
	objects (such as bailers)?	<u></u>		
С	Is the well properly vented for equilibration of air pressure?	-1/		
d	Is the survey point clearly marked on the inner casing?			
е	Is the depth of the well consistent with the original well log?			-1-1
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)			
- 0	and the second part of the second			
_	ampling and Data Collection Equipment			
а	Indicate if the well is equipped with dedicated sampling equipment,		4 40	
	a dedicated water quality sonde, and/or dedicated water level		do do	ted sampling equipment
	data logger.		anyca	Hed ramping cowpount
b	If equipped with dedicated sampling equipment, is it in good	,		
	operational condition?	√		
С	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?	$\overline{}$		- NA
е	If equipped with a water level data logger, is it in good operational			
	condition?			NIA
f	Does the well recharge adequately when purged?	1		
g	Does the well require redevelopment (low flow, excess turbidity)?		V -	,
6 <u>C</u>	orrective Actions		,	
а	Are corrective actions needed?			
/⊢ If	yes, indicate here:			

Plant N	Jame/Unit Name Plant Hammond/AP-1	Date (mm/dd/yyyy)	01/23/2023
rielu i	echnician AL. Jewas T	Field C	Conditions	sunny, 450F
Well ID	MW-27D			
		Yes	No	Comments
1100	ation/Identification	res	NO	Comments
a	Is the well visible and accessible?	H /		
b	Is the well properly identified with the correct well ID?	1		
С	Is the well in a high traffic area?		1/	
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)	V-		
	, , , , , , , , , , , , , , , , , , ,	$\overline{}$		
2 Prot	ective Casing			
а	Is the protective casing free from apparent damage and able to be			
	secured?			
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?	V		
d	Is the annular space between casings clear of debris and water, or			
	filled with pea gravel/sand?			
е	Is the well locked?			
f	If locked, is the well lock in good condition?	V		
g	Is the well lid in good condition?			
2 Suef	face Pad			
a a	Is the well pad in good condition (not cracked or broken)?	./		
b	Is the well pad sloped away from the protective casing?		-	D- 0-04
	Is the well pad in complete contact with the protective casing?	· · · · · ·		×
c d	Is the well pad in complete contact with the ground surface and			
u	stable (not undermined by erosion, animal burrows, and does not			
	move when stepped on)?	1		
				
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Inter	rnal 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)?			
С	Is the well properly vented for equilibration of air pressure?			
d	Is the survey point clearly marked on the inner casing?			
е	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	1		
	couplings in construction)			
5 Sam	npling and Data Collection Equipment			
a	Indicate if the well is equipped with dedicated sampling equipment,			
۵.	a dedicated water quality sonde, and/or dedicated water level		1 . 6	1
	data logger.	d	idreated	sampling egurment
b	If equipped with dedicated sampling equipment, is it in good			- V-1V-1
2	operational condition?	. /		
	•			
С	If equipped with a dedicated water quality sonde, is it in good			NI/A
	operational condition?	:		Juria
d	Does the desiccant need to be replaced on the water quality sonde?			JV//1
е	If equipped with a water level data logger, is it in good operational			A A
_	condition?			./V/N
f	Does the well recharge adequately when purged?			N/100) 1-27-2027
g	Does the well require redevelopment (low flow, excess turbidity)?	-	<u> </u>	
6 Con	rective Actions			
a <u>con</u>	Are corrective actions needed?			
	es, indicate here:			
, c				
-				

Plant N	Name/Unit Name Plant Hammand		nm/dd/yyyy]	1/23/	2.3
	echnician <u>C. CAIN</u>	Field C	onditions	Sunny	50F
Well ID				0	
		Von	No		Comments
1100	ation/Identification	Yes	NO		Comments
' <u>, гоо</u>	Is the well visible and accessible?				
b	Is the well properly identified with the correct well ID?			1 (0)	
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				
e		/			
	is well located in obvious drainage flow path)				
2 Pro	tective Casing				
a	Is the protective casing free from apparent damage and able to be				
а	secured?	/			
h		-			
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				N
	filled with pea gravel/sand?				
е	Is the well locked?				
f	If locked, is the well lock in good condition?				
g	Is the well lid in good condition?				
3 Sur	face Pad				
а <u>ос.</u>	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					
u	Is the well pad in complete contact with the ground surface and				
	stable (not undermined by erosion, animal burrows, and does not	1			
Y	move when stepped on)?				
е	Is the pad surface clean (not covered with sediment or debris)?				
4 Inte	rnal Casing				
а	Does the cap prevent entry of foreign material into the well?	1			
b	Is the casing free of kinks or bends, or any obstructions from foreign		A	_	
_	objects (such as bailers)?	./			
С	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)	1			
	couplings in construction)				-
5 Sar	npling and Data Collection Equipment				
а	Indicate if the well is equipped with dedicated sampling equipment,				
	a dedicated water quality sonde, and/or dedicated water level		_		
	data logger.	SAI	mplina	COUIDY	non†
b	If equipped with dedicated sampling equipment, is it in good		1 1	UT	
	operational condition?	./			
С	If equipped with a dedicated water quality sonde, is it in good				
•	operational condition?				
بہ	Does the desiccant need to be replaced on the water quality sonde?		4	ACIA	
d				V PT	
е	If equipped with a water level data logger, is it in good operational condition?			VA	
f	Does the well recharge adequately when purged?			1	
g	Does the well require redevelopment (low flow, excess turbidity)?		V		
6 Car	rective Actions				
	Are corrective actions needed?		1		
) a If w	es, indicate here:				
пус	55, maioate nete.				
-					

Plant Na	ame/Unit Name Plant Hammand AP-1	Date (mm/dd/yyyy Field Conditions	
Vell ID	MW-24	riela Coliditions	
VCII ID	7100 2		
		Yes No	Comments
1 Loca	tion/Identification		
а	Is the well visible and accessible?	<u> </u>	
b	Is the well properly identified with the correct well ID?		
С	Is the well in a high traffic area?		
d	Are appropriate measures in place to protect the well (e.g., bollards)?		
е	Is the drainage around the well acceptable? (no standing water, nor	2	
	is well located in obvious drainage flow path)		
O D4	ative Consider		
-	ective Casing		
а	Is the protective casing free from apparent damage and able to be	1	
	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 Surfa	ace Pad		
а	Is the well pad in good condition (not cracked or broken)?	V.	
b	Is the well pad sloped away from the protective casing?	7	
С	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)?		
е	Is the pad surface clean (not covered with sediment or debris)?	7	
4 14			
	nal Casing	1	
а	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)? Is the well properly vented for equilibration of air pressure?	<u> </u>	
C			
d	Is the survey point clearly marked on the inner casing? Is the depth of the well consistent with the original well log?	<u></u>	
e f	Is the casing stable? (or does the pvc move easily when touched or		
ı	can it be taken apart by hand due to lack of grout or use of slip		
	couplings in construction)	./	
	couplings in construction)		
5 Sam	pling and Data Collection Equipment		
а	Indicate if the well is equipped with dedicated sampling equipment,		
	a dedicated water quality sonde, and/or dedicated water level		
	data logger	Sampling	equipment
b	If equipped with dedicated sampling equipment, is it in good		
	operational condition?	V	
С	If equipped with a dedicated water quality sonde, is it in good		
	operational condition?		MA
ď	Does the desiccant need to be replaced on the water quality sonde?		MA
e	If equipped with a water level data logger, is it in good operational		
-	condition?		A / /b
f	Does the well recharge adequately when purged?		NP
	Does the well require redevelopment (low flow, excess turbidity)?		
g	2003 the well require redevelopment (low now, excess turbidity)?		
6 Corre	ective Actions		
	Are corrective actions needed?		
а	Are corrective actions needed?		

Plant N	ame/Unit Name Plant Hammand AP-1		mm/dd/y	
	echnician <u>C. CAIN</u>	Field C	Conditio	ns Sunny SUF
Well ID	MW-30D			1
		Yes	No	Comments
1 Loca	ation/Identification			
a	Is the well visible and accessible?	V		
b	Is the well properly identified with the correct well ID?	V		
С	Is the well in a high traffic area?		1	2
d	Are appropriate measures in place to protect the well (e.g., bollards)?	/		
е	Is the drainage around the well acceptable? (no standing water, nor			*
	is well located in obvious drainage flow path)	/		
	198 DI GI			S
2 Prote	ective Casing			
а	Is the protective casing free from apparent damage and able to be			
	secured?	1		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?	_/		*
d	Is the annular space between casings clear of debris and water, or	250		
	filled with pea gravel/sand?	_/		3
е	Is the well locked?	/		
f	If locked, is the well lock in good condition?	1/		
g	Is the well lid in good condition?	/		
2 Curt	neo Dod			
a Surra	ace Pad Is the well pad in good condition (not cracked or broken)?	./		
b	Is the well pad sloped away from the protective casing?			
	Is the well pad in complete contact with the protective casing?			3
c d	Is the well pad in complete contact with the ground surface and	_		7-
ū	stable (not undermined by erosion, animal burrows, and does not			
		/		
	move when stepped on)?	-		3 <u></u>
е	Is the pad surface clean (not covered with sediment or debris)?	_/_		8
4 Inter	nal Casing			
a	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from foreign	2		3
	objects (such as bailers)?	1		
С	Is the well properly vented for equilibration of air pressure?	_/		S
d	Is the survey point clearly marked on the inner casing?	1		
е	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)	/		
				-
	pling and Data Collection Equipment			
а	Indicate if the well is equipped with dedicated sampling equipment,			
	a dedicated water quality sonde, and/or dedicated water level	Azn		
	data logger.	NA		-
b	If equipped with dedicated sampling equipment, is it in good			
	operational condition?			_ <i>N</i> A
С	If equipped with a dedicated water quality sonde, is it in good			
	operational condition?			NA
d	Does the desiccant need to be replaced on the water quality sonde?			MA
е	If equipped with a water level data logger, is it in good operational			
	condition?			N/A
f	Does the well recharge adequately when purged?	=		N/A
g	Does the well require redevelopment (low flow, excess turbidity)?		1	
-				
6 Corre	ective Actions			
а	Are corrective actions needed?			
If yes	s, indicate here:			

Well Inspection Form

Plant N	ame/Unit Name Plant Hammand AP-1	Date (mm/dd/y	yyyy) 1/23/23
Field Te	echnician C. CAIN	Field C	Conditio	ns Sunny 50F
Well ID	MW-40D			
		V	NI.	Comments
1 Loca	ation/Identification	Yes	No	Comments
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?		7	1
ď	Are appropriate measures in place to protect the well (e.g., bollards)?			č
e	Is the drainage around the well acceptable? (no standing water, nor	~	((:
·	is well located in obvious drainage flow path)	1		
	is well located in obvious drainage now path)			X
2 Prote	ective Casing			
а	Is the protective casing free from apparent damage and able to be			
	secured?	/		
b	Is the casing free of degradation or deterioration?	-/		8
С	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?	/		
е	Is the well locked?	7		-
f	If locked, is the well lock in good condition?			3
g	Is the well lid in good condition?			·
-				-
	ace Pad	-		
а	Is the well pad in good condition (not cracked or broken)?			
b	Is the well pad sloped away from the protective casing?			
С	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)?	V		
е	Is the pad surface clean (not covered with sediment or debris)?	1		
4 Inter	nal Casing	-		
4 miles	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from foreign			(
D	objects (such as bailers)?	-		
•	Is the well properly vented for equilibration of air pressure?	-		·
c d	Is the survey point clearly marked on the inner casing?	-		·
	Is the depth of the well consistent with the original well log?	-		
e f	Is the casing stable? (or does the pvc move easily when touched or	_		
ı	can it be taken apart by hand due to lack of grout or use of slip			
		1		
	couplings in construction)			4
5 Sam	pling and Data Collection Equipment			
а	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
С	If equipped with a dedicated water quality sonde, is it in good	$\overline{}$		_N !+
Ū	operational condition?			444
	·			_NA
d	Does the desiccant need to be replaced on the water quality sonde?			_NA
е	If equipped with a water level data logger, is it in good operational			
	condition?			NA
f	Does the well recharge adequately when purged?			MA
g	Does the well require redevelopment (low flow, excess turbidity)?		_	
6 Corre	ective Actions			
a	Are corrective actions needed?		1	
	s, indicate here:			
n yes	of melocity hold.			
-				

APPENDIX B

Laboratory Analytical and Field Sampling Reports

LABORATORY ANALYTICAL REPORTS





April 27, 2023

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

RE: Project: Hammond AP-1

Pace Project No.: 92649377

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 30, 2023 and February 03, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Stephanie Knott for

Stephanie Knoth

Bonnie Vang

bonnie.vang@pacelabs.com

(704)875-9092

Project Manager

Enclosures

cc: Noelia Gangi, Georgia Power

Ben Hodges, Georgia Power-CCR

Christine Hug, Geosyntec Consultants, Inc.

Kristen Jurinko

Thomas Kessler, Geosyntec

Whitney Law, Geosyntec Consultants

Laura Midkiff, Georgia Power

Michael Smilley, Georgia Power

Tina Sullivan, ERM

Anthony Szwast, Geosyntec





CERTIFICATIONS

Project: Hammond AP-1 Pace Project No.: 92649377

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006 South Carolina Certification #: 99006001

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 South Carolina Drinking Water Cert. #: 99006003

North Carolina Drinking Water Certification #: 37706 Florida/NELAP Certification #: E87627 North Carolina Field Services Certification #: 5342 Kentucky UST Certification #: 84 North Carolina Wastewater Certification #: 12 Louisiana DoH Drinking Water #: LA029

South Carolina Laboratory ID: 99006 Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804 South Carolina Laboratory ID: 99030 Florida/NELAP Certification #: E87648 South Carolina Certification #: 99030001

North Carolina Drinking Water Certification #: 37712 Virginia/VELAP Certification #: 460222

North Carolina Wastewater Certification #: 40

Pace Analytical Services Peachtree Corners

110 Technology Pkwy, Peachtree Corners, GA 30092 North Carolina Certification #: 381 South Carolina Certification #: 98011001

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812



SAMPLE SUMMARY

Project: Hammond AP-1
Pace Project No.: 92649377

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92649377001	HAM-HGWC-9	Water	01/26/23 15:24	01/30/23 11:58
92649377002	HAM-HGWC-11	Water	01/26/23 14:27	01/30/23 11:58
92649377003	HAM-HGWC-12	Water	01/26/23 12:25	01/30/23 11:58
92649377004	HAM-HGWC-13	Water	01/26/23 13:30	01/30/23 11:58
92649377005	HAM-MW-5	Water	01/26/23 11:14	01/30/23 11:58
92649377006	HAM-MW-6	Water	01/26/23 12:40	01/30/23 11:58
92649377007	HAM-MW-7	Water	01/26/23 14:04	01/30/23 11:58
92649377008	HAM-MW-19	Water	01/26/23 16:05	01/30/23 11:58
92649377009	HAM-MW-20	Water	01/26/23 09:49	01/30/23 11:58
92649377010	HAM-MW-24D	Water	01/26/23 11:31	01/30/23 11:58
92649377011	HAM-MW-25D	Water	01/26/23 10:14	01/30/23 11:58
92649377012	HAM-MW-26D	Water	01/26/23 16:32	01/30/23 11:58
92649377013	HAM-MW-28D	Water	01/26/23 17:33	01/30/23 11:58
92649377014	HAM-MW-29	Water	01/26/23 15:19	01/30/23 11:58
92649377015	HAM-AP-1-FD-01	Water	01/26/23 14:48	01/30/23 11:58
92649377016	HAM-HGWC-7	Water	01/27/23 13:15	01/30/23 11:58
92649377017	HAM-HGWC-10	Water	01/27/23 15:01	01/30/23 11:58
92649377018	HAM-MW-27D	Water	01/27/23 17:35	01/30/23 11:58
92649377019	HAM-HGWC-8	Water	02/01/23 10:02	02/03/23 12:50
92649377020	HAM-AP-1-EB-01	Water	02/01/23 14:50	02/03/23 12:50
92649377021	HAM-AP-1-FB-01	Water	02/01/23 14:40	02/03/23 12:50



SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92649377

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92649377001	HAM-HGWC-9	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377002	HAM-HGWC-11	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377003	HAM-HGWC-12	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377004	HAM-HGWC-13	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377005	HAM-MW-5	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377006	HAM-MW-6	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377007	HAM-MW-7	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377008	HAM-MW-19	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92649377

Lab ID	Sample ID	Method	Analysts	Analytes Reported
	777009 HAM-MW-20 777010 HAM-MW-24D 777011 HAM-MW-25D	EPA 7470A		1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377009	HAM-MW-20	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377010	HAM-MW-24D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377011	HAM-MW-25D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377012	HAM-MW-26D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377013	HAM-MW-28D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377014	HAM-MW-29	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
2649377015	HAM-AP-1-FD-01	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project: Hammond AP-1
Pace Project No.: 92649377

Lab ID	Sample ID	Method	Analysts	Analytes Reported	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92649377016	HAM-HGWC-7	EPA 6010D	DRB	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	DL1	1	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92649377017	HAM-HGWC-10	EPA 6010D	DRB	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	DL1	1	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92649377018	HAM-MW-27D	EPA 6010D	DRB	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	DL1	1	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92649377019	HAM-HGWC-8	EPA 6010D	MS	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	DL1	1	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92649377020	HAM-AP-1-EB-01	EPA 6010D	MS	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	DL1	1	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92649377021	HAM-AP-1-FB-01	EPA 6010D	MS	1	
		EPA 6020B	CW1	13	
		EPA 7470A	VB	1	
		SM 2540C-2015	DL1	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



Project: Hammond AP-1
Pace Project No.: 92649377

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2649377001	HAM-HGWC-9					
	Performed by	Customer			01/30/23 16:42	
	рН	7.07	Std. Units		01/30/23 16:42	
EPA 6010D	Calcium	173	mg/L	1.0	03/21/23 16:21	
EPA 6020B	Antimony	0.00092J	mg/L	0.0030	02/03/23 20:20	
EPA 6020B	Barium	0.069	mg/L	0.0050	02/03/23 20:20	
EPA 6020B	Boron	1.9	mg/L	0.040	02/03/23 20:20	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/06/23 13:32	
EPA 6020B	Cobalt	0.00068J	mg/L	0.0050	02/03/23 20:20	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	02/03/23 20:20	
EPA 6020B	Molybdenum	0.021	mg/L	0.010	02/03/23 20:20	
SM 2540C-2015	Total Dissolved Solids	745	mg/L	25.0	01/31/23 12:43	
EPA 300.0 Rev 2.1 1993	Chloride	86.9	mg/L	1.0	02/01/23 11:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/01/23 11:20	
EPA 300.0 Rev 2.1 1993	Sulfate	217	mg/L	4.0	02/04/23 14:55	
2649377002	HAM-HGWC-11					
	Performed by	Customer			01/30/23 16:43	
	pH	6.23	Std. Units		01/30/23 16:43	
EPA 6010D	Calcium	113	mg/L	1.0	03/21/23 16:26	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/03/23 20:26	
EPA 6020B	Boron	0.50	mg/L	0.040	02/03/23 20:26	
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	02/06/23 13:38	
EPA 6020B	Molybdenum	0.022	mg/L	0.010	02/03/23 20:26	
EPA 6020B	Selenium	0.010	mg/L	0.0050	02/03/23 20:26	
SM 2540C-2015	Total Dissolved Solids	429	mg/L	25.0	01/31/23 12:44	
EPA 300.0 Rev 2.1 1993	Chloride	8.8	mg/L	1.0	02/01/23 11:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	02/01/23 11:37	
EPA 300.0 Rev 2.1 1993	Sulfate	209	mg/L	4.0	02/04/23 11:43	
2649377003	HAM-HGWC-12					
	Performed by	Customer			01/30/23 16:43	
	рН	7.10	Std. Units		01/30/23 16:43	
EPA 6010D	Calcium	154	mg/L	1.0	03/21/23 16:31	
EPA 6020B	Arsenic	0.0025J	mg/L	0.0050	02/03/23 20:32	
EPA 6020B	Barium	0.076	mg/L	0.0050	02/03/23 20:32	
EPA 6020B	Boron	1.5	mg/L	0.040	02/03/23 20:32	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	02/03/23 20:32	
EPA 6020B	Lithium	0.0058J	mg/L	0.030	02/03/23 20:32	
EPA 6020B	Molybdenum	0.048	mg/L	0.010	02/03/23 20:32	
SM 2540C-2015	Total Dissolved Solids	624	mg/L	25.0	01/31/23 12:44	
EPA 300.0 Rev 2.1 1993	Chloride	34.6	mg/L	1.0	02/01/23 11:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.21	mg/L	0.10	02/01/23 11:54	
EPA 300.0 Rev 2.1 1993	Sulfate	228	mg/L	4.0	02/04/23 11:57	
2649377004	HAM-HGWC-13					
	Performed by	Customer			01/30/23 16:43	
	рH	6.90	Std. Units		01/30/23 16:43	
EPA 6010D	Calcium	234	mg/L	1.0	03/21/23 16:36	
EPA 6020B	Arsenic	0.53	mg/L	0.0050	02/03/23 20:49	

REPORT OF LABORATORY ANALYSIS



Project: Hammond AP-1
Pace Project No.: 92649377

ab Sample ID	Client Sample ID					
Nethod	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2649377004	HAM-HGWC-13					
PA 6020B	Barium	0.079	mg/L	0.0050	02/03/23 20:49	
PA 6020B	Beryllium	0.000099J	mg/L	0.00050	02/06/23 14:02	
PA 6020B	Boron	0.83	mg/L	0.040	02/06/23 14:02	
PA 6020B	Cobalt	0.012	mg/L	0.0050	02/03/23 20:49	
PA 6020B	Lithium	0.040	mg/L	0.030	02/03/23 20:49	
PA 6020B	Molybdenum	0.023	mg/L	0.010	02/03/23 20:49	
PA 6020B	Thallium	0.00031J	mg/L	0.0010	02/03/23 20:49	
M 2540C-2015	Total Dissolved Solids	962	mg/L	25.0	01/31/23 12:45	
PA 300.0 Rev 2.1 1993	Chloride	12.5	mg/L	1.0	02/01/23 12:12	
PA 300.0 Rev 2.1 1993	Fluoride	0.40	mg/L	0.10	02/01/23 12:12	
PA 300.0 Rev 2.1 1993	Sulfate	495	mg/L	10.0	02/04/23 12:12	
649377005	HAM-MW-5		· ·			
	Performed by	Customer			01/30/23 16:44	
	pН	6.07	Std. Units		01/30/23 16:44	
PA 6010D	Calcium	76.1	mg/L	1.0	03/21/23 17:15	
PA 6020B	Barium	0.050	mg/L	0.0050	02/03/23 20:55	
PA 6020B	Boron	0.044	mg/L	0.040	02/06/23 14:08	
PA 6020B	Chromium	0.0032J	mg/L	0.0050	02/06/23 14:08	
PA 6020B	Selenium	0.0045J	mg/L	0.0050	02/03/23 20:55	
M 2540C-2015	Total Dissolved Solids	363	mg/L	25.0	01/31/23 12:45	
PA 300.0 Rev 2.1 1993	Chloride	0.86J	mg/L	1.0		
PA 300.0 Rev 2.1 1993	Fluoride	0.087J	mg/L	0.10	02/01/23 12:29	
PA 300.0 Rev 2.1 1993	Sulfate	137	mg/L	3.0	02/04/23 12:27	
649377006	HAM-MW-6		· ·			
	Performed by	Customer			01/30/23 16:44	
	pH	6.90	Std. Units		01/30/23 16:44	
PA 6010D	Calcium	180	mg/L	1.0	03/21/23 17:20	
PA 6020B	Barium	0.079	mg/L	0.0050	02/03/23 21:01	
PA 6020B	Boron	0.71	mg/L	0.040	02/06/23 14:14	
PA 6020B	Chromium	0.0014J	mg/L	0.0050	02/06/23 14:14	
PA 6020B	Cobalt	0.00044J	mg/L	0.0050	02/03/23 21:01	
PA 6020B	Molybdenum	0.0029J	mg/L	0.010		
M 2540C-2015	Total Dissolved Solids	646	mg/L	25.0	01/31/23 12:46	
PA 300.0 Rev 2.1 1993	Chloride	30.5	mg/L	1.0	02/01/23 12:47	
PA 300.0 Rev 2.1 1993	Fluoride	0.088J	mg/L	0.10		
PA 300.0 Rev 2.1 1993 PA 300.0 Rev 2.1 1993	Sulfate	203	mg/L		02/04/23 12:41	
649377007	HAM-MW-7		g/ =		02/01/2012111	
	Performed by	Customer			01/30/23 16:46	
	pH	6.23	Std. Units		01/30/23 16:46	
PA 6010D	Calcium	21.6	mg/L	1 0	03/21/23 17:25	
PA 6020B	Barium	0.044	mg/L		02/03/23 21:07	
	Boron	0.033J	mg/L	0.040		
PA 6020B	טוטוו		•	0.0050		
	Chromium	0.00171				
PA 6020B	Chromium Total Dissolved Solids	0.0017J	mg/L			
PA 6020B PA 6020B M 2540C-2015 PA 300.0 Rev 2.1 1993	Chromium Total Dissolved Solids Chloride	0.001/J 89.0 1.2	mg/L mg/L mg/L	25.0		

REPORT OF LABORATORY ANALYSIS



Project: Hammond AP-1
Pace Project No.: 92649377

Lab Sample ID	Client Sample ID	5				
Method	Parameters —	Result _	Units	Report Limit	Analyzed	Qualifier
92649377007	HAM-MW-7					
EPA 300.0 Rev 2.1 1993	Sulfate	26.0	mg/L	1.0	02/01/23 13:56	
2649377008	HAM-MW-19					
	Performed by	Customer			01/30/23 16:46	
	рН	6.13	Std. Units		01/30/23 16:46	
EPA 6010D	Calcium	118	mg/L	1.0	03/21/23 17:30	M1
EPA 6020B	Barium	0.039	mg/L	0.0050	02/03/23 21:13	
EPA 6020B	Boron	0.36	mg/L	0.040	02/06/23 14:26	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	02/06/23 14:26	
EPA 6020B	Cobalt	0.022	mg/L	0.0050	02/03/23 21:13	
EPA 6020B	Lithium	0.0038J	mg/L	0.030	02/03/23 21:13	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	02/03/23 21:13	
EPA 6020B	Selenium	0.0056	mg/L	0.0050	02/03/23 21:13	
SM 2540C-2015	Total Dissolved Solids	490	mg/L	25.0	01/31/23 12:48	
EPA 300.0 Rev 2.1 1993	Chloride	7.7	mg/L	1.0	02/01/23 14:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.098J	mg/L	0.10	02/01/23 14:14	
EPA 300.0 Rev 2.1 1993	Sulfate	214	mg/L	5.0	02/04/23 13:41	
2649377009	HAM-MW-20					
	Performed by	Customer			01/30/23 16:46	
	рН	6.95	Std. Units		01/30/23 16:46	
EPA 6010D	Calcium	122	mg/L	1.0	03/21/23 17:49	
PA 6020B	Barium	0.097	mg/L	0.0050	02/03/23 21:19	
PA 6020B	Boron	0.099	mg/L	0.040	02/06/23 14:32	
SM 2540C-2015	Total Dissolved Solids	482	mg/L	25.0	01/31/23 12:48	
EPA 300.0 Rev 2.1 1993	Chloride	30.0	mg/L	1.0	02/01/23 15:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.081J	mg/L	0.10	02/01/23 15:06	
EPA 300.0 Rev 2.1 1993	Sulfate	109	mg/L	2.0	02/04/23 14:25	
2649377010	HAM-MW-24D					
	Performed by	Customer			01/30/23 16:46	
	рН	7.60	Std. Units		01/30/23 16:46	
PA 6010D	Calcium	107	mg/L	1.0	03/21/23 17:54	
PA 6020B	Barium	0.054	mg/L	0.0050	02/03/23 21:25	
PA 6020B	Boron	0.47	mg/L	0.040	02/06/23 14:37	
PA 6020B	Lithium	0.0025J	mg/L	0.030	02/03/23 21:25	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	02/03/23 21:25	
SM 2540C-2015	Total Dissolved Solids	412	mg/L	25.0	01/31/23 12:49	
EPA 300.0 Rev 2.1 1993	Chloride	38.0	mg/L	1.0	02/01/23 15:23	
PA 300.0 Rev 2.1 1993	Fluoride	0.083J	mg/L	0.10	02/01/23 15:23	
EPA 300.0 Rev 2.1 1993	Sulfate	152	mg/L	3.0	02/04/23 14:40	
2649377011	HAM-MW-25D					
	Performed by	Customer			01/30/23 16:48	
	рH	7.74	Std. Units		01/30/23 16:48	
EPA 6010D	Calcium	21.8	mg/L	1.0	03/21/23 17:58	
PA 6020B	Barium	0.65	mg/L	0.0050	02/03/23 21:31	
EPA 6020B	Boron	0.30	mg/L	0.040	02/06/23 14:43	
PA 6020B	Chromium	0.0012J	mg/L	0.0050	02/06/23 14:43	

REPORT OF LABORATORY ANALYSIS



Project: Hammond AP-1
Pace Project No.: 92649377

Lab Sample ID	Client Sample ID	Daguit	11-9-	Damant Lineit	A a b a -d	O a lifi a na
Method ————————————————————————————————————	Parameters —	Result _	Units	Report Limit	Analyzed	Qualifiers
92649377011	HAM-MW-25D					
EPA 6020B	Lithium	0.036	mg/L	0.030	02/03/23 21:31	
SM 2540C-2015	Total Dissolved Solids	346	mg/L	25.0	01/31/23 12:49	
EPA 300.0 Rev 2.1 1993	Chloride	17.2	mg/L	1.0	02/02/23 13:14	
EPA 300.0 Rev 2.1 1993	Fluoride	1.6	mg/L	0.10	02/02/23 13:14	
EPA 300.0 Rev 2.1 1993	Sulfate	0.59J	mg/L	1.0	02/02/23 13:14	
2649377012	HAM-MW-26D					
	Performed by	Customer			01/30/23 16:48	
	рН	7.14	Std. Units		01/30/23 16:48	
EPA 6010D	Calcium	179	mg/L	1.0	03/21/23 18:13	
EPA 6020B	Barium	0.065	mg/L	0.0050	02/03/23 21:37	
EPA 6020B	Boron	1.8	mg/L	0.040	02/06/23 14:49	
PA 6020B	Cobalt	0.00051J	mg/L	0.0050	02/03/23 21:37	
PA 6020B	Lithium	0.0031J	mg/L	0.030	02/03/23 21:37	
PA 6020B	Molybdenum	0.028	mg/L	0.010	02/03/23 21:37	
SM 2540C-2015	Total Dissolved Solids	741	mg/L	25.0	01/31/23 12:49	
PA 300.0 Rev 2.1 1993	Chloride	83.6	mg/L	1.0	02/02/23 13:33	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/02/23 13:33	
EPA 300.0 Rev 2.1 1993	Sulfate	240	mg/L	5.0	02/02/23 16:23	
2649377013	HAM-MW-28D					
	Performed by	Customer			02/15/23 12:06	
	pH	7.67	Std. Units		02/15/23 12:06	
PA 6010D	Calcium	64.4	mg/L	1.0	03/21/23 18:18	
PA 6020B	Barium	0.80	mg/L	0.0050	02/03/23 21:43	
EPA 6020B	Boron	0.29	mg/L	0.040	02/06/23 14:55	
EPA 6020B	Lithium	0.011J	mg/L	0.030	02/03/23 21:43	
EPA 6020B	Molybdenum	0.0025J	mg/L	0.010	02/03/23 21:43	
SM 2540C-2015	Total Dissolved Solids	349	mg/L	25.0	01/31/23 12:50	
EPA 300.0 Rev 2.1 1993	Chloride	27.7	mg/L	1.0	02/02/23 13:51	
PA 300.0 Rev 2.1 1993	Fluoride	0.22	mg/L	0.10	02/02/23 13:51	
PA 300.0 Rev 2.1 1993	Sulfate	40.8	mg/L	1.0	02/02/23 13:51	
2649377014	HAM-MW-29					
	Performed by	Customer			01/30/23 16:48	
	pН	7.22	Std. Units		01/30/23 16:48	
EPA 6010D	Calcium	146	mg/L	1.0	03/21/23 18:23	
PA 6020B	Barium	0.076	mg/L	0.0050	02/03/23 22:01	
PA 6020B	Boron	1.0	mg/L	0.040	02/06/23 15:13	
EPA 6020B	Cobalt	0.00056J	mg/L	0.0050	02/03/23 22:01	
PA 6020B	Lithium	0.0019J	mg/L	0.030	02/03/23 22:01	
PA 6020B	Molybdenum	0.0029J	mg/L	0.010	02/03/23 22:01	
SM 2540C-2015	Total Dissolved Solids	632	mg/L	25.0	01/31/23 12:51	
EPA 300.0 Rev 2.1 1993	Chloride	62.4	mg/L	1.0	02/02/23 14:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.068J	mg/L	0.10	02/02/23 14:10	
EPA 300.0 Rev 2.1 1993	Sulfate	161	mg/L		02/02/23 17:00	
2649377015	HAM-AP-1-FD-01		•			
EPA 6010D	Calcium	113	mg/L	1.0	03/21/23 18:28	
	Calolain	110	9, ⊏	1.0	55/21/25 10.20	

REPORT OF LABORATORY ANALYSIS



Project: Hammond AP-1
Pace Project No.: 92649377

Lab Sample ID	Client Sample ID					
Method	Parameters	Result _	Units	Report Limit	Analyzed	Qualifiers
2649377015	HAM-AP-1-FD-01					
EPA 6020B	Barium	0.031	mg/L	0.0050	02/03/23 22:07	
EPA 6020B	Boron	0.51	mg/L	0.040	02/06/23 15:19	
EPA 6020B	Molybdenum	0.022	mg/L	0.010	02/03/23 22:07	
PA 6020B	Selenium	0.0095	mg/L	0.0050	02/03/23 22:07	
SM 2540C-2015	Total Dissolved Solids	509	mg/L	25.0	01/31/23 12:51	
PA 300.0 Rev 2.1 1993	Chloride	9.2	mg/L	1.0	02/02/23 14:29	
PA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	02/02/23 14:29	
PA 300.0 Rev 2.1 1993	Sulfate	221	mg/L	4.0	02/02/23 17:19	
2649377016	HAM-HGWC-7					
	Performed by	Customer			01/30/23 16:50	
	рН	7.25	Std. Units		01/30/23 16:50	
PA 6010D	Calcium	124	mg/L	1.0	03/21/23 18:32	
PA 6020B	Barium	0.065	mg/L	0.0050	02/03/23 22:13	
PA 6020B	Boron	0.93	mg/L	0.040	02/06/23 15:25	
PA 6020B	Cadmium	0.00019J	mg/L	0.00050	02/03/23 22:13	
PA 6020B	Chromium	0.0014J	mg/L	0.0050	02/06/23 15:25	
PA 6020B	Cobalt	0.00067J	mg/L	0.0050	02/03/23 22:13	
PA 6020B	Lithium	0.0018J	mg/L	0.030	02/03/23 22:13	
PA 6020B	Molybdenum	0.039	mg/L	0.010	02/03/23 22:13	
M 2540C-2015	Total Dissolved Solids	473	mg/L	25.0	01/31/23 12:52	
PA 300.0 Rev 2.1 1993	Chloride	40.0	mg/L	1.0	02/02/23 14:48	
PA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/02/23 14:48	
PA 300.0 Rev 2.1 1993	Sulfate	119	mg/L	2.0	02/02/23 17:38	
2649377017	HAM-HGWC-10					
	Performed by	Customer			01/30/23 16:50	
	pН	6.89	Std. Units		01/30/23 16:50	
PA 6010D	Calcium	60.4	mg/L	1.0	03/21/23 18:37	
PA 6020B	Barium	0.041	mg/L	0.0050	02/03/23 22:19	
PA 6020B	Boron	0.065	mg/L	0.040	02/06/23 15:31	
PA 6020B	Chromium	0.0012J	mg/L	0.0050	02/06/23 15:31	
PA 6020B	Selenium	0.0035J	mg/L	0.0050	02/03/23 22:19	
M 2540C-2015	Total Dissolved Solids	188	mg/L	25.0	02/02/23 19:15	
PA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	02/02/23 15:07	
PA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	02/02/23 15:07	
PA 300.0 Rev 2.1 1993	Sulfate	37.3	mg/L	1.0		
2649377018	HAM-MW-27D					
	Performed by	Customer			01/30/23 16:50	
	рН	7.80	Std. Units		01/30/23 16:50	
PA 6010D	Calcium	28.1	mg/L	1.0	03/21/23 18:42	
PA 6020B	Barium	0.94	mg/L	0.0050	02/03/23 22:25	
PA 6020B	Boron	0.12	mg/L	0.040	02/06/23 15:37	
PA 6020B	Lithium	0.0072J	mg/L	0.030	02/03/23 22:25	
PA 6020B	Molybdenum	0.0014J	mg/L	0.010	02/03/23 22:25	
M 2540C-2015	Total Dissolved Solids	255	mg/L	25.0		
PA 300.0 Rev 2.1 1993	Chloride	32.5	mg/L		02/03/23 15:41	
PA 300.0 Rev 2.1 1993	Fluoride	0.30	mg/L		02/03/23 15:41	

REPORT OF LABORATORY ANALYSIS



Project: Hammond AP-1
Pace Project No.: 92649377

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
 92649377018	HAM-MW-27D			_ ·		
EPA 300.0 Rev 2.1 1993	Sulfate	9.1	mg/L	1.0	02/03/23 15:41	
92649377019	HAM-HGWC-8					
	Performed by	Customer			02/15/23 12:07	
	pH	6.60	Std. Units		02/15/23 12:07	
EPA 6010D	Calcium	110	mg/L	1.0	02/14/23 20:38	
EPA 6020B	Barium	0.058	mg/L	0.0050	02/16/23 21:20	
EPA 6020B	Beryllium	0.000056J	mg/L	0.00050	02/16/23 21:20	
EPA 6020B	Boron	1.9	mg/L	0.040	02/16/23 21:20	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	02/16/23 21:20	
EPA 6020B	Lithium	0.0015J	mg/L	0.030	02/16/23 21:20	
EPA 6020B	Molybdenum	0.29	mg/L	0.010	02/16/23 21:20	
SM 2540C-2015	Total Dissolved Solids	528	mg/L	25.0	02/07/23 18:40	
EPA 300.0 Rev 2.1 1993	Chloride	52.4	mg/L	1.0	02/07/23 22:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.40	mg/L	0.10	02/07/23 22:32	
EPA 300.0 Rev 2.1 1993	Sulfate	179	mg/L	4.0	02/08/23 11:47	
2649377020	HAM-AP-1-EB-01					
EPA 6020B	Boron	0.022J	mg/L	0.040	02/16/23 21:26	
92649377021	HAM-AP-1-FB-01					
EPA 6020B	Boron	0.011J	mg/L	0.040	02/16/23 21:32	
SM 2540C-2015	Total Dissolved Solids	28.0	mg/L	25.0	02/07/23 18:41	



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-HGWC-9	Lab ID:	92649377001	Collecte	ed: 01/26/2	3 15:24	Received: 01/	30/23 11:58 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	;					
Performed by	Customer				1		01/30/23 16:42		
рН	7.07	Std. Units			1		01/30/23 16:42		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Me	thod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GΑ				
Calcium	173	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 16:21	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GΑ				
Antimony	0.00092J	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 20:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 20:20	7440-38-2	
Barium	0.069	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 20:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 13:32	7440-41-7	
Boron	1.9	mg/L	0.040	0.0086	1	02/01/23 12:06	02/03/23 20:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 20:20	7440-43-9	
Chromium	0.0013J	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 13:32	7440-47-3	
Cobalt	0.00068J	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 20:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 20:20	7439-92-1	
Lithium	0.0032J	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 20:20	7439-93-2	
Molybdenum	0.021	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 20:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 20:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 20:20	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	thod: EF	PA 7470A			
·	-	lytical Services							
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 11:46	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GΑ				
Total Dissolved Solids	745	mg/L	25.0	25.0	1		01/31/23 12:43		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	86.9	mg/L	1.0	0.60	1		02/01/23 11:20	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		02/01/23 11:20	16984-48-8	
Sulfate	217	mg/L	4.0	2.0	4		02/04/23 14:55		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-HGWC-11	Lab ID:	92649377002	Collecte	ed: 01/26/2	3 14:27	Received: 01/	/30/23 11:58 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL_	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte)					
Performed by	Customer				1		01/30/23 16:43		
рН	6.23	Std. Units			1		01/30/23 16:43		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Me	thod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	ЭΑ				
Calcium	113	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 16:26	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	thod: Ef	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 20:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 20:26	7440-38-2	
Barium	0.031	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 20:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 13:38	7440-41-7	
Boron	0.50	mg/L	0.040	0.0086	1	02/01/23 12:06	02/03/23 20:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 20:26	7440-43-9	
Chromium	0.0012J	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 13:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 20:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 20:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 20:26	7439-93-2	
Molybdenum	0.022	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 20:26	7439-98-7	
Selenium	0.010	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 20:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 20:26	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 11:57	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	ЭΑ				
Total Dissolved Solids	429	mg/L	25.0	25.0	1		01/31/23 12:44		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	8.8	mg/L	1.0	0.60	1		02/01/23 11:37	16887-00-6	
Fluoride	0.20	mg/L	0.10	0.050	1		02/01/23 11:37		
Sulfate	209	mg/L	4.0	2.0	4		02/04/23 11:43		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-HGWC-12	Lab ID:	92649377003	Collecte	ed: 01/26/23	3 12:25	Received: 01/	/30/23 11:58 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytica	Method:							
	Pace Ana	llytical Services	- Charlotte)					
Performed by	Customer				1		01/30/23 16:43		
рН	7.10	Std. Units			1		01/30/23 16:43		
6010D ATL ICP	Analytica	Method: EPA 6	010D Pre	paration Met	thod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	ee Corners, C	βA				
Calcium	154	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 16:31	7440-70-2	
6020 MET ICPMS	Analytica	Method: EPA 6	020B Pre	paration Met	hod: El	PA 3005A			
	-	lytical Services							
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 20:32	7440-36-0	
Arsenic	0.0025J	mg/L	0.0050	0.00070	1		02/03/23 20:32		
Barium	0.076	mg/L	0.0050	0.00067	1	02/01/23 12:06			
Beryllium	ND	mg/L	0.00050	0.000054	1		02/06/23 13:44		
Boron	1.5	mg/L	0.040	0.0086	1		02/03/23 20:32		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06			
Chromium	ND	mg/L	0.0050	0.0011	1		02/06/23 13:44		
Cobalt	0.0012J	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 20:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 20:32	7439-92-1	
Lithium	0.0058J	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 20:32	7439-93-2	
Molybdenum	0.048	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 20:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 20:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 20:32	7440-28-0	
7470 Mercury	Analytica	Method: EPA 7	7470A Pre	paration Met	hod: Ef	PA 7470A			
•	•	lytical Services							
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 12:00	7439-97-6	
2540C Total Dissolved Solids	Analytica	Method: SM 2	540C-2015	;					
	•	lytical Services			βA				
Total Dissolved Solids	624	mg/L	25.0	25.0	1		01/31/23 12:44		
300.0 IC Anions 28 Days	Analytica	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	llytical Services	- Asheville	•					
Chloride	34.6	mg/L	1.0	0.60	1		02/01/23 11:54	16887-00-6	
Fluoride	0.21	mg/L	0.10	0.050	1		02/01/23 11:54		
Sulfate	228	mg/L	4.0	2.0	4		02/04/23 11:57		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-HGWC-13	Lab ID:	92649377004	Collecte	ed: 01/26/23	3 13:30	Received: 01/	/30/23 11:58 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Elald Date	Analytical	Mathada							
Field Data	Analytical		01 1 "						
	Pace Ana	lytical Services	- Charlotte)					
Performed by	Customer				1		01/30/23 16:43		
pH	6.90	Std. Units			1		01/30/23 16:43		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Met	hod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Calcium	234	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 16:36	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 20:49	7440-36-0	
Arsenic	0.53	mg/L	0.0050	0.0022	1	02/01/23 12:06			
Barium	0.079	mg/L	0.0050	0.00067	1	02/01/23 12:06			
Beryllium	0.000099J	mg/L	0.00050	0.000054	1		02/06/23 14:02		
Boron	0.83	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 14:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 20:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 14:02	7440-47-3	
Cobalt	0.012	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 20:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 20:49	7439-92-1	
Lithium	0.040	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 20:49	7439-93-2	
Molybdenum	0.023	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 20:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 20:49	7782-49-2	
Thallium	0.00031J	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 20:49	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: EF	PA 7470A			
•	-	lytical Services							
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 12:03	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	•	lytical Services			βA				
Total Dissolved Solids	962	mg/L	25.0	25.0	1		01/31/23 12:45		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	12.5	mg/L	1.0	0.60	1		02/01/23 12:12	16887-00-6	
Fluoride	0.40	mg/L	0.10	0.050	1		02/01/23 12:12		
Sulfate	495	mg/L	10.0	5.0	10		02/04/23 12:12		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-MW-5	Lab ID:	92649377005	Collecte	ed: 01/26/23	3 11:14	Received: 01/	30/23 11:58 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte						
Performed by	Customer				1		01/30/23 16:44		
рН	6.07	Std. Units			1		01/30/23 16:44		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	SA.				
Calcium	76.1	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 17:15	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6				PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	SA.				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 20:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 20:55	7440-38-2	
Barium	0.050	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 20:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 14:08	7440-41-7	
Boron	0.044	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 14:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 20:55	7440-43-9	
Chromium	0.0032J	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 14:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 20:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 20:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 20:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 20:55	7439-98-7	
Selenium	0.0045J	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 20:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 20:55	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	€A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 12:05	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, C	θA				
Total Dissolved Solids	363	mg/L	25.0	25.0	1		01/31/23 12:45		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Anal	ytical Services	- Asheville						
Chloride	0.86J	mg/L	1.0	0.60	1		02/01/23 12:29	16887-00-6	
Fluoride	0.087J	mg/L	0.10	0.050	1		02/01/23 12:29	16984-48-8	
Sulfate	137	mg/L	3.0	1.5	3		02/04/23 12:27	1/18/18-70-8	



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-MW-6	Lab ID:	92649377006	Collecte	d: 01/26/23	3 12:40	Received: 01/	30/23 11:58 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte						
Performed by	Customer				1		01/30/23 16:44		
Н	6.90	Std. Units			1		01/30/23 16:44		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	SA.				
Calcium	180	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 17:20	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	aration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	€A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 21:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 21:01	7440-38-2	
3arium	0.079	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 21:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 14:14	7440-41-7	
Boron	0.71	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 14:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 21:01	7440-43-9	
Chromium	0.0014J	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 14:14	7440-47-3	
Cobalt	0.00044J	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 21:01	7440-48-4	
_ead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 21:01	7439-92-1	
_ithium	ND	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 21:01	7439-93-2	
Molybdenum	0.0029J	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 21:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 21:01	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 21:01	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	aration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 12:13	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, C	SA.				
Total Dissolved Solids	646	mg/L	25.0	25.0	1		01/31/23 12:46		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	.1 1993					
	Pace Anal	ytical Services	- Asheville						
Chloride	30.5	mg/L	1.0	0.60	1		02/01/23 12:47	16887-00-6	
Fluoride	0.088J	mg/L	0.10	0.050	1		02/01/23 12:47	16984-48-8	
Sulfate	203	mg/L	4.0	2.0	4		02/04/23 12:41	1/202-70-8	



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-MW-7	Lab ID:	92649377007	Collecte	d: 01/26/23	3 14:04	Received: 01/	30/23 11:58 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte						
Performed by	Customer				1		01/30/23 16:46		
рН	6.23	Std. Units			1		01/30/23 16:46		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	hod: EF	PA 3010A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Calcium	21.6	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 17:25	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	aration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	€A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 21:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 21:07	7440-38-2	
Barium	0.044	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 21:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 14:20	7440-41-7	
Boron	0.033J	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 14:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 21:07	7440-43-9	
Chromium	0.0017J	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 14:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 21:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 21:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 21:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 21:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 21:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 21:07	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	aration Met	hod: EF	PA 7470A			
•	Pace Anal	ytical Services	- Peachtre	e Corners, C	SA.				
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 12:16	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Anal	ytical Services	- Peachtre	e Corners, C	θA				
Total Dissolved Solids	89.0	mg/L	25.0	25.0	1		01/31/23 12:47		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	.1 1993					
	Pace Anal	ytical Services	- Asheville						
Chloride	1.2	mg/L	1.0	0.60	1		02/01/23 13:56	16887-00-6	
Fluoride	0.060J	mg/L	0.10	0.050	1		02/01/23 13:56	16984-48-8	
Sulfate	26.0	mg/L	1.0	0.50	1		02/01/23 13:56		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-MW-19	Lab ID:	92649377008	Collecte	ed: 01/26/23	3 16:05	Received: 01/	30/23 11:58 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		01/30/23 16:46		
pH	6.13	Std. Units			1		01/30/23 16:46		
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Met	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Calcium	118	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 17:30	7440-70-2	M1
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prep	paration Met	hod: EF	A 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 21:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 21:13	7440-38-2	
Barium	0.039	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 21:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 14:26	7440-41-7	
Boron	0.36	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 14:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 21:13	7440-43-9	
Chromium	0.0011J	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 14:26	7440-47-3	
Cobalt	0.022	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 21:13	7440-48-4	
_ead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 21:13	7439-92-1	
Lithium	0.0038J	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 21:13	7439-93-2	
Molybdenum	0.012	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 21:13	7439-98-7	
Selenium	0.0056	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 21:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 21:13	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	A 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 12:18	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Total Dissolved Solids	490	mg/L	25.0	25.0	1		01/31/23 12:48		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	7.7	mg/L	1.0	0.60	1		02/01/23 14:14	16887-00-6	
Fluoride	0.098J	mg/L	0.10	0.050	1		02/01/23 14:14	16984-48-8	
Sulfate	214	mg/L	5.0	2.5	5		02/04/23 13:41	14808-79-8	



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-MW-20	Lab ID:	92649377009	Collecte	ed: 01/26/23	3 09:49	Received: 01/	30/23 11:58 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		01/30/23 16:46		
pH	6.95	Std. Units			1		01/30/23 16:46		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Calcium	122	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 17:49	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 21:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 21:19	7440-38-2	
Barium	0.097	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 21:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 14:32	7440-41-7	
Boron	0.099	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 14:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 21:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 14:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 21:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 21:19	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 21:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 21:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 21:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 21:19	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 12:21	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 29 lytical Services		e Corners, C	ΒA				
Total Dissolved Solids	482	mg/L	25.0	25.0	1		01/31/23 12:48		
300.0 IC Anions 28 Days	•	Method: EPA 3 lytical Services		2.1 1993					
Chloride	30.0	mg/L	1.0	0.60	1		02/01/23 15:06	16887-00-6	
Fluoride	0.081J	mg/L	0.10	0.050	1		02/01/23 15:06		
Sulfate	109	mg/L	2.0	1.0	2		02/04/23 14:25		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-MW-24D	Lab ID:	92649377010	Collecte	ed: 01/26/23	3 11:31	Received: 01/	/30/23 11:58 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	;					
Performed by	Customer				1		01/30/23 16:46		
рН	7.60	Std. Units			1		01/30/23 16:46		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	thod: El	PA 3010A			
	Pace Ana	llytical Services	- Peachtre	e Corners, C	ЭΑ				
Calcium	107	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 17:54	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: Ef	PA 3005A			
	Pace Ana	llytical Services	- Peachtre	e Corners, C	3A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 21:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 21:25	7440-38-2	
Barium	0.054	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 21:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 14:37	7440-41-7	
Boron	0.47	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 14:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 21:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 14:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 21:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 21:25	7439-92-1	
Lithium	0.0025J	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 21:25	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 21:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 21:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 21:25	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 12:24	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 2			2 Δ				
Total Disaskus d Calida		•		·			04/04/00 40-40		
Total Dissolved Solids	412	mg/L	25.0	25.0	1		01/31/23 12:49		
300.0 IC Anions 28 Days	•	Method: EPA 3							
Chloride	38.0	mg/L	1.0	0.60	1		02/01/23 15:23	16887-00-6	
Fluoride	0.083J	•	0.10	0.60	1		02/01/23 15:23		
		mg/L		1.5	3				
Sulfate	152	mg/L	3.0	1.5	3		02/04/23 14:40	14000-79-8	



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-MW-25D	Lab ID:	92649377011	Collecte	ed: 01/26/2	3 10:14	Received: 01/	30/23 11:58 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte)					
Performed by	Customer				1		01/30/23 16:48		
рН	7.74	Std. Units			1		01/30/23 16:48		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Me	thod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	ЭΑ				
Calcium	21.8	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 17:58	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	thod: Ef	PA 3005A			
	Pace Ana	lytical Services	s - Peachtre	e Corners, 0	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 21:31	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 21:31	7440-38-2	
Barium	0.65	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 21:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 14:43	7440-41-7	
Boron	0.30	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 14:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 21:31	7440-43-9	
Chromium	0.0012J	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 14:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 21:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 21:31	7439-92-1	
Lithium	0.036	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 21:31	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 21:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 21:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 21:31	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 12:26	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	•	lytical Services			ЭΑ				
Total Dissolved Solids	346	mg/L	25.0	25.0	1		01/31/23 12:49		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	17.2	mg/L	1.0	0.60	1		02/02/23 13:14	16887-00-6	
Fluoride	1.6	mg/L	0.10	0.050	1		02/02/23 13:14		
Sulfate	0.59J	mg/L	1.0	0.50	1		02/02/23 13:14		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-MW-26D	Lab ID:	92649377012	Collecte	ed: 01/26/23	3 16:32	Received: 01/	30/23 11:58 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		01/30/23 16:48		
рН	7.14	Std. Units			1		01/30/23 16:48		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	thod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Calcium	179	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 18:13	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 21:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 21:37	7440-38-2	
Barium	0.065	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 21:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 14:49	7440-41-7	
Boron	1.8	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 14:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 21:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 14:49	7440-47-3	
Cobalt	0.00051J	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 21:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 21:37	7439-92-1	
Lithium	0.0031J	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 21:37	7439-93-2	
Molybdenum	0.028	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 21:37		
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 21:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 21:37	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/08/23 15:40	02/09/23 12:29	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	741	mg/L	25.0	25.0	1		01/31/23 12:49		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
•	Pace Ana	lytical Services	- Asheville						
Chloride	83.6	mg/L	1.0	0.60	1		02/02/23 13:33	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		02/02/23 13:33		
Sulfate	240	mg/L	5.0	2.5	5		02/02/23 16:23		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-MW-28D	Lab ID:	92649377013	Collecte	ed: 01/26/23	3 17:33	Received: 01/	/30/23 11:58 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL_	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	ytical Services	- Charlotte	;					
Performed by	Customer				1		02/15/23 12:06		
рН	7.67	Std. Units			1		02/15/23 12:06		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	thod: Ef	PA 3010A			
	Pace Ana	ytical Services	- Peachtre	e Corners, C	ЭΑ				
Calcium	64.4	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 18:18	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	thod: EF	PA 3005A			
	Pace Ana	ytical Services	- Peachtre	e Corners, C	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 21:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 21:43	7440-38-2	
Barium	0.80	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 21:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 14:55	7440-41-7	
Boron	0.29	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 14:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 21:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 14:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 21:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 21:43	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 21:43	7439-93-2	
Molybdenum	0.0025J	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 21:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 21:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 21:43	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: EF	PA 7470A			
•	Pace Ana	ytical Services	- Peachtre	e Corners, C	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/23 08:15	02/14/23 11:41	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	ytical Services	- Peachtre	e Corners, C	ΒA				
Total Dissolved Solids	349	mg/L	25.0	25.0	1		01/31/23 12:50		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	ytical Services	- Asheville						
Chloride	27.7	mg/L	1.0	0.60	1		02/02/23 13:51	16887-00-6	
Fluoride	0.22	mg/L	0.10	0.050	1		02/02/23 13:51		
Sulfate	40.8	mg/L	1.0	0.50	1		02/02/23 13:51		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-MW-29	Lab ID:	92649377014	Collecte	ed: 01/26/23	3 15:19	Received: 01/	/30/23 11:58 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:					• ,	_	
	Pace Ana	lytical Services	- Charlotte)					
Performed by	Customer				1		01/30/23 16:48		
рН	7.22	Std. Units			1		01/30/23 16:48		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Met	thod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	ee Corners, C	ЭΑ				
Calcium	146	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 18:23	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	thod: El	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 22:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 22:01	7440-38-2	
Barium	0.076	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 22:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 15:13	7440-41-7	
Boron	1.0	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 15:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 22:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 15:13	7440-47-3	
Cobalt	0.00056J	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 22:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 22:01	7439-92-1	
Lithium	0.0019J	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 22:01	7439-93-2	
Molybdenum	0.0029J	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 22:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 22:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 22:01	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: El	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/23 08:15	02/14/23 11:52	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015	i					
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Total Dissolved Solids	632	mg/L	25.0	25.0	1		01/31/23 12:51		
300.0 IC Anions 28 Days		Method: EPA 3							
Chloride	62.4	mg/L	1.0	0.60	1		02/02/23 14:10	16887-00-6	
Fluoride	0.068J	mg/L	0.10	0.050	1		02/02/23 14:10		
Sulfate	161	mg/L	3.0	1.5	3		02/02/23 17:00		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-AP-1-FD-01	Lab ID: 9	2649377015	Collecte	ed: 01/26/23	3 14:48	Received: 01/	30/23 11:58 Ma	atrix: Water			
			Report								
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual		
6010D ATL ICP	Analytical M	lethod: EPA 6	010D Pre	paration Met	thod: EF	PA 3010A					
	Pace Analyt	ical Services	- Peachtre	e Corners, C	GΑ						
Calcium	113	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 18:28	7440-70-2			
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A										
	Pace Analyt	ical Services	- Peachtre	e Corners, C	GΑ						
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 22:07	7440-36-0			
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 22:07	7440-38-2			
Barium	0.031	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 22:07	7440-39-3			
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 15:19	7440-41-7			
Boron	0.51	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 15:19	7440-42-8			
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 22:07	7440-43-9			
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 15:19	7440-47-3			
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 22:07	7440-48-4			
_ead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 22:07	7439-92-1			
Lithium	ND	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 22:07	7439-93-2			
Molybdenum	0.022	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 22:07	7439-98-7			
Selenium	0.0095	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 22:07	7782-49-2			
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 22:07	7440-28-0			
7470 Mercury	Analytical M	lethod: EPA 7	'470A Prep	paration Met	thod: EF	PA 7470A					
-	Pace Analyt	ical Services	- Peachtre	e Corners, C	GΑ						
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/23 08:15	02/14/23 11:54	7439-97-6			
2540C Total Dissolved Solids	Analytical M	lethod: SM 2	540C-2015								
	Pace Analyt	ical Services	- Peachtre	e Corners, C	GΑ						
Total Dissolved Solids	509	mg/L	25.0	25.0	1		01/31/23 12:51				
300.0 IC Anions 28 Days	Analytical M	lethod: EPA 3	300.0 Rev 2	2.1 1993							
	Pace Analyt	ical Services	- Asheville								
Chloride	9.2	mg/L	1.0	0.60	1		02/02/23 14:29	16887-00-6			
Fluoride	0.20	mg/L	0.10	0.050	1		02/02/23 14:29				
Sulfate	221	mg/L	4.0	2.0	4		02/02/23 17:19				



Date: 04/27/2023 10:46 AM

ANALYTICAL RESULTS

Project: Hammond AP-1
Pace Project No.: 92649377

Sample: HAM-HGWC-7	Lab ID:	92649377016	Collecte	ed: 01/27/23	3 13:15	Received: 01/	/30/23 11:58 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	ytical Services	- Charlotte						
Performed by	Customer				1		01/30/23 16:50		
рН	7.25	Std. Units			1		01/30/23 16:50		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	thod: Ef	PA 3010A			
	Pace Ana	ytical Services	- Peachtre	e Corners, C	3A				
Calcium	124	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 18:32	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	ytical Services	- Peachtre	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 22:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 22:13	7440-38-2	
Barium	0.065	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 22:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 15:25	7440-41-7	
Boron	0.93	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 15:25	7440-42-8	
Cadmium	0.00019J	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 22:13	7440-43-9	
Chromium	0.0014J	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 15:25	7440-47-3	
Cobalt	0.00067J	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 22:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 22:13	7439-92-1	
Lithium	0.0018J	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 22:13	7439-93-2	
Molybdenum	0.039	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 22:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 22:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 22:13	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Ana	ytical Services	- Peachtre	e Corners, C	3A				
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/23 08:15	02/14/23 11:57	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	ytical Services	- Peachtre	e Corners, C	3A				
Total Dissolved Solids	473	mg/L	25.0	25.0	1		01/31/23 12:52		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
•	Pace Ana	ytical Services	- Asheville						
Chloride	40.0	mg/L	1.0	0.60	1		02/02/23 14:48	16887-00-6	
Fluoride	0.10	mg/L	0.10	0.050	1		02/02/23 14:48		
Sulfate	119	mg/L	2.0	1.0	2		02/02/23 17:38		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-HGWC-10	Lab ID:	92649377017	Collecte	ed: 01/27/23	3 15:01	Received: 01/	30/23 11:58 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		01/30/23 16:50		
рН	6.89	Std. Units			1		01/30/23 16:50		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Calcium	60.4	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 18:37	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 22:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 22:19	7440-38-2	
Barium	0.041	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 22:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 15:31	7440-41-7	
Boron	0.065	mg/L	0.040	0.0086	1	02/01/23 12:06	02/06/23 15:31		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 22:19	7440-43-9	
Chromium	0.0012J	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 15:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 22:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 22:19	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 22:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 22:19	7439-98-7	
Selenium	0.0035J	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 22:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 22:19	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	paration Met	hod: EF	PA 7470A			
•	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/23 08:15	02/14/23 11:59	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Total Dissolved Solids	188	mg/L	25.0	25.0	1		02/02/23 19:15		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
-	Pace Ana	lytical Services	- Asheville						
Chloride	1.6	mg/L	1.0	0.60	1		02/02/23 15:07	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.050	1		02/02/23 15:07		
Sulfate	37.3	mg/L	1.0	0.50	1		02/02/23 15:07		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-MW-27D	Lab ID:	92649377018	Collecte	d: 01/27/23	3 17:35	Received: 01/	/30/23 11:58 M	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	Customer				1		01/30/23 16:50		
рН	7.80	Std. Units			1		01/30/23 16:50		
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	paration Met	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Calcium	28.1	mg/L	1.0	0.12	1	03/20/23 12:41	03/21/23 18:42	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prep	aration Met	thod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 12:06	02/03/23 22:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/01/23 12:06	02/03/23 22:25	7440-38-2	
Barium	0.94	mg/L	0.0050	0.00067	1	02/01/23 12:06	02/03/23 22:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 12:06	02/06/23 15:37	7440-41-7	
Boron	0.12	mg/L	0.040	0.0086	1	02/01/23 12:06			
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 12:06	02/03/23 22:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/23 12:06	02/06/23 15:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 12:06	02/03/23 22:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 12:06	02/03/23 22:25	7439-92-1	
Lithium	0.0072J	mg/L	0.030	0.00073	1	02/01/23 12:06	02/03/23 22:25	7439-93-2	
Molybdenum	0.0014J	mg/L	0.010	0.00074	1	02/01/23 12:06	02/03/23 22:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 12:06	02/03/23 22:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 12:06	02/03/23 22:25	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Prep	aration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/23 08:15	02/14/23 12:07	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	ЭΑ				
Total Dissolved Solids	255	mg/L	25.0	25.0	1		02/02/23 19:16		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	32.5	mg/L	1.0	0.60	1		02/03/23 15:41	16887-00-6	
Fluoride	0.30	mg/L	0.10	0.050	1		02/03/23 15:41		
Sulfate	9.1	mg/L	1.0	0.50	1		02/03/23 15:41		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-HGWC-8	Lab ID:	92649377019	Collecte	ed: 02/01/23	3 10:02	Received: 02/	/03/23 12:50 I	Matrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte)					
Performed by	Customer				1		02/15/23 12:0	7	
pH	6.60	Std. Units			1		02/15/23 12:0	7	
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Met	thod: EF	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Calcium	110	mg/L	1.0	0.12	1	02/13/23 17:06	02/14/23 20:3	8 7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Antimony	ND	mg/L	0.0030	0.00078	1	02/14/23 17:00	02/16/23 21:2	0 7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/14/23 17:00	02/16/23 21:2	0 7440-38-2	
Barium	0.058	mg/L	0.0050	0.00067	1	02/14/23 17:00	02/16/23 21:2	0 7440-39-3	
Beryllium	0.000056J	mg/L	0.00050	0.000054	1	02/14/23 17:00	02/16/23 21:2	0 7440-41-7	
Boron	1.9	mg/L	0.040	0.0086	1	02/14/23 17:00	02/16/23 21:2	0 7440-42-8	
Cadmium	0.00014J	mg/L	0.00050	0.00011	1	02/14/23 17:00	02/16/23 21:2	0 7440-43-9	
Chromium	ND	mg/L	0.025	0.0055	5	02/14/23 17:00	02/17/23 18:3	6 7440-47-3	D3
Cobalt	ND	mg/L	0.025	0.0020	5	02/14/23 17:00	02/17/23 18:3	6 7440-48-4	D3
Lead	ND	mg/L	0.0010	0.00089	1	02/14/23 17:00	02/16/23 21:2	0 7439-92-1	
Lithium	0.0015J	mg/L	0.030	0.00073	1	02/14/23 17:00	02/16/23 21:2	0 7439-93-2	
Molybdenum	0.29	mg/L	0.010	0.00074	1	02/14/23 17:00	02/16/23 21:2	0 7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/14/23 17:00	02/16/23 21:2	0 7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/14/23 17:00	02/16/23 21:2	0 7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/23 08:15	02/14/23 12:1	0 7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015	i					
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Total Dissolved Solids	528	mg/L	25.0	25.0	1		02/07/23 18:4	0	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville	:					
Chloride	52.4	mg/L	1.0	0.60	1		02/07/23 22:3	2 16887-00-6	
Fluoride	0.40	mg/L	0.10	0.050	1			2 16984-48-8	
Sulfate	179	mg/L	4.0	2.0	4		02/08/23 11:4	7 14808-79-8	



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-AP-1-EB-01	Lab ID:	92649377020) Collecte	ed: 02/01/2	3 14:50	Received: 02/	03/23 12:50 Ma	atrix: Water		
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua	
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
	Pace Anal	ytical Services	s - Peachtre	e Corners, 0	GΑ					
Calcium	ND	mg/L	1.0	0.12	1	02/13/23 17:06	02/14/23 20:48	7440-70-2		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Me	thod: El	PA 3005A				
	Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/14/23 17:00	02/16/23 21:26	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	02/14/23 17:00	02/16/23 21:26	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	02/14/23 17:00	02/16/23 21:26	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	02/14/23 17:00	02/16/23 21:26	7440-41-7		
Boron	0.022J	mg/L	0.040	0.0086	1	02/14/23 17:00	02/16/23 21:26	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	02/14/23 17:00	02/16/23 21:26	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	02/14/23 17:00	02/17/23 17:01	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	02/14/23 17:00	02/17/23 17:01	7440-48-4		
_ead	ND	mg/L	0.0010	0.00089	1	02/14/23 17:00	02/16/23 21:26	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	02/14/23 17:00	02/16/23 21:26	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	02/14/23 17:00	02/16/23 21:26	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	02/14/23 17:00	02/16/23 21:26	7782-49-2		
Γhallium	ND	mg/L	0.0010	0.00018	1	02/14/23 17:00	02/16/23 21:26			
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	thod: EF	PA 7470A				
·	Pace Analy	ytical Services	s - Peachtre	e Corners, 0	GΑ					
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/23 08:15	02/14/23 12:13	7439-97-6		
2540C Total Dissolved Solids	Analytical	Method: SM 2	2540C-2015							
	Pace Analy	ytical Services	s - Peachtre	e Corners, 0	GΑ					
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/07/23 18:41			
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993						
	Pace Anal	ytical Services	s - Asheville							
Chloride	ND	mg/L	1.0	0.60	1		02/07/23 22:48	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		02/07/23 22:48	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		02/07/23 22:48	14808-79-8		



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Sample: HAM-AP-1-FB-01	Lab ID:	9264937702	1 Collecte	ed: 02/01/2	3 14:40	Received: 02/	03/23 12:50 Ma	atrix: Water				
		Report										
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua			
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A											
	Pace Anal	ytical Service	s - Peachtre	e Corners, (GΑ							
Calcium	ND	mg/L	1.0	0.12	1	02/13/23 17:06	02/14/23 20:53	7440-70-2				
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Me	thod: El	PA 3005A						
	Pace Analytical Services - Peachtree Corners, GA											
Antimony	ND	mg/L	0.0030	0.00078	1	02/14/23 17:00	02/16/23 21:32	7440-36-0				
Arsenic	ND	mg/L	0.0050	0.0022	1	02/14/23 17:00	02/16/23 21:32	7440-38-2				
Barium	ND	mg/L	0.0050	0.00067	1	02/14/23 17:00	02/16/23 21:32	7440-39-3				
Beryllium	ND	mg/L	0.00050	0.000054	1	02/14/23 17:00	02/16/23 21:32	7440-41-7				
Boron	0.011J	mg/L	0.040	0.0086	1	02/14/23 17:00	02/16/23 21:32	7440-42-8				
Cadmium	ND	mg/L	0.00050	0.00011	1	02/14/23 17:00	02/16/23 21:32	7440-43-9				
Chromium	ND	mg/L	0.0050	0.0011	1	02/14/23 17:00	02/17/23 17:07	7440-47-3				
Cobalt	ND	mg/L	0.0050	0.00039	1	02/14/23 17:00	02/17/23 17:07	7440-48-4				
Lead	ND	mg/L	0.0010	0.00089	1	02/14/23 17:00	02/16/23 21:32	7439-92-1				
Lithium	ND	mg/L	0.030	0.00073	1	02/14/23 17:00	02/16/23 21:32	7439-93-2				
Molybdenum	ND	mg/L	0.010	0.00074	1	02/14/23 17:00	02/16/23 21:32	7439-98-7				
Selenium	ND	mg/L	0.0050	0.0014	1	02/14/23 17:00	02/16/23 21:32	7782-49-2				
Thallium	ND	mg/L	0.0010	0.00018	1	02/14/23 17:00	02/16/23 21:32					
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	thod: EF	PA 7470A						
•	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GΑ							
Mercury	ND	mg/L	0.00020	0.00013	1	02/14/23 08:15	02/14/23 12:15	7439-97-6				
2540C Total Dissolved Solids	Analytical	Method: SM 2	2540C-2015									
	Pace Anal	ytical Service	s - Peachtre	e Corners, 0	GΑ							
Total Dissolved Solids	28.0	mg/L	25.0	25.0	1		02/07/23 18:41					
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993								
-	Pace Anal	ytical Service	s - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/07/23 23:04	16887-00-6				
Fluoride	ND	mg/L	0.10	0.050	1		02/07/23 23:04	16984-48-8				
Sulfate	ND	mg/L	1.0	0.50	1		02/07/23 23:04	14808-79-8				



Project: Hammond AP-1

Date: 04/27/2023 10:46 AM

Pace Project No.: 92649377

QC Batch: 755531 QC Batch Method: EPA 3010A Analysis Method:

EPA 6010D

Analysis Description:

6010D ATL

Laboratory:

Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92649377019, 92649377020, 92649377021

METHOD BLANK: 3925569 Matrix: Water

Associated Lab Samples: 92649377019, 92649377020, 92649377021

Blank Reporting

ParameterUnitsResultLimitMDLAnalyzedQualifiersCalciummg/LND1.00.1202/14/23 18:47

LABORATORY CONTROL SAMPLE: 3925570

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Calcium mg/L 0.97J 97 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925571 3925572

MS MSD

92648451003 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result % Rec **RPD** RPD Qual Result % Rec Limits 20 M1 Calcium mg/L 286 295 304 925 1800 75-125

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.



Project: Hammond AP-1

Pace Project No.: 92649377

QC Batch: 762460 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007,

92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014,

92649377015, 92649377016, 92649377017, 92649377018

METHOD BLANK: 3959969 Matrix: Water

Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007,

92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014,

92649377015, 92649377016, 92649377017, 92649377018

Blank Reporting

 Parameter
 Units
 Result
 Limit
 MDL
 Analyzed
 Qualifiers

 Calcium
 mg/L
 ND
 1.0
 0.12
 03/21/23 16:12

LABORATORY CONTROL SAMPLE: 3959970

Date: 04/27/2023 10:46 AM

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

MS

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3959971 3959972

92649377008 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual Calcium 122 75-125 2 20 M1 mg/L 118 124 345 602

MSD

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.



Date: 04/27/2023 10:46 AM

QUALITY CONTROL DATA

Project: Hammond AP-1 Pace Project No.: 92649377

QC Batch: 753122 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007,

92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014,

92649377015, 92649377016, 92649377017, 92649377018

METHOD BLANK: 3912997 Matrix: Water

Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007,

92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014,

92649377015, 92649377016, 92649377017, 92649377018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Faiailletei				IVIDL	Ariaiyzeu	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/03/23 19:38	
Arsenic	mg/L	ND	0.0050	0.0022	02/03/23 19:38	
Barium	mg/L	ND	0.0050	0.00067	02/03/23 19:38	
Beryllium	mg/L	ND	0.00050	0.000054	02/06/23 12:56	
Boron	mg/L	ND	0.040	0.0086	02/03/23 19:38	
Cadmium	mg/L	ND	0.00050	0.00011	02/03/23 19:38	
Chromium	mg/L	ND	0.0050	0.0011	02/06/23 12:56	
Cobalt	mg/L	ND	0.0050	0.00039	02/03/23 19:38	
Lead	mg/L	ND	0.0010	0.00089	02/03/23 19:38	
Lithium	mg/L	ND	0.030	0.00073	02/03/23 19:38	
Molybdenum	mg/L	ND	0.010	0.00074	02/03/23 19:38	
Selenium	mg/L	ND	0.0050	0.0014	02/03/23 19:38	
Thallium	mg/L	ND	0.0010	0.00018	02/03/23 19:38	

LABORATORY CONTROL SAMPLE:	3912998					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.12	117	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	0.93	93	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.11	106	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.11	108	80-120	
Lithium	mg/L	0.1	0.096	96	80-120	
Molybdenum	mg/L	0.1	0.11	107	80-120	
Selenium	mg/L	0.1	0.11	107	80-120	
Thallium	mg/L	0.1	0.11	108	80-120	

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.



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

MATRIX SPIKE & MATRIX	SPIKE DUPLIC	CATE: 3912		1405	3913000							
Davarantas		2649235012	MS Spike	MSD Spike	MS	MSD	MS % Date	MSD	% Rec	DDD	Max	0
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.12	0.12	119	118	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	105	102	75-125	3	20	
Barium	mg/L	0.034	0.1	0.1	0.13	0.13	100	99	75-125	1	20	
Beryllium	mg/L	0.00010J	0.1	0.1	0.10	0.099	100	99	75-125	1	20	
Boron	mg/L	0.45	1	1	1.3	1.4	89	97	75-125	5	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	106	103	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.11	0.10	105	104	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.096	0.10	96	100	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	105	104	75-125	1	20	
Selenium	mg/L	0.0022J	0.1	0.1	0.11	0.11	106	103	75-125	3	20	
Thallium	mg/L	0.00019J	0.1	0.1	0.11	0.10	105	105	75-125	1	20	

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



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

QC Batch: 755827 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92649377019, 92649377020, 92649377021

METHOD BLANK: 3926998 Matrix: Water

Associated Lab Samples: 92649377019, 92649377020, 92649377021

Dovernator	l loite	Blank	Reporting	MDI	Analyses	O I:f:
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/16/23 19:33	
Arsenic	mg/L	ND	0.0050	0.0022	02/16/23 19:33	
Barium	mg/L	ND	0.0050	0.00067	02/16/23 19:33	
Beryllium	mg/L	ND	0.00050	0.000054	02/16/23 19:33	
Boron	mg/L	ND	0.040	0.0086	02/16/23 19:33	
Cadmium	mg/L	ND	0.00050	0.00011	02/16/23 19:33	
Chromium	mg/L	ND	0.0050	0.0011	02/17/23 16:37	
Cobalt	mg/L	ND	0.0050	0.00039	02/16/23 19:33	
Lead	mg/L	ND	0.0010	0.00089	02/16/23 19:33	
Lithium	mg/L	ND	0.030	0.00073	02/16/23 19:33	
Molybdenum	mg/L	ND	0.010	0.00074	02/16/23 19:33	
Selenium	mg/L	ND	0.0050	0.0014	02/16/23 19:33	
Thallium	mg/L	ND	0.0010	0.00018	02/16/23 19:33	

LABORATORY CONTROL SAMPLE:	3926999					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.10	103	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	112	80-120	
Boron	mg/L	1	1.1	111	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.12	117	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	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3927000 3927001												
		00040454007	MS	MSD	140	MOD	140	MOD	0/ D			
		92648451007	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	106	75-125	1	20	
Arsenic	mg/L	0.0040J	0.1	0.1	0.11	0.11	109	109	75-125	0	20	

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



Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

MATRIX SPIKE & MATRIX	SPIKE DUPLIC	CATE: 3927	000		3927001							
Parameter	9 Units	2648451007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.017	0.1	0.1	0.12	0.12	104	102	75-125	2	20	
Beryllium	mg/L	0.00039J	0.1	0.1	0.086	0.084	85	83	75-125	2	20	
Boron	mg/L	7.7	1	1	8.4	8.4	75	74	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Cobalt	mg/L	0.035	0.1	0.1	0.13	0.13	92	90	75-125	1	20	
Lead	mg/L	0.0011	0.1	0.1	0.093	0.091	92	90	75-125	3	20	
Lithium	mg/L	ND	0.1	0.1	0.093	0.091	93	91	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	3	20	
Selenium	mg/L	0.0036J	0.1	0.1	0.11	0.11	110	108	75-125	2	20	
Thallium	mg/L	0.00047J	0.1	0.1	0.096	0.093	95	93	75-125	3	20	

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



Project:

Hammond AP-1

Pace Project No.:

92649377

QC Batch: QC Batch Method: 754635

EPA 7470A

Analysis Method:

EPA 7470A

Analysis Description:

7470 Mercury

Laboratory:

Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples:

92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007,

92649377008, 92649377009, 92649377010, 92649377011, 92649377012

METHOD BLANK: 3920549

Matrix: Water

Associated Lab Samples:

92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007,

92649377008, 92649377009, 92649377010, 92649377011, 92649377012

Blank

Reporting

Parameter

Units

Result

Limit

MDL

Analyzed

Qualifiers

Mercury

mg/L

Units

ND

0.00020

0.00013

02/09/23 11:41

LABORATORY CONTROL SAMPLE:

Parameter

3920550

Spike Conc.

LCS Result

LCS % Rec

% Rec

Qualifiers

Mercury

mg/L

0.0025

0.0023

92 80-120

Limits

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3920551

ND

MSD

92649377001 Parameter Units Result

mg/L

MS Spike Conc.

Spike Conc.

MS MSD Result Result

3920552

MS % Rec

101

MSD % Rec % Rec Limits RPD

RPD

Date: 04/27/2023 10:46 AM

Mercury

0.0025 0.0025 0.0025

0.0025

98 75-125

20 3

Max

Qual

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.



Project:

Hammond AP-1

Pace Project No.:

92649377

QC Batch: QC Batch Method: 755636

EPA 7470A

Analysis Method:

EPA 7470A

Analysis Description:

7470 Mercury

Laboratory:

Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples:

92649377013, 92649377014, 92649377015, 92649377016, 92649377017, 92649377018, 92649377019,

92649377020, 92649377021

METHOD BLANK: 3925965

Matrix: Water

ND

Associated Lab Samples:

92649377013, 92649377014, 92649377015, 92649377016, 92649377017, 92649377018, 92649377019,

92649377020, 92649377021

Blank

Reporting

Analyzed

Limits

Qualifiers

Parameter Mercury

Units mg/L

Result

Limit 0.00020

0.00013

MDL

02/14/23 11:36

LABORATORY CONTROL SAMPLE:

Parameter

3925966

Spike

LCS Result LCS

% Rec

Qualifiers

Mercury

Mercury

mg/L

Units

Conc. 0.0025

0.0025

100

80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3925967

MSD

92649377013 Result

Units

mg/L

MSD Result

0.0024

% Rec

MS % Rec MSD

% Rec RPD

Max RPD Qual

Parameter

Date: 04/27/2023 10:46 AM

MS

ND

Spike Conc.

0.0025

Spike Conc. 0.0025

Result 0.0023

3925968

MS

93

% Rec 95 Limits 75-125

2 20

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

REPORT OF LABORATORY ANALYSIS

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Date: 04/27/2023 10:46 AM

QUALITY CONTROL DATA

Project: Hammond AP-1 Pace Project No.: 92649377

QC Batch: 752849 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: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007,

92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014,

92649377015, 92649377016

METHOD BLANK: 3911476 Matrix: Water

Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007,

92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014,

92649377015, 92649377016

Blank Reporting MDL Qualifiers Parameter Units Result Limit Analyzed Total Dissolved Solids mg/L ND 25.0 25.0 01/31/23 12:38 LABORATORY CONTROL SAMPLE: 3911477

Spike LCS LCS % Rec % Rec Parameter Units Conc. Result Limits Qualifiers **Total Dissolved Solids** mg/L 400 394 98 80-120

SAMPLE DUPLICATE: 3911478 92649235011 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers Total Dissolved Solids 396 4 10 mg/L 414

SAMPLE DUPLICATE: 3911479 92649377007 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 89.0 Total Dissolved Solids mg/L 93.0 4 10

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



Project: Hammond AP-1
Pace Project No.: 92649377

QC Batch: 753439

QC Batch Method: SM 2540C-2015

Analysis Method: SM 2540C-2015

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92649377017, 92649377018

METHOD BLANK: 3914561 Matrix: Water

Associated Lab Samples: 92649377017, 92649377018

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 25.0 02/02/23 19:13

LABORATORY CONTROL SAMPLE: 3914562

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units **Total Dissolved Solids** mg/L 400 427 107 80-120

SAMPLE DUPLICATE: 3914563

92649377017 Dup Max Parameter Units Result Result **RPD RPD** Qualifiers 188 **Total Dissolved Solids** 8 mg/L 204 10

SAMPLE DUPLICATE: 3914564

Date: 04/27/2023 10:46 AM

92649235025 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 433 mg/L 458 6 10

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



Project:

Hammond AP-1

Pace Project No.:

92649377

QC Batch: QC Batch Method: 754118

SM 2540C-2015

Analysis Method:

SM 2540C-2015

Analysis Description:

2540C Total Dissolved Solids

25.0

Laboratory:

Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92649377019, 92649377020, 92649377021

METHOD BLANK:

Parameter

LABORATORY CONTROL SAMPLE:

Parameter

Matrix: Water

Associated Lab Samples:

92649377019, 92649377020, 92649377021

Blank Result Reporting

25.0

ND

Limit

MDL Analyzed

02/07/23 18:37

Qualifiers

Total Dissolved Solids

Units

mg/L

mg/L

3917652

Units

mg/L

Spike Conc.

400

1950

528

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Total Dissolved Solids

Total Dissolved Solids

Date: 04/27/2023 10:46 AM

SAMPLE DUPLICATE: 3917653 92648451007 Parameter Units Result

Dup Result

2030

540

408

RPD

4

102

Max **RPD**

80-120

Qualifiers

10 1g

10

SAMPLE DUPLICATE: 3917654

Parameter Units Total Dissolved Solids mg/L 92649377019 Result

Dup Result

RPD 2

Max RPD

Qualifiers

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.



Date: 04/27/2023 10:46 AM

QUALITY CONTROL DATA

Project: Hammond AP-1 Pace Project No.: 92649377

QC Batch: 752813 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: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007,

92649377015, 92649377016, 92649377017

METHOD BLANK: 3911193 Matrix: Water

Associated Lab Samples: 92649377001, 92649377002, 92649377003, 92649377004, 92649377005, 92649377006, 92649377007,

92649377008, 92649377009, 92649377010, 92649377011, 92649377012, 92649377013, 92649377014,

92649377015, 92649377016, 92649377017

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/01/23 08:25	
Fluoride	mg/L	ND	0.10	0.050	02/01/23 08:25	
Sulfate	mg/L	ND	1.0	0.50	02/01/23 08:25	

LABORATORY CONTROL SAMPLE:	3911194					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	48.2	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3911195 3911196												
			MS	MSD								
		92649235018	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	ND	50	50	51.2	51.7	102	103	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	102	103	90-110	1	10	
Sulfate	mg/L	0.57J	50	50	49.3	50.0	97	99	90-110	1	10	

MATRIX SPIKE & MATRIX SI	PIKE DUPLIC	CATE: 3911	3911198									
Parameter	g Units	2649377008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.7	50	50	59.0	59.3	103	103	90-110	0	10	
Fluoride	mg/L	0.098J	2.5	2.5	2.6	2.6	99	101	90-110	1	10	
Sulfate	mg/L	214	50	50	262	265	96	101	90-110	1	10	

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



Project: Hammond AP-1

Pace Project No.: 92649377

QC Batch: 753396

QC Batch Method:

753396 Analysis Method: EPA 300.0 Rev 2.1 1993 Analysis Descript

Analysis Description: 300.0 IC Anions

Laboratory:

Pace Analytical Services - Asheville

EPA 300.0 Rev 2.1 1993

Associated Lab Samples: 92649377018

METHOD BLANK: 3914289

Date: 04/27/2023 10:46 AM

Matrix: Water

Associated Lab Samples: 92649377018

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/03/23 10:31	
Fluoride	mg/L	ND	0.10	0.050	02/03/23 10:31	
Sulfate	mg/L	ND	1.0	0.50	02/03/23 10:31	

LABORATORY CONTROL SAMPLE:	3914290					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	52.2	104	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	52.3	105	90-110	

MATRIX SPIKE & MATRIX SP		3914292										
			MS	MSD								
		92649872013	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	4.1	50	50	54.2	54.6	100	101	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	100	101	90-110	1	10	
Sulfate	mg/L	2.8	50	50	52.9	53.3	100	101	90-110	1	10	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3914	293		3914294							
			MS	MSD								
		92649378004	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	83.4	50	50	124	123	80	80	90-110	0	10	M1
Fluoride	mg/L	0.087J	2.5	2.5	2.6	2.6	101	101	90-110	0	10	
Sulfate	mg/L	895	50	50	936	932	82	75	90-110	0	10	M1

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



Project: Hammond AP-1
Pace Project No.: 92649377

LABORATORY CONTROL CAMPLE: 2010214

Date: 04/27/2023 10:46 AM

QC Batch: 754257 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: 92649377019, 92649377020, 92649377021

METHOD BLANK: 3918313 Matrix: Water

Associated Lab Samples: 92649377019, 92649377020, 92649377021

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/07/23 15:10	
Fluoride	mg/L	ND	0.10	0.050	02/07/23 15:10	
Sulfate	mg/L	ND	1.0	0.50	02/07/23 15:10	

LABORATORY CONTROL SAMPLE.	3916314	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3918315					3918316							
			MS	MSD								
		92650071001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	ND	50	50	49.4	50.9	99	102	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	94	96	90-110	3	10	
Sulfate	mg/L	ND	50	50	48.4	50.1	97	100	90-110	3	10	

MATRIX SPIKE & MATRIX SP	IKE DUPL	LICATE: 3918	317		3918318							
			MS	MSD								
		92648451012	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD Qual	1
Chloride	mg/L	189	50	50	233	235	88	91	90-110	1	10 M1	
Fluoride	mg/L	0.10	2.5	2.5	2.7	2.9	106	112	90-110	5	10 M1	
Sulfate	mg/L	1190	50	50	1220	1230	62	80	90-110	1	10 M1	

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



QUALIFIERS

Project: Hammond AP-1
Pace Project No.: 92649377

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

Date: 04/27/2023 10:46 AM

1g Sample residue exceeded method SM 2540C recommended 200 mg.

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

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



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

_ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92649377001	HAM-HGWC-9				
92649377002	HAM-HGWC-11				
2649377003	HAM-HGWC-12				
2649377004	HAM-HGWC-13				
2649377005	HAM-MW-5				
2649377006	HAM-MW-6				
2649377007	HAM-MW-7				
2649377008	HAM-MW-19				
2649377009	HAM-MW-20				
2649377010	HAM-MW-24D				
2649377011	HAM-MW-25D				
2649377012	HAM-MW-26D				
2649377013	HAM-MW-28D				
2649377014	HAM-MW-29				
2649377016	HAM-HGWC-7				
2649377017	HAM-HGWC-10				
2649377018	HAM-MW-27D				
2649377019	HAM-HGWC-8				
2649377001	HAM-HGWC-9	EPA 3010A	762460	EPA 6010D	762514
2649377002	HAM-HGWC-11	EPA 3010A	762460	EPA 6010D	762514
2649377003	HAM-HGWC-12	EPA 3010A	762460	EPA 6010D	762514
2649377004	HAM-HGWC-13	EPA 3010A	762460	EPA 6010D	762514
2649377005	HAM-MW-5	EPA 3010A	762460	EPA 6010D	762514
2649377006	HAM-MW-6	EPA 3010A	762460	EPA 6010D	762514
2649377007	HAM-MW-7	EPA 3010A	762460	EPA 6010D	762514
2649377008	HAM-MW-19	EPA 3010A	762460	EPA 6010D	762514
2649377009	HAM-MW-20	EPA 3010A	762460	EPA 6010D	762514
2649377010	HAM-MW-24D	EPA 3010A	762460	EPA 6010D	762514
2649377011	HAM-MW-25D	EPA 3010A	762460	EPA 6010D	762514
2649377012	HAM-MW-26D	EPA 3010A	762460	EPA 6010D	762514
2649377013	HAM-MW-28D	EPA 3010A	762460	EPA 6010D	762514
2649377014	HAM-MW-29	EPA 3010A	762460	EPA 6010D	762514
2649377015	HAM-AP-1-FD-01	EPA 3010A	762460	EPA 6010D	762514
2649377016	HAM-HGWC-7	EPA 3010A	762460	EPA 6010D	762514
2649377017	HAM-HGWC-10	EPA 3010A	762460	EPA 6010D	762514
2649377018	HAM-MW-27D	EPA 3010A	762460	EPA 6010D	762514
2649377019	HAM-HGWC-8	EPA 3010A	755531	EPA 6010D	755685
2649377020	HAM-AP-1-EB-01	EPA 3010A	755531	EPA 6010D	755685
2649377021	HAM-AP-1-FB-01	EPA 3010A	755531	EPA 6010D	755685
2649377001	HAM-HGWC-9	EPA 3005A	753122	EPA 6020B	753262
2649377002	HAM-HGWC-11	EPA 3005A	753122	EPA 6020B	753262
2649377003	HAM-HGWC-12	EPA 3005A	753122	EPA 6020B	753262
2649377004	HAM-HGWC-13	EPA 3005A	753122	EPA 6020B	753262
2649377005	HAM-MW-5	EPA 3005A	753122	EPA 6020B	753262
2649377006	HAM-MW-6	EPA 3005A	753122	EPA 6020B	753262
2649377007	HAM-MW-7	EPA 3005A	753122	EPA 6020B	753262
2649377008	HAM-MW-19	EPA 3005A	753122	EPA 6020B	753262



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytic Batch
92649377009	HAM-MW-20	EPA 3005A		EPA 6020B	753262
92649377010	HAM-MW-24D	EPA 3005A	753122	EPA 6020B	753262
2649377011	HAM-MW-25D	EPA 3005A	753122	EPA 6020B	753262
2649377012	HAM-MW-26D	EPA 3005A	753122	EPA 6020B	753262
2649377013	HAM-MW-28D	EPA 3005A	753122	EPA 6020B	753262
2649377014	HAM-MW-29	EPA 3005A	753122	EPA 6020B	753262
2649377015	HAM-AP-1-FD-01	EPA 3005A	753122	EPA 6020B	753262
2649377016	HAM-HGWC-7	EPA 3005A	753122	EPA 6020B	753262
2649377017	HAM-HGWC-10	EPA 3005A	753122	EPA 6020B	753262
2649377018	HAM-MW-27D	EPA 3005A	753122	EPA 6020B	753262
2649377019	HAM-HGWC-8	EPA 3005A	755827	EPA 6020B	755853
2649377019 2649377020	HAM-AP-1-EB-01	EPA 3005A EPA 3005A	755827 755827	EPA 6020B	755853
2649377020 2649377021					
	HAM-AP-1-FB-01	EPA 3005A	755827	EPA 6020B	755853
2649377001	HAM-HGWC-9	EPA 7470A	754635	EPA 7470A	754885
2649377002	HAM-HGWC-11	EPA 7470A	754635	EPA 7470A	754885
2649377003	HAM-HGWC-12	EPA 7470A	754635	EPA 7470A	754885
2649377004	HAM-HGWC-13	EPA 7470A	754635	EPA 7470A	754885
2649377005	HAM-MW-5	EPA 7470A	754635	EPA 7470A	754885
2649377006	HAM-MW-6	EPA 7470A	754635	EPA 7470A	754885
2649377007	HAM-MW-7	EPA 7470A	754635	EPA 7470A	754885
2649377008	HAM-MW-19	EPA 7470A	754635	EPA 7470A	754885
2649377009	HAM-MW-20	EPA 7470A	754635	EPA 7470A	754885
2649377010	HAM-MW-24D	EPA 7470A	754635	EPA 7470A	754885
2649377011	HAM-MW-25D	EPA 7470A	754635	EPA 7470A	754885
2649377012	HAM-MW-26D	EPA 7470A	754635	EPA 7470A	754885
2649377013	HAM-MW-28D	EPA 7470A	755636	EPA 7470A	755687
2649377014	HAM-MW-29	EPA 7470A	755636	EPA 7470A	755687
2649377015	HAM-AP-1-FD-01	EPA 7470A	755636	EPA 7470A	755687
2649377016	HAM-HGWC-7	EPA 7470A	755636	EPA 7470A	755687
2649377017	HAM-HGWC-10	EPA 7470A	755636	EPA 7470A	755687
2649377018	HAM-MW-27D	EPA 7470A	755636	EPA 7470A	755687
2649377019	HAM-HGWC-8	EPA 7470A	755636	EPA 7470A	755687
2649377020	HAM-AP-1-EB-01	EPA 7470A	755636	EPA 7470A	755687
2649377021	HAM-AP-1-FB-01	EPA 7470A	755636	EPA 7470A	755687
2649377001	HAM-HGWC-9	SM 2540C-2015	752849		
2649377002	HAM-HGWC-11	SM 2540C-2015	752849		
2649377003	HAM-HGWC-12	SM 2540C-2015	752849		
2649377004	HAM-HGWC-13	SM 2540C-2015	752849		
2649377005	HAM-MW-5	SM 2540C-2015	752849		
2649377006	HAM-MW-6	SM 2540C-2015	752849		
2649377007	HAM-MW-7	SM 2540C-2015	752849		
2649377008	HAM-MW-19	SM 2540C-2015	752849		
2649377009	HAM-MW-20	SM 2540C-2015	752849		
2649377010 2649377010	HAM-MW-24D	SM 2540C-2015	752849		
2649377010 2649377011	HAM-MW-25D	SM 2540C-2015	752849 752849		
2649377011 2649377012	HAM-MW-26D	SM 2540C-2015 SM 2540C-2015	752849 752849		
92649377013	HAM-MW-28D	SM 2540C-2015	752849		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1
Pace Project No.: 92649377

Date: 04/27/2023 10:46 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92649377014	HAM-MW-29	SM 2540C-2015	752849		
92649377015	HAM-AP-1-FD-01	SM 2540C-2015	752849		
92649377016	HAM-HGWC-7	SM 2540C-2015	752849		
92649377017	HAM-HGWC-10	SM 2540C-2015	753439		
92649377018	HAM-MW-27D	SM 2540C-2015	753439		
92649377019	HAM-HGWC-8	SM 2540C-2015	754118		
92649377020	HAM-AP-1-EB-01	SM 2540C-2015	754118		
92649377021	HAM-AP-1-FB-01	SM 2540C-2015	754118		
92649377001	HAM-HGWC-9	EPA 300.0 Rev 2.1 1993	752813		
92649377002	HAM-HGWC-11	EPA 300.0 Rev 2.1 1993	752813		
92649377003	HAM-HGWC-12	EPA 300.0 Rev 2.1 1993	752813		
92649377004	HAM-HGWC-13	EPA 300.0 Rev 2.1 1993	752813		
92649377005	HAM-MW-5	EPA 300.0 Rev 2.1 1993	752813		
92649377006	HAM-MW-6	EPA 300.0 Rev 2.1 1993	752813		
92649377007	HAM-MW-7	EPA 300.0 Rev 2.1 1993	752813		
92649377008	HAM-MW-19	EPA 300.0 Rev 2.1 1993	752813		
92649377009	HAM-MW-20	EPA 300.0 Rev 2.1 1993	752813		
92649377010	HAM-MW-24D	EPA 300.0 Rev 2.1 1993	752813		
92649377011	HAM-MW-25D	EPA 300.0 Rev 2.1 1993	752813		
92649377012	HAM-MW-26D	EPA 300.0 Rev 2.1 1993	752813		
92649377013	HAM-MW-28D	EPA 300.0 Rev 2.1 1993	752813		
92649377014	HAM-MW-29	EPA 300.0 Rev 2.1 1993	752813		
92649377015	HAM-AP-1-FD-01	EPA 300.0 Rev 2.1 1993	752813		
92649377016	HAM-HGWC-7	EPA 300.0 Rev 2.1 1993	752813		
92649377017	HAM-HGWC-10	EPA 300.0 Rev 2.1 1993	752813		
92649377018	HAM-MW-27D	EPA 300.0 Rev 2.1 1993	753396		
92649377019	HAM-HGWC-8	EPA 300.0 Rev 2.1 1993	754257		
92649377020	HAM-AP-1-EB-01	EPA 300.0 Rev 2.1 1993	754257		
92649377021	HAM-AP-1-FB-01	EPA 300.0 Rev 2.1 1993	754257		

	0
1	Pace
1	1 400

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

	luntersv	ille 🗌	Raleigh	n	Mechanicsville Atlanta Kernersville
Maria Barata	one	1		Proje	ect#: WO#:92649377
Courier: Fed Ex UPS Commercial	□USPS □Othe	i -	С	ient	92649377
Custody Seal Present? Yes Seals In	tact?	□Yes	DN ₀		Date/Initials Person Examining Contents: MT
Packing Material: Bubble Wrap Bubb Thermometer:	le Bags	None	· 10	ther	Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A
Cooler Temp: 41 Correction Factor:	Type of Ic	e: 🗵	Wet □B	llue	None
Cooler Temp: Add/Subtract (°C) Cooler Temp Corrected (°C): USDA Regulated Soil (N/A, water sample)			-		Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun
Did samples originate in a quarantine zone within the Ur (check maps)? Yes	ited States	: CA, NY,	or SC		Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes
Chain of Custody Present?	1	-	-	-	Comments/Discrepancy:
	Yes	□No	N/A	1.	
Samples Arrived within Hold Time?	Ves	No	□N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☐Yes	1110	□N/A	3.	
Rush Turn Around Time Requested?	□Yes	No	□N/A	4.	
Sufficient Volume?	Ves	□No	□N/A	5.	
Correct Containers Used?	Dies	□No	□N/A	6.	
-Pace Containers Used?	Dues	□No	□N/A	0.	
Containers Intact?	Yes	□No	□N/A	7.	
Dissolved analysis: Samples Field Filtered?	□Yes	□No	DIN/A	8.	
Sample Labels Match COC?	Tes	□No	□N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	6				
Headspace in VOA Vials (>5-6mm)?	□Yes	□No	+ IN/A-	10	
Trip Blank Present?	Yes		N/A	10.	
Trip Blank Custody Seals Present?			/		
COMMENTS/SAMPLE DISCREPANCY	Yes	□No	EM/A		Field Data Required? ☐Yes ☐No
LIENT NOTIFICATION/RESOLUTION			Lo	ot ID	of split containers:
Person contacted:		t	Date/Time:		
Project Manager SCURF Review:					Date:
Project Manager SRF Review:					Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

WO#: 92649377

PM: BV

Project #

Due Date: 02/13/23

CLIENT: GA-GA Power

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	8P3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	8P4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BPIN	BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	1	1			1	1.	X	1			1		1	1	1									2	1			
2	1	1	ı		/	1	X	1			1		1	1	1									2	X			
3	1	1	1		1	10	X	1			1		/	1	1									Z	1			
4	1	1	1		1	10	Z,	1			1		1	1	1									19	X			
5	1	1	Т		1	10	Z,	1			1		/	/	1									2	X			
6	/	1	1	T	1	19	$\langle \cdot \rangle$	1			1		1	/										2	X			-
7	1	1				1	1				1		1	/	7		•							1	X			
8	1	1	1			79	<	1			1		1	1	1									2	X			
9	1	1	1		1	(3	1	1			1		7	1	1							-	-	A	X			
10	1	1	1		1	1	X	1			1		1	1	1									2	1		-	
11	1	1	1		1	17	1	1	-		1	-	1	7	7	-	-				-			2	1	-		
12		Ì	1		1	Y	1	1					1	1										2			1	

	pH Ac	ljustment Log for Pres	erved Samples		
Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
	Type of Preservative			Time preservation	Type of Preservative pH upon receipt Date preservation adjusted Time preservation Amount of Preservative

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



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

- **Bottom half of box is to list number of bottles
- ***Check all unpreserved Nitrates for chlorine

Project # WO#: 92649377

PM: BV

Due Date: 02/13/23

CLIENT: GA-GA Power

ltem#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na252O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	RAPIN	BP3R-250 mL Plastic (NH2)25O4 (9 3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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		pH Ac	ljustment Log for Pres	erved Samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Curtody is a LEGAL DOCUMENT All relevant fields must be completed accurately

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				lyan	and														# d # # 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 & 5 &	SODE SODE	x Codes		Project Number	Project Name:	Purchase Order No	-	Copy To: Geosyntec Contacts	Report To: SCS Contacts	Required Project Information
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F.ALL-Q-020rev.07, 15-Feb-2007

Important Note: Dy aligning this form you are eccepting Peco's HET 30 day payment terms and agreeing to ten charges of 1.5% per month for any throices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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Task Code: HAM-CCR-ASSMT-2023S10

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CHAIN-OF-CUSTODY / Analytical Request Document
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☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER	Burnst.	Purchase Order No.	SCS Contacts	Email To:
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Total of the state	Attention: Southern Co.	Report Io: SCS Contacts	Address: Allerto CA	Address
Page: 1 or 1	Section C Invoice information:	Section B Raquired Project information	Section A Required Clert information:	Section A

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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT, All relevant fields must be completed accurately.

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		ne i	Han 1	Consen	tr.	2/3/20	23	125	0		Lyo	'n	W.	11M	-	/ρ	Ku			1/23	1	250							
		18/11	Pac		43/2	023	14	00		1					,				7	T									
	- 10	1	-	-				, <u>, , , , , , , , , , , , , , , , , , </u>		广													\top		十				
						SAMPLI	ER NAME /	ND SIGN	ATUR	E	عدا به	, 10	1		5,35			TER		4	P. P.	y Mai	3 11	1 ² 5.85	. 1	0	5	ě	1 1
	PRINT									-		1/	I	1 6		ζ.,	1	1,	o /	. 10		tec Cor	H-	unto 1		remp in °C	KW)	Custody reled Cool (Y/N)	<u> </u>
							SIGNATUR			HADO	HLS.	Meso Al)	Auth	DILY	-	Soy JE	DÂT		ined		101/7			IIC.	Temp	Received on loe (Y/N)	Sealed Sealed	Samples Intact (Y/N)

		a Kernersville	All V		ing Contents: 2/3/23	sical Tissue Frozen?		to 6°C	source (internationally,	epancy:	:											quired? Tyes No					
ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt		Mechanicsville Atlanta	##		Date/Initials Person Examining Contents:	Biological Tissue Frozen?		Temp should be above freezing to 6°C	has begun Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)?	Comments/Discrepancy:												Field Data Required?	of split containers:		Date:	Date:	Page 1 of 2
Condit			Project #:	Client	0	Other	_ □Blue	,-		H	2.	m	4	ικi	ý	7.	οó	<u>ი</u>		10.	i	-	Lot ID o	e:			
ımple		Raleigh		Ŏ	ů		₩et ☐		or SC	N N	N N N	N/A	N/A	N/A	Š Š O O	N/A		N N A						Date/Time:			
/02_Sa		<u>e</u> □	(Yes	- Adone			: CA, NY, 6	Ş	_S	\ <u>\$</u>	4	ŝ	å å	ŝ		⁸		ů.							
-0083		Huntersville [1600	USPS	ict;		Type of Ice:	101	ed States	12		Çes	_ _ _		ۃ ڴڟ	10 750	١	\$ <		Q Ves							
HUN1	22		Johnan	π /	Seals Intact?	Bubble Bags			n the Unit										Z								
/-FRM-	/14/20	is: Greenwood 🔲	4					Correction Factor: Add/Subtract (°C)	nple)								red?		Matrix:								
)ate: 11,	les: Green	nt Name:			ole Wrap	3	§ 8	water sarr srantine 20		1 Time?	72 hr.)?	quested?				Field Filte			-6mm)?	sent?				iew:	<u> </u>	
DC#_Title:	Effective Date: 11/14/2022	ving samp Eden	Client		Yes	Bubble	7	73	d (°C): N/A, v e in a qua	resent?	ithin Holo	nalysis (<	Time Rec		s Used? 's Used?		Samples	tch COC?	Time/iD//	Vials (>5-	: Seals Pre	REPANCY	OLUTION		URF Revi	F Review	
	Eff	recei □	Saniple Condition Upon Receipt	rcial	Custody Seal Present?	terial:	Inermpmeter:	ä	Cooler Temp Corrected (*C): USDA Regulated Soil (Chain of Custody Present?	Samples Arrived within Hold Time?	Short Hold Time Analysis (<72 hr.)?	Rush Turn Around Time Requested?	Sufficient Volume?	Correct Containers Used?	Containers Intact?	D ssolved analysis: Samples Field Filtered?	Sample Labels Match COC?	-Includes Date/Time/iD/Analysis	Headspace in VOA Vials (>5-6mm)?	ank Custody	COMMENTS/SAMPLE DISCREPANCY	CLIENT NOTIFICATION/RESOLUTION	acted:	ect Manager SCURF Review:	ect Manager SRF Review:	99 Qualtrax ID: 69614
Pace		aboratory Asheville	Sample Condit Upon Receipt 	Courier:	tody Sea	Packing Material:	rmomet L	Cooler Temp:	Mer Tem A Regul Did samp check m	Chain o	Sample	Short	Rush T	Sufficie	Correct -Pac	Contair	Dissolv	Sample	-Incl	Headsp Trin RIS	Trip 8la	MENTS/S	r NOTIFIC	Person contacted:	Project M	roject N	trax ID
1		Labc		ខី□	Cus	Pac		8	OS I													OM	CLIEN	Pers	۵.	Pa g e 59	of 60 a

Pace	
1	_

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

 * Chec k mark top half of box if pH and/or dechlorination is verified and

within the acceptance range for preservation samples.

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

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

***Check all unpreserved Nitrates for chlorine

Project #

												,	, ,			
(A/N) sisiv bevreserved Jm 04-Ueaa																
VSGU-20 mL Scintillation vials (N/A)														# Fot		
(-ID) (A/N) bevreserved (N/A) (CI-)																
BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	X	7		1	17	1	1	1	1	1	1			ب ا		
MIDS	7			1										Amount of Preservative added		
(del – A\N) sitselle Plastic (N\A – lab)														of Prese		
(del – A\N) sisselq eliness Jm ZSI-T2q2											-			unt of ad		
V/GK (3 vials per kit)-VPH/Gas kit (N/A)														Ато		
KP7U-50 mL Plastic Unpreserved (N/A)																_
DG9V-40 mL VOA H3PO4 (N/A)													ماد	ation		
(A\N) bevreserved (N\A)											T		100	preserva		
(A\N) EOSSSBN AOV Jm 04-Teav) Pa	Time preservation adjusted		
DG9H-40 ™L VOA HCI (N/A)													, as			
DG94-40 mL Amber NH4Cl (N/A)(Cl-)		1	1/	7		1	7	7		17			Pre	sted		
(S > Hq) 4OSSH 19dmA Jm 0SS- 253A													ţ	adju		
(S > Hq) 4O2SH nədmA nətil 1-219A										1			2	vation		
AG3U-250 mL Amber Unpreserved (N/A) (Cl-)													tud	reser		
AG1H-1 liter Amber HCl (pH < 2)				17									Istm	Date preservation adjusted		
(CI-) (A/N) berveserved (N/A)								ĺ					nH Adiustment Log for Preserved Samples			_
wGFU-Wide-mouthed Glass jar Unpreserved								-					표	receip		
BP48-125 mL Plastic NaOH (pH > 12) (CI-)				1		/								pH upon receipt		
(e<) HOsM & Stetes WZ Disteld Im 2S1-Sp48														F		
BP3N-250 mL plastic HNO3 (pH < 2)	3/-		2											tive		
BP45-125 mL Plastic H25O4 (pH < 2) (Cl-)														Type of Preservativ		
BP1U-1 liter Plastic Unpreserved (N/A)					ľ									of Pre		
8P2U-500 mŁ Plastic Unpreserved (N/A)				1				_						Туре		
(A\N) bevieserigic Unpreserved (M\A)		-														_
RPAIL-125 mL Plastic Unpreserved (N/A) (CI-)	7		7		7			7					+	Sample ID		_
#məវl	1	7	m	4	2	9	_	8	6	9	11	12		Sarr		
			L		<u> </u>	1					<u> </u>				<u> </u>	

			on Office (i.e.
added		i,	crepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. tive, out of temp, incorrect containers.
adjusted			his form will be sent to th
			compliance samples, a copy of t ners.
			repancy affecting North Carolina comp tive, out of temp, incorrect containers.
			Whenever there is a discrepancy a f hold, incorrect preservative, out o
:		Paç	Noge: Wheney Ou 09 of hold, in

Qualtrax ID: 69614

Page 2 of 2





April 27, 2023

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

RE: Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 24, 2023 and January 26, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Stephanie Knott for

Stephanie Knoth

Bonnie Vang bonnie.vang@pacelabs.com

(704)875-9092

Project Manager

Enclosures

cc: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power-CCR
Christine Hug, Geosyntec Consultants, Inc.
Kristen Jurinko
Thomas Kessler, Geosyntec

Whitney Law, Geosyntec Consultants Laura Midkiff, Georgia Power Michael Smilley, Georgia Power

Tina Sullivan, ERM

Anthony Szwast, Geosyntec





CERTIFICATIONS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Pace Analytical Services Charlotte

South Carolina Laboratory ID: 99006 South Carolina Certification #: 99006001

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 South Carolina Drinking Water Cert. #: 99006003

North Carolina Drinking Water Certification #: 37706 Florida/NELAP Certification #: E87627 North Carolina Field Services Certification #: 5342 Kentucky UST Certification #: 84 North Carolina Wastewater Certification #: 12 Louisiana DoH Drinking Water #: LA029 Virginia/VELAP Certification #: 460221

South Carolina Laboratory ID: 99006

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804 South Carolina Laboratory ID: 99030 Florida/NELAP Certification #: E87648 South Carolina Certification #: 99030001

North Carolina Drinking Water Certification #: 37712 Virginia/VELAP Certification #: 460222 North Carolina Wastewater Certification #: 40

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



SAMPLE SUMMARY

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Lab ID	Sample ID	Matrix	Date Collected	Date Received	
92648446001	HAM-HGWA-3	Water	01/23/23 16:49	01/24/23 12:38	
92648446002	HAM-HGWA-2	Water	01/24/23 09:35	01/26/23 11:15	
92648446003	HAM-HGWA-43D	Water	01/24/23 10:55	01/26/23 11:15	
92648446004	HAM-HGWA-44D	Water	01/24/23 10:57	01/26/23 11:15	
92648446005	HAM-HGWA-1	Water	01/24/23 09:35	01/26/23 11:15	



SAMPLE ANALYTE COUNT

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92648446001	HAM-HGWA-3	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92648446002	HAM-HGWA-2	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92648446003	HAM-HGWA-43D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92648446004	HAM-HGWA-44D	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92648446005	HAM-HGWA-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	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



SUMMARY OF DETECTION

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2648446001	HAM-HGWA-3					
	Performed by	Customer			02/15/23 10:56	
	рН	7.32	Std. Units		02/15/23 10:56	
PA 6010D	Calcium	85.0	mg/L	1.0	01/30/23 23:50	M1
PA 6020B	Barium	0.13	mg/L	0.0050	02/02/23 18:47	
PA 6020B	Boron	0.012J	mg/L	0.040	02/02/23 18:47	
PA 6020B	Lithium	0.0030J	mg/L	0.030	02/02/23 18:47	
SM 2540C-2015	Total Dissolved Solids	293	mg/L	25.0	01/27/23 14:04	
PA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	01/25/23 23:05	
PA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	01/25/23 23:05	
PA 300.0 Rev 2.1 1993	Sulfate	39.5	mg/L	1.0	01/25/23 23:05	
2648446002	HAM-HGWA-2					
	Performed by	Customer			02/15/23 10:56	
	рH	5.22	Std. Units		02/15/23 10:56	
PA 6010D	Calcium	29.4	mg/L	1.0	02/02/23 21:19	
PA 6020B	Barium	0.088	mg/L	0.0050	02/01/23 18:48	
PA 6020B	Beryllium	0.00016J	mg/L	0.00050	02/01/23 18:48	
PA 6020B	Boron	0.046	mg/L	0.040	02/01/23 18:48	
PA 6020B	Cadmium	0.00021J	mg/L	0.00050	02/01/23 18:48	
PA 6020B	Cobalt	0.024	mg/L	0.0050	02/01/23 18:48	
PA 6020B	Lithium	0.0014J	mg/L	0.030	02/01/23 18:48	
M 2540C-2015	Total Dissolved Solids	164	mg/L	25.0	01/27/23 14:08	
PA 300.0 Rev 2.1 1993	Chloride	7.1	mg/L	1.0	01/29/23 17:10	
PA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	01/29/23 17:10	
PA 300.0 Rev 2.1 1993 PA 300.0 Rev 2.1 1993	Sulfate	79.7	mg/L	1.0	01/29/23 17:10	
2648446003	HAM-HGWA-43D	75.7	mg/L	1.0	01/25/25 17:10	
2040440003	Performed by	Customer			02/15/23 10:57	
	pH	7.56	Std. Units		02/15/23 10:57	
DA 6040D				1.0		
PA 6010D	Calcium	56.6	mg/L	1.0	02/02/23 21:33	
PA 6020B	Barium	0.28	mg/L	0.0050	02/01/23 18:54	
PA 6020B	Boron	0.037J	mg/L	0.040	02/01/23 18:54	
PA 6020B	Lithium	0.0020J	mg/L	0.030	02/01/23 18:54	
PA 6020B	Molybdenum	0.0027J	mg/L	0.010	02/01/23 18:54	
M 2540C-2015	Total Dissolved Solids	271	mg/L	25.0	01/27/23 14:08	
PA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	01/29/23 17:34	
PA 300.0 Rev 2.1 1993	Fluoride	0.23	mg/L	0.10	01/29/23 17:34	
PA 300.0 Rev 2.1 1993	Sulfate	34.7	mg/L	1.0	01/29/23 17:34	
2648446004	HAM-HGWA-44D					
	Performed by	Customer			02/15/23 10:57	
	pH	8.22	Std. Units		02/15/23 10:57	
PA 6010D	Calcium	13.2	mg/L	1.0	02/02/23 21:38	
PA 6020B	Arsenic	0.0027J	mg/L	0.0050	02/01/23 19:00	
PA 6020B	Barium	0.18	mg/L	0.0050	02/01/23 19:00	
PA 6020B	Boron	0.44	mg/L	0.040	02/01/23 19:00	
PA 6020B	Lithium	0.064	mg/L	0.030	02/01/23 19:00	
PA 6020B	Molybdenum	0.0026J	mg/L	0.010	02/01/23 19:00	
SM 2540C-2015	Total Dissolved Solids	363	mg/L	25.0	01/27/23 14:08	



SUMMARY OF DETECTION

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
92648446004	HAM-HGWA-44D						
EPA 300.0 Rev 2.1 1993	Chloride	24.9	mg/L	1.0	01/31/23 01:07		
EPA 300.0 Rev 2.1 1993	Fluoride	1.3	mg/L	0.10	01/31/23 01:07		
EPA 300.0 Rev 2.1 1993	Sulfate	10.1	mg/L	1.0	01/31/23 01:07		
92648446005	HAM-HGWA-1						
	Performed by	Customer			02/15/23 10:58		
	pН	6.76	Std. Units		02/15/23 10:58		
EPA 6010D	Calcium	117	mg/L	1.0	02/02/23 21:43		
EPA 6020B	Barium	0.033	mg/L	0.0050	02/01/23 19:06		
EPA 6020B	Boron	0.015J	mg/L	0.040	02/01/23 19:06		
EPA 6020B	Lithium	0.00092J	mg/L	0.030	02/01/23 19:06		
SM 2540C-2015	Total Dissolved Solids	369	mg/L	25.0	01/27/23 14:08		
EPA 300.0 Rev 2.1 1993	Chloride	9.0	mg/L	1.0	01/31/23 01:33		
EPA 300.0 Rev 2.1 1993	Fluoride	0.089J	mg/L	0.10	01/31/23 01:33		
EPA 300.0 Rev 2.1 1993	Sulfate	48.3	mg/L	1.0	01/31/23 01:33		



ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

Sample: HAM-HGWA-3	Lab ID:	92648446001	Collecte	ed: 01/23/23	3 16:49	Received: 01/	24/23 12:38 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical Pace Ana	Method: lytical Services	- Charlotte						
Performed by	Customer				1		02/15/23 10:56		
н	7.32	Std. Units			1		02/15/23 10:56		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	•	lytical Services	'						
Calcium	85.0	mg/L	1.0	0.12	1	01/30/23 15:10	01/30/23 23:50	7440-70-2	M1
020 MET ICPMS	Analytical	Method: EPA 6	020B Prei	naration Met	hod: FF	PA 3005A			
	•	lytical Services							
Antimony	ND		0.0030	0.00078	1	01/30/23 12:30	02/02/23 18:47	7440 26 0	
Antimony Arsenic	ND ND	mg/L	0.0030	0.00078	1	01/30/23 12:30	02/02/23 18:47		
Barium	0.13	mg/L mg/L	0.0050	0.0022	1	01/30/23 12:30			
Beryllium	0.13 ND	mg/L	0.0050	0.00067	1		02/02/23 18:47		
Boron	0.012J	mg/L	0.00030	0.000034	1		02/02/23 18:47		
Cadmium	0.0123 ND	mg/L	0.00050	0.0000	1		02/02/23 18:47		
Chromium	ND ND	mg/L	0.0050	0.00011	1		02/02/23 18:47		
Cobalt	ND	mg/L	0.0050	0.00011	1		02/02/23 18:47		
ead	ND ND	mg/L	0.0030	0.00039	1		02/02/23 18:47		
ithium	0.0030J	mg/L	0.030	0.0003	1	01/30/23 12:30			
Nolybdenum	0.00303 ND	mg/L	0.030	0.00073	1		02/02/23 18:47		
Selenium	ND ND	mg/L	0.010	0.00074	1	01/30/23 12:30			
hallium	ND	mg/L	0.0030	0.00014	1		02/02/23 18:47		
/470 Maraum	Analytical	Ü	7470A Droi	aration Mat	had: ED)A 7470A			
470 Mercury	•	Method: EPA 7 lytical Services				A 7470A			
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/23 08:00	02/01/23 13:37	7439-97-6	
•		Ü			-				
2540C Total Dissolved Solids	•	Method: SM 29 lytical Services			SA.				
otal Dissolved Solids	293	mg/L	25.0	25.0	1		01/27/23 14:04		
00.0 IC Anions 28 Days	•	Method: EPA 3							
Chloride	5.6	mg/L	1.0	0.60	1		01/25/23 23:05	16887-00-6	
Fluoride	0.061J	mg/L	0.10	0.050	1		01/25/23 23:05		
Sulfate	39.5	mg/L	1.0	0.50	1		01/25/23 23:05		



ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

Sample: HAM-HGWA-2	Lab ID:	92648446002	Collecte	ed: 01/24/23	3 09:35	Received: 01/	26/23 11:15 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical Pace Ana	Method: lytical Services	- Charlotte						
Performed by	Customer				1		02/15/23 10:56		
oH.	5.22	Std. Units			1		02/15/23 10:56		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	•	lytical Services	'						
Calcium	29.4	mg/L	1.0	0.12	1	01/31/23 17:09	02/02/23 21:19	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prei	naration Met	hod: FF	PA 3005Α			
,020 MET 101 MIO	•	lytical Services				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Antimon.				•		00/04/00 40:47	00/04/00 40:40	7440 00 0	
Antimony	ND ND	mg/L	0.0030	0.00078 0.0022	1 1	02/01/23 10:17	02/01/23 18:48 02/01/23 18:48		
Arsenic		mg/L	0.0050						
Barium	0.088 0.00016J	mg/L mg/L	0.0050 0.00050	0.00067 0.000054	1 1		02/01/23 18:48 02/01/23 18:48		
Beryllium Boron	0.000165	mg/L	0.00030	0.00034	1		02/01/23 18:48		
Cadmium	0.0021J	ū	0.040	0.0000	1		02/01/23 18:48		
Chromium	0.000213 ND	mg/L mg/L	0.0050	0.00011	1		02/01/23 18:48		
Cobalt	0.024	mg/L	0.0050	0.0011	1		02/01/23 18:48		
_ead	0.024 ND	mg/L	0.0030	0.00039	1		02/01/23 18:48		
Lithium	0.0014J	mg/L	0.030	0.0003	1		02/01/23 18:48		
Molybdenum	0.00143 ND	mg/L	0.030	0.00073	1		02/01/23 18:48		
Selenium	ND ND	mg/L	0.010	0.00074	1		02/01/23 18:48		
Fhallium	ND	mg/L	0.0030	0.00014	1		02/01/23 18:48		
7470 Moroury	Analytical	Method: EPA 7	7470A Bros	paration Mot	hod: EE	Λ 7470Λ			
7470 Mercury	•	lytical Services				A 1410A			
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/23 08:00	02/01/23 13:40	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
23400 Total Dissolved Solids	•	lytical Services			€A				
Total Dissolved Solids	164	mg/L	25.0	25.0	1		01/27/23 14:08		
300.0 IC Anions 28 Days	•	Method: EPA 3 lytical Services							
Chloride	7.1	mg/L	1.0	0.60	1		01/29/23 17:10	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		01/29/23 17:10		
Sulfate	79.7	mg/L	1.0	0.50	1		01/29/23 17:10		



ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

Sample: HAM-HGWA-43D	Lab ID:	92648446003	Collecte	ed: 01/24/23	3 10:55	Received: 01/	26/23 11:15 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical Pace Ana	Method: lytical Services	- Charlotte						
Performed by	Customer				1		02/15/23 10:57		
рН	7.56	Std. Units			1		02/15/23 10:57		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	thod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Calcium	56.6	mg/L	1.0	0.12	1	01/31/23 17:09	02/02/23 21:33	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pren	paration Met	hod: EF	PA 3005A			
	•	lytical Services							
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 10:17	02/01/23 18:54	7440-36-0	
Arsenic	ND ND	mg/L	0.0050	0.00076	1	02/01/23 10:17	02/01/23 18:54		
Barium	0.28	mg/L	0.0050	0.00067	1		02/01/23 18:54		
Beryllium	ND	mg/L	0.00050	0.00007	1		02/01/23 18:54		
Boron	0.037J	mg/L	0.040	0.0086	1		02/01/23 18:54		
Cadmium	ND	mg/L	0.00050	0.00011	1		02/01/23 18:54		
Chromium	ND	mg/L	0.0050	0.0011	1		02/01/23 18:54		
Cobalt	ND	mg/L	0.0050	0.00039	1		02/01/23 18:54		
Lead	ND	mg/L	0.0010	0.00089	1		02/01/23 18:54		
Lithium	0.0020J	mg/L	0.030	0.00073	1		02/01/23 18:54		
Molybdenum	0.0027J	mg/L	0.010	0.00074	1		02/01/23 18:54		
Selenium	ND	mg/L	0.0050	0.0014	1		02/01/23 18:54		
Thallium	ND	mg/L	0.0010	0.00018	1		02/01/23 18:54		
7470 Mercury	Analytical	Method: EPA 7	470A Prer	paration Met	hod: EF	PA 7470A			
•	•	lytical Services	•						
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/23 08:00	02/01/23 13:42	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	•	lytical Services		e Corners, C	βA				
Total Dissolved Solids	271	mg/L	25.0	25.0	1		01/27/23 14:08		
300.0 IC Anions 28 Days	•	Method: EPA 3 lytical Services		2.1 1993					
Chloride	4.3	mg/L	1.0	0.60	1		01/29/23 17:34	16887-00-6	
Fluoride	0.23	mg/L	0.10	0.050	1		01/29/23 17:34		
Sulfate	34.7	mg/L	1.0	0.50	1		01/29/23 17:34		



ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

Sample: HAM-HGWA-44D	Lab ID:	92648446004	Collecte	ed: 01/24/23	3 10:57	Received: 01/	26/23 11:15 N	latrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte)					
Performed by	Customer				1		02/15/23 10:57	•	
рН	8.22	Std. Units			1		02/15/23 10:57	•	
6010D ATL ICP	Analytical	Method: EPA 6	6010D Pre	paration Met	thod: Ef	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	ee Corners, C	3A				
Calcium	13.2	mg/L	1.0	0.12	1	01/31/23 17:09	02/02/23 21:38	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00078	1	02/01/23 10:17	02/01/23 19:00	7440-36-0	
Arsenic	0.0027J	mg/L	0.0050	0.0022	1	02/01/23 10:17	02/01/23 19:00	7440-38-2	
Barium	0.18	mg/L	0.0050	0.00067	1	02/01/23 10:17	02/01/23 19:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/01/23 10:17	02/01/23 19:00	7440-41-7	
Boron	0.44	mg/L	0.040	0.0086	1	02/01/23 10:17	02/01/23 19:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/01/23 10:17	02/01/23 19:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/01/23 10:17	02/01/23 19:00	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/01/23 10:17	02/01/23 19:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/01/23 10:17	02/01/23 19:00	7439-92-1	
Lithium	0.064	mg/L	0.030	0.00073	1	02/01/23 10:17	02/01/23 19:00	7439-93-2	
Molybdenum	0.0026J	mg/L	0.010	0.00074	1	02/01/23 10:17	02/01/23 19:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/01/23 10:17	02/01/23 19:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/01/23 10:17	02/01/23 19:00	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	hod: EF	PA 7470A			
•	Pace Ana	lytical Services	- Peachtre	ee Corners, C	βA				
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/23 08:00	02/01/23 13:45	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	540C-2015	;					
	Pace Ana	lytical Services	- Peachtre	e Corners, C	3A				
Total Dissolved Solids	363	mg/L	25.0	25.0	1		01/27/23 14:08	3	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
•	Pace Ana	lytical Services	- Asheville	;					
Chloride	24.9	mg/L	1.0	0.60	1		01/31/23 01:07	16887-00-6	
Fluoride	1.3	mg/L	0.10	0.050	1		01/31/23 01:07		
Sulfate	10.1	mg/L	1.0	0.50	1		01/31/23 01:07		



ANALYTICAL RESULTS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

Sample: HAM-HGWA-1	Lab ID:	92648446005	Collecte	ed: 01/24/23	3 09:35	Received: 01/	26/23 11:15 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical Pace Ana	Method: lytical Services	- Charlotte						
Performed by	Customer				1		02/15/23 10:58		
oH.	6.76	Std. Units			1		02/15/23 10:58		
6010D ATL ICP	Analytical	Method: EPA 6	010D Pre	paration Met	hod: EF	PA 3010A			
	•	lytical Services	'						
Calcium	117	mg/L	1.0	0.12	1	01/31/23 17:09	02/02/23 21:43	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	020B Prei	naration Met	hod: FF	PA 3005A			
,010 .HE1 101 HI0	•	lytical Services				5000, (
Antimony				•		02/04/22 10:47	02/01/22 10:06	7440.26.0	
Antimony Arsenic	ND ND	mg/L	0.0030 0.0050	0.00078 0.0022	1 1	02/01/23 10:17	02/01/23 19:06 02/01/23 19:06		
Barium	0.033	mg/L mg/L	0.0050	0.0022	1		02/01/23 19:06		
Beryllium	0.033 ND	mg/L	0.0050	0.00067	1		02/01/23 19:06		
Boron	0.015J	mg/L	0.00030	0.000034	1		02/01/23 19:06		
Cadmium	0.0193 ND	mg/L	0.0050	0.0000	1		02/01/23 19:06		
Chromium	ND ND	mg/L	0.00050	0.00011	1		02/01/23 19:06		
Cobalt	ND	mg/L	0.0050	0.00011	1		02/01/23 19:06		
_ead	ND	mg/L	0.0030	0.00089	1		02/01/23 19:06		
Lithium	0.00092J	mg/L	0.030	0.00073	1		02/01/23 19:06		
Molybdenum	ND	mg/L	0.010	0.00074	1		02/01/23 19:06		
Selenium	ND	mg/L	0.0050	0.0014	1		02/01/23 19:06		
Γhallium	ND	mg/L	0.0010	0.00018	1		02/01/23 19:06		
7470 Mercury	Analytical	Method: EPA 7	470A Prei	naration Met	hod: FF	A 7470A			
1470 meroury	•	lytical Services				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Mercury	ND	mg/L	0.00020	0.00013	1	02/01/23 08:00	02/01/23 13:47	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 25	540C-2015						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	SA.				
Total Dissolved Solids	369	mg/L	25.0	25.0	1		01/27/23 14:08		
300.0 IC Anions 28 Days	•	Method: EPA 3 lytical Services							
Chloride	9.0	mg/L	1.0	0.60	1		01/31/23 01:33	16887-00-6	
Fluoride	0.089J	mg/L	0.10	0.050	1		01/31/23 01:33		
Sulfate	48.3	mg/L	1.0	0.50	1		01/31/23 01:33		



Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

QC Batch: 752651 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648446001

METHOD BLANK: 3910594 Matrix: Water

Associated Lab Samples: 92648446001

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

LABORATORY CONTROL SAMPLE: 3910595

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3910596 3910597

MS MSD

92648446001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Limits 85.0 80.4 20 M1 Calcium mg/L 83.9 -467 -112 75-125

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.



Plant Hammond Pooled Upgradien Project:

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

QC Batch: 752956 Analysis Method: **EPA 6010D** QC Batch Method: **EPA 3010A** Analysis Description: 6010D ATL

> Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648446002, 92648446003, 92648446004, 92648446005

METHOD BLANK: Matrix: Water

Associated Lab Samples: 92648446002, 92648446003, 92648446004, 92648446005

> Reporting MDL Qualifiers Parameter Units Result Limit Analyzed

Calcium ND 1.0 0.12 02/02/23 20:40 mg/L

LABORATORY CONTROL SAMPLE: 3912343

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Calcium 1.1 105 80-120 mg/L

Blank

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3912344 3912345

> MSD MS

92649037012 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result % Rec % Rec **RPD** RPD Qual Result Limits 4.3 20 Calcium mg/L 4.1 96 117 75-125 5

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.



Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

QC Batch: 752599 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648446001

METHOD BLANK: 3910295 Matrix: Water

Associated Lab Samples: 92648446001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Faiametei				IVIDL	Analyzeu	Qualifiers
ntimony	mg/L	ND	0.0030	0.00078	02/02/23 18:35	
rsenic	mg/L	ND	0.0050	0.0022	02/02/23 18:35	
arium	mg/L	ND	0.0050	0.00067	02/02/23 18:35	
eryllium	mg/L	ND	0.00050	0.000054	02/02/23 18:35	
oron	mg/L	ND	0.040	0.0086	02/02/23 18:35	
admium	mg/L	ND	0.00050	0.00011	02/02/23 18:35	
Chromium	mg/L	ND	0.0050	0.0011	02/02/23 18:35	
Cobalt	mg/L	ND	0.0050	0.00039	02/02/23 18:35	
ead	mg/L	ND	0.0010	0.00089	02/02/23 18:35	
ithium	mg/L	ND	0.030	0.00073	02/02/23 18:35	
1olybdenum	mg/L	ND	0.010	0.00074	02/02/23 18:35	
elenium	mg/L	ND	0.0050	0.0014	02/02/23 18:35	
hallium	mg/L	ND	0.0010	0.00018	02/02/23 18:35	

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
₋ead	mg/L	0.1	0.098	98	80-120	
₋ithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Γhallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SP	IKE DUPLI	ICATE: 3910	297		3910298							
			MS	MSD								
		92648446001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	_
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	

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



Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

MATRIX SPIKE & MATRIX	SPIKE DUPL	ICATE: 3910			3910298							
Parameter	Units	92648446001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.13	0.1	0.1	0.22	0.22	97	90	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.089	0.089	89	89	75-125	0	20	
Boron	mg/L	0.012J	1	1	0.92	0.93	91	92	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20	
Cobalt	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20	
Lithium	mg/L	0.0030J	0.1	0.1	0.092	0.091	89	88	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	

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



Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

QC Batch: 753097 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648446002, 92648446003, 92648446004, 92648446005

METHOD BLANK: 3912787 Matrix: Water
Associated Lab Samples: 92648446002, 92648446003, 92648446004, 92648446005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND ND	0.0030	0.00078	02/01/23 17:13	
Arsenic	mg/L	ND	0.0050	0.0022	02/01/23 17:13	
Barium	mg/L	ND	0.0050	0.00067	02/01/23 17:13	
Beryllium	mg/L	ND	0.00050	0.000054	02/01/23 17:13	
Boron	mg/L	ND	0.040	0.0086	02/01/23 17:13	
Cadmium	mg/L	ND	0.00050	0.00011	02/01/23 17:13	
Chromium	mg/L	ND	0.0050	0.0011	02/01/23 17:13	
Cobalt	mg/L	ND	0.0050	0.00039	02/01/23 17:13	
Lead	mg/L	ND	0.0010	0.00089	02/01/23 17:13	
Lithium	mg/L	ND	0.030	0.00073	02/01/23 17:13	
Molybdenum	mg/L	ND	0.010	0.00074	02/01/23 17:13	
Selenium	mg/L	ND	0.0050	0.0014	02/01/23 17:13	
Thallium	mg/L	ND	0.0010	0.00018	02/01/23 17:13	

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	 mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.10	103	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX S	PIKE DUPLI	ICATE: 3912	789		3912790							
		92649067001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	3.4 ug/L	0.1	0.1	0.11	0.11	105	102	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	99	75-125	1	20	

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



Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

MATRIX SPIKE & MATRIX	SPIKE DUPLI	CATE: 3912		MOD	3912790							
Parameter	Units	92649067001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	47.9 ug/L	0.1	0.1	0.15	0.15	104	99	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Boron	mg/L	ND	1	1	1.0	1.0	103	102	75-125	1	20	
Cadmium	mg/L	1.2 ug/L	0.1	0.1	0.10	0.097	99	96	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	100	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	101	98	75-125	3	20	
Lead	mg/L	81.8 ug/L	0.1	0.1	0.19	0.18	105	101	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	101	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20	

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



Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

QC Batch: 752854 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92648446001, 92648446002, 92648446003, 92648446004, 92648446005

METHOD BLANK: 3911513 Matrix: Water

Associated Lab Samples: 92648446001, 92648446002, 92648446003, 92648446004, 92648446005

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Mercury mg/L ND 0.00020 0.00013 02/01/23 12:44

LABORATORY CONTROL SAMPLE: 3911514

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units Mercury 0.0025 0.0024 94 80-120 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3911518 3911519

MS MSD

92648451002 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Result Result **RPD** RPD Qual Result Conc. % Rec % Rec Limits 0.0025 Mercury mg/L ND 0.0025 0.0022 0.0022 88 88 75-125 0 20

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



Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

QC Batch: 752254 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: 92648446001, 92648446002, 92648446003, 92648446004, 92648446005

METHOD BLANK: 3908925 Matrix: Water

Associated Lab Samples: 92648446001, 92648446002, 92648446003, 92648446004, 92648446005

Blank Reporting
Parameter Units Result Limit MDL Analyzed Qualifiers

Total Dissolved Solids mg/L ND 25.0 25.0 01/27/23 14:00

LABORATORY CONTROL SAMPLE: 3908926

Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units mg/L **Total Dissolved Solids** 400 371 93 80-120

SAMPLE DUPLICATE: 3908927

Parameter Units Parameter Units Parameter Units Parameter Units Parameter Units Parameter Parameter Parameter Units Parameter Result Result RPD RPD Qualifiers Total Dissolved Solids Mg/L ND 71.0 10

SAMPLE DUPLICATE: 3908928

Date: 04/27/2023 10:26 AM

92649038017 Dup Max RPD RPD Parameter Units Result Result Qualifiers Total Dissolved Solids 146 mg/L 147 1 10

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



Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

QC Batch: 751618

QC Batch Method: EPA 300.0 Rev 2.1 1993

Analysis Method: EPA 300.0 Rev 2.1 1993

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92648446001

METHOD BLANK: 3905644 Matrix: Water

Associated Lab Samples: 92648446001

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/25/23 18:08	
Fluoride	mg/L	ND	0.10	0.050	01/25/23 18:08	
Sulfate	mg/L	ND	1.0	0.50	01/25/23 18:08	

LABORATORY CONTROL SAMPLE:	3905645					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	53.2	106	90-110	
Fluoride	mg/L	2.5	2.7	110	90-110	
Sulfate	mg/L	50	53.3	107	90-110	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3905	646		3905647							
			MS	MSD								
		92648208001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	8.7	50	50	57.0	59.0	97	100	90-110	3	10	
Fluoride	mg/L	0.47	2.5	2.5	2.9	3.0	98	102	90-110	3	10	
Sulfate	mg/L	3.9	50	50	52.2	54.1	97	100	90-110	4	10	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3905	648		3905649							
			MS	MSD								
		92648324002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	16.9	50	50	66.5	67.2	99	101	90-110	1	10	
Fluoride	mg/L	0.066J	2.5	2.5	2.6	2.6	101	101	90-110	0	10	
Sulfate	mg/L	19.0	50	50	69.4	69.8	101	102	90-110	1	10	

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



Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

QC Batch Method:

QC Batch: 752456

Analysis Method: EPA 300.0 Rev 2.1 1993

Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92648446002, 92648446003

EPA 300.0 Rev 2.1 1993

METHOD BLANK: 3909761 Matrix: Water

Associated Lab Samples: 92648446002, 92648446003

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/29/23 05:16	
Fluoride	mg/L	ND	0.10	0.050	01/29/23 05:16	
Sulfate	mg/L	ND	1.0	0.50	01/29/23 05:16	

LABORATORY CONTROL SAMPLE:	3909762					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	50.7	101	90-110	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3909	763		3909764							
			MS	MSD								
		92649224020	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	ND	50	50	50.7	51.2	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	105	105	90-110	0	10	
Sulfate	mg/L	ND	50	50	50.3	50.7	101	101	90-110	1	10	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3909	765		3909766							
			MS	MSD								
		92649038010	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	6.0	50	50	57.0	57.6	102	103	90-110	1	10	
Fluoride	mg/L	0.052J	2.5	2.5	2.6	2.6	100	102	90-110	1	10	
Sulfate	mg/L	228	50	50	269	270	83	84	90-110	0	10	M1

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



Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

QC Batch: 752690 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: 92648446004, 92648446005

METHOD BLANK: 3910852 Matrix: Water

Associated Lab Samples: 92648446004, 92648446005

LABORATORY CONTROL CAMPLE: 2010052

Date: 04/27/2023 10:26 AM

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	01/30/23 22:32	
Fluoride	mg/L	ND	0.10	0.050	01/30/23 22:32	
Sulfate	mg/L	ND	1.0	0.50	01/30/23 22:32	

LABORATORT CONTROL SAMPLE.	3910033					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	49.6	99	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3910	854		3910855							
		00040040004	MS	MSD	MC	MCD	MC	MCD	0/ D		Mari	
		92648913001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	2.7	50	50	52.0	52.7	99	100	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	100	90-110	1	10	
Sulfate	mg/L	ND	50	50	48.5	49.4	97	99	90-110	2	10	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3910	856		3910857							
			MS	MSD								
		92649042009	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	ND	50	50	51.0	51.2	102	102	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	103	104	90-110	1	10	
Sulfate	mg/L	ND	50	50	50.4	50.7	101	101	90-110	1	10	

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



QUALIFIERS

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

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

Date: 04/27/2023 10:26 AM

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



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond Pooled Upgradien

Pace Project No.: 92648446

Date: 04/27/2023 10:26 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92648446001	HAM-HGWA-3				
92648446002	HAM-HGWA-2				
92648446003	HAM-HGWA-43D				
92648446004	HAM-HGWA-44D				
92648446005	HAM-HGWA-1				
92648446001	HAM-HGWA-3	EPA 3010A	752651	EPA 6010D	752696
92648446002	HAM-HGWA-2	EPA 3010A	752956	EPA 6010D	753082
92648446003	HAM-HGWA-43D	EPA 3010A	752956	EPA 6010D	753082
92648446004	HAM-HGWA-44D	EPA 3010A	752956	EPA 6010D	753082
92648446005	HAM-HGWA-1	EPA 3010A	752956	EPA 6010D	753082
92648446001	HAM-HGWA-3	EPA 3005A	752599	EPA 6020B	752695
92648446002	HAM-HGWA-2	EPA 3005A	753097	EPA 6020B	753234
92648446003	HAM-HGWA-43D	EPA 3005A	753097	EPA 6020B	753234
92648446004	HAM-HGWA-44D	EPA 3005A	753097	EPA 6020B	753234
92648446005	HAM-HGWA-1	EPA 3005A	753097	EPA 6020B	753234
92648446001	HAM-HGWA-3	EPA 7470A	752854	EPA 7470A	753068
92648446002	HAM-HGWA-2	EPA 7470A	752854	EPA 7470A	753068
92648446003	HAM-HGWA-43D	EPA 7470A	752854	EPA 7470A	753068
92648446004	HAM-HGWA-44D	EPA 7470A	752854	EPA 7470A	753068
92648446005	HAM-HGWA-1	EPA 7470A	752854	EPA 7470A	753068
92648446001	HAM-HGWA-3	SM 2540C-2015	752254		
92648446002	HAM-HGWA-2	SM 2540C-2015	752254		
92648446003	HAM-HGWA-43D	SM 2540C-2015	752254		
92648446004	HAM-HGWA-44D	SM 2540C-2015	752254		
92648446005	HAM-HGWA-1	SM 2540C-2015	752254		
92648446001	HAM-HGWA-3	EPA 300.0 Rev 2.1 1993	751618		
92648446002	HAM-HGWA-2	EPA 300.0 Rev 2.1 1993	752456		
92648446003	HAM-HGWA-43D	EPA 300.0 Rev 2.1 1993	752456		
92648446004	HAM-HGWA-44D	EPA 300.0 Rev 2.1 1993	752690		
92648446005	HAM-HGWA-1	EPA 300.0 Rev 2.1 1993	752690		

1 avo			umpie o	Onditio	n Upon Receipt
Effective Date: 11/14/2022					
Sking Material: Bubble Wrap Bermometer: IR Gun ID: 230 Correction Fact Add/Subtract (:Yes	□clid	Project #: ent her Tem	Biological Tissue Frozen? Wes No None Person Examining Contents: //2/23 Biological Tissue Frozen? Ves No No None Person Examining Contents: //2/23 Biological Tissue Frozen? Ves No None Person Examining Contents: //2/23 Biological Tissue Frozen? September 19 Should be above freezing to 6°C
oler Temp Corrected (°C): DA Regulated Soil (N/A, water sample) Did samples originate in a quarantine zone within the	e United States	CA NY	or SC	Did	has begun
	e United States	CA, NY,	or SC		has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No
DA Regulated Soil (N/A, water sample) Did samples originate in a quarantine zone within the				inclu	has begun samples originate from a foreign source (internationally,
OA Regulated Soil (N/A, water sample) Did samples originate in a quarantine zone within the (check maps)? Yes No	Yes	□No	□N/A	inclu	has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No
OA Regulated Soil (□No	□N/A □N/A	1. 2.	has begun samples originate from a foreign source (internationally, uding Hawaii and Puerto Rico)? Yes No
OA Regulated Soil (La Yes	□No □No	□N/A □N/A □N/A	inclu	has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No
OA Regulated Soil (□Yes □Yes □Yes	□No □No □No	□N/A □N/A □N/A □N/A	1. 2. 3. 4.	has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No
OA Regulated Soil (□Yes □Yes □Yes □Yes	No No	□N/A □N/A □N/A □N/A □N/A	1. 2. 3. 4. 5.	has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No
DA Regulated Soil (□Yes □Yes □Yes	□No □No □No	□N/A □N/A □N/A □N/A	1. 2. 3. 4.	has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No
OA Regulated Soil (□Yes □Yes □Yes □Yes □Yes	No No	□N/A □N/A □N/A □N/A □N/A □N/A	1. 2. 3. 4. 5.	has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No
DA Regulated Soil (PYes □Yes □Yes □Yes □Yes □Yes □Yes	No No No No	N/A	1. 2. 3. 4. 5. 6.	has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No
OA Regulated Soil (□Yes □Yes □Yes □Yes □Yes □Yes □Yes	No	□N/A □N/A □N/A □N/A □N/A □N/A □N/A □N/A	1. 2. 3. 4. 5. 6. 7.	has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No
DA Regulated Soil (□Yes □Yes □Yes □Yes □Yes □Yes □Yes	No	N/A	1. 2. 3. 4. 5. 6. 7. 8.	has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No
DA Regulated Soil (PYes Pres Ves Pres Pres Pres	No	N/A	1. 2. 3. 4. 5. 6. 7. 8. 9.	has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No
DA Regulated Soil (□Yes □Yes □Yes □Yes □Yes □Yes □Yes	No	N/A	1. 2. 3. 4. 5. 6. 7. 8.	has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No
DA Regulated Soil (PYes □Yes □Yes □Yes □Yes □Yes □Yes □Yes	No	N/A	1. 2. 3. 4. 5. 6. 7. 8. 9.	has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No
DA Regulated Soil (□Yes □Yes □Yes □Yes □Yes □Yes □Yes □Yes	No	N/A	1. 2. 3. 4. 5. 6. 7. 8. 9.	has begun samples originate from a foreign source (internationally, iding Hawaii and Puerto Rico)? Yes No

_____ Date/Time:

Qualtrax ID: 69614

Person contacted:

Project Manager SCURF Review:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

Project #

WO#: 92648446

PM: BV

Due Date: 02/07/23

CLIENT: GA-GA Power

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

***Check all unpreserved Nitrates for chlorine

ltem#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H25O4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2504 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	1	1	1		1	X	1				1		1	1										A				
2		1			1	1	1	1			1		/	1	1										1		-	
3					1	7	1	1			1		1		1									1	1	+		
	1				1	1	1	1			1		1	1	1									1	1			
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	1				1	1	1	1			1		1	1	1									1	1	+	-	
	1				1	1	1	1		7	1		1	1	1			+					-	1	1	-	-	
	1				7	1	1	1			1		1	1	1	+		1			+		-	1	1		-	
	1				1	1	7	1			1		7	1	1	1			+		+		-	1	1	-	-	
0	1		1	1	1	1	1	1			1	-	1	1	1		+	+	+	+	+	+		1	1	-	-	-
1	1				1.	1	1	1		-	1	-	1	1	1	+				+	+	+	-	1	1	+	-	
2	1		1	1	1	1	1	1	1	1	1	-	1	1	1	+	+		+	-	+			1	1	+	-	

		рн Ас	ljustment Log for Pres	erved Samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

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

1-14M-CCR-ASSMT-202351

Homes CHAN

Corynta

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Gran William end

ACCEPTED BY / AFFILIATION

DATE 1023

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SAMPLER NAME AND SIGNATURE

SIGNATURE of SAMPLER: PRINT Name of SAMPLER:

(C)1110 (G. n

DATE Signed (MM/DDYY): CL/ > 3/2 3

/ Geosyntec Consultants, Inc

Temp in 'C

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TJ 1/2\$/2023

ADDITIONAL COMMENTS

12

F-ALL-Q-020rev.07, 15-Feb-2007

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. CHAIN-OF-CUSTODY / Analytical Request Document

				1	Rangas	Phone	EMBI TO:		- degrees	Company.	Section A Required C
SAMPLE ID (A-Z, 0-91) Sample IDs MUST BE UNIQUE		Required Clant information		to de la constantina della con		Fux	SCS Contacts	-	Alianta, GA	1	
NOVE			ı	fenda							
SOURSOLD SL SOURSOLD SL OL WPE WP AR AR OTHER OT TISSUE TS	WASTER WIT	MATRIX CODE		Project Number:	o open runny.	Project No.	Purchase Order No.:		Copy To: Geosyntec Contacts	Report to: SCS Contacts	Section B Required Project Information:
TYPE (G=GRA	V	os to left)	-	mber:			order No.	Task C	Geosy	SCSC	oroject In
1112 (0-010)		Joan	1		ani ma			ode: H	ntec Co	ontact	formation
	СОМРОВІТЕ	COLL			Plant Hammond Pooled Upgradient			Task Code: HAM-CCR-ASSMT-2023S1	ontacts	LOS	R
	соммоэпте	COLLECTED			d Upgradient			SMT-2023S1			
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	1/23/2023	DATE	сомровите				Plant Hammond Pooled Upgradient		Task Code: HAM-CCR-ASSMT-2023S1	To: Geosyntec Contacts	To: SCS Contacts	ı
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TJ 1/23/2023		TIME	ī				dient		351			
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	2	Unpreserved H₂SO ₄			1	Pace Profile #: 10839	Pace Project Manager	Paca Guota Reference:	Address:	Company Nama	Attention:	DICE HEDIT
	3	HNO ₃		Preservatives		100	Nic			3	Southern Co.	- COURS
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ITEM#

HAM-HGWA-3

Pace	
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DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Sample Condition Upon Receipt Durier: Client Name: Upon Receipt UPS Pace	USPS Other:	7	ر س ^{Pر} □Clie	Mec WO#: 92648446 roject#: PM: BV Due Date: 02/ CLIENT: GA-GA Power	07/23
	Type of Ice	□Yes □None : □K		Date/Initials Person Examining Contents: 1/2 (her Biological Tissue Frozen? Yes No No None Temp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling	rocess
boler Temp Corrected (°C): SDA Regulated Soil (United States:	CA, NY, o	or SC	has begun Did samples originate from a foreign source (internationally including Hawaii and Puerto Rico)? Yes No	,
				Comments/Discrepancy:	
Chain of Custody Present?	Yes	_ No	□N/A	1.	
Samples Arrived within Hold Time?	Yes	□No	□N/A	2.	
Short Hold Time Analysis (<72 hr.)?	□Yes	No.	□N/A	3.	
Rush Turn Around Time Requested?	□Yes	DNo.	□N/A	4.	
Sufficient Volume?	□Yes	□No	□N/A	5.	
Correct Containers Used? -Pace Containers Used?	☑yes ☑yes	□No □No	□N/A □N/A	6.	
Containers Intact?	✓Yes	□No	□N/A ,	7.	
Dissolved analysis: Samples Field Filtered?	□Yes	□No	DINIA	8.	
Sample Labels Match COC?	□∕res	□No	□N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	26/	Que	,		
Headspace in VOA Vials (>5-6mm)?	√/ □Yes	□No	Days	10.	
Trip Blank Present?	Yes	□No	ØN/A ØN/A	11.	
Trip Blank Custody Seals Present?	□Yes	□No	IN/A		
MMENTS/SAMPLE DISCREPANCY				Field Data Required? ☐Yes ☐N	0
NT NOTIFICATION/RESOLUTION				Lot ID of split containers:	
erson contacted:			Date/Time		



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

- **Bottom half of box is to list number of bottles
- ***Check all unpreserved Nitrates for chlorine

Project #

WO#:92648446

PM: BV

Due Date: 02/07/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP42-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H25O4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(CI-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na25203 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP/N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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		pH Ac	justment Log for Pres	erved Samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

'important Mose: By styring this form you are accepting Paca's NET 30 day payment terms and agreeding to less charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-Feb-2007

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed occurately.

Pace Analytical

					- CO00		12	=	ä	100	0	7	0	0	4	u	2	-	ITEM#				Requeste	-	Email 10		Addresa	Company.	Required
					SER COMO, FROMPOCATANDONE - 20235 T.	ADDITIONAL COMMENTS									HAM-HIGHU J-1	HAM-HGWA-44D	HAM-HGWA-43D	HAM-HGWA-2	SAMPLE ID we (A.Z. 0.0/.) Sample IDs MUST BE UNIQUE TRISSE	WATER WATER	Section D Valid Matrix Codes Required Client Information MATRIX CO		Requested Due Date/TAT: 10 Day		SUS Contacts		Allanta, GA		Chen
			Kynos	1	Thomas	RE							1		m _E	WG WG	wg	wo	리오동좋으므 MATRIX CODE (see value	WA LAN	3000		Project Number	Project Name	Purchase Order No.		Copy To: Geosyntec Contacts	Report To: SCS Contacts	Required Project Information:
			W	V	hosse	NOUS							I		5	0	6	6	SAMPLE TYPE (G=GRAB	C=C	OMP)			Pla	No		osynt	SCO	d info
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	SAMPLE		1 Place	Synte	Gerater	RELINQUISHED BY / AFFILIATION						1						0935	TIME	ALE .	COL			ond Poo			ds		
PRINT Name of SAMPLER: (No 4)	SAMPLER NAME AND SIGNATURE				,	NO					FJ 1/2	1	1		TJ 1/2	Ü	/	1	DATE	Sufoenco	COLLECTED			Plant Hammond Pooled Upgradient					
ne of SAM	AND SIG	,	1/26/2123	1/20/23	1/24/23	DATE					J 1/242023		1		1/24/2023	1	1		Time	ALL STATE				adient					
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Mo.	M		1436	1115	(III)				1		1		7		7	-		5	# OF CONTAINERS				Pace	Pace	Refe	Add	Con	Alle	hvo
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March 23, 2023

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

RE: Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 30, 2023 and February 03, 2023. 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,

Bonnie Vang

bonnie.vang@pacelabs.com

Bonnie Vary

(704)875-9092

Project Manager

Enclosures

cc: Noelia Gangi, Georgia Power

Ben Hodges, Georgia Power-CCR

Christine Hug, Geosyntec Consultants, Inc.

Kristen Jurinko

Thomas Kessler, Geosyntec

Whitney Law, Geosyntec Consultants

Laura Midkiff, Georgia Power

Michael Smilley, Georgia Power

Tina Sullivan, ERM

Anthony Szwast, Geosyntec





CERTIFICATIONS

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

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 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

Missouri Certification #: 235

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



SAMPLE SUMMARY

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92649924001	HAM-HGWC-9	Water	01/26/23 15:24	01/30/23 14:38
92649924002	HAM-HGWC-11	Water	01/26/23 14:27	01/30/23 14:38
92649924003	HAM-HGWC-12	Water	01/26/23 12:25	01/30/23 14:38
92649924004	HAM-HGWC-13	Water	01/26/23 13:30	01/30/23 14:38
92649924005	HAM-MW-5	Water	01/26/23 11:14	01/30/23 14:38
92649924006	HAM-MW-6	Water	01/26/23 12:40	01/30/23 14:38
92649924007	HAM-MW-7	Water	01/26/23 14:04	01/30/23 14:38
92649924008	HAM-MW-19	Water	01/26/23 16:05	01/30/23 14:38
92649924009	HAM-MW-20	Water	01/26/23 09:49	01/30/23 14:38
92649924010	HAM-MW-24D	Water	01/26/23 11:31	01/30/23 14:38
92649924011	HAM-MW-25D	Water	01/26/23 10:14	01/30/23 14:38
92649924012	HAM-MW-26D	Water	01/26/23 16:32	01/30/23 14:38
92649924013	HAM-MW-28D	Water	01/26/23 17:33	01/30/23 14:38
92649924014	HAM-MW-29	Water	01/26/23 15:19	01/30/23 14:38
92649924015	HAM-AP1-FD-01	Water	01/26/23 14:48	01/30/23 14:38
92649924016	HAM-HGWC-7	Water	01/27/23 13:15	01/30/23 14:38
92649924017	HAM-HGWC-10	Water	01/27/23 15:01	01/30/23 14:38
92649924018	HAM-MW-27D	Water	01/27/23 17:35	01/30/23 14:38
92649924019	HAM-HGWC-8	Water	02/01/23 10:02	02/03/23 12:50
92649924020	HAM-AP1-EB-01	Water	02/01/23 14:50	02/03/23 12:50
92649924021	HAM-AP1-FB-01	Water	02/01/23 14:40	02/03/23 12:50



SAMPLE ANALYTE COUNT

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92649924001	HAM-HGWC-9	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92649924002	HAM-HGWC-11	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92649924003	HAM-HGWC-12	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
2649924004	HAM-HGWC-13	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92649924005	HAM-MW-5	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
2649924006	HAM-MW-6	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
2649924007	HAM-MW-7	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
2649924008	HAM-MW-19	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
2649924009	HAM-MW-20	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
2649924010	HAM-MW-24D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
2649924011	HAM-MW-25D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
2649924012	HAM-MW-26D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92649924013	HAM-MW-28D	EPA 9315	RMS	1	PASI-PA



SAMPLE ANALYTE COUNT

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92649924014	HAM-MW-29	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92649924015	HAM-AP1-FD-01	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
2649924016	HAM-HGWC-7	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
2649924017	HAM-HGWC-10	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
2649924018	HAM-MW-27D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
2649924019	HAM-HGWC-8	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2649924020	HAM-AP1-EB-01	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
2649924021	HAM-AP1-FB-01	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92649924001	HAM-HGWC-9					
EPA 9315	Radium-226	0.0570 ± 0.0782 (0.164)	pCi/L	C	02/16/23 10:17	
ED4 0000	D 11 000	C:93% T:NA	0:"		20/40/00 40 04	
EPA 9320	Radium-228	0.459 ± 0.279 (0.500) C:82% T:86%	pCi/L	C	02/10/23 12:01	
Total Radium Calculation	Total Radium	0.516 ± 0.357 (0.664)	pCi/L	C	03/14/23 14:23	
92649924002	HAM-HGWC-11	(0.004)				
EPA 9315	Radium-226	0.103 ± 0.0962 (0.173)	pCi/L	C	02/16/23 09:05	
	B. II. 222	C:93% T:NA	0.11	_		
EPA 9320	Radium-228	0.338 ± 0.312 (0.634) C:82%	pCi/L	C	02/10/23 12:01	
Total Radium Calculation	Total Radium	T:85% 0.441 ± 0.408 (0.807)	pCi/L	O	03/14/23 14:23	
92649924003	HAM-HGWC-12					
EPA 9315	Radium-226	0.280 ± 0.139 (0.173)	pCi/L	O	02/16/23 09:05	
EPA 9320	Radium-228	C:98% T:NA 0.597 ± 0.308 (0.525)	pCi/L	C	02/10/23 12:01	
		C:81% T:89%				
Total Radium Calculation	Total Radium	0.877 ± 0.447 (0.698)	pCi/L	C	03/14/23 14:23	
2649924004	HAM-HGWC-13					
EPA 9315	Radium-226	0.163 ± 0.108 (0.165)	pCi/L	C	02/16/23 09:05	
EPA 9320	Radium-228	C:99% T:NA 0.556 ± 0.306	pCi/L	C	02/10/23 12:01	
		(0.531) C:80% T:87%				
Total Radium Calculation	Total Radium	0.719 ± 0.414 (0.696)	pCi/L	C	03/14/23 14:23	

REPORT OF LABORATORY ANALYSIS

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Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Lab Sample ID	Client Sample ID				
Method	Parameters	Result	Units	Report Limit Analyzed Qua	lifiers
92649924005	HAM-MW-5				
EPA 9315	Radium-226	0.0644 ± 0.0894 (0.189)	pCi/L	02/16/23 09:05	
EPA 9320	Radium-228	C:90% T:NA 0.845 ± 0.402 (0.676) C:79%	pCi/L	02/10/23 14:34	
Total Radium Calculation	Total Radium	T:86% 0.909 ± 0.491 (0.865)	pCi/L	03/14/23 14:23	
2649924006	HAM-MW-6				
EPA 9315	Radium-226	0.0685 ± 0.0832 (0.167) C:93% T:NA	pCi/L	02/16/23 12:08	
EPA 9320	Radium-228	0.424 ± 0.339 (0.675) C:87% T:86%	pCi/L	02/10/23 14:34	
Total Radium Calculation	Total Radium	0.493 ± 0.422 (0.842)	pCi/L	03/14/23 14:23	
92649924007	HAM-MW-7				
EPA 9315	Radium-226	0.131 ± 0.108 (0.193) C:93% T:NA	pCi/L	02/16/23 12:08	
EPA 9320	Radium-228	0.187 ± 0.289 (0.624) C:83% T:87%	pCi/L	02/10/23 14:34	
Total Radium Calculation	Total Radium	0.318 ± 0.397 (0.817)	pCi/L	03/14/23 14:23	
2649924008	HAM-MW-19				
EPA 9315	Radium-226	0.0959 ± 0.0908 (0.164) C:91% T:NA	pCi/L	02/16/23 12:08	
EPA 9320	Radium-228	0.237 ± 0.279 (0.584) C:85% T:82%	pCi/L	02/10/23 14:34	
Total Radium Calculation	Total Radium	0.333 ± 0.370 (0.748)	pCi/L	03/14/23 14:23	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92649924009	HAM-MW-20	<u></u>				
EPA 9315	Radium-226	0.186 ±	pCi/L		02/16/23 12:08	
LFA 93 13	Naulum-220	0.118	po/L		02/10/23 12.00	
		(0.172)				
EPA 9320	Radium-228	C:93% T:NA 0.375 ±	pCi/L		02/10/23 15:08	
LFA 9320	Naululli-220	0.350	po/L		02/10/23 13.00	
		(0.714)				
		C:82% T:88%				
Total Radium Calculation	Total Radium	0.561 ±	pCi/L		03/14/23 14:23	
		0.468	•			
		(0.886)				
92649924010	HAM-MW-24D					
EPA 9315	Radium-226	-0.00601 ±	pCi/L		02/16/23 12:08	
		0.0547 (0.167)				
		C:90% T:NA				
EPA 9320	Radium-228	0.0906 ±	pCi/L		02/10/23 15:08	
		0.273 (0.616)				
		C:82%				
		T:88%				
Total Radium Calculation	Total Radium	0.0906 ± 0.328	pCi/L		03/14/23 14:23	
		(0.783)				
92649924011	HAM-MW-25D	,				
EPA 9315	Radium-226	0.713 ±	pCi/L		02/16/23 12:08	
		0.220	F			
		(0.158)				
EPA 9320	Radium-228	C:95% T:NA 0.391 ±	pCi/L		02/10/23 15:08	
21710020	rtadiam 220	0.304	PO#2		02/10/20 10:00	
		(0.594)				
		C:81% T:90%				
Total Radium Calculation	Total Radium	1.10 ±	pCi/L		03/14/23 14:23	
		0.524				
		(0.752)				
92649924012	HAM-MW-26D					
EPA 9315	Radium-226	0.0343 ± 0.0947	pCi/L		02/16/23 12:08	
		(0.229)				
		C:91% T:NA				
EPA 9320	Radium-228	0.352 ± 0.330	pCi/L		02/10/23 15:08	
		(0.670)				
		C:77%				
Total Dadium Calaulatia	Total Dadium	T:88%	»C://		00/44/00 44:00	
Total Radium Calculation	Total Radium	0.386 ± 0.425	pCi/L		03/14/23 14:23	
		(0.899)				

REPORT OF LABORATORY ANALYSIS

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Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2649924013	HAM-MW-28D					
EPA 9315	Radium-226	0.421 ± 0.167	pCi/L		02/14/23 19:09	
		(0.182)				
		C:107%				
EPA 9320	Radium-228	T:NA 0.400 ±	pCi/L		02/09/23 13:53	
		0.312				
		(0.608) C:79%				
		T:90%				
Total Radium Calculation	Total Radium	0.821 ± 0.479	pCi/L		03/14/23 14:23	
		(0.790)				
2649924014	HAM-MW-29	. ,				
EPA 9315	Radium-226	0.0895 ±	pCi/L		02/14/23 19:09	
		0.0928				
		(0.175) C:92% T:NA				
EPA 9320	Radium-228	0.703 ±	pCi/L		02/09/23 13:53	
		0.387 (0.690)				
		C:80%				
Fatal Dadium Calaulatian	Tatal Dadium	T:85% 0.793 ±	C: /I		00/44/00 44:00	
Total Radium Calculation	Total Radium	0.793 ± 0.480	pCi/L		03/14/23 14:23	
		(0.865)				
2649924015	HAM-AP1-FD-01					
EPA 9315	Radium-226	0.144 ±	pCi/L		02/14/23 19:09	
		0.109 (0.179)				
		C:95% T:NA				
EPA 9320	Radium-228	0.414 ± 0.396	pCi/L		02/09/23 13:53	
		(0.811)				
		C:76%				
Total Radium Calculation	Total Radium	T:83% 0.558 ±	pCi/L		03/14/23 14:23	
Total Hadiain Galoulation	Total Radiani	0.505	POWE		00/11/20 11:20	
		(0.990)				
2649924016	HAM-HGWC-7					
EPA 9315	Radium-226	0.229 ± 0.135	pCi/L		02/14/23 19:09	
		(0.186)				
-DA 0000	D = 4' 000	C:85% T:NA	~ 0: "		00/00/05 40 55	
EPA 9320	Radium-228	0.221 ± 0.294	pCi/L		02/09/23 13:53	
		(0.626)				
		C:79% T:91%				
Total Radium Calculation	Total Radium	0.450 ±	pCi/L		03/14/23 14:23	
		0.429			· -	

REPORT OF LABORATORY ANALYSIS

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Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Lab Sample ID	Client Sample ID				
Method	Parameters	Result	Units	Report Limit Analyz	ed Qualifiers
92649924017	HAM-HGWC-10				
EPA 9315	Radium-226	0.148 ± 0.107 (0.167)	pCi/L	02/14/23 1	9:09
		C:95% T:NA			
EPA 9320	Radium-228	1.05 ± 0.404 (0.587) C:86%	pCi/L	02/13/23 1	1:52
Total Radium Calculation	Total Radium	T:81% 1.20 ±	pCi/L	03/14/23 1	4.00
Total Radium Calculation	Total Radium	0.511	pC//L	03/14/23 1	4.23
		(0.754)			
92649924018	HAM-MW-27D				
EPA 9315	Radium-226	0.372 ± 0.172 (0.233)	pCi/L	02/14/23 1	9:09
		C:98% T:NA			
EPA 9320	Radium-228	0.728 ± 0.350	pCi/L	02/13/23 1	1:52
		(0.569) C:83% T:83%			
Total Radium Calculation	Total Radium	1.10 ± 0.522 (0.802)	pCi/L	03/14/23 1	4:23
92649924019	HAM-HGWC-8	(0.002)			
EPA 9315	Radium-226	0.215 ±	pCi/L	02/27/23 1	9.20
LI A 3010	Radidiii 220	0.127 (0.177)	POIL	02/21/25	5.20
EPA 9320	Radium-228	C:92% T:NA 0.0256 ±	pCi/L	02/21/23 1	5.12
21710020	Radiani 220	0.352 (0.808) C:90%	POILE	02/21/20 1	0.12
Total Radium Calculation	Total Radium	T:84% 0.241 ±	nCi/l	02/28/23 1	E-11
Total Radium Calculation	iotal Radium	0.479 (0.985)	pCi/L	02/20/23 1	5.11
92649924020	HAM-AP1-EB-01				
EPA 9315	Radium-226	0.0947 ± 0.117	pCi/L	02/27/23 1	9:20
		(0.247) C:92% T:NA			
EPA 9320	Radium-228	0.572 ± 0.386 (0.746) C:82% T:93%	pCi/L	02/21/23 1	5:12
Total Radium Calculation	Total Radium	0.667 ± 0.503 (0.993)	pCi/L	02/28/23 1	5:11



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92649924021	HAM-AP1-FB-01					
EPA 9315	Radium-226	-0.000718 ± 0.0588 (0.173) C:90% T:NA	pCi/L		02/27/23 18:33	
EPA 9320	Radium-228	0.250 ± 0.331 (0.708) C:81% T:94%	pCi/L		02/21/23 15:12	
Total Radium Calculation	Total Radium	0.250 ± 0.390 (0.881)	pCi/L		02/28/23 15:11	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-HGWC-9 PWS:	Lab ID: 92649924 Site ID:	4001 Collected: 01/26/23 15:24 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Serv	vices - Greensburg				
Radium-226	EPA 9315	0.0570 ± 0.0782 (0.164) C:93% T:NA	pCi/L	02/16/23 10:17	7 13982-63-3	
	Pace Analytical Serv	vices - Greensburg				
Radium-228	EPA 9320	0.459 ± 0.279 (0.500) C:82% T:86%	pCi/L	02/10/23 12:0	1 15262-20-1	
	Pace Analytical Serv	vices - Greensburg				
Total Radium	Total Radium Calculation	0.516 ± 0.357 (0.664)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-HGWC-11 PWS:	Lab ID: 92649 Site ID:	9924002 Collected: 01/26/23 14:27 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.103 ± 0.0962 (0.173) C:93% T:NA	pCi/L	02/16/23 09:0	5 13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.338 ± 0.312 (0.634) C:82% T:85%	pCi/L	02/10/23 12:0	1 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.441 ± 0.408 (0.807)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-HGWC-12 PWS:	Lab ID: 926499 Site ID:	24003 Collected: 01/26/23 12:25 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.280 ± 0.139 (0.173) C:98% T:NA	pCi/L	02/16/23 09:0	5 13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.597 ± 0.308 (0.525) C:81% T:89%	pCi/L	02/10/23 12:0	1 15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.877 ± 0.447 (0.698)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-HGWC-13 PWS:	Lab ID: 9264992 Site ID:	4004 Collected: 01/26/23 13:30 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.163 ± 0.108 (0.165) C:99% T:NA	pCi/L	02/16/23 09:0	5 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.556 ± 0.306 (0.531) C:80% T:87%	pCi/L	02/10/23 12:0	1 15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.719 ± 0.414 (0.696)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-MW-5 PWS:	Lab ID: 9264992 Site ID:	4005 Collected: 01/26/23 11:14 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.0644 ± 0.0894 (0.189) C:90% T:NA	pCi/L	02/16/23 09:0	5 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.845 ± 0.402 (0.676) C:79% T:86%	pCi/L	02/10/23 14:34	4 15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.909 ± 0.491 (0.865)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-MW-6 PWS:	Lab ID: 92649 Site ID:	9924006 Collected: 01/26/23 12:40 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.0685 ± 0.0832 (0.167) C:93% T:NA	pCi/L	02/16/23 12:0	8 13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.424 ± 0.339 (0.675) C:87% T:86%	pCi/L	02/10/23 14:34	4 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.493 ± 0.422 (0.842)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-MW-7 PWS:	Lab ID: 9264992 Site ID:	24007 Collected: 01/26/23 14:04 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	rvices - Greensburg				
Radium-226	EPA 9315	0.131 ± 0.108 (0.193) C:93% T:NA	pCi/L	02/16/23 12:08	3 13982-63-3	
	Pace Analytical Ser	rvices - Greensburg				
Radium-228	EPA 9320	0.187 ± 0.289 (0.624) C:83% T:87%	pCi/L	02/10/23 14:34	15262-20-1	
	Pace Analytical Ser	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.318 ± 0.397 (0.817)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-MW-19 PWS:	Lab ID: 92649924 Site ID:	4008 Collected: 01/26/23 16:05 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Serv	vices - Greensburg				
Radium-226	EPA 9315	0.0959 ± 0.0908 (0.164) C:91% T:NA	pCi/L	02/16/23 12:08	3 13982-63-3	
	Pace Analytical Serv	vices - Greensburg				
Radium-228	EPA 9320	0.237 ± 0.279 (0.584) C:85% T:82%	pCi/L	02/10/23 14:34	1 15262-20-1	
	Pace Analytical Serv	vices - Greensburg				
Total Radium	Total Radium Calculation	0.333 ± 0.370 (0.748)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-MW-20 PWS:	Lab ID: 92649 Site ID:	9924009 Collected: 01/26/23 09:49 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.186 ± 0.118 (0.172) C:93% T:NA	pCi/L	02/16/23 12:08	8 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.375 ± 0.350 (0.714) C:82% T:88%	pCi/L	02/10/23 15:08	8 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.561 ± 0.468 (0.886)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-MW-24D PWS:	Lab ID: 92649 Site ID:	924010 Collected: 01/26/23 11:31 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	-0.00601 ± 0.0547 (0.167) C:90% T:NA	pCi/L	02/16/23 12:08	3 13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.0906 ± 0.273 (0.616) C:82% T:88%	pCi/L	02/10/23 15:08	3 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.0906 ± 0.328 (0.783)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-MW-25D PWS:	Lab ID: 9264 Site ID:	9924011 Collected: 01/26/23 10:14 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.713 ± 0.220 (0.158) C:95% T:NA	pCi/L	02/16/23 12:08	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.391 ± 0.304 (0.594) C:81% T:90%	pCi/L	02/10/23 15:08	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.10 ± 0.524 (0.752)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-MW-26D PWS:	Lab ID: 926499 Site ID:	O24012 Collected: 01/26/23 16:32 Sample Type:	Received:	01/30/23 14:38 I	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				,
Radium-226	EPA 9315	0.0343 ± 0.0947 (0.229) C:91% T:NA	pCi/L	02/16/23 12:08	13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.352 ± 0.330 (0.670) C:77% T:88%	pCi/L	02/10/23 15:08	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.386 ± 0.425 (0.899)	pCi/L	03/14/23 14:23	7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-MW-28D PWS:	Lab ID: 9264 Site ID:	9924013 Collected: 01/26/23 17:33 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.421 ± 0.167 (0.182) C:107% T:NA	pCi/L	02/14/23 19:09	9 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.400 ± 0.312 (0.608) C:79% T:90%	pCi/L	02/09/23 13:53	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.821 ± 0.479 (0.790)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-MW-29 PWS:	Lab ID: 9264 Site ID:	9924014 Collected: 01/26/23 15:19 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0895 ± 0.0928 (0.175) C:92% T:NA	pCi/L	02/14/23 19:09	9 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.703 ± 0.387 (0.690) C:80% T:85%	pCi/L	02/09/23 13:53	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	$0.793 \pm 0.480 (0.865)$	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-AP1-FD-01 PWS:	Lab ID: 9264992 Site ID:	24015 Collected: 01/26/23 14:48 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.144 ± 0.109 (0.179) C:95% T:NA	pCi/L	02/14/23 19:09	9 13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.414 ± 0.396 (0.811) C:76% T:83%	pCi/L	02/09/23 13:53	3 15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.558 ± 0.505 (0.990)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-HGWC-7 PWS:	Lab ID: 92649 Site ID:	9924016 Collected: 01/27/23 13:15 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.229 ± 0.135 (0.186) C:85% T:NA	pCi/L	02/14/23 19:09	9 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.221 ± 0.294 (0.626) C:79% T:91%	pCi/L	02/09/23 13:53	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.450 ± 0.429 (0.812)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-HGWC-10 PWS:	Lab ID: 926499 Site ID:	D24017 Collected: 01/27/23 15:01 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.148 ± 0.107 (0.167) C:95% T:NA	pCi/L	02/14/23 19:09	13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	1.05 ± 0.404 (0.587) C:86% T:81%	pCi/L	02/13/23 11:52	15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	1.20 ± 0.511 (0.754)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-MW-27D PWS:	Lab ID: 92649 Site ID:	9924018 Collected: 01/27/23 17:35 Sample Type:	Received:	01/30/23 14:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				-
Radium-226	EPA 9315	0.372 ± 0.172 (0.233) C:98% T:NA	pCi/L	02/14/23 19:09	9 13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.728 ± 0.350 (0.569) C:83% T:83%	pCi/L	02/13/23 11:52	2 15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	1.10 ± 0.522 (0.802)	pCi/L	03/14/23 14:23	3 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-HGWC-8 PWS:	Lab ID: 9264 Site ID:	9924019 Collected: 02/01/23 10:02 Sample Type:	Received:	02/03/23 12:50	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.215 ± 0.127 (0.177) C:92% T:NA	pCi/L	02/27/23 19:20	0 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.0256 ± 0.352 (0.808) C:90% T:84%	pCi/L	02/21/23 15:12	2 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.241 ± 0.479 (0.985)	pCi/L	02/28/23 15:11	1 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-AP1-EB-01 PWS:	Lab ID: 9264992 Site ID:	24020 Collected: 02/01/23 14:50 Sample Type:	Received:	02/03/23 12:50	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	rvices - Greensburg		•		-
Radium-226	EPA 9315	0.0947 ± 0.117 (0.247) C:92% T:NA	pCi/L	02/27/23 19:20	13982-63-3	
	Pace Analytical Ser	rvices - Greensburg				
Radium-228	EPA 9320	0.572 ± 0.386 (0.746) C:82% T:93%	pCi/L	02/21/23 15:12	2 15262-20-1	
	Pace Analytical Ser	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.667 ± 0.503 (0.993)	pCi/L	02/28/23 15:11	7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Sample: HAM-AP1-FB-01 PWS:	Lab ID: 92649 9 Site ID:	924021 Collected: 02/01/23 14:40 Sample Type:	Received:	02/03/23 12:50	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	-0.000718 ± 0.0588 (0.173) C:90% T:NA	pCi/L	02/27/23 18:33	3 13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.250 ± 0.331 (0.708) C:81% T:94%	pCi/L	02/21/23 15:12	2 15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.250 ± 0.390 (0.881)	pCi/L	02/28/23 15:11	1 7440-14-4	



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

QC Batch: 565964

Analysis Method: QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Pace Analytical Services - Greensburg Laboratory:

EPA 9315

Associated Lab Samples: 92649924019, 92649924020, 92649924021

METHOD BLANK: 2748587 Matrix: Water

Associated Lab Samples: 92649924019, 92649924020, 92649924021

Act ± Unc (MDC) Carr Trac Analyzed Qualifiers Parameter Units Radium-226 0.0712 ± 0.0809 (0.156) C:99% T:NA pCi/L 02/27/23 19:32

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.



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

QC Batch: 565965 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92649924019, 92649924020, 92649924021

METHOD BLANK: 2748588 Matrix: Water

Associated Lab Samples: 92649924019, 92649924020, 92649924021

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.343 ± 0.275 (0.547) C:87% T:103%
 pCi/L
 02/21/23 11:58

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.



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

QC Batch: 564181 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92649924001, 92649924002, 92649924003, 92649924004, 92649924005, 92649924006, 92649924007,

92649924008, 92649924009, 92649924010, 92649924011, 92649924012

METHOD BLANK: 2739754 Matrix: Water

Associated Lab Samples: 92649924001, 92649924002, 92649924003, 92649924004, 92649924005, 92649924006, 92649924007,

92649924008, 92649924009, 92649924010, 92649924011, 92649924012

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.0555 ± 0.0776 (0.164) C:96% T:NA
 pCi/L
 02/16/23 10:17

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.



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

QC Batch: 564276 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92649924013, 92649924014, 92649924015, 92649924016, 92649924017, 92649924018

METHOD BLANK: 2740044 Matrix: Water

Associated Lab Samples: 92649924013, 92649924014, 92649924015, 92649924016, 92649924017, 92649924018

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.422 ± 0.346 (0.687) C:78% T:87%
 pCi/L
 02/09/23 13:53

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



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

QC Batch: 564275 Analysis Method:

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

EPA 9315

Associated Lab Samples: 92649924013, 92649924014, 92649924015, 92649924016, 92649924017, 92649924018

METHOD BLANK: 2740043 Matrix: Water

Associated Lab Samples: 92649924013, 92649924014, 92649924015, 92649924016, 92649924017, 92649924018

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.0752 ± 0.0913 (0.184) C:91% T:NA
 pCi/L
 02/14/23 19:09

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.



Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

QC Batch: 564182 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92649924001, 92649924002, 92649924003, 92649924004, 92649924005, 92649924006, 92649924007,

92649924008, 92649924009, 92649924010, 92649924011, 92649924012

METHOD BLANK: 2739757 Matrix: Water

Associated Lab Samples: 92649924001, 92649924002, 92649924003, 92649924004, 92649924005, 92649924006, 92649924007,

92649924008, 92649924009, 92649924010, 92649924011, 92649924012

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.348 ± 0.296 (0.591) C:84% T:90%
 pCi/L
 02/10/23 11:28

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



QUALIFIERS

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

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

Date: 03/23/2023 09:35 AM

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Date: 03/23/2023 09:35 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92649924001	HAM-HGWC-9	EPA 9315	564181		
2649924002	HAM-HGWC-11	EPA 9315	564181		
2649924003	HAM-HGWC-12	EPA 9315	564181		
2649924004	HAM-HGWC-13	EPA 9315	564181		
2649924005	HAM-MW-5	EPA 9315	564181		
2649924006	HAM-MW-6	EPA 9315	564181		
2649924007	HAM-MW-7	EPA 9315	564181		
2649924008	HAM-MW-19	EPA 9315	564181		
2649924009	HAM-MW-20	EPA 9315	564181		
2649924010	HAM-MW-24D	EPA 9315	564181		
2649924011	HAM-MW-25D	EPA 9315	564181		
2649924012	HAM-MW-26D	EPA 9315	564181		
2649924013	HAM-MW-28D	EPA 9315	564275		
2649924014	HAM-MW-29	EPA 9315	564275		
2649924015	HAM-AP1-FD-01	EPA 9315	564275		
2649924016	HAM-HGWC-7	EPA 9315	564275		
2649924017	HAM-HGWC-10	EPA 9315	564275		
2649924018	HAM-MW-27D	EPA 9315	564275		
2649924019	HAM-HGWC-8	EPA 9315	565964		
2649924020	HAM-AP1-EB-01	EPA 9315	565964		
2649924021	HAM-AP1-FB-01	EPA 9315	565964		
2649924001	HAM-HGWC-9	EPA 9320	564182		
2649924002	HAM-HGWC-11	EPA 9320	564182		
2649924003	HAM-HGWC-12	EPA 9320	564182		
2649924004	HAM-HGWC-13	EPA 9320	564182		
2649924005	HAM-MW-5	EPA 9320	564182		
2649924006	HAM-MW-6	EPA 9320	564182		
2649924007	HAM-MW-7	EPA 9320	564182		
2649924008	HAM-MW-19	EPA 9320	564182		
2649924009	HAM-MW-20	EPA 9320	564182		
2649924010	HAM-MW-24D	EPA 9320	564182		
2649924011	HAM-MW-25D	EPA 9320	564182		
2649924012	HAM-MW-26D	EPA 9320	564182		
2649924013	HAM-MW-28D	EPA 9320	564276		
2649924014	HAM-MW-29	EPA 9320	564276		
2649924015	HAM-AP1-FD-01	EPA 9320	564276		
2649924016	HAM-HGWC-7	EPA 9320	564276		
2649924017	HAM-HGWC-10	EPA 9320	564276		
2649924018	HAM-MW-27D	EPA 9320	564276		
2649924019	HAM-HGWC-8	EPA 9320	565965		
2649924020	HAM-AP1-EB-01	EPA 9320	565965		
2649924021	HAM-AP1-FB-01	EPA 9320	565965		
2649924001	HAM-HGWC-9	Total Radium Calculation	573736		
2649924002	HAM-HGWC-11	Total Radium Calculation	573736		
2649924003	HAM-HGWC-12	Total Radium Calculation	573736		
92649924004	HAM-HGWC-13	Total Radium Calculation	573736		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Hammond AP-1 - RADS

Pace Project No.: 92649924

Date: 03/23/2023 09:35 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92649924005	HAM-MW-5	Total Radium Calculation	573736		
92649924006	HAM-MW-6	Total Radium Calculation	573736		
92649924007	HAM-MW-7	Total Radium Calculation	573736		
92649924008	HAM-MW-19	Total Radium Calculation	573736		
92649924009	HAM-MW-20	Total Radium Calculation	573736		
92649924010	HAM-MW-24D	Total Radium Calculation	573736		
92649924011	HAM-MW-25D	Total Radium Calculation	573736		
92649924012	HAM-MW-26D	Total Radium Calculation	573736		
92649924013	HAM-MW-28D	Total Radium Calculation	573736		
92649924014	HAM-MW-29	Total Radium Calculation	573736		
92649924015	HAM-AP1-FD-01	Total Radium Calculation	573736		
92649924016	HAM-HGWC-7	Total Radium Calculation	573736		
92649924017	HAM-HGWC-10	Total Radium Calculation	573736		
92649924018	HAM-MW-27D	Total Radium Calculation	573736		
92649924019	HAM-HGWC-8	Total Radium Calculation	570492		
92649924020	HAM-AP1-EB-01	Total Radium Calculation	570492		
92649924021	HAM-AP1-FB-01	Total Radium Calculation	570492		

Pace	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
SENTA (SENT SULATER)	Effective Date: 11/14/2022

Laboratory receiving samples: Asheville Eden Greenwood House Sample Condition Client Name:	untersvi	lle 🗌	Raleigh		Mechanicsville Atlanta Kernersville
	owe		F	^o roje	a# W0#:92649924
Courier: Fed Ex UPS Commercial Fed Ex	USPS Other		□c⊪ ر	ent	92649924
Custody Seal Present? Yes Mo Seals Int	tact?	Yes	JAN O		Date/Initials Person Examining Contents: M
Packing Material: Bubble Wrap Bubble	e Bags	None	e 🛮 ot	her	Biological Tissue Frozent?
Thermometer:					□Yes □No □N/A
☐ IR Gun ID: 230	Type of Ice	: <u>2</u>	Wet □BI	ue	None
Cooler Temp: Correction Factor: Add/Subtract (°C)	t O		·		Temp should be above freezing to 6°C
Cooler Temp Corrected (°C):					Samples out of temp criteria. Samples on ice, cooling process has begun
USDA Regulated Soil (N/A, water sample) Did samples originate in a quarafitine zone within the Uni (check maps)? Yes	ited States:	CA, NY,	or SC		Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? [Yes
					Comments/Discrepancy:
Chain of Custody Present?	Yes	□No	□n/a	1.	
Samples Arrived within Hold Time?	⊿ Yes	□No	□N/A	2.	
Short Hold Time Analysis (<72 hr.)?	☐Yes	Ŀ₩o	□n/a	3.	
Rush Turn Around Time Requested?	□Yes	No		4.	The second secon
Sufficient Valume?	ZVes.	□No	□N/A	5.	
Correct Containers Used?	AJVs.	□No	□N/A	6.	
-Pace Containers Used?	1 Yes _	□No	□n/a	- William	
Containers Intact?	Yes	□ No	□N/A	7.	
Dissolved analysis: Samples Field Filtered? Sample Labels Match COC?	□Yes	□N¤	EM/A	8.	
Somple casels Water Cocy	Tes	□Na	□n/a	9.	
-Includes Date/Time/ID/Analysis Matrix:	6			c testiriotendenesses	
Headspace in VOA Vials (>5-6mm)?	☐Yes	∏No	N/Ay	10.	The state of the s
Trip Blank Present?	☐Yes	□No	1 N/A	11.	
Trip Blank Custody Seals Present?	∐Yes	□No	E)M/A		
OMMENTS/SAMPLE DISCREPANCY		-			Field Data Required? ☐Yes ☐No
IENT NOTIFICATION/RESOLUTION	-		Lo	t iD o	of split containers:
Person contacted:		E	Date/Time:		
Project Manager SCURF Review:		······································		_	Date:
Project Manager SRF Review:	-				Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples: Asheville	ntersville 🔲	Raleigh	Mechanicsville Atlanta
Sample Condition Client Name: Upon Receipt	0	Proje	WO#: 92649924
Courier:	₩ (V □USPS □Other:	Client	PM: BV Due Date: 02/14/23 CLIENT: GA-GA Power
Custody Seal Present? Yes Mo Seals Intac	et? □Yes	□N ₀	Date/Initials Person Examining Contents: 177
Packing Material: Bubble Wrap Bubble B	Bags ☐None	Other	Biological Tissue Frozen?
	ype of Ice: W	/et □Blue	□Yes □No □N/A □None
Cooler Temp: Correction Factor: Add/Subtract (°C)	+0		Temp should be above freezing to 6°C
Cooler Temp Corrected (°C): USDA Regulated Soil (N/A, water sample)			Samples out of temp criteria. Samples on ice, cooling process has begun
Did samples originate in a quarantine zone within the Unite (check maps)? Yes No	ed States: CA, NY, or	r SC	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No
			Comments/Discrepancy:
Chain of Custody Present?	Yes No	□N/A 1.	
Samples Arrived within Hold Time?	Yes No	□N/A 2.	
Short Hold Time Analysis (<72 hr.)?	□Yes ☑No	□N/A 3.	
Rush Turn Around Time Requested?	☐Yes ☐No	□N/A 4.	
Sufficient Valume?	⊠Yes □No	□N/A 5.	
Correct Containers Used? -Pace Containers Used?	Yes No	□N/A 6. □N/A	
Containers Intact?		□N/A 7.	
Dissolved analysis: Samples Field Filtered?	□Yes → □No	☑ N/A 8.	
Sample Labels Match COC?	☐res ☐No	□N/A 9.	
-Includes Date/Time/ID/Analysis Matrix: (<u>-</u>		
Headspace in VOA Vials (>5-6mm)?	□Yes □No -	N/A 10.	
Trip Blank Present?	☐Yes ☐No	1 N/A 11.	
Trip Blank Custody Seals Present?	☐Yes ☐No	ZIMIA	
COMMENTS/SAMPLE DISCREPANCY	***************************************		Field Data Required? Yes No
		Lot ID	of split containers:
LIENT NOTIFICATION/RESOLUTION	EZMOSE A AZEZEMA EZELLE EL MERENDE E		
		·······································	
Person contacted:	Ď.	ate/Time:	
Project Manager SCURF Review:	May product service outside and the St. S.		Date:
Project Manager SRF Review:			Date:



DC#__Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

Project #

WO#: 92649924

PM: BV

Due Date: 02/14/23

CLIENT: GA-GA Power

- **Bottom half of box is to list number of bottles
- ***Check all unpreserved Nitrates for chlorine

Periods (1971)	BP&U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H25O4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 (Iter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG15-1 liter Amber H2504 (pH < 2)	AG35-250 mL Amber H25O4 (pH < 2)	D694-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 ml VOA Na252O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 {N/A}	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A = lab)	SPZT-250 mL Sterile Plastic (N/A - lab)	BPIN	BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mt Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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		pH Ac	ljustment Log for Pres	erved Samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
						

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



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

- **Bottom half of box is to list number of bottles
- ***Check all unpreserved Nitrates for chlorine

Project : WO#: 92649924

CLIENT: GA-GA Power

A CANA THE COLUMN THE PROPERTY OF THE PROPERTY	BP4U-125 mL Plastic Unpreserved (N/A) (Ct.)	- 8P3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HN03 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H25O4 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Ct (N/A)(Ct-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA NA2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 ml. Sterile Plastic (N/A – lab)	SPZT-250 mL Sterije Piastic (N/A ~ lab)	ZpN	BP3R-25G mL Plastic (NH2)25O4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) {Ci-}	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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Sample ID	Type of Preservative	pH upon receipt	justment Log for Pres			
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Effective Date: 11/14/2022

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

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

Project #

WO#: 92649924

PM: BV

Due Date: 02/14/23

CLIENT: GA-GA Power

- **Bottom haif of box is to list number of bottles
- ***Check all unpreserved Nitrates for chlorine

Hems.	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Piastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H25O4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 {pH < 2}	8P4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C ^{I-})	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mt VOA HCI (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit}-VPH/Gas kit (N/A)	SP5T-125 mt Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A ~ lab)	BOIN	BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mt Scintillation vials (N/A)	DG9U 40 mL Amber Unpreserved vials (N/A)
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Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Qualtrax ID: 69614 Page 2 of 2 Page 46 of 52

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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FALL-G-020rev.07, 15-Feb-2007

CHAIN-OF-CUSTODY / Analytical Request Document The Chath-of-Custody is a LEGAL DOCUMENT, All relevant fields must be completed accurately.

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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-d-Cushody is a LEGAL DOCUMENT All relevant helds must be completed incurately.

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9264924	Residual Chlorine (Y/N)	-		RAD 226/729 TDS	Chloride, Fluoride, Sulfate Full App. III and IV metals	Analysis Test	Methanol Other	NaOH Na ₂ S ₂ O ₃	HNO₃ HCI	Unpreserved H ₂ SO ₄	BAMPLE TEMP AT COLLECTA # OF CONTAINERS	Ž	DATE	T X	DATE	SAMPLETYPE (G=GRAB C	MATRIX CODE (see valid to	MATRIX CODE (see value of the control of the contro	5	SAMPLE ID (4-Z, 001 -) Bampin ios Must BE UNIQUE		TTEN #
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-	Page:								A CONTRACTOR	Saction C Invoice Information	7 S				atton:	in the same	Section B Required Project Information	Requ		Security Clerit information:	Raguired Cleri	20 4
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Pace	DC#_Title: ENV-FRM-H	IUN1-0083 \	/02_Sa	ımple C	onditio	on Upon Receipt
THE PERSON NAMED IN COLUMN NAM	Effective Date: 11/14/2022	2				
Asheville Sample Condit		Huntersvil	le 🔲	Raleigh	☐ Me	echanicsville Atlanta Karnarsville Karnarsville Karnarsville
Courier: Commercial	Fed Ex UPS	USPS Other	· who we will write the second	Cii	ent	PM: BV Due Date: 02/14/23 CLIENT: GA-GA Power
Custody Seal Pres	sent? Yes No Se	als Intact?	∐Yes	∏No		Date/Initials Person Examining Contents: 2/3/23
Packing Material: Thermometer: TR Gur Cooler Temp: Cooler Temp Corr	Correction Factoriected (°C):	1 41 7	Mone E	☐ O	_	Riological Tissue Frozen? Yes No No No None mp should be above freezing to 6°C Samples out of temp criteria. Samples on ice, cooling process has begun
	Soil (the United States:	CA, NY, o	or SC		samples originate from a foreign source (internationally, juding Hawali and Puerto Rico)? Yes No
Chain of Cust	ndy Precent?		□No	□N/A	1.	Comments/Discrepancy:
	ved within Hold Time?		∐No		2.	
	ime Analysis (<72 hr.)?		****	□N/A		7.71.10.10.10.10.10.10.10.10.10.10.10.10.10
. [round Time Requested?		No D	□N/A	3.	
			□ #6	□N/A	4,	
Sufficient Vol		He .	□No	□N/A	5.	
Correct Conta	ainers Used? tainers Used?	□ye <u>s</u>	□No	□N/A	6.	
Containers In		_ ZYes ⊟rres		□N/A □N/A	7.	
	alysis: Samples Field Filtered?		□No	BNIA	8.	
	is Match COC?		□No	□N/A	9.	
-includes D	Date/Time/ID/Analysis Matrix:		<u> </u>			
Headspace in Trip Blank Pre	VOA Vials (>5-6mm)? esent?	□Yes □Yes	□Nø □No	EM/A DAM/A	10. 11.	
Trip Blank Cu COMMENTS/SAMPLI	stody Seals Present? E DISCREPANCY	□Yes	□No	EIN/A		Field Data Required?
JENT NOTIFICATION	v/RESOLUTION				ot ID of s	plit containers:
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	er SCURF Review:	SCREAGE AND A CONTROL TO A SCREEN CONTROL CONTROL AND A CONTROL AND A CONTROL AND A CONTROL AND A CONTROL AND A	en langer bosse sammannamenter en esc		and the same of th	Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples. Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

WO#: 92649924

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

***Check all unpreserved Nitrates for chlorine

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		BP4L-125 ml. Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	9P1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2504 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP42-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic MaOH (pH > 12) (Cl·)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HC (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H25O4 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na252O3 (N/A)	VG9U-40 mt VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A ~ lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	SP/V	BP3R-250 mL Plastic (NH2)2SD4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintiflation vials (N/A)	DG9U-40 m1. Amber Unpreserved vials (N/A)
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at a market of the		pH Ad	justment Log for Pres	erved Samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
					300000	

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

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT, All retovent fields must be completed accurately.

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			A CONTRACTOR OF THE CONTRACTOR		A THE RESERVE OF THE PROPERTY	IGEN CORD. FLAM-ALICENSHIP INCOMES	WASHINGS THROLLING										HAM-AP-1-F8-01	HAM-AP-1-EB-01	HAM-HGWC-8	SAMPLE ID were (AZ 0-8/-) one Sample IDs MUST BE UNIQUE TREAT	WATER WATER	Section D Valid Na Regained Client information HATHAY		advasce pre-rain (2)	L	SCS Contacts		Allanta, GA	y GA Power	Section A Section A Required Clent Information:
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March 23, 2023

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

RE: Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between January 24, 2023 and January 26, 2023. 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,

Bonnie Vang

bonnie.vang@pacelabs.com

Bonnie Vary

(704)875-9092

Project Manager

Enclosures

cc: Noelia Gangi, Georgia Power
Ben Hodges, Georgia Power-CCR

Christine Hug, Geosyntec Consultants, Inc.

Kristen Jurinko

Thomas Kessler, Geosyntec

Whitney Law, Geosyntec Consultants

Laura Midkiff, Georgia Power

Michael Smilley, Georgia Power

Tina Sullivan, ERM

Anthony Szwast, Geosyntec





CERTIFICATIONS

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

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 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

Missouri Certification #: 235

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



SAMPLE SUMMARY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Lab ID	Sample ID	Matrix	Date Collected	Date Received	
92648448001	HAM-HGWA-3	Water	01/23/23 16:49	01/24/23 12:38	
92648448002	HAM-HGWA-2	Water	01/24/23 09:35	01/26/23 11:15	
92648448003	HAM-HGWA-43D	Water	01/24/23 10:55	01/26/23 11:15	
92648448004	HAM-HGWA-44D	Water	01/24/23 10:57	01/26/23 11:15	
92648448005	HAM-HGWA-1	Water	01/24/23 09:35	01/26/23 11:15	



SAMPLE ANALYTE COUNT

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92648448001	HAM-HGWA-3	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648448002	HAM-HGWA-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648448003	HAM-HGWA-43D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648448004	HAM-HGWA-44D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92648448005	HAM-HGWA-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



SUMMARY OF DETECTION

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Lab Sample ID	Client Sample ID			
Method	Parameters	Result	Units	Report Limit Analyzed Qualifie
92648448001	HAM-HGWA-3			
EPA 9315	Radium-226	0.0154 ± 0.0951 (0.254)	pCi/L	02/20/23 10:18
EPA 9320	Radium-228	C:94% T:NA 0.296 ± 0.260 (0.535)	pCi/L	02/06/23 14:48
Total Radium Calculation	Total Radium	C:94% T:91% 0.311 ± 0.355	pCi/L	03/21/23 16:16
		(0.789)		
92648448002	HAM-HGWA-2			
EPA 9315	Radium-226	0.230 ± 0.165 (0.266)	pCi/L	02/20/23 10:18
EPA 9320	Radium-228	C:92% T:NA 0.599 ± 0.364 (0.677) C:84%	pCi/L	02/08/23 14:36
Total Radium Calculation	Total Radium	7:89% 0.829 ± 0.529 (0.943)	pCi/L	03/21/23 16:16
92648448003	HAM-HGWA-43D	(0.545)		
EPA 9315	Radium-226	0.304 ± 0.186 (0.279)	pCi/L	02/20/23 10:18
EPA 9320	Radium-228	C:95% T:NA 0.950 ± 0.437 (0.730) C:81%	pCi/L	02/08/23 14:36
Total Radium Calculation	Total Radium	T:84% 1.25 ± 0.623 (1.01)	pCi/L	03/21/23 16:16
2648448004	HAM-HGWA-44D	(1121)		
EPA 9315	Radium-226	0.112 ± 0.122 (0.232)	pCi/L	02/20/23 10:18
EPA 9320	Radium-228	C:96% T:NA 0.309 ± 0.319 (0.657) C:83%	pCi/L	02/08/23 14:39
Total Radium Calculation	Total Radium	T:82% 0.421 ± 0.441 (0.889)	pCi/L	03/21/23 16:16

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92648448005	HAM-HGWA-1					
EPA 9315	Radium-226	0.0747 ± 0.114 (0.248) C:96% T:NA	pCi/L		02/20/23 10:18	
EPA 9320	Radium-228	0.474 ± 0.314 (0.587) C:84% T:86%	pCi/L		02/08/23 14:39	
Total Radium Calculation	Total Radium	0.549 ± 0.428 (0.835)	pCi/L		03/21/23 16:16	



Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Sample: HAM-HGWA-3 PWS:	Lab ID: 926484 4 Site ID:	48001 Collected: 01/23/23 16:49 Sample Type:	Received:	01/24/23 12:38	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.0154 ± 0.0951 (0.254) C:94% T:NA	pCi/L	02/20/23 10:18	3 13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.296 ± 0.260 (0.535) C:94% T:91%	pCi/L	02/06/23 14:48	3 15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.311 ± 0.355 (0.789)	pCi/L	03/21/23 16:16	7440-14-4	



Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Sample: HAM-HGWA-2 PWS:	Lab ID: 926484 4 Site ID:	18002 Collected: 01/24/23 09:35 Sample Type:	Received:	01/26/23 11:15	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	rvices - Greensburg				, ,
Radium-226	EPA 9315	0.230 ± 0.165 (0.266) C:92% T:NA	pCi/L	02/20/23 10:18	3 13982-63-3	
	Pace Analytical Ser	rvices - Greensburg				
Radium-228	EPA 9320	0.599 ± 0.364 (0.677) C:84% T:89%	pCi/L	02/08/23 14:36	5 15262-20-1	
	Pace Analytical Ser	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.829 ± 0.529 (0.943)	pCi/L	03/21/23 16:16	7440-14-4	



Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Sample: HAM-HGWA-43D PWS:	Lab ID: 9264 Site ID:	8448003 Collected: 01/24/23 10:55 Sample Type:	Received:	01/26/23 11:15	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.304 ± 0.186 (0.279) C:95% T:NA	pCi/L	02/20/23 10:18	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.950 ± 0.437 (0.730) C:81% T:84%	pCi/L	02/08/23 14:36	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.25 ± 0.623 (1.01)	pCi/L	03/21/23 16:16	7440-14-4	



Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Sample: HAM-HGWA-44D PWS:	Lab ID: 9264 Site ID:	8448004 Collected: 01/24/23 10:57 Sample Type:	Received:	01/26/23 11:15	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.112 ± 0.122 (0.232) C:96% T:NA	pCi/L	02/20/23 10:18	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.309 ± 0.319 (0.657) C:83% T:82%	pCi/L	02/08/23 14:39	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.421 ± 0.441 (0.889)	pCi/L	03/21/23 16:16	6 7440-14-4	



Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Sample: HAM-HGWA-1 PWS:	Lab ID: 9264 Site ID:	8448005 Collected: 01/24/23 09:35 Sample Type:	Received:	01/26/23 11:15	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0747 ± 0.114 (0.248) C:96% T:NA	pCi/L	02/20/23 10:18	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.474 ± 0.314 (0.587) C:84% T:86%	pCi/L	02/08/23 14:39	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	$0.549 \pm 0.428 (0.835)$	pCi/L	03/21/23 16:16	7440-14-4	



QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

QC Batch: 567003 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92648448001, 92648448002, 92648448003, 92648448004, 92648448005

METHOD BLANK: 2753256 Matrix: Water

Associated Lab Samples: 92648448001, 92648448002, 92648448003, 92648448004, 92648448005

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.0414 ± 0.0994 (0.240) C:92% T:NA
 pCi/L
 02/20/23 10:18

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.



QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

QC Batch: 567029 Analysis Method: EPA 9320

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

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92648448001, 92648448002, 92648448003, 92648448004, 92648448005

METHOD BLANK: 2753383 Matrix: Water

Associated Lab Samples: 92648448001, 92648448002, 92648448003, 92648448004, 92648448005

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.482 ± 0.308 (0.572) C:92% T:84%
 pCi/L
 02/06/23 14:47

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.



QUALIFIERS

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

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

Date: 03/23/2023 09:28 AM

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Hammond Pooled - RADS

Pace Project No.: 92648448

Date: 03/23/2023 09:28 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92648448001	HAM-HGWA-3	EPA 9315	567003		
92648448002	HAM-HGWA-2	EPA 9315	567003		
92648448003	HAM-HGWA-43D	EPA 9315	567003		
92648448004	HAM-HGWA-44D	EPA 9315	567003		
92648448005	HAM-HGWA-1	EPA 9315	567003		
92648448001	HAM-HGWA-3	EPA 9320	567029		
92648448002	HAM-HGWA-2	EPA 9320	567029		
92648448003	HAM-HGWA-43D	EPA 9320	567029		
92648448004	HAM-HGWA-44D	EPA 9320	567029		
92648448005	HAM-HGWA-1	EPA 9320	567029		
92648448001	HAM-HGWA-3	Total Radium Calculation	575358		
92648448002	HAM-HGWA-2	Total Radium Calculation	575358		
92648448003	HAM-HGWA-43D	Total Radium Calculation	575358		
92648448004	HAM-HGWA-44D	Total Radium Calculation	575358		
92648448005	HAM-HGWA-1	Total Radium Calculation	575358		

Pace	DC#_Title: ENV-FRM-HU	JN1-0083	v02_S	Sample (Condition Upon Receipt
HERE SINGS	Effective Date: 11/14/2022				
Asheville Sample Conditupon Receipt Courier: Commercial Custody Seal Pres Packing Material: Thermometer: R Gur Cooler Temp: Cooler Temp Corr USDA Regulated S	Fed Ex	9 0.0	Yes	□ci □No e □ O	Project #: WO#: 92648448
Oid samples ori (check maps)? [ginate in a quarantine zone within the	United States	: CA, NY,	or SC	Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No
Chain of Custo	ody Present?	Yes	□No	□N/A	Comments/Discrepancy:
Samples Arriv	red within Hold Time?	☐ des	□No	□N/A	2.
Short Hold Tir	me Analysis (<72 hr.)?	□Yes	JNo	□N/A	3.
	ound Time Requested?	□Yes	No	□N/A	4.
Sufficient Volu					
Correct Conta		☐ Yes	□No	□N/A	5.
	ainers Used?	ØYes □ ∀es	□No □No	□n/a □n/a	6.
Containers Int	act?	□ Yes	□No	□N/A	7.
Dissolved anal	lysis: Samples Field Filtered?	□Yes	□No	IN/A	8.
Sample Labels		₽res	□No	□N/A	9.
-Includes Da	ate/Time/ID/Analysis Matrix:	W			
Headspace in 1	VOA Vials (>5-6mm)?	□Yes	□No	₹N/A	10.
Trip Blank Pres		□Yes	□No	DA/A	11.
Trip Blank Cus	tody Seals Present?	□Yes	□No	- NAME	-
MMENTS/SAMPLE	DISCREPANCY				Field Data Required? ☐ Yes ☐ No
7-6-1				L,	Lot ID of split containers:
NT NOTIFICATION/	RESOLUTION				
erson contacted:	_		_	Date/Time:	в
Project Manager	r SCURF Review:				Date:

Project Manager SRF Review:

Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

Project #

WO#: 92648448

PM: BV

Due Date: 02/14/23

CLIENT: GA-GA Power

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

***Check all unpreserved Nitrates for chlorine

tem#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG15-1 liter Amber H2504 (pH < 2)	AG35-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na25203 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastig (N/A - lab)	BPIN	BP3R-250 mL Plastic (NH2)2504 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	1	1	1		1	X	1	1			1		1	1	1									A	1			
2	1				1	1	1	1			1		1	1	1									1	1			
3	/				/	1	1	/			1		1	/	1									/	1			
4	1				1	1	1	1			/		/	/	1	7								1				
5	1				1	1	1	1			1		/	/	1									/	1			
6					/	1	/	/					7	/	1									1	1			
7	1				1	/	/				1		/	/	1									1	1			
8	1				/	1	/	1			1		7	1	1									1	1			
9	1		-		1	1	1	1			1		1	1	1									1	1			
10					/	7	1	1					7	/	1					-		-		1	1			
11	/					1	1				1		1	1	1						-			1	1			
12					1			1					/	7										1	1			

		pH Ac	ljustment Log for Pres	erved Samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot#
		1				

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

F-ALL-Q-020rev.07, 15-Feb-2007

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

squired Clie	Required Client Information:	Required Project Information:	formation:				Section C Invoice Information	rmatton					Page:		ŏ	,-
Company:	GA Power	Report To: SCS Contacts	onfacts				Attention:	South	Southern Co.				_			
Address:	Atlanta, GA	Copy To: Geosy	Geosyntec Contacts	sts			Company Name	leme								
		Task	Task Code: HAM-CCR-AS	SR-A	SSMT-2023S1		Address:					KEGOLAIO	31		1	
Email To:	SCS Confacts	Purchasa Ordas No.										NPDES	GROUN	GROUND WATER		DRINKING WATER
Phone	200						Reference:					TSU D	☐ RCRA	0	OTHER	- 608
25		-	Plant Hammond Pool	oloo Poole	ed Upgradient		Pace Projec		Nicole D'Oleo			Sits Location	L	100		STATE OF THE PARTY
d pegsenb	Requested Date Date/TAT: 10 Day	Project Number:					Pace Profile #:	* 10839				STATE	Ø €	1		
Section		-				-	-				Requested Analysis Filtered (Y/N)	nalysis Filt	(N/A) pere	No.	Li Namine	A STATE OF THE PERSON NAMED IN
Requi	lisht information	CODE PER PER	Jun	COLLE	ECTED			Presen	Preservatives	N/A	z					
	WATER WASTE WATER	poo p	СОМРОВПЕ	F	COMPOSITE	СПО								(
Š	SAMPLE ID on the control of the cont	CODE (see va	ARDE (G=GRA			EMP AT COLLE	VTAINERS Ned	-		JeeT els atshu? ,ebhoo	elstem VI bra			Chlorine (Y/N	92048448	344
# Wall		XIRTAM	DATE	TIME	PATE	FEAMPLET	esendu	101 100 ² 1 ² 20°	HOEN Na ₂ S ₂ O ₃ Ionartienol	Part That States						
	HAM-HGWA-3	MG W	G 1030023	_	1	+	1 0	1 0	7	İ	14	1	1	-	ace Proje	Pace Project No./ Lab I.D.
2		1		\perp	TJ 1/23/2023	-	+	,	-	×	×		1	2	Hd	pH = 7.32
3					-					1	-	+	1	+		
4								F		L		#	-	+		
9									-				+	+		
9	The second secon							-	-	1		+	-	+		
7					TJ 1/28/2023	023	1	-	-	L		-	+	+		
								1	/	L	-	+	1	+		
6							-	F	-	1	1		1	+		
10					-			F		I		#	1	+		
7					-		F		+	1	-		1	1		
12					-	F			-	L		ŧ	+	4	1	
	ADDITIONAL COMMENTS	RELINGI	RELINGUISHED BY / AFFILIATION	VFILLATIO	_	DATE	TIME		ACCEPTE	ACCEPTED BY / AFFILIATION	FILATION	PATE	- In		and a series	
411-C	1-14M-CCR-455MT-202351	Komes 1	Hessly	Committee	1	802/1,211	1000	. ILyen	1 .	7 13	Pape	17-11023	-	-		2
		leyan	W.1/19-	Phu		124/1013	1238	6	me	#	ing	RAKE	1738			
															H	
•				SAMPLER	SAMPLER NAME AND SIGNATURE	HIGHATUR	13.5							nob	Yt Joloc	
			-4	5	SIGNATURE of SAMPLER:	AMPLER	1	Conno	200	D	/ Geosyntec Consu	/ Geosyntec Consultants, Inc	sultants, Inc	Temp in	Custoc	(N/Y)
)			2	MADDAM:	172366	M	9	S	BS

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1	Pace
1-	acc
	ARREST PERSON

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples: Asheville	untersville		Raleigh[7 1	Aechanicsville☐ Atlanta Kernersville☐
Sample Condition Client Name: Upon Receipt			D	oject	# WO#: 92648448
Courier: Fedex DUPS Commercial Pace	USPS Other:_	T	Clie	_ ′	PM: BV Due Date: 02/09/23 CLIENT: GA-GA Power
71		Yes None	□No	ner	Date/Initials Person Examining Contents: 1/26/23 Biological Tissue Frozen? Tm
Cooler Temp: 1 3 Correction Factor: Add/Subtract (°C): 1 - 3 USDA Regulated Soil (N/A, water sample) Did samples originate in a quarantine zone within the U	Type of Ice:) , NY, c		1	□None Temp should be above freezing to 6°C □Samples out of temp criteria. Samples on ice, cooling process has begun Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? □Yes □No
(check maps)? Yes No			-	·	Comments/Discrepancy:
Chain of Custody Present?	Ves C	No	□N/A	1.	
Samples Arrived within Hold Time?]No	□N/A	2.	
Short Hold Time Analysis (<72 hr.)?		No.	□N/A	3.	
		/	723,79	4.	· · · · · · · · · · · · · · · · · · ·
Rush Turn Around Time Requested?	/	Νo	□N/A	4.	
Sufficient Volume?	□Yes [No	□N/A	5.	
Correct Containers Used? -Pace Containers Used?		□No □No	□N/A □N/A	6.	
Containers Intact?	☑Yes [□No	□N/A,	7.	
Dissolved analysis: Samples Field Filtered?	□Yes [□No	DAI/A	8.	
Sample Labels Match COC?	☐Yes [□No	□N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	26/ u	Q			
Headspace in VOA Vials (>5-6mm)?	☐Yes [No	ZINA	10.	
Trip Blank Present?		No	ØN/A	11.	·
Trip Blank Custody Seals Present?	□Yes [No	TIN/A		
COMMENTS/SAMPLE DISCREPANCY	4.00				Field Data Required? ☐Yes ☐No
			- 1	ot ID o	f split containers:
CLIENT NOTIFICATION/RESOLUTION					
Person contacted:			Date/Time		
Project Manager SCURF Review:					Date:
Project Manager SRF Review:				_	Date:



DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

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

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

- **Bottom half of box is to list number of bottles
- ***Check all unpreserved Nitrates for chlorine

WO#: 92648448

PM: BV

Project #

Due Date: 02/09/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (CI-)	8P3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	8P1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (CI-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP48-125 mL Plastic NaOH (pH > 12) (CI-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (CI-)	AG1H- 1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (CI-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H25O4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCI (N/A)	VG9T-40 mL VOA Na25203 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP27-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (CI-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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		pH Ac	justment Log for Pres	erved Samples		
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

Received on DATE Signed C/ 21/ 70'23

PRINT Name of SAMPLER: The "L'S HOSY" / Corne (Co. A

SIGNATURE of SAMPLER:

F-ALL-Q-020rev.07, 15-Feb-2007

(AUG)

Custody (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. At referent fields must be completed accurately

Page: REGULATORY AGENCY Section C Invoice information: Attention: Southern Co. Company Name. Copy To: Geosyntec Contacts Section B Required Project Information: Report To: SCS Contacts Pace Analytical

Section A Required Clent Information: Company: GA Power

Atlanta, GA

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Important Moor, By edyring the form you are accepting Paca's HET 30 day perment terms and agreeing to less charges of 1,5% per month for any involces not paid within 30 days.

VALIDATION REPORTS



180A Market Place Boulevard Knoxville, TN 37922 PH 865.330.0037 www.geosyntec.com

Memorandum

Date: May 24, 2023

To: Whitney Law

From: Amani Royce

CC: K. Henderson

Subject: Stage 2A Data Validation - Level II Data Deliverable - Pace

Analytical Services, LLC Project Number 92648446

SITE: Plant Hammond AP-1/AP-2/AP-3 (Pooled Upgradient)

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five aqueous samples, collected 23 and 24 January 2023, 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 are usable for supporting project objectives.

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

• US EPA Region IV Data Validation Standard Operating Procedures (US EPA Region IV, September 2011);

DVR 92648446 Final Review: K Henderson 06/07/2023

- 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
92648446001	HAM-HGWA-3
92648446002	HAM-HGWA-2
92648446003	HAM-HGWA-43D

Laboratory ID	Client ID
92648446004	HAM-HGWA-44D
92648446005	HAM-HGWA-1

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

The sample collection time was not listed on the chain of custody (COC) for sample HAM-HGWA-1. The laboratory assigned collection times of 9:35.

The laboratory report revised on 5 May 2023 was used for data validation.

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 (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) 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). Four method blanks were reported (batches 752651, 752956, 752599, and 753097). Metals were not detected in the method blanks above the method detection limits (MDLs).

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

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

One sample set specific MS/MSD pair was reported for calcium by US EPA method, using sample HAM-HGWA-3. The relative percent difference (RPD) result was within the laboratory specified acceptance criteria, and the recoveries of calcium in the MS/MSD pair using sample HAM-HGWA-3 were low and outside of the laboratory specified acceptance criteria. Since the calcium concentration in sample HAM-HGWA-3 was greater than four times the spike concentration, no qualifications were applied to the data.

One batch MS/MSD pair was reported for calcium. Since this was batch QC, the result does 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 HAM-HGWA-3. The recovery and RPD results were within the laboratory specified acceptance criteria.

DVR 92648446 Final Review: K Henderson 06/07/2023

One batch MS/MSD pair was reported for metals by US EPA method 6020B. Since this was batch QC, the result does not affect the samples in this data set and qualifications were not applied to the data.

1.5 <u>Laboratory Control Sample (LCS)</u>

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.

1.6 **Equipment Blank**

An equipment blank was not collected with the sample set.

1.7 Field Blank

A field blank was not collected with the sample set.

1.8 Field Duplicate

A field duplicate sample was not collected with the sample set.

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 (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) 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). One method blank was reported (batch 752854). Mercury was not detected in the method blank above the MDL.

2.4 Matrix Spike/Matrix Spike Duplicate

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

One batch MS/MSD pair was reported. Since this was batch QC, the result does not affect the samples in this data set and qualifications were not applied to the data.

2.5 <u>Laboratory Control Sample</u>

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

DVR 92648446 Final Review: K Henderson 06/07/2023

Equipment Blank

An equipment blank was not collected with the sample set.

2.7 Field Blank

A field blank was not collected with the sample set.

2.8 Field Duplicate

A field duplicate sample was not collected with the sample set.

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 (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) 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). One method blank was reported for TDS (batch 752254) and three method blanks were reported for the anions (batches 751618, 752456, and 752690). 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).

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 <u>Laboratory Control Sample</u>

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

3.6 <u>Laboratory Duplicate</u>

Two 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**

An equipment blank was not collected with the sample set.

3.8 Field Blank

A field blank was not collected with the sample set.

3.9 Field Duplicate

A field duplicate sample was not collected with the sample set.

3.10 Sensitivity

The samples were reported to the MDLs for the anions and the reporting limit (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.

DVR 92648446 Final Review: K Henderson 06/07/2023

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



180A Market Place Boulevard Knoxville, TN 37922 PH 865.330.0037 www.geosyntec.com

Memorandum

Date: June 13, 2023

To: Whitney Law

From: Amani Royce

CC: K. Henderson

Subject: Stage 2A Data Validation - Level II Data Deliverable - Pace

Analytical Services, LLC Project Number 92648448

SITE: Plant Hammond AP-1/AP-2/AP-3 (Pooled Upgradient RADS)

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of five aqueous samples, collected 23 and 24 January 2023, 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.

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
92648448001	HAM-HGWA-3
92648448002	HAM-HGWA-2
92648448003	HAM-HGWA-43D

Laboratory ID	Client ID
92648448004	HAM-HGWA-44D
92648448005	HAM-HGWA-1

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

The sample collection time was not listed on the COC for sample HAM-HGWA-1. The laboratory assigned collection time of 9:35.

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 (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) signifies areas where issues were raised during the course of the validation review and should be considered to determine any impact on data quality and usability.

- ✓ Overall Assessment
- ✓ Holding Times
- ✓ Method Blank
- ✓ Matrix Spike/Matrix Spike Duplicate
- ✓ Laboratory Control Sample
- ✓ Laboratory Duplicate
- ✓ Tracers and Carriers
- ✓ Equipment Blank
- ✓ Field Blank
- ✓ Field Duplicate
- ✓ Sensitivity
- ✓ Electronic Data Deliverables Review

1.1 Overall Assessment

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

1.2 Holding Times

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

1.3 Method Blank

Method blanks were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One method blank was reported for the radium-228 data (batch 567029). One method blank was reported for the radium-226 data (batch 567003). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

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

MS/MSD pairs were not reported with the data.

1.5 <u>Laboratory Control Sample (LCS)</u>

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

1.6 Laboratory Duplicate

One batch laboratory duplicate was reported for radium-226 and one batch laboratory duplicate was reported for radium-228. 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

An equipment blank was not collected with the sample set.

1.9 Field Blank

A field blank was not collected with the sample set.

Final Review: K Henderson 06/26/2023

1.10 Field Duplicate

A field duplicate was not collected with the sample set.

1.11 Sensitivity

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

1.12 Electronic Data Deliverable (EDD) Review

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

* * * * *

Final Review: K Henderson 06/26/2023

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



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Memorandum

Date: May 24, 2023

To: Whitney Law

From: Amani Royce

CC: K. Henderson

Subject: Stage 2A Data Validation - Level II Data Deliverable - Pace

Analytical Services, LLC Project Number 92649377

SITE: Plant Hammond AP-1

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eighteen aqueous samples, one field duplicate, one field blank, and one equipment blank, collected 26 and 27 January 2023 and 1 February 2023, 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. If there are results with two or more different qualifications due to multiple QC failures, the final qualification is reconciled in the electronic data deliverable (EDD) with 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
92649377001	HAM-HGWC-9
92649377002	HAM-HGWC-11
92649377003	HAM-HGWC-12
92649377004	HAM-HGWC-13
92649377005	HAM-MW-5
92649377006	HAM-MW-6
92649377007	HAM-MW-7
92649377008	HAM-MW-19
92649377009	HAM-MW-20
92649377010	HAM-MW-24D
92649377011	HAM-MW-25D

Laboratory ID	Client ID
92649377012	HAM-MW-26D
92649377013	HAM-MW-28D
92649377014	HAM-MW-29
92649377015	HAM-AP-1-FD-01
92649377016	HAM-HGWC-7
92649377017	HAM-HGWC-10
92649377018	HAM-MW-27D
92649377019	HAM-HGWC-8
92649377020	HAM-AP-1-EB-01
92649377021	HAM-AP-1-FB-01

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

The final receipt signature, affiliation, date, and time were not recorded on the chain of custody (COC) for the samples collected on 1 February 2023.

The laboratory report revised on 27 April 2023 was used for data validation.

The results flagged as "ND" in the 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 (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) 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). Four method blanks were reported (batches 762460, 755531, 753122, and 755827). Metals were not detected in the method blanks above the method detection limits (MDLs).

1.4 <u>Matrix Spike/Matrix Spike Duplicate (MS/MSD)</u>

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 HAM-MW-19. 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 HAM-MW-19 were high and outside of the laboratory specified acceptance criteria. Since the

DVR 92649377 Final Review: K Henderson 06/07/2023

calcium concentration in sample HAM-MW-19 was greater than four times the spike concentration, no qualifications were applied to the data.

One batch MS/MSD pair was reported for calcium. Since this was a batch QC, the results do not affect the samples in this data set and qualifications were not applied to the data.

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 <u>Laboratory Control Sample (LCS)</u>

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.

1.6 **Equipment Blank**

One equipment blank was collected with the sample set, HAM-AP-1-EB-01. Metals were not detected in the equipment blank above the MDLs, with the following exception.

Boron was detected in the equipment blank at an estimated concentration greater than the MDL and less than the reporting limit (RL). Since the estimated boron 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, HAM-AP-1-FB-01. Metals were not detected in the field blank above the MDLs, with the following exception.

Boron was detected in the field blank at an estimated concentration greater than the MDL and less than the RL. Therefore, the estimated boron concentrations in samples HAM-MW-7 and HAM-AP-1-EB-01 were U qualified as not detected at the RL. Since boron was detected at concentrations greater than the RL in the remaining associated samples, no additional qualifications were applied to the data.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
HAM-MW-7	Boron	0.033	J	0.04	U	3

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	Validation Result (mg/L)	Validation Qualifier*	Reason Code**
HAM-AP-1-EB-01	Boron	0.022	J	0.04	U	3

mg/L-milligrams per liter

1.8 <u>Field Duplicate</u>

One field duplicate sample was collected with the sample set, HAM-AP-1-FD-01. Acceptable precision (RPD \leq 30%) was demonstrated between the field duplicate and the original sample, HAM-HGWC-11, with the following exception.

Chromium was detected at an estimated concentration greater than the MDL in sample HAM-HGWC-11 and not detected in field duplicate HAM-AP-1-FD-01, resulting in a noncalculable RPD between the results. Therefore, the estimated chromium concentration in sample HAM-HGWC-11 was J qualified as estimated, and the non-detect chromium result in field duplicate HAM-AP-1-FD-01 was UJ qualified as estimated less than the MDL.

Sample	Analyte	Laboratory Result (mg/L)	Laboratory Flag	RPD	Validation Result (mg/L)	Validation Qualifier	Reason Code
HAM-HGWC-11	Chromium	0.0012	J	NC	0.0012	J	7
HAM-AP-1-FD-01	Chromium	0.0011	U		0.0011	UJ	7

mg/L-milligrams per liter

NC-Non-calculable

1.9 Sensitivity

The samples were reported to the MDLs. Elevated non-detect results were reported due to dilutions analyzed.

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.

J- Estimated concentration greater than the MDL and less than the RL.

^{*} Validation qualifiers are defined in Attachment 1 at the end of this report.

^{**} Reason codes are defined in Attachment 2 at the end of this report.

U- Not detected at or above RL.

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

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 (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) 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). Two method blanks were reported (batches 754635 and 755636). 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). Two sample set specific MS/MSD pairs were reported, using

samples HAM-HGWC-9 and HAM-MW-28D. The recovery and RPD results were within the laboratory specified acceptance criteria.

2.5 <u>Laboratory Control Sample</u>

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

Equipment Blank

One equipment blank was collected with the sample set, HAM-AP-1-EB-01. Mercury was not detected in the equipment blank above the MDL.

2.7 Field Blank

One field blank was collected with the sample set, HAM-AP-1-FB-01. 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, HAM-AP-1-FD-01. Acceptable precision (RPD \leq 30%) was demonstrated between the field duplicate and the original sample, HAM-HGWC-11.

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 (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) 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). Three method blanks were reported for TDS (batches 752849, 753439, and 754118) and three method blanks were reported for the anions (batches 752813, 753396, and 754257). The wet chemistry parameters were not detected in the method blanks above the MDLs.

3.4 Matrix Spike/Matrix Spike Duplicate

MS/MSDs were analyzed at the proper frequency for the number and types of samples analyzed (one per batch of 20 samples). One sample set specific MS/MSD pair was reported for anions, using sample HAM-MW-19. The recovery and RPD results were within the laboratory specified acceptance criteria.

DVR 92649377 Final Review: K Henderson 06/07/2023

Five 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 <u>Laboratory Control Sample</u>

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

3.6 <u>Laboratory Duplicate</u>

Three sample set specific laboratory duplicates were reported for TDS, using samples HAM-MW-7, HAM-HGWC-8, and HAM-HGWC-10. The RPD results were within the laboratory specified acceptance criteria.

Three 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, HAM-AP-1-EB-01. The wet chemistry parameters were not detected in the equipment blank above the MDLs.

3.8 Field Blank

One field blank was collected with the sample set, HAM-AP-1-FB-01. The wet chemistry parameters were not detected in the field blank above the MDLs, with the following exception.

TDS (28 mg/L) was detected in the field blank at a concentration greater than the RL. Therefore, the TDS concentration in samples HAM-MW-7, HAM-HGWC-10 and HAM-MW-27D were J+qualified as estimated with high biases. Since TDS was either not detected or detected at concentrations 10x greater than the field blank contamination in the remaining samples, no additional qualifications were applied to the data.

Sample ID	Compound	Compound Laboratory Result (mg/L) Laboratory Flag Validation Result (mg/L)			Validation Qualifier	Reason Code
HAM-MW-7	TDS	89	NA	89	J+	3
HAM-HGWC-10	TDS	188	NA	188	J+	3
HAM-MW-27D	TDS	255	NA	255	J+	3

mg/L-milligrams per liter

NA-Not Applicable

3.9 Field Duplicate

One field duplicate sample was collected with the sample set, HAM-AP-1-FD-01. Acceptable precision (RPD \leq 30%) was demonstrated between the field duplicate and the original sample, HAM-HGWC-11.

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 <u>Electronic Data Deliverable Review</u>

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

* * * * *

ATTACHMENT 1 DATA VALIDATION QUALIFIER DEFINITIONS AND INTERPRETATION KEY

Assigned by Geosyntec's Data Validation Team

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result."
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected at or 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.

DVR 92649377 Final Review: K Henderson 06/07/2023

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



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Memorandum

Date: June 1, 2023

To: Whitney Law

From: Amani Royce

CC: K. Henderson

Subject: Stage 2A Data Validation - Level II Data Deliverable - Pace

Analytical Services, LLC Project Number 92649924

SITE: Plant Hammond AP-1 (RADS)

INTRODUCTION

This report summarizes the findings of the Stage 2A data validation of eighteen aqueous samples, one field duplicate, one field blank, and one equipment blank, collected 26 and 27 January 2023 and 1 February 2023, 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.

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
92649924001	HAM-HGWC-9
92649924002	HAM-HGWC-11
92649924003	HAM-HGWC-12
92649924004	HAM-HGWC-13
92649924005	HAM-MW-5
92649924006	HAM-MW-6
92649924007	HAM-MW-7
92649924008	HAM-MW-19
92649924009	HAM-MW-20
92649924010	HAM-MW-24D
92649924011	HAM-MW-25D

Laboratory ID	Client ID
92649924012	HAM-MW-26D
92649924013	HAM-MW-28D
92649924014	HAM-MW-29
92649924015	HAM-AP-1-FD-01
92649924016	HAM-HGWC-7
92649924017	HAM-HGWC-10
92649924018	HAM-MW-27D
92649924019	HAM-HGWC-8
92649924020	HAM-AP-1-EB-01
92649924021	HAM-AP-1-FB-01

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

The final receipt signature, affiliation, date, and time were not recorded on the chain of custody (COC) for the samples collected on 1 February 2023.

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 (\checkmark) indicates an area of review in which the data were acceptable. A preceding crossed circle (\otimes) 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 564182, 564276, and 565965). Three method blanks were reported for the radium-226 data (batches 564181, 564275, and 565964). Radium-226 and radium-228 were not detected in the method blanks above the minimum detectable concentrations (MDCs).

1.4 Matrix Spike/Matrix Spike Duplicate

MS/MSD pairs were not reported with the data.

1.5 <u>Laboratory Control Sample (LCS)</u>

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 <u>Laboratory Duplicate</u>

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

1.7 Tracers and Carriers

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

1.8 Equipment Blank

One equipment blank was collected with the sample set, HAM-AP-1-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, HAM-AP-1-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, HAM-AP-1-FD-01. Acceptable precision (RER $(1\sigma) < 3$) was demonstrated between the field duplicate and the original sample, HAM-HGWC-11.

1.11 Sensitivity

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

1.12 Electronic Data Deliverable (EDD) Review

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

* * * * *

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

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for but was not detected at or above the reported sample quantitation limit. Upon application of the U qualifier to a reported result, the definition changes to "not detected at or above the reported result".
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.
- J- The analyte was positively identified; however, the associated numerical value is likely to be lower than the concentration of the analyte in the sample due to negative bias of associated QC or calibration data or attributable to matrix interference.
- UJ The analyte was not detected at or 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

Test Date / Time: 1/24/2023 9:00:17 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: 22.49 ft
Total Depth: 32.49 ft

Initial Depth to Water: 10.05 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 27.49 ft Estimated Total Volume Pumped:

4 liter

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.63 ft Instrument Used: Aqua TROLL 400

Serial Number: 883533

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions: Sunny, 30 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/24/2023 9:00 AM	00:00	6.90 pH	13.36 °C	707.06 μS/cm	1.45 mg/L	1.50 NTU	-14.6 mV	10.55 ft	200.00 ml/min
1/24/2023 9:05 AM	05:00	6.76 pH	15.30 °C	684.25 μS/cm	0.82 mg/L	1.12 NTU	-38.1 mV	10.68 ft	200.00 ml/min
1/24/2023 9:10 AM	10:00	6.74 pH	15.59 °C	674.83 μS/cm	0.40 mg/L	0.85 NTU	-53.2 mV	10.69 ft	200.00 ml/min
1/24/2023 9:15 AM	15:00	6.75 pH	15.71 °C	670.89 μS/cm	0.17 mg/L	0.70 NTU	-62.5 mV	10.65 ft	200.00 ml/min
1/24/2023 9:20 AM	20:00	6.76 pH	15.84 °C	667.23 μS/cm	0.10 mg/L	0.57 NTU	-69.0 mV	10.67 ft	200.00 ml/min
1/24/2023 9:25 AM	25:00	6.75 pH	15.88 °C	664.63 µS/cm	0.07 mg/L	0.48 NTU	-73.7 mV	10.68 ft	200.00 ml/min
1/24/2023 9:30 AM	30:00	6.76 pH	15.98 °C	661.32 μS/cm	0.06 mg/L	0.84 NTU	-76.5 mV	10.68 ft	200.00 ml/min

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

Test Date / Time: 1/24/2023 8:50:01 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: 7.96 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 22.95 ft Estimated Total Volume Pumped:

9 liter

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 8.05 ft Instrument Used: Aqua TROLL 400

Serial Number: 966090

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions: Sunny 28 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/24/2023 8:50 AM	00:00	5.37 pH	15.92 °C	216.37 μS/cm	1.95 mg/L	74.60 NTU	164.4 mV	8.05 ft	200.00 ml/min
1/24/2023 8:55 AM	05:00	5.30 pH	16.05 °C	221.01 μS/cm	0.58 mg/L	16.40 NTU	133.9 mV	8.05 ft	200.00 ml/min
1/24/2023 9:00 AM	10:00	5.29 pH	16.10 °C	222.99 μS/cm	0.41 mg/L	9.97 NTU	119.9 mV	8.05 ft	200.00 ml/min
1/24/2023 9:05 AM	15:00	5.27 pH	16.19 °C	221.63 μS/cm	0.36 mg/L	6.72 NTU	109.2 mV	8.05 ft	200.00 ml/min
1/24/2023 9:10 AM	20:00	5.25 pH	16.19 °C	220.30 μS/cm	0.48 mg/L	5.21 NTU	101.6 mV	8.05 ft	200.00 ml/min
1/24/2023 9:15 AM	25:00	5.24 pH	16.28 °C	219.03 μS/cm	0.59 mg/L	4.43 NTU	95.7 mV	8.05 ft	200.00 ml/min
1/24/2023 9:20 AM	30:00	5.20 pH	16.36 °C	221.26 μS/cm	0.29 mg/L	3.35 NTU	93.3 mV	8.05 ft	200.00 ml/min
1/24/2023 9:25 AM	35:00	5.22 pH	16.37 °C	221.85 μS/cm	0.28 mg/L	2.68 NTU	87.9 mV	8.05 ft	200.00 ml/min
1/24/2023 9:30 AM	40:00	5.22 pH	16.38 °C	221.37 μS/cm	0.41 mg/L	2.49 NTU	86.4 mV	8.05 ft	200.00 ml/min

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

Test Date / Time: 1/23/2023 4:14:39 PM

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: 34.51 ft Total Depth: 44.51 ft

Initial Depth to Water: 7.53 ft

Pump Type: Bladder Tubing Type: Poly

> Pump Intake From TOC: 39.51 ft **Estimated Total Volume Pumped:**

6 liter

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min

Final Draw Down: 0 ft

Instrument Used: Aqua TROLL 400

Serial Number: 966090

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/23/2023 4:14 PM	00:00	7.24 pH	15.85 °C	463.88 μS/cm	2.68 mg/L	7.83 NTU	-31.1 mV	7.53 ft	200.00 ml/min
1/23/2023 4:19 PM	05:00	7.31 pH	16.42 °C	459.57 μS/cm	0.98 mg/L	7.64 NTU	-49.6 mV	7.53 ft	200.00 ml/min
1/23/2023 4:24 PM	10:00	7.32 pH	16.54 °C	459.25 μS/cm	0.65 mg/L	4.84 NTU	-82.6 mV	7.53 ft	200.00 ml/min
1/23/2023 4:29 PM	15:00	7.32 pH	16.55 °C	459.71 μS/cm	0.38 mg/L	3.16 NTU	-88.0 mV	7.53 ft	200.00 ml/min
1/23/2023 4:34 PM	20:00	7.33 pH	16.67 °C	458.35 μS/cm	0.28 mg/L	2.46 NTU	-89.3 mV	7.53 ft	200.00 ml/min
1/23/2023 4:39 PM	25:00	7.34 pH	16.59 °C	457.27 μS/cm	0.23 mg/L	2.48 NTU	-58.6 mV	7.53 ft	200.00 ml/min
1/23/2023 4:44 PM	30:00	7.32 pH	16.58 °C	457.27 μS/cm	0.20 mg/L	1.02 NTU	-87.8 mV	7.53 ft	200.00 ml/min

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

Test Date / Time: 1/24/2023 10:20:06 AM

Project:GP-Plant Hammond **Operator Name:** Connor Cain

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: 10.02 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 22.95 ft Estimated Total Volume Pumped:

6 liter

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 13.52 ft Instrument Used: Aqua TROLL 400

Serial Number: 966090

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 35 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow	
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5		
1/24/2023	00:00	7.50 pH	15.38 °C	453.99 µS/cm	1.76 mg/L	4.94 NTU	-100.1 mV	10.89 cm	200.00 ml/min	
10:20 AM	00.00	оо р	10.00		0g/ =			10.00 0111	200100 1111111111	
1/24/2023	05:00	7.56 pH	16.19 °C	451.81 µS/cm	0.95 mg/L	8.69 NTU	-115.8 mV	11.73 ft	200.00 ml/min	
10:25 AM	03.00	05.00	7.50 pm	10.19 C	401.01 μο/οπ	0.55 Hig/L	0.001110	110.01114	11.7010	200.00 111/111111
1/24/2023	10:00	7.58 pH	16.37 °C	450.15 µS/cm	0.92 mg/L	6.38 NTU	-114.4 mV	12.50 ft	200.00 ml/min	
10:30 AM	7.36 pri	7.50 pm	10.57	400.10 до/оп	0.02 mg/L	0.50 1410	114.4111	12.50 10	200.00 1111/111111	
1/24/2023	15:00	7.58 pH	16.41 °C	451.67 µS/cm	0.67 mg/L	5.04 NTU	-118.5 mV	12.97 ft	200.00 ml/min	
10:35 AM	13.00	7.36 pm	10.41 C	451.07 μ5/6111	0.67 Hig/L	5.04 1010	-110.51110	12.97 11	200.00 1111/111111	
1/24/2023	20:00	7.57 pH	16.43 °C	442.00 µS/cm	0.61 mg/L	4.93 NTU	-115.4 mV	13.27 ft	200.00 ml/min	
10:40 AM	20.00	7.37 pm	10.43 C	442.00 μ3/cm	0.01 mg/L	4.93 1110	-113.41110	13.27 11	200.00 111/111111	
1/24/2023	25:00	7 55 pU	16.59 °C	441.09 uS/om	0.57 mg/L	4.49 NTU	-112.1 mV	13.43 ft	200.00 ml/min	
10:45 AM	25.00	7.55 pH	10.59 C	441.08 μS/cm	0.57 mg/L	4.49 NTU	-112.1 IIIV	13.43 IL	200.00 1111/111111	
1/24/2023	20.00	7 56 n∐	16.46 °C	437.56 µS/cm	0.67 mg/L	3.92 NTU	-111.9 mV	13.52 ft	200.00 ml/min	
10:50 AM	30:00	7.56 pH	16.46 °C	437.30 µ3/Cm	U.O7 HIIG/L	3.92 N I U	-111.91110	13.32 11	200.00 1111/111111	

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

Test Date / Time: 1/24/2023 9:23:00 AM

Project: GP-Plant Hammond **Operator Name**: Thomas Kessler

Location Name: HGWA-44D

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 103.5 ft Total Depth: 113.5 ft

Initial Depth to Water: 10.72 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 103.5 ft Estimated Total Volume Pumped:

10 liter

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 4.03 ft Instrument Used: Aqua TROLL 400

Serial Number: 850724

Test Notes:

Five bottles: Full app. III and IV.

Weather Conditions:

Foggy, 30 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/24/2023 9:23 AM	00:00	8.16 pH	12.41 °C	55.30 μS/cm	1.94 mg/L	67.00 NTU	11.8 mV	10.95 ft	200.00 ml/min
1/24/2023 9:28 AM	05:00	8.20 pH	12.90 °C	54.41 μS/cm	1.25 mg/L	71.00 NTU	-37.5 mV	11.30 ft	200.00 ml/min
1/24/2023 9:33 AM	10:00	8.20 pH	12.94 °C	54.45 μS/cm	0.99 mg/L	12.80 NTU	-61.7 mV	11.70 ft	200.00 ml/min
1/24/2023 9:38 AM	15:00	8.21 pH	12.98 °C	54.49 μS/cm	0.89 mg/L	12.70 NTU	-75.1 mV	12.00 ft	200.00 ml/min
1/24/2023 9:43 AM	20:00	8.21 pH	13.21 °C	54.60 μS/cm	0.76 mg/L	26.50 NTU	-89.8 mV	12.30 ft	200.00 ml/min
1/24/2023 9:48 AM	25:00	8.21 pH	13.58 °C	54.65 μS/cm	0.95 mg/L	25.30 NTU	-118.5 mV	12.60 ft	200.00 ml/min
1/24/2023 9:53 AM	30:00	8.21 pH	13.70 °C	54.66 μS/cm	0.81 mg/L	31.20 NTU	-106.2 mV	12.80 ft	200.00 ml/min
1/24/2023 9:58 AM	35:00	8.20 pH	14.46 °C	55.60 μS/cm	0.71 mg/L	14.80 NTU	-131.2 mV	12.95 ft	200.00 ml/min
1/24/2023 10:03 AM	40:00	8.20 pH	14.70 °C	54.64 μS/cm	0.79 mg/L	16.80 NTU	-116.0 mV	13.10 ft	200.00 ml/min
1/24/2023 10:08 AM	45:00	8.20 pH	14.98 °C	54.61 μS/cm	0.67 mg/L	17.30 NTU	-118.3 mV	13.30 ft	200.00 ml/min
1/24/2023 10:13 AM	50:00	8.20 pH	15.19 °C	52.56 μS/cm	0.64 mg/L	16.30 NTU	-113.7 mV	13.35 ft	200.00 ml/min
1/24/2023 10:18 AM	55:00	8.21 pH	15.29 °C	54.53 μS/cm	0.47 mg/L	17.70 NTU	-121.9 mV	13.42 ft	200.00 ml/min
1/24/2023 10:23 AM	01:00:00	8.21 pH	15.26 °C	54.41 μS/cm	0.60 mg/L	14.20 NTU	-128.2 mV	13.55 ft	200.00 ml/min

1/24/2023	01:05:00	8.21 pH	15.33 °C	54.56 µS/cm	0.75 mg/L	11.14 NTU	-133.1 mV	14.70 ft	200.00 ml/min
10:28 AM	01.00.00	0.21 pm	10.00	04.00 μο/οπ	0.70 mg/L	11.141010	100.11111	14.7010	200:00 1111/111111
1/24/2023	01:10:00	8.21 pH	15.32 °C	54.58 µS/cm	0.49 mg/L	14.75 NTU	-135.2 mV	14.75 ft	200.00 ml/min
10:33 AM	01.10.00	0.21 pm	13.32 C	34.36 μ3/611	0.49 mg/L	14.73 1410	-100.2 1117	14.7311	200.00 1111/111111
1/24/2023	01:15:00	8.21 pH	15.41 °C	54.48 µS/cm	0.47 mg/L	9.05 NTU	-137.7 mV	14.75 ft	200.00 ml/min
10:38 AM	01.15.00	15.00 6.21 pm	15.41 C	34.46 μ3/cm	0.47 Hig/L	9.03 1110	-137.7 1110	14.7510	200.00 1111/111111
1/24/2023	01:20:00	8.21 pH	15.49 °C	54.36 µS/cm	0.35 mg/L	8.27 NTU	-141.0 mV	14.75 ft	200.00 ml/min
10:43 AM	01.20.00	0.21 pm	15.49 C	54.50 μ5/011	0.35 Hig/L	0.27 NTU	-141.01110	14./5 π	200.00 1111/111111
1/24/2023	01:25:00	8.21 pH	15.36 °C	54.54 µS/cm	0.42 mg/L	6.79 NTU	-141.9 mV	14.75 ft	200.00 ml/min
10:48 AM	01.25.00	ο.21 μπ	15.30 C	54.54 μ5/cm	0.42 Hig/L	0.79 N10	-141.91110	14.7511	200.00 1111/111111
1/24/2023	01:30:00	8.22 pH	15.16 °C	54.68 µS/cm	0.29 mg/L	4.41 NTU	-144.2 mV	14.75 ft	200.00 ml/min
10:53 AM	01.30.00	0.22 μπ	13.10 C	34.00 μ3/cm	0.29 Hig/L	4.41 N10	- 144.Z IIIV	14.7511	200.00 111/111111

Samples

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

Created using VuSitu from In-Situ, Inc.

Test Date / Time: 1/27/2023 12:05:23 PM

Project: GP-Plant Hammond **Operator Name:** Connor Cain

Location Name: HGWC-7
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 17.96 ft
Total Depth: 27.96 ft

Initial Depth to Water: 6.63 cm

Pump Type: Peri Tubing Type: Poly

Pump Intake From TOC: 22.96 ft Estimated Total Volume Pumped:

13 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: 966090

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions: Sunny, 40 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/27/2023 12:05 PM	00:00	7.22 pH	17.66 °C	712.83 µS/cm	2.14 mg/L	1.97 NTU	48.3 mV	6.70 ft	200.00 ml/min
1/27/2023 12:10 PM	05:00	7.24 pH	17.80 °C	724.38 μS/cm	0.84 mg/L	3.17 NTU	24.1 mV	6.71 ft	200.00 ml/min
1/27/2023 12:15 PM	10:00	7.24 pH	17.83 °C	727.05 μS/cm	0.48 mg/L	4.46 NTU	19.7 mV	6.72 ft	200.00 ml/min
1/27/2023 12:20 PM	15:00	7.25 pH	17.98 °C	724.22 μS/cm	0.53 mg/L	6.13 NTU	18.5 mV	6.72 ft	200.00 ml/min
1/27/2023 12:25 PM	20:00	7.25 pH	18.06 °C	723.13 μS/cm	0.28 mg/L	29.60 NTU	17.7 mV	6.72 ft	200.00 ml/min
1/27/2023 12:30 PM	25:00	7.25 pH	18.02 °C	723.01 µS/cm	0.27 mg/L	24.50 NTU	17.1 mV	6.72 ft	200.00 ml/min
1/27/2023 12:35 PM	30:00	7.25 pH	18.17 °C	722.86 μS/cm	0.24 mg/L	21.20 NTU	16.7 mV	6.72 ft	200.00 ml/min
1/27/2023 12:40 PM	35:00	7.25 pH	17.96 °C	725.59 μS/cm	0.29 mg/L	16.00 NTU	16.2 mV	6.72 ft	200.00 ml/min
1/27/2023 12:45 PM	40:00	7.26 pH	18.20 °C	724.06 µS/cm	0.30 mg/L	12.50 NTU	15.9 mV	6.72 ft	200.00 ml/min
1/27/2023 12:50 PM	45:00	7.25 pH	18.06 °C	723.08 µS/cm	0.27 mg/L	8.60 NTU	16.0 mV	6.72 ft	200.00 ml/min
1/27/2023 12:55 PM	50:00	7.25 pH	18.11 °C	724.05 μS/cm	0.45 mg/L	5.92 NTU	15.6 mV	6.72 ft	200.00 ml/min
1/27/2023 1:00 PM	55:00	7.25 pH	18.20 °C	721.69 μS/cm	0.24 mg/L	4.80 NTU	15.3 mV	6.72 ft	200.00 ml/min
1/27/2023 1:05 PM	01:00:00	7.25 pH	18.22 °C	717.35 µS/cm	0.30 mg/L	3.73 NTU	15.3 mV	6.72 ft	200.00 ml/min

1/27/2023	01:05:00	7.25 pH	18.22 °C	713.98 µS/cm	0.23 ma/L	3.44 NTU	15.3 mV	6.72 ft	200.00 ml/min
1:10 PM	01.05.00	7.25 μπ	10.22 C	/ 13.96 μ3/611	0.23 Hig/L	3.44 NTO	15.5 1110	0.7211	200.00 1111/111111

Samples

Sample ID:	Description:
HAM-HGWC-7	Grab.

Created using VuSitu from In-Situ, Inc.

Test Date / Time: 2/1/2023 9:27:41 AM

Project: GP-Plant Hammond **Operator Name:** Anthony Szwast

Location Name: HGWC-8
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 15.51 ft
Total Depth: 25.51 ft

Initial Depth to Water: 7.75 ft

Pump Type: Peristaltic Tubing Type: Poly

Pump Intake From TOC: 20.5 ft Estimated Total Volume Pumped:

8.75 liter

Flow Cell Volume: 90 ml Final Flow Rate: 250 ml/min Final Draw Down: 0.09 ft Instrument Used: Aqua TROLL 400

Serial Number: 883533

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions: Cloudy, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
2/1/2023 9:27 AM	00:00	6.45 pH	15.26 °C	847.28 μS/cm	0.24 mg/L	11.70 NTU	95.3 mV	7.80 ft	250.00 ml/min
2/1/2023 9:32 AM	05:00	6.56 pH	15.84 °C	824.33 μS/cm	0.19 mg/L	3.30 NTU	74.0 mV	7.81 ft	250.00 ml/min
2/1/2023 9:37 AM	10:00	6.56 pH	15.89 °C	824.15 μS/cm	0.16 mg/L	2.57 NTU	90.4 mV	7.82 ft	250.00 ml/min
2/1/2023 9:42 AM	15:00	6.59 pH	15.93 °C	825.66 µS/cm	0.16 mg/L	1.53 NTU	88.4 mV	7.83 ft	250.00 ml/min
2/1/2023 9:47 AM	20:00	6.59 pH	16.00 °C	826.65 μS/cm	0.14 mg/L	1.50 NTU	87.5 mV	7.84 ft	250.00 ml/min
2/1/2023 9:52 AM	25:00	6.60 pH	15.98 °C	828.29 μS/cm	0.21 mg/L	1.41 NTU	86.6 mV	7.83 ft	250.00 ml/min
2/1/2023 9:57 AM	30:00	6.60 pH	16.16 °C	826.94 μS/cm	0.21 mg/L	1.30 NTU	85.9 mV	7.84 ft	250.00 ml/min

Sample ID:	Description:
HAM-HGWC-8	Grab.

Test Date / Time: 1/26/2023 2:49:08 PM

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: 36.97 ft
Total Depth: 46.97 ft

Initial Depth to Water: 12.4 ft

Pump Type: Peristaltic Tubing Type: Poly

Pump Intake From TOC: 41.97 ft Estimated Total Volume Pumped:

7 liter

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.03 ft Instrument Used: Aqua TROLL 400

Serial Number: 883533

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy and windy, 45 deg F.

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/26/2023 2:49 PM	00:00	6.96 pH	16.47 °C	1,017.7 μS/cm	0.20 mg/L	1.04 NTU	27.1 mV	12.42 ft	200.00 ml/min
1/26/2023 2:54 PM	05:00	7.02 pH	16.53 °C	1,015.8 μS/cm	0.13 mg/L	1.52 NTU	27.1 mV	12.42 ft	200.00 ml/min
1/26/2023 2:59 PM	10:00	7.04 pH	16.44 °C	1,020.9 μS/cm	0.10 mg/L	1.56 NTU	25.0 mV	12.43 ft	200.00 ml/min
1/26/2023 3:04 PM	15:00	7.06 pH	16.47 °C	1,022.0 μS/cm	0.08 mg/L	1.70 NTU	23.9 mV	12.43 ft	200.00 ml/min
1/26/2023 3:09 PM	20:00	7.06 pH	16.52 °C	1,019.4 μS/cm	0.07 mg/L	2.12 NTU	23.4 mV	12.43 ft	200.00 ml/min
1/26/2023 3:14 PM	25:00	7.07 pH	16.56 °C	1,019.8 μS/cm	0.06 mg/L	1.32 NTU	23.1 mV	12.42 ft	200.00 ml/min
1/26/2023 3:19 PM	30:00	7.07 pH	17.10 °C	1,016.6 μS/cm	0.05 mg/L	1.45 NTU	22.7 mV	12.43 ft	200.00 ml/min

Sample ID:	Description:
HGWC-9	Grab.

Test Date / Time: 1/27/2023 2:26:28 PM

Project: GP-Plant Hammond **Operator Name:** Connor Cain

Location Name: HGWC-10

Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 12.94 ft Total Depth: 22.94 ft

Initial Depth to Water: 9.93 cm

Pump Type: Peri

Tubing Type: Poly

Pump Intake From TOC: 22.94 ft Estimated Total Volume Pumped:

6 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: 966090

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Sunny, 50 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/27/2023 2:26 PM	00:00	6.88 pH	16.23 °C	269.31 μS/cm	5.42 mg/L	2.43 NTU	57.9 mV	9.96 cm	200.00 ml/min
1/27/2023 2:31 PM	05:00	6.90 pH	15.77 °C	313.01 μS/cm	5.16 mg/L	1.40 NTU	37.3 mV	9.96 cm	200.00 ml/min
1/27/2023 2:36 PM	10:00	6.91 pH	15.83 °C	311.34 μS/cm	5.18 mg/L	1.23 NTU	55.7 mV	9.97 cm	200.00 ml/min
1/27/2023 2:41 PM	15:00	6.89 pH	15.88 °C	315.65 μS/cm	5.14 mg/L	1.41 NTU	55.2 mV	9.97 cm	200.00 ml/min
1/27/2023 2:46 PM	20:00	6.90 pH	16.06 °C	312.98 μS/cm	5.10 mg/L	1.36 NTU	54.3 mV	9.97 cm	200.00 ml/min
1/27/2023 2:51 PM	25:00	6.90 pH	16.07 °C	314.46 μS/cm	5.05 mg/L	1.29 NTU	53.8 mV	9.97 cm	200.00 ml/min
1/27/2023 2:56 PM	30:00	6.89 pH	15.95 °C	317.10 μS/cm	5.05 mg/L	1.09 NTU	34.0 mV	9.97 cm	200.00 ml/min

Sample ID:	Description:
HAM-HGWC-10	Grab.

Test Date / Time: 1/26/2023 1:37:13 PM

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: 13.57 cm

Pump Type: Peri

Tubing Type: Poly

Pump Intake From TOC: 20.57 ft Estimated Total Volume Pumped:

9 liter

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.03 ft Instrument Used: Aqua TROLL 400

Serial Number: 966090

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, 46 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/26/2023 1:37 PM	00:00	6.18 pH	15.76 °C	674.05 μS/cm	1.36 mg/L	1.06 NTU	74.9 mV	13.60 ft	200.00 ml/min
1/26/2023 1:42 PM	05:00	6.20 pH	15.92 °C	661.24 μS/cm	1.23 mg/L	0.91 NTU	46.8 mV	13.60 ft	200.00 ml/min
1/26/2023 1:47 PM	10:00	6.20 pH	16.56 °C	663.20 μS/cm	1.11 mg/L	0.57 NTU	59.5 mV	13.60 cm	200.00 ml/min
1/26/2023 1:52 PM	15:00	6.20 pH	16.53 °C	665.73 μS/cm	1.35 mg/L	0.48 NTU	57.3 mV	13.60 ft	200.00 ml/min
1/26/2023 1:57 PM	20:00	6.21 pH	16.42 °C	664.26 μS/cm	1.14 mg/L	0.28 NTU	37.2 mV	13.60 ft	200.00 ml/min
1/26/2023 2:02 PM	25:00	6.21 pH	16.32 °C	669.84 µS/cm	1.16 mg/L	0.38 NTU	34.6 mV	13.60 ft	200.00 ml/min
1/26/2023 2:07 PM	30:00	6.22 pH	16.28 °C	635.97 µS/cm	1.28 mg/L	0.54 NTU	33.2 mV	13.60 ft	200.00 ml/min
1/26/2023 2:12 PM	35:00	6.22 pH	16.31 °C	671.45 μS/cm	1.23 mg/L	0.18 NTU	32.0 mV	13.60 ft	200.00 ml/min
1/26/2023 2:17 PM	40:00	6.23 pH	16.46 °C	673.54 μS/cm	1.34 mg/L	0.24 NTU	31.6 mV	13.60 ft	200.00 ml/min
1/26/2023 2:22 PM	45:00	6.23 pH	16.28 °C	668.22 μS/cm	1.20 mg/L	0.17 NTU	43.7 mV	13.60 ft	200.00 ml/min

Sample ID:	Description:
HAM-HGWC-11	Grab.
HAM-AP-1-FD-01	Grab.

Test Date / Time: 1/26/2023 11:50:34 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: 25.42 ft Total Depth: 35.42 ft

Initial Depth to Water: 13.67 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 30.42 ft Estimated Total Volume Pumped:

6 liter

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min

Final Draw Down: 0 ft

Instrument Used: Aqua TROLL 400

Serial Number: 966090

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, 41 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/26/2023	00:00	7.17 pH	15.47 °C	893.47 µS/cm	3.56 mg/L	12.40 NTU	13.7 mV	13.67 ft	200.00 ml/min
11:50 AM	00.00	7.17 pm	13.47	095.47 μ5/611	3.30 Hig/L	12.40 1110	13.7 1110	13.07 10	200.00 1111/111111
1/26/2023	05:00	7.09 pH	16.33 °C	903.45 µS/cm	0.92 mg/L	14.80 NTU	10.5 mV	13.67 ft	200.00 ml/min
11:55 AM	00.00	7.00 pm	10.00	000.40 до/он	0.02 mg/L	14.001410	10.0 1117	10.07 10	200.00 1111/111111
1/26/2023	10:00	7.10 pH	16.63 °C	892.42 µS/cm	0.91 mg/L	12.30 NTU	10.2 mV	13.67 ft	200.00 ml/min
12:00 PM	10.00	7.10 p.1	10.00	002.12 µ0/0111	0.011119/2	12.001110		10.07 10	200:00 1111/111111
1/26/2023	15:00	7.10 pH	16.58 °C	908.14 µS/cm	0.98 mg/L	9.42 NTU	10.3 mV	13.67 ft	200.00 ml/min
12:05 PM	10.00	7.10 pm	10.00	000.11 до/он	0.00 mg/L	0.121110	10.0 1117	10.07 11	200.00 1111/11111
1/26/2023	20:00	7.09 pH	16.66 °C	901.27 μS/cm	0.61 mg/L	7.50 NTU	10.6 mV	13.67 ft	200.00 ml/min
12:10 PM	20.00	7.00 pm	10.00	σστ.Στ μοτοιτί	0.01 mg/L	7.001110		10.07 11	200.00 1111/11111
1/26/2023	25:00	25:00 7.09 pH	16.90 °C	922.52 µS/cm	0.66 mg/L	5.92 NTU	10.2 mV	13.67 ft	200.00 ml/min
12:15 PM	25.00	7.00 pm	10.00	022.02 µ0/0/11	0.00 mg/L	0.02 1110	10.2 1117	10.07 10	200.00 1111/111111
1/26/2023	30:00	7.10 pH) pH 16.81 °C	914.09 µS/cm	0.74 mg/L	4.07 NTU	10.3 mV	13.67 ft	200.00 ml/min
12:20 PM	33.00	7.13 pm	10.01	ο τ τ.σο μο/οπ	5.7 THI9/E	1.07 1410	10.0 111	10.07 10	200.00 1111/111111

Sample ID:	Description:
HAM-HGWC-12	Grab.

Test Date / Time: 1/26/2023 12:45:35 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: 35.15 ft Total Depth: 45.15 ft

Initial Depth to Water: 24.21 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 40.15 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: 883533

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions:

Cloudy, 42 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow	
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3		
1/26/2023	00:00	6.78 pH	17.02 °C	1,220.7	0.75 mg/l	26.40 NTU	-39.3 mV	24.28 ft	200.00 ml/min	
12:45 PM	00.00	0.76 рп	17.02 C	μS/cm	0.75 mg/L	20.40 NTU	-39.3 1117	24.20 11	200.00 111/111111	
1/26/2023	05:00	6.81 pH	17.02 °C	1,225.0	0.34 mg/L	20.20 NTU	-52.3 mV	24.28 ft	200.00 ml/min	
12:50 PM	03.00	0.01 pm	17.02 C	μS/cm	0.34 Hig/L	20.20 1110	-32.31117	24.20 10	200.00 mi/min	
1/26/2023	10:00	6.82 pH	17.41 °C	1,226.2	0.23 mg/L	14.50 NTU	-74.9 mV	24.28 ft	200.00 ml/min	
12:55 PM	10.00	0.02 pm	17.41 0	μS/cm	0.23 mg/L 14.30	14.50 1110	-74.5 111	24.2010	200.00 1111/111111	
1/26/2023	15:00	15:00 6.8	6.84 pH	17.38 °C	1,224.3	0.18 mg/L	12.44 NTU	-69.4 mV	24.25 ft	200.00 ml/min
1:00 PM	13.00	0.04 pm	17.50 0	μS/cm	0.10 mg/L	12.44 1410	33.4111	24.20 10	200.00 1111/111111	
1/26/2023	20:00	6.85 pH	17.69 °C	1,222.4	0.16 mg/L	9.86 NTU	-75.5 mV	24.26 ft	200.00 ml/min	
1:05 PM	20.00	0.00 pri		μS/cm		0.001110	7 0.0 111 0	21.2010		
1/26/2023	25:00	6.86 pH	17.89 °C	1,217.0	0.13 mg/L	7.47 NTU	-92.6 mV	24.25 ft	200.00 ml/min	
1:10 PM	20.00	0.00 pm	17.00 0	μS/cm	0.10 mg/L	7.47 1010	02.0111	24.20 K	200.00 111/111111	
1/26/2023	30:00	6.88 pH	17.50 °C	1,222.1	0.12 mg/L	5.80 NTU	-82.4 mV	24.25 ft	200.00 ml/min	
1:15 PM	00.00	0.00 pi i	17.00	μS/cm	0.12 mg/L	0.001110	02.1111	21.2010	200.00 1111/111111	
1/26/2023	35:00	6.89 pH	17.63 °C	1,222.2	0.12 mg/L	5.09 NTU	-84.3 mV	24.25 ft	200.00 ml/min	
1:20 PM	00.00	0.00 pi i	17.00 0	μS/cm	5.12 mg/L	5.00 111 5	04.01117	Z4.20 K	200.00 1111/111111	
1/26/2023	40:00	6.90 pH	17.51 °C	1,224.7	0.11 mg/L	4.07 NTU	-85.8 mV	24.25 ft	200.00 ml/min	
1:25 PM	40.00	0.50 pri	17.51 0	μS/cm	0.11 Hig/L	4.07 1010	-00.01110	27.23 It	200.00 111/111111	

Sample ID:	Description:
HAM-HGWC-13	Grab.

Test Date / Time: 1/26/2023 10:18:51 AM

Project: GP-Plant Hammond **Operator Name:** Thomas Kessler

Location Name: MW-5
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 20.84 ft
Total Depth: 30.84 ft

Initial Depth to Water: 14.54 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 25.84 ft Estimated Total Volume Pumped:

11 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: 850724

Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Cloudy, 42 degrees

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/26/2023 10:18 AM	00:00	6.22 pH	16.20 °C	536.85 μS/cm	4.72 mg/L	0.90 NTU	82.9 mV	14.75 ft	200.00 ml/min
1/26/2023 10:23 AM	05:00	6.13 pH	16.47 °C	532.08 μS/cm	4.38 mg/L	0.44 NTU	116.8 mV	14.75 ft	200.00 ml/min
1/26/2023 10:28 AM	10:00	6.11 pH	16.70 °C	530.48 μS/cm	4.28 mg/L	0.46 NTU	102.3 mV	14.75 ft	200.00 ml/min
1/26/2023 10:33 AM	15:00	6.11 pH	16.74 °C	531.33 μS/cm	4.24 mg/L	0.52 NTU	104.4 mV	14.75 ft	200.00 ml/min
1/26/2023 10:38 AM	20:00	6.10 pH	16.78 °C	464.50 μS/cm	4.26 mg/L	0.39 NTU	107.2 mV	14.75 ft	200.00 ml/min
1/26/2023 10:43 AM	25:00	6.10 pH	16.52 °C	528.34 μS/cm	4.13 mg/L	0.52 NTU	108.3 mV	14.75 ft	200.00 ml/min
1/26/2023 10:48 AM	30:00	6.08 pH	16.56 °C	529.53 μS/cm	4.09 mg/L	0.40 NTU	109.2 mV	14.75 ft	200.00 ml/min
1/26/2023 10:53 AM	35:00	6.09 pH	16.69 °C	558.44 μS/cm	4.00 mg/L	0.38 NTU	141.3 mV	14.75 ft	200.00 ml/min
1/26/2023 10:58 AM	40:00	6.09 pH	16.56 °C	529.99 μS/cm	4.08 mg/L	0.45 NTU	142.7 mV	14.75 ft	200.00 ml/min
1/26/2023 11:03 AM	45:00	6.09 pH	16.61 °C	530.99 μS/cm	4.07 mg/L	0.64 NTU	144.3 mV	14.75 ft	200.00 ml/min
1/26/2023 11:08 AM	50:00	6.07 pH	16.65 °C	530.31 μS/cm	3.93 mg/L	0.27 NTU	145.3 mV	14.75 ft	200.00 ml/min

Sample ID:	Description:
HAM-MW-5	Grab.

Test Date / Time: 1/26/2023 11:50:31 AM

Project: GP-Plant Hammond **Operator Name:** Thomas Kessler

Location Name: MW-6
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 22.96 ft
Total Depth: 32.96 ft

Initial Depth to Water: 14.55 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 27.96 ft Estimated Total Volume Pumped:

10 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

Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions: Cloudy, 42 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/26/2023 11:50 AM	00:00	6.79 pH	17.63 °C	1,046.1 μS/cm	1.62 mg/L	61.20 NTU	-11.0 mV	14.60 ft	200.00 ml/min
1/26/2023 11:55 AM	05:00	6.83 pH	18.00 °C	1,031.6 μS/cm	1.10 mg/L	58.30 NTU	12.1 mV	14.60 ft	200.00 ml/min
1/26/2023 12:00 PM	10:00	6.86 pH	18.00 °C	1,024.8 μS/cm	1.11 mg/L	26.00 NTU	15.0 mV	14.60 ft	200.00 ml/min
1/26/2023 12:05 PM	15:00	6.86 pH	18.12 °C	1,025.3 μS/cm	1.07 mg/L	16.20 NTU	16.6 mV	14.60 ft	200.00 ml/min
1/26/2023 12:10 PM	20:00	6.87 pH	18.03 °C	1,021.3 μS/cm	0.96 mg/L	12.20 NTU	18.6 mV	14.60 ft	200.00 ml/min
1/26/2023 12:15 PM	25:00	6.88 pH	18.25 °C	1,015.2 μS/cm	0.85 mg/L	8.47 NTU	19.5 mV	14.60 ft	200.00 ml/min
1/26/2023 12:20 PM	30:00	6.89 pH	18.21 °C	1,024.6 μS/cm	0.92 mg/L	5.66 NTU	19.2 mV	14.60 ft	200.00 ml/min
1/26/2023 12:25 PM	35:00	6.89 pH	18.24 °C	1,012.3 μS/cm	0.89 mg/L	5.09 NTU	18.9 mV	14.60 ft	200.00 ml/min
1/26/2023 12:30 PM	40:00	6.90 pH	18.06 °C	974.27 μS/cm	1.00 mg/L	4.02 NTU	18.5 mV	14.60 ft	200.00 ml/min
1/26/2023 12:35 PM	45:00	6.90 pH	17.99 °C	1,010.2 μS/cm	0.90 mg/L	3.19 NTU	19.5 mV	14.60 ft	200.00 ml/min

Sample ID:	Description:
HAM-MW-6	Grab.

Test Date / Time: 1/26/2023 1:28:56 PM

Project: GP-Plant Hammond **Operator Name:** Thomas Kessler

Location Name: MW-7 Well Diameter: 2 in **Casing Type: PVC** Screen Length: 10 ft Top of Screen: 16.89 ft Total Depth: 26.89 ft

Initial Depth to Water: 10.9 ft

Pump Type: Bladder Tubing Type: Poly

> Pump Intake From TOC: 21.89 ft **Estimated Total Volume Pumped:**

7 liter

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min

Final Draw Down: 0 ft

Instrument Used: Aqua TROLL 400

Serial Number: 850724

Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Cloudy, 42 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/26/2023 1:28 PM	00:00	6.31 pH	16.29 °C	143.30 μS/cm	3.64 mg/L	4.08 NTU	116.2 mV	10.90 ft	200.00 ml/min
1/26/2023 1:33 PM	05:00	6.18 pH	16.24 °C	143.78 μS/cm	3.58 mg/L	2.92 NTU	114.1 mV	10.90 ft	200.00 ml/min
1/26/2023 1:38 PM	10:00	6.16 pH	16.22 °C	144.64 μS/cm	3.53 mg/L	1.50 NTU	114.8 mV	10.90 ft	200.00 ml/min
1/26/2023 1:43 PM	15:00	6.17 pH	16.41 °C	146.86 μS/cm	3.53 mg/L	1.44 NTU	114.2 mV	10.90 ft	200.00 ml/min
1/26/2023 1:48 PM	20:00	6.19 pH	16.52 °C	147.27 μS/cm	3.53 mg/L	1.01 NTU	112.6 mV	10.90 ft	200.00 ml/min
1/26/2023 1:53 PM	25:00	6.20 pH	16.42 °C	150.64 μS/cm	3.45 mg/L	1.22 NTU	110.6 mV	10.90 ft	200.00 ml/min
1/26/2023 1:59 PM	30:44	6.23 pH	16.33 °C	152.78 µS/cm	3.54 mg/L	0.97 NTU	102.6 mV	10.90 ft	200.00 ml/min

Sample ID:	Description:
HAM-MW-7	Grab.

Test Date / Time: 1/26/2023 3:30:09 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: 19.53 ft
Total Depth: 29.53 ft

Initial Depth to Water: 11.67 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 29.53 ft Estimated Total Volume Pumped:

6 liter

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min

Final Draw Down: 0 ft

Instrument Used: Aqua TROLL 400

Serial Number: 966090

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions: Cloudy, 46 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/26/2023 3:30 PM	00:00	6.12 pH	15.77 °C	668.72 µS/cm	2.02 mg/L	3.98 NTU	48.4 mV	11.67 ft	200.00 ml/min
1/26/2023	05.00	0.00 -11	47.00 °C	CE4 22C/	4.40	C OO NITH	40.0\/	44.07.6	200 001/
3:35 PM	05:00	6.09 pH	17.22 °C	654.23 μS/cm	1.49 mg/L	6.02 NTU	42.2 mV	11.67 ft	200.00 ml/min
1/26/2023	10:00	6.10 pH	17.66 °C	633.69 µS/cm	1.15 mg/L	5.36 NTU	40.2 mV	11.67 ft	200.00 ml/min
3:40 PM 1/26/2023									
3:45 PM	15:00	6.10 pH	17.22 °C	628.16 μS/cm	1.06 mg/L	3.90 NTU	37.3 mV	11.67 ft	200.00 ml/min
1/26/2023 3:50 PM	20:00	6.10 pH	17.11 °C	634.70 µS/cm	0.95 mg/L	3.52 NTU	36.2 mV	11.67 ft	200.00 ml/min
1/26/2023									
3:55 PM	25:00	6.11 pH	17.13 °C	651.12 μS/cm	1.02 mg/L	3.41 NTU	36.3 mV	11.67 ft	200.00 ml/min
1/26/2023 4:00 PM	30:00	6.13 pH	17.46 °C	657.88 µS/cm	0.95 mg/L	2.70 NTU	34.3 mV	11.67 ft	200.00 ml/min

Sample ID:	Description:
HAM-MW-19	Grab.

Test Date / Time: 1/26/2023 9:13:22 AM

Project: GP-Plant Hammond **Operator Name**: Thomas Kessler

Location Name: MW-20
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 24.37 ft
Total Depth: 34.37 ft

Initial Depth to Water: 11.6 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 29.37 ft Estimated Total Volume Pumped:

7 liter

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.22 ft Instrument Used: Aqua TROLL 400

Serial Number: 850724

Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Sunny, 42 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/26/2023 9:13 AM	00:00	6.64 pH	16.24 °C	700.59 μS/cm	2.33 mg/L	8.25 NTU	-51.8 mV	11.82 ft	200.00 ml/min
1/26/2023 9:18 AM	05:00	6.75 pH	16.86 °C	710.09 µS/cm	1.14 mg/L	5.26 NTU	-66.7 mV	11.82 ft	200.00 ml/min
1/26/2023 9:23 AM	10:00	6.84 pH	16.91 °C	728.56 μS/cm	1.09 mg/L	5.36 NTU	-73.7 mV	11.82 ft	200.00 ml/min
1/26/2023 9:28 AM	15:00	6.88 pH	17.09 °C	736.14 µS/cm	0.95 mg/L	5.29 NTU	-77.5 mV	11.82 ft	200.00 ml/min
1/26/2023 9:33 AM	20:00	6.92 pH	16.93 °C	736.47 µS/cm	0.86 mg/L	5.18 NTU	-78.7 mV	11.82 ft	200.00 ml/min
1/26/2023 9:38 AM	25:00	6.94 pH	16.92 °C	740.90 μS/cm	0.90 mg/L	4.67 NTU	-79.1 mV	11.82 ft	200.00 ml/min
1/26/2023 9:43 AM	30:00	6.95 pH	16.84 °C	742.45 μS/cm	0.75 mg/L	4.58 NTU	-78.7 mV	11.82 ft	200.00 ml/min

Sample ID:	Description:
HAM-MW-20	Grab.

Test Date / Time: 1/26/2023 10:30:58 AM

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: 62.77 ft
Total Depth: 72.77 ft

Initial Depth to Water: 27.23 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 67.77 ft Estimated Total Volume Pumped:

12 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: 883533

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions: Cloudy, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/26/2023 10:30 AM	00:00	7.51 pH	16.80 °C	617.14 µS/cm	1.10 mg/L	1.40 NTU	-24.6 mV	27.25 ft	200.00 ml/min
1/26/2023 10:35 AM	05:00	7.56 pH	17.31 °C	621.63 μS/cm	0.68 mg/L	2.40 NTU	-23.4 mV	27.28 ft	200.00 ml/min
1/26/2023 10:40 AM	10:00	7.57 pH	17.04 °C	620.87 μS/cm	0.43 mg/L	2.83 NTU	-35.8 mV	27.28 ft	200.00 ml/min
1/26/2023 10:45 AM	15:00	7.58 pH	17.07 °C	622.84 μS/cm	0.32 mg/L	3.47 NTU	-20.6 mV	27.28 ft	200.00 ml/min
1/26/2023 10:50 AM	20:00	7.58 pH	17.10 °C	621.68 μS/cm	0.26 mg/L	4.79 NTU	-32.4 mV	27.28 ft	200.00 ml/min
1/26/2023 10:55 AM	25:00	7.59 pH	17.19 °C	620.14 μS/cm	0.24 mg/L	6.57 NTU	-17.4 mV	27.28 ft	200.00 ml/min
1/26/2023 11:00 AM	30:00	7.59 pH	17.12 °C	620.59 μS/cm	0.23 mg/L	7.65 NTU	-15.7 mV	27.28 ft	200.00 ml/min
1/26/2023 11:05 AM	35:00	7.59 pH	17.14 °C	619.18 μS/cm	0.23 mg/L	8.46 NTU	-14.2 mV	27.28 ft	200.00 ml/min
1/26/2023 11:10 AM	40:00	7.59 pH	17.28 °C	620.18 μS/cm	0.22 mg/L	8.13 NTU	-13.1 mV	27.28 ft	200.00 ml/min
1/26/2023 11:15 AM	45:00	7.60 pH	17.10 °C	618.37 μS/cm	0.22 mg/L	6.62 NTU	-11.6 mV	27.28 ft	200.00 ml/min
1/26/2023 11:20 AM	50:00	7.59 pH	17.23 °C	620.14 μS/cm	0.22 mg/L	7.07 NTU	-10.6 mV	27.28 ft	200.00 ml/min
1/26/2023 11:25 AM	55:00	7.60 pH	17.10 °C	618.19 µS/cm	0.23 mg/L	4.92 NTU	-21.0 mV	27.28 ft	200.00 ml/min
1/26/2023 11:30 AM	01:00:00	7.61 pH	17.09 °C	619.68 µS/cm	0.61 mg/L		-20.5 mV	27.28 ft	200.00 ml/min

Samples

Sample ID:	Description:
HAM-MW-24D	Grab.

Created using VuSitu from In-Situ, Inc.

Test Date / Time: 1/26/2023 9:34:00 AM

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: 53.21 ft
Total Depth: 63.21 ft

Initial Depth to Water: 13.75 ft

Pump Type: Peri Tubing Type: Poly

Pump Intake From TOC: 35.26 ft Estimated Total Volume Pumped:

5.5 liter

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 4.47 ft Instrument Used: Aqua TROLL 400

Serial Number: 966090

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions: Cloudy, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/26/2023 9:34 AM	00:00	7.51 pH	16.91 °C	586.34 μS/cm	0.56 mg/L	1.90 NTU	-88.7 mV	15.28 ft	200.00 ml/min
1/26/2023 9:39 AM	05:00	7.63 pH	16.91 °C	585.87 μS/cm	0.51 mg/L	0.80 NTU	-96.2 mV	16.20 ft	200.00 ml/min
1/26/2023 9:44 AM	10:00	7.68 pH	16.86 °C	584.23 μS/cm	0.47 mg/L	0.83 NTU	-100.5 mV	16.96 ft	200.00 ml/min
1/26/2023 9:49 AM	15:00	7.70 pH	17.19 °C	581.39 μS/cm	0.46 mg/L	0.69 NTU	-103.7 mV	17.82 ft	200.00 ml/min
1/26/2023 9:54 AM	20:00	7.70 pH	17.24 °C	581.47 μS/cm	0.86 mg/L	0.59 NTU	-103.8 mV	18.39 ft	200.00 ml/min
1/26/2023 9:59 AM	25:00	7.71 pH	16.08 °C	574.15 μS/cm	1.05 mg/L	0.50 NTU	-98.4 mV	18.35 ft	200.00 ml/min
1/26/2023 10:04 AM	30:00	7.73 pH	15.20 °C	578.01 μS/cm	1.07 mg/L	0.48 NTU	-145.4 mV	18.22 ft	200.00 ml/min
1/26/2023 10:09 AM	35:00	7.74 pH	15.24 °C	586.46 μS/cm	0.90 mg/L	0.39 NTU	-99.5 mV	18.22 ft	200.00 ml/min

Sample ID:	Description:
HAM-MW-25D	Grab.

Test Date / Time: 1/26/2023 3:57:34 PM

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: 68.11 ft
Total Depth: 78.11 ft

Initial Depth to Water: 12.42 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 73.11 ft Estimated Total Volume Pumped:

7 liter

Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 0.16 ft Instrument Used: Aqua TROLL 400

Serial Number: 883533

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions: Cloudy, windy, 45 deg F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/26/2023 3:57 PM	00:00	7.27 pH	16.54 °C	984.88 μS/cm	0.93 mg/L	7.57 NTU	-147.3 mV	12.59 ft	200.00 ml/min
1/26/2023 4:02 PM	05:00	7.14 pH	16.89 °C	1,027.5 μS/cm	0.25 mg/L	12.29 NTU	-86.0 mV	12.60 ft	200.00 ml/min
1/26/2023 4:07 PM	10:00	7.14 pH	16.92 °C	1,028.2 μS/cm	0.16 mg/L	9.37 NTU	-88.2 mV	12.60 ft	200.00 ml/min
1/26/2023 4:12 PM	15:00	7.13 pH	17.36 °C	1,025.5 μS/cm	0.12 mg/L	5.41 NTU	-61.3 mV	12.59 ft	200.00 ml/min
1/26/2023 4:17 PM	20:00	7.14 pH	17.26 °C	1,026.0 μS/cm	0.09 mg/L	4.05 NTU	-56.1 mV	12.58 ft	200.00 ml/min
1/26/2023 4:22 PM	25:00	7.14 pH	17.10 °C	1,027.3 μS/cm	0.09 mg/L	3.97 NTU	-51.9 mV	12.58 ft	200.00 ml/min
1/26/2023 4:27 PM	30:00	7.14 pH	17.05 °C	1,027.9 μS/cm	0.09 mg/L	2.36 NTU	-48.8 mV	12.58 ft	200.00 ml/min

Sample ID:	Description:
HAM-MW-26D	Grab.

Test Date / Time: 1/27/2023 11:50:36 AM

Project: GP-Plant Hammond **Operator Name:** Anthony Szwast

Location Name: MW-27D
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 53.19 ft
Total Depth: 63.19 ft

Initial Depth to Water: 7.73 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 58.19 ft Estimated Total Volume Pumped:

53.25 liter

Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 45.56 ft Instrument Used: Aqua TROLL 400

Serial Number: 883533

Test Notes:

Five bottles: Full App. III and IV.

Weather Conditions: Sunny, 40 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 0.3	
1/27/2023 11:50 AM	00:00	7.48 pH	17.36 °C	463.75 μS/cm	1.20 mg/L	3.30 NTU	-104.7 mV	10.05 ft	250.00 ml/min
1/27/2023 11:55 AM	05:00	7.50 pH	17.81 °C	458.47 μS/cm	0.73 mg/L	2.06 NTU	-139.0 mV	11.83 ft	250.00 ml/min
1/27/2023 12:00 PM	10:00	7.51 pH	17.85 °C	456.90 μS/cm	0.53 mg/L	2.15 NTU	-164.8 mV	13.32 ft	250.00 ml/min
1/27/2023 12:05 PM	15:00	7.54 pH	17.92 °C	444.28 μS/cm	0.41 mg/L	3.13 NTU	-168.1 mV	14.94 ft	250.00 ml/min
1/27/2023 12:10 PM	20:00	7.56 pH	18.02 °C	428.83 μS/cm	0.35 mg/L	3.06 NTU	-154.5 mV	16.55 ft	250.00 ml/min
1/27/2023 12:15 PM	25:00	7.58 pH	18.05 °C	425.02 μS/cm	0.36 mg/L	3.49 NTU	-146.7 mV	18.21 ft	250.00 ml/min
1/27/2023 12:20 PM	30:00	7.59 pH	18.17 °C	423.01 μS/cm	0.40 mg/L	3.75 NTU	-141.1 mV	19.68 ft	250.00 ml/min
1/27/2023 12:25 PM	35:00	7.60 pH	18.20 °C	421.78 μS/cm	1.11 mg/L	3.91 NTU	-136.8 mV	21.38 ft	250.00 ml/min
1/27/2023 12:30 PM	40:00	7.60 pH	18.30 °C	421.75 μS/cm	2.19 mg/L	4.15 NTU	-119.5 mV	22.92 ft	250.00 ml/min
1/27/2023 12:35 PM	45:00	7.60 pH	18.33 °C	420.75 μS/cm	1.94 mg/L	3.76 NTU	-131.8 mV	24.47 ft	250.00 ml/min
1/27/2023 12:40 PM	50:00	7.61 pH	18.31 °C	422.93 μS/cm	1.80 mg/L	3.50 NTU	-130.3 mV	25.75 ft	250.00 ml/min
1/27/2023 12:45 PM	55:00	7.63 pH	18.48 °C	422.33 μS/cm	1.83 mg/L	3.90 NTU	-125.9 mV	27.32 ft	250.00 ml/min
1/27/2023 12:50 PM	01:00:00	7.67 pH	18.45 °C	423.26 μS/cm	2.17 mg/L	3.41 NTU	-118.9 mV	28.57 ft	250.00 ml/min

1/27/2023 12:55 PM	01:05:00	7.70 pH	18.16 °C	425.67 μS/cm	2.29 mg/L	3.91 NTU	-112.9 mV	30.40 ft	250.00 ml/min
1/27/2023 1:00 PM	01:10:00	7.72 pH	18.15 °C	425.51 μS/cm	2.37 mg/L	3.64 NTU	-108.8 mV	31.41 ft	250.00 ml/min
1/27/2023 1:05 PM	01:15:00	7.74 pH	18.25 °C	425.37 μS/cm	2.91 mg/L	3.70 NTU	-106.4 mV	32.87 ft	250.00 ml/min
1/27/2023 1:10 PM	01:20:00	7.75 pH	18.26 °C	426.45 μS/cm	3.31 mg/L	3.80 NTU	-105.8 mV	34.13 ft	250.00 ml/min
1/27/2023 1:15 PM	01:25:00	7.76 pH	18.25 °C	425.76 μS/cm	4.22 mg/L	3.86 NTU	-82.7 mV	35.40 ft	250.00 ml/min
1/27/2023 1:20 PM	01:30:00	7.77 pH	18.35 °C	425.28 μS/cm	4.41 mg/L	4.08 NTU	-79.6 mV	36.68 ft	250.00 ml/min
1/27/2023 1:25 PM	01:35:00	7.77 pH	18.39 °C	425.54 μS/cm	5.10 mg/L	3.49 NTU	-104.5 mV	37.91 ft	250.00 ml/min
1/27/2023 1:30 PM	01:40:00	7.76 pH	18.52 °C	426.88 μS/cm	4.79 mg/L	3.45 NTU	-108.6 mV	39.23 ft	250.00 ml/min
1/27/2023 1:35 PM	01:45:00	7.77 pH	18.45 °C	425.08 μS/cm	5.46 mg/L	3.24 NTU	-109.4 mV	40.45 ft	250.00 ml/min
1/27/2023 1:40 PM	01:50:00	7.78 pH	18.62 °C	424.99 μS/cm	5.05 mg/L	3.04 NTU	-110.2 mV	41.70 ft	250.00 ml/min
1/27/2023 1:45 PM	01:55:00	7.77 pH	18.67 °C	425.23 μS/cm	4.90 mg/L	2.78 NTU	-111.6 mV	42.75 ft	250.00 ml/min
1/27/2023 1:50 PM	02:00:00	7.77 pH	18.58 °C	423.19 μS/cm	5.43 mg/L	2.88 NTU	-113.4 mV	43.97 ft	250.00 ml/min
1/27/2023 1:55 PM	02:05:00	7.78 pH	18.17 °C	424.48 μS/cm	5.18 mg/L	2.14 NTU	-109.4 mV	44.40 ft	100.00 ml/min
1/27/2023 2:00 PM	02:10:00	7.78 pH	17.92 °C	425.34 μS/cm	3.82 mg/L	1.96 NTU	-94.9 mV	44.76 ft	100.00 ml/min
1/27/2023 2:05 PM	02:15:00	7.76 pH	17.86 °C	426.40 μS/cm	3.80 mg/L	1.90 NTU	-99.3 mV	44.99 ft	100.00 ml/min
1/27/2023 2:10 PM	02:20:00	7.75 pH	17.99 °C	428.21 μS/cm	5.92 mg/L	1.78 NTU	-100.4 mV	45.28 ft	100.00 ml/min
1/27/2023 2:15 PM	02:25:00	7.76 pH	17.97 °C	426.66 μS/cm	6.31 mg/L	1.76 NTU	-115.5 mV	45.54 ft	100.00 ml/min
1/27/2023 2:20 PM	02:30:00	7.76 pH	18.05 °C	425.21 μS/cm	2.99 mg/L	1.53 NTU	-90.7 mV	45.79 ft	100.00 ml/min
1/27/2023 2:25 PM	02:35:00	7.75 pH	18.02 °C	425.86 μS/cm	4.18 mg/L	1.11 NTU	-106.0 mV	46.01 ft	100.00 ml/min
1/27/2023 2:30 PM	02:40:00	7.75 pH	18.07 °C	426.44 μS/cm	3.85 mg/L	1.35 NTU	-110.7 mV	46.29 ft	100.00 ml/min
1/27/2023 2:35 PM	02:45:00	7.75 pH	18.08 °C	424.24 μS/cm	3.84 mg/L	0.33 NTU	-127.7 mV	46.51 ft	100.00 ml/min
1/27/2023 2:40 PM	02:50:00	7.76 pH	18.16 °C	424.77 μS/cm	2.43 mg/L	0.89 NTU	-112.8 mV	46.75 ft	100.00 ml/min
1/27/2023 2:45 PM	02:55:00	7.76 pH	18.19 °C	425.76 μS/cm	2.53 mg/L	1.10 NTU	-113.6 mV	46.99 ft	100.00 ml/min
1/27/2023 2:50 PM	03:00:00	7.76 pH	18.08 °C	425.11 μS/cm	2.26 mg/L	0.89 NTU	-113.5 mV	47.18 ft	100.00 ml/min
1/27/2023 2:55 PM	03:05:00	7.77 pH	18.19 °C	428.68 μS/cm	2.34 mg/L	1.01 NTU	-127.4 mV	47.45 ft	100.00 ml/min
1/27/2023 3:00 PM	03:10:00	7.76 pH	18.35 °C	429.12 μS/cm	2.53 mg/L	0.63 NTU	-110.9 mV	47.65 ft	100.00 ml/min
1/27/2023 3:05 PM	03:15:00	7.77 pH	18.10 °C	425.70 μS/cm	2.79 mg/L	0.33 NTU	-127.6 mV	47.88 ft	100.00 ml/min
1/27/2023 3:10 PM	03:20:00	7.77 pH	18.34 °C	426.72 μS/cm	3.24 mg/L	0.59 NTU	-110.5 mV	48.11 ft	100.00 ml/min
1/27/2023 3:15 PM	03:25:00	7.77 pH	18.27 °C	425.67 μS/cm	3.13 mg/L	0.76 NTU	-124.8 mV	48.32 ft	100.00 ml/min

1/27/2023 3:20 PM	03:30:00	7.78 pH	18.40 °C	425.74 μS/cm	2.95 mg/L	0.58 NTU	-124.8 mV	48.52 ft	100.00 ml/min
1/27/2023 3:25 PM	03:35:00	7.78 pH	18.37 °C	424.68 μS/cm	3.39 mg/L	0.90 NTU	-125.7 mV	48.74 ft	100.00 ml/min
1/27/2023 3:30 PM	03:40:00	7.78 pH	18.26 °C	426.13 μS/cm	2.69 mg/L	1.17 NTU	-127.5 mV	48.97 ft	100.00 ml/min
1/27/2023 3:35 PM	03:45:00	7.78 pH	18.21 °C	424.90 μS/cm	2.61 mg/L	0.63 NTU	-128.9 mV	49.17 ft	100.00 ml/min
1/27/2023 3:40 PM	03:50:00	7.78 pH	18.12 °C	423.73 μS/cm	2.68 mg/L	0.52 NTU	-131.5 mV	49.39 ft	100.00 ml/min
1/27/2023 3:45 PM	03:55:00	7.78 pH	17.96 °C	423.59 μS/cm	2.59 mg/L	0.57 NTU	-117.0 mV	49.59 ft	100.00 ml/min
1/27/2023 3:50 PM	04:00:00	7.78 pH	17.90 °C	423.27 μS/cm	2.51 mg/L	0.55 NTU	-131.4 mV	49.80 ft	100.00 ml/min
1/27/2023 3:55 PM	04:05:00	7.78 pH	18.16 °C	423.26 μS/cm	2.65 mg/L	0.54 NTU	-132.0 mV	50.00 ft	100.00 ml/min
1/27/2023 4:00 PM	04:10:00	7.78 pH	18.08 °C	422.43 μS/cm	2.53 mg/L	0.51 NTU	-132.9 mV	50.21 ft	100.00 ml/min
1/27/2023 4:05 PM	04:15:00	7.78 pH	18.08 °C	422.11 μS/cm	2.60 mg/L	0.64 NTU	-133.9 mV	50.41 ft	100.00 ml/min
1/27/2023 4:10 PM	04:20:00	7.79 pH	18.07 °C	421.36 μS/cm	2.50 mg/L	0.34 NTU	-132.3 mV	50.60 ft	100.00 ml/min
1/27/2023 4:15 PM	04:25:00	7.79 pH	17.99 °C	420.84 μS/cm	2.23 mg/L	0.38 NTU	-131.5 mV	50.79 ft	100.00 ml/min
1/27/2023 4:20 PM	04:30:00	7.79 pH	17.99 °C	420.43 μS/cm	2.65 mg/L	0.46 NTU	-118.0 mV	51.01 ft	100.00 ml/min
1/27/2023 4:25 PM	04:35:00	7.79 pH	17.94 °C	420.19 μS/cm	2.52 mg/L	1.66 NTU	-132.3 mV	51.19 ft	100.00 ml/min
1/27/2023 4:30 PM	04:40:00	7.79 pH	17.94 °C	420.43 μS/cm	2.50 mg/L	0.48 NTU	-132.4 mV	51.36 ft	100.00 ml/min
1/27/2023 4:35 PM	04:45:00	7.79 pH	17.80 °C	417.82 μS/cm	2.38 mg/L	0.95 NTU	-133.1 mV	51.53 ft	100.00 ml/min
1/27/2023 4:40 PM	04:50:00	7.79 pH	17.60 °C	417.36 μS/cm	2.51 mg/L	0.51 NTU	-134.6 mV	51.71 ft	100.00 ml/min
1/27/2023 4:45 PM	04:55:00	7.79 pH	17.32 °C	419.44 μS/cm	2.08 mg/L	0.38 NTU	-134.5 mV	51.89 ft	100.00 ml/min
1/27/2023 4:50 PM	05:00:00	7.79 pH	17.14 °C	420.52 μS/cm	2.39 mg/L	0.44 NTU	-121.1 mV	52.06 ft	100.00 ml/min
1/27/2023 4:55 PM	05:05:00	7.79 pH	17.08 °C	420.24 μS/cm	2.32 mg/L	0.43 NTU	-135.7 mV	52.25 ft	100.00 ml/min
1/27/2023 5:00 PM	05:10:00	7.80 pH	16.93 °C	419.55 μS/cm	2.42 mg/L	0.63 NTU	-135.4 mV	52.43 ft	100.00 ml/min
1/27/2023 5:05 PM	05:15:00	7.80 pH	16.87 °C	420.18 μS/cm	2.18 mg/L	0.51 NTU	-135.8 mV	52.61 ft	100.00 ml/min
1/27/2023 5:10 PM	05:20:00	7.80 pH	16.79 °C	419.00 μS/cm	2.06 mg/L	1.11 NTU	-135.3 mV	52.78 ft	100.00 ml/min
1/27/2023 5:15 PM	05:25:00	7.79 pH	16.74 °C	418.03 μS/cm	1.99 mg/L	0.58 NTU	-137.0 mV	52.96 ft	100.00 ml/min
1/27/2023 5:20 PM	05:30:00	7.80 pH	16.67 °C	417.54 μS/cm	1.84 mg/L	0.71 NTU	-137.9 mV	53.13 ft	100.00 ml/min
1/27/2023 5:25 PM	05:35:00	7.80 pH	16.60 °C	418.00 μS/cm	1.99 mg/L	0.53 NTU	-138.8 mV	53.24 ft	100.00 ml/min
1/27/2023 5:30 PM	05:40:00	7.80 pH	16.58 °C	416.98 μS/cm	1.95 mg/L	0.65 NTU	-126.9 mV	53.29 ft	100.00 ml/min

Sample ID:	Description:
HAM-MW-27D	Grab.

Test Date / Time: 1/26/2023 4:08:35 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: 48.21 ft
Total Depth: 58.21 ft

Initial Depth to Water: 6.12 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 53.21 ft Estimated Total Volume Pumped:

16000 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: 850724

Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Cloudy, 45 degrees F

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/26/2023 4:08 PM	00:00	7.63 pH	16.04 °C	576.56 μS/cm	0.84 mg/L	62.50 NTU	-237.2 mV	6.20 ft	200.00 ml/min
1/26/2023 4:13 PM	05:00	7.69 pH	16.46 °C	548.18 μS/cm	0.73 mg/L	69.50 NTU	-254.2 mV	6.20 ft	200.00 ml/min
1/26/2023 4:18 PM	10:00	7.74 pH	16.56 °C	558.28 μS/cm	0.81 mg/L	51.20 NTU	-266.1 mV	6.20 ft	200.00 ml/min
1/26/2023 4:23 PM	15:00	7.75 pH	16.49 °C	570.62 μS/cm	0.79 mg/L	47.80 NTU	-277.9 mV	6.20 ft	200.00 ml/min
1/26/2023 4:28 PM	20:00	7.75 pH	16.57 °C	573.20 μS/cm	0.72 mg/L	49.70 NTU	-283.5 mV	6.20 ft	200.00 ml/min
1/26/2023 4:33 PM	25:00	7.74 pH	16.65 °C	578.28 μS/cm	0.81 mg/L	32.50 NTU	-286.0 mV	6.20 ft	200.00 ml/min
1/26/2023 4:38 PM	30:00	7.74 pH	16.92 °C	586.75 μS/cm	0.74 mg/L	18.70 NTU	-284.4 mV	6.20 ft	200.00 ml/min
1/26/2023 4:43 PM	35:00	7.72 pH	16.76 °C	587.27 μS/cm	0.73 mg/L	15.00 NTU	-280.0 mV	6.20 ft	200.00 ml/min
1/26/2023 4:48 PM	40:00	7.72 pH	16.56 °C	595.47 μS/cm	0.77 mg/L	14.70 NTU	-272.6 mV	6.20 ft	200.00 ml/min
1/26/2023 4:53 PM	45:00	7.70 pH	16.47 °C	592.17 μS/cm	0.79 mg/L	11.90 NTU	-276.6 mV	6.20 ft	200.00 ml/min
1/26/2023 4:58 PM	50:00	7.69 pH	16.29 °C	594.84 μS/cm	0.25 mg/L	10.42 NTU	-297.6 mV	6.20 ft	200.00 ml/min
1/26/2023 5:03 PM	55:00	7.69 pH	16.35 °C	599.00 μS/cm	0.26 mg/L	9.80 NTU	-286.1 mV	6.20 ft	200.00 ml/min
1/26/2023 5:08 PM	01:00:00	7.67 pH	16.47 °C	597.93 μS/cm	0.24 mg/L	9.47 NTU	-290.4 mV	6.20 ft	200.00 ml/min

1/26/2023	01:05:00	7.67 pH	16.38 °C	597.16 μS/cm	0.24 mg/L	8.33 NTU	-288.6 mV	6.20 ft	200.00 ml/min
5:13 PM	01.00.00		.0.00	σοτιτο μογοιιι	0.29, 2	0.001110	200.0	0.20 10	200100 1111/111111
1/26/2023	01.10.00	7.67 ml l	16.41 °C	507.07.uC/om	0.21 mg/L	8.06 NTU	-293.2 mV	6.20 ft	200.00 ml/min
5:18 PM	01:10:00	7.67 pH	10.41 C	597.07 μS/cm	0.21 Hig/L	0.00 NTO	-293.2 1110	0.20 11	200.00 1111/111111
1/26/2023	01:15:00	7.67 pH	16.41 °C	597.22 uS/cm	0.23 mg/L	5.35 NTU	-294.3 mV	6.20 ft	200.00 ml/min
5:23 PM	01.15.00	7.07 pm	10.41 C	397.22 μ3/6/11	0.25 mg/L	3.33 1410	-294.5 1110	0.2011	200.00 1111/111111
1/26/2023	01:20:00	7.67 pH	16.58 °C	599.61 µS/cm	0.22 mg/L	4.88 NTU	-261.9 mV	6.20 ft	200.00 ml/min
5:28 PM					5				

Samples

Sample ID:	Description:
HAM-MW-28D	Grab.

Created using VuSitu from In-Situ, Inc.

Test Date / Time: 1/26/2023 2:44:20 PM

Project: GP-Plant Hammond **Operator Name:** Thomas Kessler

Location Name: MW-29
Well Diameter: 2 in
Casing Type: PVC
Screen Length: 10 ft
Top of Screen: 18.25 ft
Total Depth: 28.25 ft

Initial Depth to Water: 4.25 ft

Pump Type: Bladder Tubing Type: Poly

Pump Intake From TOC: 23.25 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: 850724

Test Notes:

Five bottles; Full app. III and IV.

Weather Conditions:

Cloudy, 45 degrees

Low-Flow Readings:

Date Time	Elapsed Time	рН	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth to Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 0.2	+/- 5	+/- 10	+/- 5	
1/26/2023 2:44 PM	00:00	7.15 pH	15.14 °C	769.36 μS/cm	1.96 mg/L	14.50 NTU	46.7 mV	4.30 ft	200.00 ml/min
1/26/2023 2:49 PM	05:00	7.19 pH	15.12 °C	907.64 μS/cm	2.07 mg/L	8.21 NTU	39.3 mV	4.30 ft	200.00 ml/min
1/26/2023 2:54 PM	10:00	7.21 pH	15.07 °C	897.48 μS/cm	2.00 mg/L	7.94 NTU	38.6 mV	4.30 ft	200.00 ml/min
1/26/2023 2:59 PM	15:00	7.22 pH	14.94 °C	899.36 μS/cm	1.73 mg/L	7.41 NTU	38.4 mV	4.30 ft	200.00 ml/min
1/26/2023 3:04 PM	20:00	7.22 pH	15.15 °C	932.56 μS/cm	1.76 mg/L	3.59 NTU	38.3 mV	4.30 ft	200.00 ml/min
1/26/2023 3:09 PM	25:00	7.23 pH	15.25 °C	898.66 µS/cm	1.74 mg/L	3.27 NTU	36.5 mV	4.30 ft	200.00 ml/min
1/26/2023 3:14 PM	30:00	7.22 pH	15.16 °C	899.96 µS/cm	1.59 mg/L	3.02 NTU	36.3 mV	4.30 ft	200.00 ml/min

Sample ID:	Description:
MW-29	Grab.

CALIBRATION REPORTS

Geosyntec consultants			E	QUIPMENT CA	LIBRATION L	OG			
Field Technician Anthony	y 5,			Date 1/23,	12023		Time (start) 15	40	Time (finish) 1600
smarTroll SN 333533		_		Turbidity Meter Type		SN 7007	-1416		
Weather Conditions 45°5		dy		Facility and Unit _ # Gants work!					
	*			• Calibr	ration 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)	22250153	13,45	4490	3729.1	4490	+/- 5 %	Yes No		
pH (4)	11/2023	14.13	4.00	3.95	4.00	+/- 0 1 SU	Yes No		
Mid-Day pH (4) check			4.00			+/- 0 1 SU	Yes No		
p H (7)	2216 893	14,09	7.00	7,34	7.00	+/- 0 1 SU	(Yes) No		
Mid-Day pH (7) check			7.00			+/- 0 1 SU	Yes No		
рН (10)	21320202	14.40	10.00	11,09	10.00	+/- 0 1 SU	(Pes) No		
Mid-Day pH (10) check	The same of the sa	anni and a lice of the party of	10.00			+/- 0 1 SU	Yes No		
ORP (mV)	2139 0144	14.22	228	246.4	228.0	+/- 20mV	Yes No		
DO (%) (1pt, 100% water saturated air cal			100	105,08	100.0	+/- 6 % saturation	Yes No		
Turbidity 0 NTU			0	0.00	**Barry/Bloker	+/- 0 5 NTU	Yes No		
Turbidity 1 NTU			1.00	0,44	0.71	+/- 0 5 NTU	Yes No		
Turbidity 10 NTU			10.00	11.07	10.06	+/- 0 5 NTU	(Yes) No		

Geosyntec Consultants			E	QUIPMENT CA	LIBRATION LO	0G			
Field Technician C. CRIN	/			Date 1/23/2	3		Time (start) 1455	Time (finish) 1520	
smarTroll SN966090				Turbidity Meter Type _	LaMote 2020we	_	sn 7009	<u> </u>	
Weather Conditions Sunny	SOF			Facility and Unit	mmond	 (Project NoGW6581	_	
				Calibr	ation 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)	22250153 11/23	15.74	4490	4284	4490	+/- 5 %	No No		
рН (4)	(123		4.00	4.06	40	+/- 0.1 SU	No No		
Mid-Day pH (4) check			4.00			+/ 0.1 SU	Yes No		
рН (7)	2216893	16.55	7.00	7-37	70	+/- 0.1 SU	No No		
Mid-Day pH (7) check			7.00			+/-0.1 SU	Yes No		
рН (10)	212320202	16.96	10.00	10.99	10	+/- 0 1 SU	No No		
Mid-Day pH (10) check			10.00			1/ 0.1 SU	Yes No		
ORP (mV)	Z1390149 11/23	14.72	228	243	728	+/- 20mV	Ses No		
DO (%) (1pt, 100% water saturated air cal)			100	101.05	100	+/- 6 % saturation	No No		
Turbidity 0 NTU			0	0.31	0.25	+/- 0 5 NTU	No No		
Turbidity 1 NTU			1.00	0.85	1.00	+/- 0.5 NTU	No No		
Turbidity 10 NTU			10.00	9.56	10-a	+/- 0 5 NTU	Xes No		

Geosyntec Consultants	consultants										
Field Technician	ics Wesslin			Date 1/23	123		Time (start)	5 2 1 5 Time (finish): 15.55			
smarTroll SN _ \$ 50 \\ Weather Conditions _ \text{Vector}	Z Ll Olou Ju	_ 		Turbidity Meter Type Facility and Unit	LaMote 2020we		SN 53 96-3715 Project NoGW6581				
Weather Conditions		7			ation 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)	77750153	الما م	4490	41307,1	11496	+/- 5 %	(ves) No				
pH (4)	11/73	17,04	4.00	4.07	¥1.0	+/- 0,1 SU	Yes No				
Mid-Day pH (4) check	2716593	16.5%	4.00	6.97	7.0	+/- 0.1 SU	(Yes) No				
pH (7)	7	7	7.00	1 4		+/- 0 1 SU	Yes No				
Mid-Day pH (7) check			7.00			+/- 0.1 SU	Yes No				
pH (10)	71370200	(6.20	10.00	9.65	10.0	+/- 0 1 SU	Yes No				
Mid-Day pH (10) check			10.00			+/- 0.1 SU	Yes No				
ORP (mV)	21390144	15.43	228	241.11	778	+/- 20mV	Ye No				
DO (%) (1pt, 100% water saturated air cal)			100	99.8	100	+/- 6 % saturation	Yes No				
Turbidity 0 NTU			0	0	0	+/- 0.5 NTU	(Yes) No				
Turbidity 1 NTU			1.00	0.82	1.0	+/- 0.5 NTU	Yes No				
Turbidity 10 NTU			10.00	9.44	1.0]	+/- 0.5 NTU	Cra No				

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Geosyntec Consultants			E	QUIPMENT CA	ALIBRATION L	OG	Bullet	Enward S. J. J.
Field Technician Anthon	y 5,			Date 1/24/2	1823		Time (start)	Time (finish) 8/5
smarTroll SN <u> </u>	33	10		Turbidity Meter Type	LaMote 2020we	SN 7007 -	-1416	
Weather Conditions(each	r, 25°F	_		Facility and Unit Plant Han mond				1
				Calibi	ration 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)	22250153	-0.14	4490	4315,5	4490	+/- 5 %	Ye No	
pH (4)	11/2023	-0.11	4.00	4,74	4.00	+/- 0 1 SU	Yes) No	
Mid-Day pH (4) check	22250153	19.36	4.00	3.37	4.00	+/- 0 1 SU	(Yes) No	
pH (7)	2216593	0,41	7.00	7.31	7.00	+/- 0 1 SU	Yes No	
Mid-Day pH (7) check	2216893	il.vi	7.00	6.93	7.06	+/- 0 1 SU	Yes No	
рН (10)	21320202	1.01	10.00	10,21	10.00	+/- 0 1 SU	(Yes) No	
Mid-Day pH (10) check	21320202	(0,55	10.00	10.07	10.14	+/- 0 1 SU	Yes No	
ORP (mV)	2 139 0144	1.11	228	2480	558	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	94.50	100,0	+/- 6 % saturation	(Yes) No	
Turbidity 0 NTU			0	0.00	_	+/- 0 5 NTU	(Yes) No	
Turbidity 1 NTU			1.00	0.45	0,59	+/- 0 5 NTU	(Yes) No	
Turbidity 10 NTU			10.00	11.79	9.99	+/- 0 5 NTU	Yes No	

Geosyntec consultants			Е	QUIPMENT CA	LIBRATION LO	OG .		
eld Technician (. CAIN	/ /			Date: 1/24/2	3		Time (start) 076	Time (finish): 0735
nar Troll SN966040				Turbidity Meter Type: _	LaMote 2020we		5N 7009	
eather Conditions	28F			Facility and Unit	lant Hamm	and	Project No :GW6581	
				Calibr	ration 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)	222,50153	6.33	4490	7 3900	4490	+/- 5 %	Ø No	
pH (4)	11/23		4.00	3,92	40	+/- 0 _. 1 SU	No No	l.
Mid-Day pH (4) check		/	4.00	3.96	4.0	+/- 0 1 SU	€ No	
pH (7)	2216893	7.42	7.00	7.05	7.0	+/- 0 1 SU	No No	
Mid-Day pH (7) check	V	/	7.00	7.06	70	+/- 0,1 SU	Ves No	
pH (10)	212320202	7,69	10.00	10.19	10.6	+/- 0 ₋ 1 SU	(es) No	
Mid-Day pH (10) check	Ů	/	10.00	9.97	10.0	+/- 0 ₋ 1 SU	No No	
ORP (mV)	21390144	7.59	228	242.8	228	+/- 20mV	YA No	
DO (%) pt, 100% water saturated air cal			100	100.62	100	+/- 6 % saturation	No No	
Turbidity 0 NTU			0	0.35	0.0	+/- 0 5 NTU	€ No	
Turbidity 1 NTU			1.00	0.72	1.00	+/- 0 5 NTU	Yes No	
Turbidity 10 NTU			10.00	10.83	10.00	+/- 0.5 NTU	No No	

Geosyntec Consultants			E	QUIPMENT CA	LIBRATION LO	OG		
Field Technician 10 mg.	s Kessle			Date 1/74	12023		Time (start)	700_ Time (finish): 0750
smarTroll SN 850724		_		Turbidity Meter Type: LaMote 2020we SN: S896-3715 Facility and Unit Plant Hammer O Project No. GW6581				
				Calibra	ation 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)	2 27 SC(53		4490	4166.0	4490	+/- 5 %	No No	
pH (4)	11/73	7.55	4.00	3.91	4.00	+/- 0 1 SU	Yes No	
Mid-Day pH (4) check	2716893	9.28	4.00	401		+/- 0.1 SU	No No	
рН (7)	7714893	9.76	7.00	7.00	7.00	+/- 0 1 SU	Yes No	
Mid-Day pH (7) check	<i>t</i>		7.00	6.98		+/- 0_1 SU	Ges No	
pH (10)	713/0002	9.94	10.00	10.13	1000	+/- 0 1 SU	(Yes) No	
Mid-Day pH (10) check	T.		10.00	10.00		+/- 0.1 SU	Yes No	
ORP (mV)	213901441 1173	10.09	228	740.4	778	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	100.44	100	+/- 6 % saturation	Yes No	
Turbidity 0 NTU			0	0 11	0-04	+/- 0,5 NTU	Yes No	
Turbidity 1 NTU			1.00	1.07	1.00	+/- 0.5 NTU	Yes No	
Turbidity 10 NTU			10.00	10.34	9.98	+/- 0.5 NTU	(Yes) No	

Geosyntec®			E	QUIPMENT CA	LIBRATION L	OG	11/3	
Field Technician A Sal	vait			Date 1/26/	2023		Time (start): 2	25
smarTroll SN 88353		_		Turbidity Meter Type	LaMote 2020we	SN 7007-1416 Project No GW6581		
Wedner Conditions					ration log			1 - 1 TO 1 TO 1 TO 1
	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)	22250153	5.40	4490	4588.8	4440	+/- 5 %	Yes No	
pH (4)	11/2023	5.90	4.00	3.84	4.00	+/- 0 1 SU	Yes No	
Mid-Day pH (4) check	-		4.00			+/- 0 1 SU	Yes No	
pH (7)	2216893	6,34	7.00	6,95	7.00	+/- 0 1 SU	Yes No	
Mid-Day pH (7) check			7.00			+/- U.1 SU	Yes No	-
pH (10)	21320202	6.64	10.00	10.16	10,00	+/- 0 1 SU	(Fes) No	
Mid-Day pH (10) check			10.00			+/- 0 1 SU	Yes No.	
ORP (mV)	21390144	6.75	228	234,5	228.0	+/- 20mV	Yes No	
DO (%) (1pt, 100% water saturated air cal)			100	97.85	100.0	+/- 6 % saturation	Yes No	
Turbidity 0 NTU			0	0.00-	_	+/- 0 5 NTU	Yes No	
Turbidity 1 NTU			1.00	0.61	0,80	+/- 0 5 NTU	Yes No	
Turbidity 10 NTU			10.00	12,36	10.03	+/- 0 5 NTU	Yes No	

Geosyntec [▷] consultants			E	QUIPMENT CA	LIBRATION LO	OG						
Field Technician C. CAIN				Date 1/26/2	3		Time (start)	Time (finish):				
smarTroll SN966 0 40		_			LaMote 2020we		sn _ 7 209					
Weather Conditions Claudg	41	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)	22250153	9.93	4490	4489	4490	+/- 5 %	⊘ s No					
p H (4)	11/23		4.00	4.03	4.0	+/- 0 1 SU	O No					
Mid-Day pH (4) check	•	/	4.00	4.01	4.0	+/- 0 1 SU	Creg No					
рН (7)	2216893	10.55	7.00	7.04.	7.0	+/- 0 1 SU	No No					
Mid-Day pH (7) check	T.	/	7.00	7.07	7.0	+/- 0 1 SU	No No					
рН (10)	212320202	10.64	10.00	10.10	10.0	+/- 0 1 SU	No No					
Mid-Day pH (10) check	Ţ	/	10.00	9.94	10.6	+/- 0 1 SU	No No					
ORP (mV)	2/390149	10.54	228	232.7	228	+/- 20mV	No No					
DO (%) (1pt, 100% water saturated air cal)			100	99.37	(OD	+/- 6 % saturation	No No					
Turbidity 0 NTU			0	0.01	0.0	+/- 0 5 NTU	Ø No					
Turbidity 1 NTU			1.00	1.18	1.00	+/- 0 5 NTU	√2 No					
Turbidity 10 NTU			10.00	(0.12	10-00	+/- 0 5 NTU	Ves No					

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Geosyntec Consultants	consultants EQUITATENT CALIBRATION DOG											
Field Technician Tromas	Kesslur			Date 1/76/2	073		Time (start)	Time (finish): Toos				
Field Technician Thomas smarTroll SN SC Weather Conditions	714	•		Turbidity Meter Type	LaMote 2020we		SN S 866-379 Project No GW6581					
Weather Conditions	eg (MEA.X		ation 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)	77750183	ان 7۲	4490	7116	4490	+/- 5 %	No No					
рН (4)	11/73		4.00	4.6	4.03	+/- 0.1 SU	Yes No					
Mid-Day pH (4) check	4	15.39	4.00	3.85	4,00	+/- 0 1 SU	(Yes) No	Recal				
рН (7)	2716893 11123	10.415	7.00	7.02	7.00	+/- 0,1 SU	Ves No					
Mid-Day pH (7) check			7.00	6.40		+/- 0 1 SU	Yes No					
pH (10)	7137676	(6.68	10.00	9.95	10.00	+/- 0 1 S U	Yes No					
Mid-Day pH (10) check			_ 10.00	9,90		+/- 0 1 SU	Yes No					
ORP (mV)	71390174	10.79	228	2336	778	+/- 20mV	Yes No					
DO (%) (1pt, 100% water saturated air cal)			100	99.99	106.00	+/- 6 % saturation	Yes No					
Turbidity 0 NTU			0	0.21	00	+/- 0 5 NTU	Yes No					
Turbidity 1 NTU			1.00	0.99	1000	+/- 0.5 NTU	(Yes) No					
Turbidity 10 NTU			10.00	(0.45	10.0	+/- 0.5 NTU	Yes No					

Geosyntec consultants			E	QUIPMENT CA	LIBRATION LO	DG				
field Technician A. Szw	rust			Date 1/27/	2023		Time (start):	Time (finish)		
marTroll SN 8835	33			Turbidity Meter Type:	LaMote 2020we		SN 7007-1416			
	30 "F			Facility and Unit:	unt Hamme	nd	Project NoGW6581			
				Calibra	ation log			THE SEALEN STREET		
	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)	55520123	1,91	4490	4484.4	4490.0	+/- 5 %	(Yes) No			
pH (4)	11/2023	3.33	4.00	4.04	4.00	+/- 0 1 SU	Yes No			
Mid-Day pH (4) check			4.00		•	+/- 0.1 SU	Yes No.	check white purgons well		
рН (7)	11/2023	3,19	7.00	7.08	7.00	+/- 0 1 SU	Yes No			
Mid-Day pH (7) check			7.00				Ves No			
рН (10)	12/20202	3,58	10.00	404	10.00	+/- 0 1 SU	Yes No	10.15 = initial reading		
Mid-Day pH (10) check			10.00				Yes No			
ORP (mV)	2139/144	3,75	228	233,2	228.0	+/- 20mV	Yes No			
DO (%) 1pt, 100% water saturated air cal)			100	93.64	100.0	+/- 6 % saturation	Yes No			
Turbidity 0 NTU			0	0,03	~	+/- 0 5 NTU	(Yes) No			
Turbidity 1 NTU			1.00	8×21.00	t: 42	+/- 0 5 NTU	Yes No	New 1 NTU stempland ? 1.00		
Turbidity 10 NTU			10.00	12.07	10.00	+/- 0 5 NTU	Yès No			

Geosyntec D			E	QUIPMENT CA	LIBRATION LO	OG	n ay i sw		
Field Technician	/			Date 1/27/23			Time (start): 0 745	Time (finish) _0815	
smarTroll SN 966 040				Turbidity Meter Type _		_	SN 709		
Weather Conditions Source	31	_		Facility and Unit	ent Hommon	<u>d</u>	Project No		
				Calibr	ation log			All Alland	
	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)	22250153	7:22	4490	4421	4496	+/- 5 %	6 No		
pH (4)	723		4.00	3.98	4.0	+/- 0 1 SU	€ No		
Mid-Day pH (4) check	+	/	4.00	4.01	4.0	+/- 0 1 SU	₩ No		
рН (7)	2216893	7.56	7.00	7.05	7.0	+/- 0 1 SU	₩ No		
Mid-Day pH (7) check	↓	/	7.00	7.06	70	+/- 0 1 SU	No No		
рН (10)	212320202	7.81	10.00	16.04	10-0	+/- 0 1 SU	₩ No		
Mid-Day pH (10) check	1	/	10.00	10.04	10.0	+/- 0 1 SU	₩ No		
ORP (mV)	21390144	7.65	228	232.7	228	+/- 20mV	No No		
DO (%) (1pt, 100% water saturated air cal			100	99.42	100	+/- 6 % saturation	No No		
Turbidity 0 NTU			0	0. a	0.00	+/- 0 5 NTU	(es) No		
Turbidity 1 NTU			1.00	1.08	1.00	+/- 0 5 NTU	© No		
Turbidity 10 NTU			10.00	9.81	10.0	+/- 0 5 NTU	Us No		

Geosyntec Deconsultants EQUIPMENT CALIBRATION LOG												
Field Technician: Manus West W				Date :			Time (start): Time (finish): 1330					
weather Conditions: Sunny 45°				Turbidity Meter Type:	Plant Hay	nungre)	SN: 5 846-3713 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)	2795053	1539	4490	47735	4490	+/- 5 %	Yes No					
pH (4)	11/23		4.00	4.38	4.0	+/- 0.1 SU	Yes No					
Mid-Day pH (4) check		-	4.00			+/- 0 1 SU	Yes No					
рН (7)	2716843	17.87	7.00	6.57	7'00	+/- 0.1 SU	Yes No					
Mid-Day pH (7) check			7.00			+/- 0 1 SU	Yes No					
рН (10)	2137000	12.32	10.00	9.53	10,00	+/- 0 1 SU	Yes No					
Mid-Day pH (10) check		_	10.00			+/- 0 1 SU	Yes No					
ORP (mV)	21390144	17.09	228	528.6	875	+/- 20mV	Yes No					
DO (%) (1pt, 100% water saturated air cal)			100	101.9)	wu	+/- 6 % saturation	(Yes) No					
Turbidity 0 NTU			0	0.38	O-G.e	+/- 0 5 NTU	Yes No					
Turbidity 1 NTU			1.00	0.98	1.00	+/- 0 5 NTU	Yes No					
Turbidity 10 NTU			10.00	4.88	(0.00	+/- 0 5 NTU	Yes No					

Geosyntec Consultants			E	QUIPMENT CA	LIBRATION L	OG	in the sa		
Field Technician A. 5	Date 2/1/2023				Time (start) 9	Time (finish): 820			
smarTroll SN			Turbidity Meter TypeLaMote 2020we				SN 7007-1416		
Weather Conditions Cloudy 45%				Facility and Unit: 7/	ant Hamm	Project NoGW6581			
				Calibr	ation 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)	22250153	9.62	4490	4236.0	4490.0	+/- 5 %	Yes No	_	
pH (4)	11/2023	9,73	4.00	3,95	4.00	+/- 0 1 SU	Yes No		
Mid-Day pH (4) check			4.00			- I/O.I.SU	Yes No		
рН (7)	2216893	9.48	7.00	7.03	7.00	+/- 0 1 SU	Yes No		
Mid-Day pH (7) check			7.00	•			Yes No		
рН (10)	21320202	10.17	10.00	tv.15	10.00	+/- 0 1 SU	Yes No		
Mid-Day pH (10) check			10.00			+/- 0.11 SC	Yes No		
ORP (mV)	21390144	10,20	228	233,6	228:0	+/- 20mV	Yes No		
DO (%) (1pt, 100% water saturated air cal			100	99.54	100.0	+/- 6 % saturation	Yes No		
Turbidity 0 NTU			0	0.15	0.00	+/- 0 5 NTU	Yes No		
Turbidity 1 NTU			1.00	1.08		+/- 0 5 NTU	Yes No		
Turbidity 10 NTU			10.00	8.18	9.72	+/- 0.5 NTU	(Yes) No		

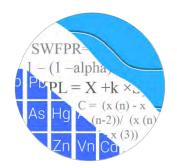
APPENDIX C

Statistical Analysis Report

GROUNDWATER STATS CONSULTING

August 31, 2023

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



Re: Plant Hammond Ash Pond 1 (AP-1)

Statistical Analysis – January/February 2023 Sample Event

Dear Ms. Jurinko,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the January/February 2023 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:

- o **Upgradient wells:** HGWA-1, HGWA-2, HGWA-3, HGWA-43D, and HGWA-44D
- Downgradient wells: HGWC-7, HGWC-8, HGWC-9, HGWC-10, HGWC-11, HGWC-12, and HGWC-13
- Assessment wells: MW-5, MW-6, MW-7, MW-19, MW-20, MW-24D, MW-25D, MW-26D, MW-27D, MW-28D, and MW-29

Sampling at upgradient wells HGWA-43D and HGWA-44D began in September 2020 and all data from these wells are included in construction of interwell statistical limits.

Data from assessment wells, which were first sampled in March 2019, are included on time series and box plots for all parameters. When a minimum of 4 samples is available, data at these wells are evaluated using confidence intervals for the Appendix IV constituents. Wells MW-30D and MW-40D were included as assessment wells during previous reporting periods, but each was reclassified as a "piezometer" based on the findings presented in the alternate source demonstration included as an appendix of the 2020 Annual Groundwater Monitoring & Corrective Action Report, submitted to Georgia EPD in January 2021. Because of this reclassification, data for wells MW-30D and MW-40D are not presented in this report.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician to Groundwater Stats Consulting. The statistical analysis was performed according to the groundwater screening that was performed in April 2018 by GSC and approved by Dr. Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance (2009).

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- Appendix III (Detection Monitoring) boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV (Assessment Monitoring) antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient and assessment well/constituent pairs with 100% non-detects follows this letter.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data. In the cases of lithium and thallium, historical reporting limits vary among the wells. Therefore, the reporting limits of 0.03 mg/L and 0.001 mg/L, respectively, were substituted across all wells, which is the most recent reporting limit provided by the laboratory. Additionally, during the January/February sample event, elevated reporting limits of 0.025 mg/L were observed for both chromium and cobalt at well HGWC-8 as a result of dilution factors. The most recent reporting limit of 0.005 mg/L found at all other wells for both constituents was substituted in lieu of the elevated reporting limit.

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% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, 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 nondetect 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 – January/February 2023

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 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The January/February 2023 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 January/February 2023 compliance data from downgradient wells were compared to interwell prediction limits, exceedances were identified for the following well/constituent pairs:

Boron: HGWC-11, HGWC-12, HGWC-13, HGWC-7, HGWC-8, and

HGWC-9

Calcium: HGWC-12, HGWC-13, and HGWC-9

• Chloride: HGWC-8 and HGWC-9

• Sulfate: HGWC-11, HGWC-12, HGWC-13, HGWC-7, HGWC-8, and

HGWC-9

TDS: HGWC-13 and HGWC-9

A summary table of these findings is provided along with the prediction limits.

<u>Trend Test Evaluation – Appendix III</u>

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 at the 99% confidence level (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 variability in groundwater unrelated to practices at the site. A summary of the trend test results follows this letter. Statistically significant trends were noted for the following well/constituent pairs:

Increasing trends:

Boron: HGWA-2 (upgradient) and HGWC-7

Calcium: HGWA-3 (upgradient)
 Chloride: HGWA-44D (upgradient)
 Sulfate: HGWA-2 (upgradient)

Decreasing trends:

• Boron: HGWC-12 and HGWC-13

• Chloride: HGWA-3 (upgradient), HGWC-8, and HGWC-9

Sulfate: HGWA-43D (upgradient)

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 – January/February 2023

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 2023 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 2023 were constructed for each of the Appendix IV constituents in each downgradient well and assessment wells with 4 or more samples.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Confidence intervals were compared to the GWPS prepared as described above (Figure H). As mentioned above, a reporting limit of 0.005 mg/L was substituted for both chromium and cobalt. 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:

HGWC-13 Arsenic: Molybdenum: HGWC-8

<u>Trend Test Evaluation – Appendix IV</u>

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 variability in groundwater quality unrelated to practices at the site. A summary of the Appendix IV trend test results follows this letter. No statistically significant increasing or decreasing trends were identified

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Hammond AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew Collins

Project Manager

Kristina Rayner Senior Statistician

Kristina Rayner

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

100% Non-Detects: Appendix IV Downgradient & Assessment

Analysis Run 4/14/2023 1:04 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 4/14/	/2023, 12:3	89 PM					
Constituent	Well	Upper Lir	n. Lower Lin	n. Date	Observ.	Sig. Bg N Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	HGWC-11	0.44	n/a	1/26/2023	0.5	Yes 80 n/a	n/a	5	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.44	n/a	1/26/2023	1.5	Yes 80 n/a	n/a	5	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	1/26/2023	0.83	Yes 80 n/a	n/a	5	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-7	0.44	n/a	1/27/2023	0.93	Yes 80 n/a	n/a	5	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.44	n/a	2/1/2023	1.9	Yes 80 n/a	n/a	5	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	1/26/2023	1.9	Yes 80 n/a	n/a	5	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	1/26/2023	154	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	1/26/2023	234	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	1/26/2023	173	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	2/1/2023	52.4	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	1/26/2023	86.9	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	88.2	n/a	1/26/2023	209	Yes 80 n/a	n/a	1.25	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	88.2	n/a	1/26/2023	228	Yes 80 n/a	n/a	1.25	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	88.2	n/a	1/26/2023	495	Yes 80 n/a	n/a	1.25	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	88.2	n/a	1/27/2023	119	Yes 80 n/a	n/a	1.25	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	88.2	n/a	2/1/2023	179	Yes 80 n/a	n/a	1.25	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	88.2	n/a	1/26/2023	217	Yes 80 n/a	n/a	1.25	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-13	632	n/a	1/26/2023	962	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-9	632	n/a	1/26/2023	745	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Data: Hammond AP-1 Printed 4/14/2023, 12:39 PM Plant Hammond Client: Southern Company Constituent Well Sig. Bg N Bg Mean Std. Dev %NDs ND Adj. Upper Lim. Lower Lim. Observ. 0.065 HGWC-10 1/27/2023 No 80 5 Boron (mg/L) 0.44 n/a n/a n/a 0.0002983 NP Inter (normality) 1 of 2 n/a n/a 0.44 0.0002983 NP Inter (normality) 1 of 2 Boron (mg/L) HGWC-11 n/a 1/26/2023 0.5 Yes 80 n/a n/a 5 n/a n/a HGWC-12 Boron (ma/L) 0.44 n/a 1/26/2023 1.5 Yes 80 0.0002983 NP Inter (normality) 1 of 2 n/a n/a n/a n/a Boron (mg/L) HGWC-13 n/a 1/26/2023 0.83 Yes 80 5 n/a 0.0002983 NP Inter (normality) 1 of 2 HGWC-7 1/27/2023 0.93 Yes 80 n/a 0.0002983 NP Inter (normality) 1 of 2 Boron (mg/L) 0.44 n/a n/a n/a n/a HGWC-8 2/1/2023 Boron (mg/L) 0.44 n/a 1.9 Yes 80 n/a 0.0002983 NP Inter (normality) 1 of 2 HGWC-9 Boron (mg/L) 0.44 n/a 1/26/2023 1.9 Yes 80 n/a n/a n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Calcium (mg/L) HGWC-10 138 1/27/2023 60.4 80 0.0002983 NP Inter (normality) 1 of 2 Calcium (mg/L) HGWC-11 138 n/a 1/26/2023 113 Nο 80 n/a n/a 0 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Calcium (mg/L) HGWC-12 138 n/a 1/26/2023 154 Yes 80 n/a n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Calcium (mg/L) HGWC-13 138 n/a 1/26/2023 234 Yes 80 n/a n/a n/a n/a 0.0002983 NP Inter (normality) 1 of 2 HGWC-7 1/27/2023 Calcium (mg/L) 138 124 80 0 n/a 0.0002983 NP Inter (normality) 1 of 2 HGWC-8 2/1/2023 80 NP Inter (normality) 1 of 2 Calcium (mg/L) 138 n/a 110 No n/a n/a 0 n/a n/a 0.0002983 Calcium (mg/L) HGWC-9 138 n/a 1/26/2023 173 Yes n/a n/a n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Chloride (mg/L) HGWC-10 44 8 n/a 1/27/2023 16 Nο 80 n/a n/a n n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Chloride (mg/L) HGWC-11 1/26/2023 8.8 No 80 0.0002983 NP Inter (normality) 1 of 2 n/a n/a n/a n/a n/a Chloride (mg/L) HGWC-12 44.8 n/a 1/26/2023 34.6 No 80 n/a n/a 0 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 HGWC-13 1/26/2023 12.5 n/a 0.0002983 NP Inter (normality) 1 of 2 Chloride (mg/L) 44.8 n/a 80 No n/a n/a n/a Chloride (mg/L) HGWC-7 44.8 n/a 1/27/2023 40 No 80 n/a n/a 0 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Chloride (ma/L) HGWC-8 44.8 n/a 2/1/2023 52.4 Yes 80 n/a n/a n/a 0.0002983 NP Inter (normality) 1 of 2 n/a Chloride (mg/L) HGWC-9 n/a 1/26/2023 86.9 80 n/a 0.0002983 NP Inter (normality) 1 of 2 44.8 Yes n/a n/a 0 n/a Fluoride (mg/L) HGWC-10 1.3 n/a 1/27/2023 0.16 94 28.72 n/a 0.0002194 NP Inter (normality) 1 of 2 n/a n/a n/a No 1/26/2023 HGWC-11 1.3 0.2 28.72 0.0002194 Fluoride (mg/L) n/a No 94 n/a NP Inter (normality) 1 of 2 Fluoride (mg/L) HGWC-12 1.3 n/a 1/26/2023 0.21 No 94 n/a n/a 28.72 n/a n/a 0.0002194 NP Inter (normality) 1 of 2 Fluoride (mg/L) HGWC-13 1.3 n/a 1/26/2023 0.4 No 94 28.72 n/a n/a 0.0002194 NP Inter (normality) 1 of 2 Fluoride (mg/L) HGWC-7 1/27/2023 0.1 94 NP Inter (normality) 1 of 2 1.3 n/a Nο n/a n/a 28.72 n/a n/a 0.0002194 HGWC-8 1.3 2/1/2023 0.4 94 28.72 0.0002194 Fluoride (mg/L) n/a n/a n/a NP Inter (normality) 1 of 2 HGWC-9 Fluoride (mg/L) 1.3 1/26/2023 0.11 94 28.72 0.0002194 NP Inter (normality) 1 of 2 n/a No n/a n/a n/a n/a HGWC-10 4.9 1/27/2023 0.0004864 pH, Field (SU) 8.25 6.89 89 0 n/a NP Inter (normality) 1 of 2 pH, Field (SU) HGWC-11 8.25 4.9 1/26/2023 6.23 No 89 n/a n/a 0 n/a n/a 0.0004864 NP Inter (normality) 1 of 2 pH. Field (SU) HGWC-12 8.25 4.9 1/26/2023 7.1 No 89 n/a n/a 0.0004864 NP Inter (normality) 1 of 2 HGWC-13 pH, Field (SU) 8 25 49 1/26/2023 6.9 Nο 89 n/a n/a n n/a n/a 0.0004864 NP Inter (normality) 1 of 2 pH, Field (SU) HGWC-7 8.25 4.9 1/27/2023 7.25 No 89 n/a 0.0004864 NP Inter (normality) 1 of 2 n/a n/a n/a pH, Field (SU) HGWC-8 8.25 4.9 2/1/2023 6.6 Nο 89 n/a n/a 0 n/a n/a 0.0004864 NP Inter (normality) 1 of 2 pH, Field (SU) HGWC-9 8.25 4.9 1/26/2023 7.07 89 n/a 0.0004864 NP Inter (normality) 1 of 2 No n/a n/a n/a Sulfate (mg/L) HGWC-10 88.2 n/a 1/27/2023 37.3 No 80 n/a n/a 1.25 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Sulfate (mg/L) HGWC-11 88.2 n/a 1/26/2023 209 Yes 80 n/a n/a 1.25 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Sulfate (mg/L) HGWC-12 n/a 1/26/2023 228 80 n/a 1.25 n/a 0.0002983 NP Inter (normality) 1 of 2 n/a HGWC-13 495 n/a 1/26/2023 Yes 80 n/a 0.0002983 NP Inter (normality) 1 of 2 Sulfate (mg/L) n/a 1.25 n/a n/a 88.2 Sulfate (mg/L) HGWC-7 88.2 n/a 1/27/2023 119 Yes 80 n/a 1.25 n/a 0.0002983 NP Inter (normality) 1 of 2 n/a n/a Sulfate (mg/L) HGWC-8 88.2 n/a 2/1/2023 179 Yes 80 n/a 1.25 n/a 0.0002983 NP Inter (normality) 1 of 2 n/a n/a HGWC-9 1/26/2023 217 Sulfate (mg/L) n/a 80 1.25 0.0002983 NP Inter (normality) 1 of 2 Total Dissolved Solids (mg/L) HGWC-10 n/a 1/27/2023 188 80 0.0002983 NP Inter (normality) 1 of 2 632 n/a n/a 0 n/a No n/a Total Dissolved Solids (mg/L) HGWC-11 632 n/a 1/26/2023 429 80 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 No n/a 0 Total Dissolved Solids (mg/L) HGWC-12 632 n/a 1/26/2023 624 80 0.0002983 NP Inter (normality) 1 of 2 No n/a n/a n/a n/a Total Dissolved Solids (mg/L) HGWC-13 1/26/2023 632 n/a 962 80 0.0002983 NP Inter (normality) 1 of 2 Total Dissolved Solids (mg/L) HGWC-7 1/27/2023 473 632 n/a No 80 n/a n/a 0 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Total Dissolved Solids (mg/L) HGWC-8 n/a 2/1/2023 528 80 0.0002983 632 No n/a 0 n/a n/a NP Inter (normality) 1 of 2 Total Dissolved Solids (mg/L) HGWC-9 1/26/2023 0.0002983 632 n/a 745 Yes 80 n/a n/a n/a n/a NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:44 PM

	Plant Hammond Client: Southern Compa	P-1 Printed 4/14/2023, 12:44 PM									
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	<u>%NDs</u>	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	HGWA-2 (bg)	0.002417	122	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-12	-0.1782	-97	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-13	-0.246	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-7	0.04008	125	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.343	113	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.1308	-102	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	8.893	28	25	Yes	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-8	-9.384	-113	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-9	-12.17	-134	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.847	118	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-2.015	-26	-25	Yes	9	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:44 PM

	Transfer Compa	any Data. He	illilliona A	-1 111110	cu 4/ 1-	*/2025,	12.77 1	IVI			
Constituent	Well	<u>Slope</u>	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	HGWA-1 (bg)	-0.0005071	-38	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-2 (bg)	0.002417	122	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-3 (bg)	0.0004174	28	87	No	21	19.05	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-43D (bg)	-0.009889	-24	-25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-44D (bg)	0.06482	20	25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-11	-0.1651	-74	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-12	-0.1782	-97	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-13	-0.246	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-7	0.04008	125	92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-8	-0.0007786	-3	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.05878	64	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-1 (bg)	2.482	68	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-2 (bg)	0.8789	66	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.343	113	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-43D (bg)	-3.051	-16	-25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-44D (bg)	-7.217	-20	-25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-12	-4.398	-55	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-13	18.24	66	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-9	0.9669	42	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.6249	63	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	-0.02813	-10	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.1308	-102	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-43D (bg)	0	-2	-25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	8.893	28	25	Yes	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-8	-9.384	-113	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-9	-12.17	-134	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-1 (bg)	1.051	29	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.847	118	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-3 (bg)	0.5404	34	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-2.015	-26	-25	Yes	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-44D (bg)	3.569	14	25	No	9	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-11	-8.003	-34	-81	No	20	5	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-12	-9.947	-60	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-13	45.96	62	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-7	0	12	92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-8	-3.675	-27	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-9	-2.98	-41	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	3.042	16	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-2 (bg)	2.559	17	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-3 (bg)	1.746	27	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-43D (bg)	-6.294	-12	-25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-44D (bg)	39.45	22	25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-13	52.01	56	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-9	-33.15	-52	-81	No	20	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:49 PM %NDs ND Adj. Constituent <u>Well</u> Upper Lim. Lower Lim. <u>Date</u> Observ. Sig.Bg N Bg Mean Std. Dev. Transform Alpha Method 0.003 n/a 83 80.72 n/a 0.01416 NP Inter(NDs) Antimony (mg/L) n/a n/a n/a n/a n/a n/a n/a 0.005 n/a 89 66.29 n/a 0.01041 NP Inter(NDs) Arsenic (mg/L) n/a n/a n/a n/a n/a n/a n/a Barium (mg/L) 0.46 n/a 89 0 n/a 0.01041 NP Inter(normality) n/a n/a n/a n/a n/a n/a n/a Beryllium (mg/L) n/a 0.0005 n/a n/a n/a 83 78.31 n/a 0.01416 NP Inter(NDs) 0.0005 0.01416 NP Inter(NDs) Cadmium (mg/L) n/a n/a n/a n/a n/a 83 n/a n/a 85.54 n/a n/a 0.01416 NP Inter(NDs) Chromium (mg/L) n/a 0.0079 n/a n/a n/a 83 83.13 n/a n/a Cobalt (mg/L) 0.038 72.29 n/a 0.01416 NP Inter(NDs) n/a n/a n/a n/a 83 n/a n/a n/a n/a Combined Radium 226 + 228 (pCi/L) 4.36 n/a n/a 89 0.01041 NP Inter(normality) 0.008054 NP Inter(normality) Fluoride (mg/L) 1.3 28.72 n/a n/a n/a n/a n/a n/a 94 n/a n/a n/a Lead (mg/L) n/a 0.001 n/a 80 68.75 n/a 0.01652 NP Inter(NDs) 0.064 0.01041 NP Inter(normality) Lithium (mg/L) n/a 89 n/a 19.1 n/a n/a n/a n/a n/a n/a n/a Mercury (mg/L) 0.0002 n/a 61 96.72 n/a 0.04377 NP Inter(NDs) 0.009394 NP Inter(NDs) Molybdenum (mg/L) 0.01 78.02 n/a n/a n/a n/a n/a n/a 91 n/a n/a n/a Selenium (mg/L) n/a 0.005 n/a 89 97.75 n/a 0.01041 NP Inter(NDs) Thallium (mg/L) 0.001 98.88 n/a 0.01041 NP Inter(NDs) n/a n/a n/a n/a n/a 89 n/a n/a n/a

PLANT I	PLANT HAMMOND AP-1 GWPS											
		CCR-Rule	Background									
Constituent Name	MCL	Specified	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		1.3	4								
Lead, Total (mg/L)	n/a	0.015	0.001	0.015								
Lithium, Total (mg/L)	n/a	0.04	0.064	0.064								
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 indidcates background is higher than MCL or CCR-Rule

^{*}MCL = Maximum Contaminant Level

^{*}CCR = Coal Combustion Residuals

^{*}GWPS = Groundwater Protection Statard

Confidence Intervals - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:13 PM Constituent Well Upper Lim. Lower Lim. Compliance Sig. N Mean Std. Dev. %NDs ND Adj. <u>Transform</u> <u>Alpha</u> <u>Method</u> Arsenic (mg/L) HGWC-13 0.4311 0.3628 0.01 Yes 23 0.397 0.06529 0 None No 0.01 Param. HGWC-8 0.4856 0.4241 0.1 0.06596 0 None Molybdenum (mg/L) Yes 24 0.4513 0.01 Param. x^2

								1 (Court					
	Pla	nt Hammond	Client: Southerr	Company	Data:	Ham	mond AP-1	Printed 4/14/20)23, 1:13	3 PM			
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	HGWC-10	0.003	0.0018	0.006	No	21	0.002831	0.000564	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-11	0.003	0.00038	0.006	No	21	0.002875	0.0005717	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-13	0.003	0.00047	0.006	No	21	0.00213	0.001263	66.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-7	0.003	0.0017	0.006	No	22	0.00282	0.0006192	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-8	0.003	0.00064	0.006	No	21	0.002888	0.000515	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-9	0.003	0.00092	0.006	No	21	0.002528	0.001002	80.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-24D	0.003	0.0017	0.006	No	12	0.002892	0.0003753	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-26D	0.003	0.002	0.006	No	12	0.002775	0.0005463	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-27D	0.003	0.0003	0.006	No	12	0.001652	0.001409	50	None	No	0.01	NP (normality)
Antimony (mg/L)	MW-28D	0.003	0.0019	0.006	No	12	0.002908	0.0003175	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-29	0.003	0.00094	0.006	No	12	0.002828	0.0005947	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-6	0.003	0.0014	0.006	No	12	0.002867	0.0004619	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-7	0.003	0.00086	0.006	No	12	0.002398	0.0009593	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-11	0.005	0.0018	0.01	No	23	0.003554	0.001724	47.83	None	No	0.01	NP (normality)
Arsenic (mg/L)	HGWC-12	0.004183	0.002886	0.01	No	23	0.003535	0.00124	8.696	None	No	0.01	Param.
Arsenic (mg/L)	HGWC-13	0.4311	0.3628	0.01	Yes	23	0.397	0.06529	0	None	No	0.01	Param.
Arsenic (mg/L)	HGWC-7	0.005	0.0019	0.01	No	24	0.004871	0.0006328	95.83	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-8	0.005	0.002	0.01	No	23	0.00487	0.0006255	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-9	0.005	0.0021	0.01	No	23	0.004305	0.001573	82.61	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-19	0.005	0.00045	0.01	No	12	0.004621	0.001313	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-20	0.005	0.00094	0.01	No	12	0.004052	0.001767	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.001	0.01	No	12	0.003729	0.001895	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-26D	0.005	0.0008	0.01	No	12	0.004008	0.001811	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-27D	0.005	0.00069	0.01	No	12	0.003907	0.001984	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-28D	0.005	0.0011	0.01	No	12	0.004675	0.001126	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-29	0.005	0.00037	0.01	No	12	0.004614	0.001337	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-5	0.005	0.0013	0.01	No	12	0.004692	0.001068	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-6	0.005	0.0034	0.01	No	12	0.004867	0.0004619	91.67	None	No	0.01	NP (NDs)
Barium (mg/L)	HGWC-10	0.08399	0.06212	2	No	23	0.07306	0.02091	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-11	0.05051	0.03278	2	No	23	0.04283	0.01895	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	HGWC-12	0.123	0.083	2	No	23	0.09896	0.02104	0	None	No	0.01	NP (normality)
Barium (mg/L)	HGWC-13	0.08825	0.06754	2	No	23	0.0779	0.0198	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-7	0.07378	0.06797	2	No	24	0.07088	0.005696	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-8	0.07372	0.06219	2	No	23	0.06796	0.01102	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-9	0.1187	0.1011	2	No	23	0.1099	0.01686	0	None	No	0.01	Param.
Barium (mg/L)	MW-19	0.06184	0.04583	2	No	12	0.05383	0.01021	0	None	No	0.01	Param.
Barium (mg/L)	MW-20	0.09568	0.08599	2	No	12	0.09083	0.006177	0	None	No	0.01	Param.
Barium (mg/L)	MW-24D	0.081	0.048	2	No		0.0605	0.02098	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-25D	0.596	0.4157	2	No		0.5058	0.1149	0	None	No	0.01	Param.
Barium (mg/L)	MW-26D	0.1217	0.07335	2	No	12	0.0975	0.03078	0	None	No	0.01	Param.
Barium (mg/L)	MW-27D	1.2	0.94	2	No		1.056	0.1609	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-28D	0.7309	0.3408	2	No	12	0.5358	0.2486	0	None	No	0.01	Param.
Barium (mg/L)	MW-29	0.08349	0.07551	2	No		0.0795	0.00509	0	None	No	0.01	Param.
Barium (mg/L)	MW-5	0.05211	0.04456	2	No		0.04833	0.004812	0	None	No	0.01	Param.
Barium (mg/L)	MW-6	0.09038	0.07995	2	No		0.08517	0.006645	0	None	No	0.01	Param.
Barium (mg/L)	MW-7	0.0617	0.04896	2	No		0.05533	0.008117	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-11	0.0005	0.00012	0.004	No		0.0003713	0.000117		None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-13	0.0005	0.00012	0.004	No		0.0003713	0.0001073		None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-7	0.0005	0.00019	0.004	No		0.0004476	0.0001363		None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-8	0.003	0.00013	0.004	No		0.0004470	0.0001363	61.9	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-19	0.0005	0.000074	0.004	No		0.0004632	0.0001436	91.67		No	0.01	NP (NDs)
Beryllium (mg/L)	MW-28D	0.0005	0.000054	0.004	No		0.0004032	0.0001270	75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-7	0.0005	0.000054	0.004	No		0.0003932	0.0001909	91.67		No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-10	0.0005	0.000051	0.004	No		0.0004626	0.0001296		None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-10	0.0005	0.000113	0.005	No		0.0003721	0.0001804		None	No	0.01	NP (NDs)
(g, L/		0.0000	0.0001	5.500	. 10	-1	5.550-721	3.5501708	50.11			0.01	(.100)

Confidence intervals - All Nesults													
	PI	ant Hammond	Client: Souther	n Company	Data:	Han	nmond AP-1	Printed 4/14/2	023, 1:1	3 PM			
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Cadmium (mg/L)	HGWC-12	0.0005	0.0003	0.005	No	21	0.00044	0.0001313	80.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-7	0.0005	0.0002	0.005	No	22	0.0004268	0.0001394	77.27	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-8	0.0003	0.00017	0.005	No	21	0.0002924	0.0003358	4.762	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-9	0.0005	0.0002	0.005	No	21	0.0004462	0.0001368	85.71	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-19	0.0003417	0.0001502	0.005	No	12	0.0003508	0.0002735	25	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	HGWC-10	0.02	0.0012	0.1	No	21	0.005348	0.00355	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-11	0.005	0.0012	0.1	No	21	0.004386	0.001547	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-12	0.005	0.0025	0.1	No	21	0.004467	0.001382	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-13	0.005	0.00059	0.1	No	21	0.00436	0.001608	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-7	0.005	0.0021	0.1	No	22	0.006984	0.0144	68.18	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-8	0.005	0.0015	0.1	No	21	0.004215	0.001666	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-9	0.005	0.0013	0.1	No	21	0.004219	0.001657	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-19	0.005	0.00059	0.1	No	12	0.003035	0.002099	50	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-20	0.005	0.00068	0.1	No	12	0.003908	0.001975	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-24D	0.005	0.0017	0.1	No	12	0.004343	0.001558	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-25D	0.005	0.0012	0.1	No	12	0.004317	0.001599	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-26D	0.005	0.001	0.1	No	12	0.003505	0.001913	58.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-27D	0.005	0.00082	0.1	No		0.004293	0.001651	83.33		No	0.01	NP (NDs)
Chromium (mg/L)	MW-28D	0.005	0.00081	0.1	No		0.003137	0.002009	50	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-29	0.005	0.001	0.1	No		0.004667	0.001155	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-5	0.003948	0.002236	0.1	No		0.003092	0.001091	0	None	No	0.01	Param.
Chromium (mg/L)	MW-6	0.005	0.00059	0.1	No		0.003952	0.001908	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-7	0.005	0.0015	0.1	No		0.002292	0.001295	16.67		No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-10	0.005	0.0009	0.038	No		0.00379	0.001963		None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-11	0.005	0.0014	0.038	No		0.003103	0.001799		None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-12	0.0018	0.0012	0.038	No		0.00151	0.0004265		None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-13	0.004201	0.002611	0.038	No		0.003686	0.002213		None	ln(x)	0.01	Param.
Cobalt (mg/L)	HGWC-7	0.00147	0.0007471	0.038	No		0.001179	0.002216		None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	HGWC-8	0.002242	0.0007471	0.038	No		0.002094	0.0007410		None	No No	0.01	Param.
Cobalt (mg/L)	HGWC-9	0.002242	0.00051	0.038	No		0.002034	0.0002033		None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-19	0.04167	0.0295	0.038	No		0.03558	0.007751	0	None	No	0.01	Param.
	MW-20	0.005	0.0293	0.038	No		0.004675	0.007731	91.67		No	0.01	NP (NDs)
Cobalt (mg/L)	MW-24D	0.005	0.00011	0.038	No		0.003909	0.001126	75	None		0.01	NP (NDs)
Cobalt (mg/L) Cobalt (mg/L)	MW-26D	0.005	0.00036	0.038	No		0.003909	0.001962		None	No No	0.01	NP (NDs) NP (normality)
									75				, .,
Cobalt (mg/L)	MW-27D	0.005	0.0004	0.038	No		0.003828	0.002121		None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-28D	0.005	0.00093	0.038	No		0.004661	0.001175		None	No No	0.01	NP (NDs)
Cobalt (mg/L)	MW-29	0.001228	0.0007098	0.038	No		0.0009692	0.0003305	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-6	0.005	0.00041	0.038	No		0.001263	0.001752	16.67		No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	HGWC-10	1.067	0.604	5	No		0.8353	0.4423	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-11	1.134	0.6526	5	No		0.8934	0.4603	0	None	No No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-12	1.031	0.5721	5	No		0.8014	0.4385	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-13	0.9792	0.5965	5	No		0.7879	0.3658	0	None	No (/)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-7	0.8409	0.4167	5	No		0.6782	0.4762	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-8	0.9538	0.656	5	No		0.8049	0.2847	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-9	0.8913	0.5289	5	No		0.7101	0.3464	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-19	0.9587	0.412	5	No		0.6853	0.3484	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	1.002	0.3888	5	No		0.6953	0.3906	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	0.5788	0.1374	5	No		0.3767	0.3495	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	1.279	0.8145	5	No		1.047	0.296	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26D	0.9284	0.1186	5	No		0.5235	0.516	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-27D	1.544	0.8213	5	No		1.196	0.5082	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-28D	1.385	0.6077	5	No		0.9962	0.4951	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-29	0.9393	0.3837	5	No		0.6615	0.354	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5	0.9737	0.5478	5	No		0.7608	0.2714	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	1.015	0.4421	5	No	12	0.7613	0.4499	0	None	ln(x)	0.01	Param.

Confidence intervals - All													
	Pla	ant Hammond	Client: Southern	n Company	Data:	Han	nmond AP-1	Printed 4/14/20	023, 1:1:	3 PM			
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Combined Radium 226 + 228 (pCi/L)	MW-7	1.18	0.5086	5	No	12	0.8444	0.428	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-10	0.1861	0.08031	4	No	24	0.174	0.1317	16.67	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-11	0.3995	0.2471	4	No	24	0.3355	0.1595	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-12	0.34	0.17	4	No	24	0.3084	0.2332	4.167	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-13	0.687	0.5004	4	No	24	0.5937	0.1829	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-7	0.15	0.084	4	No	26	0.145	0.1052	7.692	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-8	0.63	0.45	4	No	25	0.556	0.1706	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-9	0.2386	0.1022	4	No	24	0.1895	0.1498	8.333	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-19	0.2612	0.1025	4	No	12	0.1892	0.1289	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-20	0.1	0.074	4	No	12	0.09392	0.01119	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-24D	0.09451	0.04923	4	No	12	0.0855	0.03602	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-25D	1.7	1.4	4	No	12	1.625	0.2006	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-26D	0.1259	0.05694	4	No	12	0.09142	0.04394	8.333	None	No	0.01	Param.
Fluoride (mg/L)	MW-27D	0.3	0.22	4	No	12	0.2683	0.05219	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-28D	0.2415	0.1635	4	No	12	0.2025	0.04975	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-29	0.18	0.068	4	No	12	0.09433	0.03293	58.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-5	0.0865	0.05882	4	No	12	0.0795	0.01968	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-6	0.1052	0.05616	4	No		0.09983	0.05	16.67	•	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-7	0.17	0.069	4	No		0.09808	0.0268	66.67	•	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-10	0.001	0.00005	0.015	No		0.00095	0.0002179	94.74	•	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-11	0.001	0.00021	0.015	No		0.0007399	0.0003974		None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-12	0.001	0.000096	0.015	No		0.0007757	0.0003928		None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-13	0.001	0.00015	0.015	No		0.0007258	0.0004152		None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-7	0.001	0.0001	0.015	No		0.0006997	0.0004322	55	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-8	0.001	0.0002	0.015	No		0.0008172	0.0003643	78.95		No	0.01	NP (NDs)
Lead (mg/L)	HGWC-9	0.001	0.0002	0.015	No		0.0006481	0.000426	57.89		No	0.01	NP (NDs)
Lead (mg/L)	MW-19	0.001	0.000071	0.015	No		0.0006304	0.000420	60	None	No	0.011	, ,
Lead (mg/L)	MW-20	0.001	0.000071	0.015	No		0.0006439	0.0004773	60	None	No		NP (NDs)
Lead (mg/L)	MW-24D	0.001	0.0001	0.015	No		0.0005456	0.0004809	50	None	No		NP (normality)
Lead (mg/L)	MW-26D	0.001	0.0001	0.015	No		0.0003430	0.0003837	80	None	No		NP (NDs)
	MW-27D	0.001	0.0001	0.015	No		0.000818	0.0003637	80	None			NP (NDs)
Lead (mg/L)	MW-28D	0.001	0.00043	0.015	No		0.0007022	0.0003117	50	None	No		, ,
Lead (mg/L)			0.00018					0.0003963		None	No		NP (normality)
Lead (mg/L)	MW-29 MW-5	0.001 0.001	0.0009	0.015 0.015	No No		0.0007252 0.0009047	0.0004427	70 90	None	No No		NP (NDs) NP (NDs)
Lead (mg/L)			0.001		No		0.0009047	0.0003014	60	None	No		, ,
Lead (mg/L)	MW-6	0.001		0.015									NP (NDs)
Lead (mg/L)	MW-7	0.001	0.001	0.015	No		0.0009062	0.0002966	90	None	No No		NP (NDs)
Lithium (mg/L)	HGWC-12	0.01048	0.008019	0.064	No		0.009248	0.00235	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-13	0.03735	0.03093	0.064	No		0.03414	0.006137	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-7	0.0026	0.002	0.064	No		0.002958	0.002614		None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-8	0.0029	0.0025	0.064	No		0.003196	0.002599		None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-9	0.0044	0.004	0.064	No		0.004596	0.002319		None	No	0.01	NP (normality)
Lithium (mg/L)	MW-19	0.01297	0.008428	0.064	No		0.01046	0.003347	0	None	x^2	0.01	Param.
Lithium (mg/L)	MW-20	0.03	0.00082	0.064	No		0.008322	0.01307	25	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-24D	0.002843	0.00254	0.064	No		0.002692	0.0001929	0	None	No	0.01	Param.
Lithium (mg/L)	MW-25D	0.0502	0.0428	0.064	No		0.0465	0.004719	0	None	No	0.01	Param.
Lithium (mg/L)	MW-26D	0.0041	0.0032	0.064	No		0.005775	0.007636	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-27D	0.008546	0.006254	0.064	No		0.0074	0.00146	0	None	No	0.01	Param.
Lithium (mg/L)	MW-28D	0.01282	0.007277	0.064	No		0.01005	0.003534	0	None	No	0.01	Param.
Lithium (mg/L)	MW-29	0.002354	0.00203	0.064	No		0.002192	0.0002065	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-10	0.0002	0.00005	0.002	No		0.00019	0.00003873		None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-11	0.0002	0.00005	0.002	No		0.00019	0.00003873		None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-13	0.0002	0.00005	0.002	No		0.0001793	0.00005457		None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-9	0.0002	0.00004	0.002	No		0.0001893	0.00004131		None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-10	0.01	0.0014	0.1	No	23	0.006591	0.004354	60.87	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-11	0.02635	0.01705	0.1	No	23	0.0217	0.008891	0	None	No	0.01	Param.

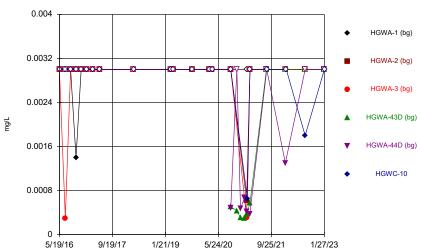
	Pla	nt Hammond	Client: Southern	Company	Data: I	Ham	mond AP-1	Printed 4/14/20	23, 1:1:	3 PM			
Constituent	<u>Well</u>	Upper Lim.	Lower Lim.	Compliance	Sig.	N	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Molybdenum (mg/L)	HGWC-12	0.04914	0.04557	0.1	No	23	0.04735	0.003411	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-13	0.03523	0.03001	0.1	No	23	0.03262	0.004987	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-7	0.04271	0.03586	0.1	No	25	0.03928	0.006866	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-8	0.4856	0.4241	0.1	Yes	24	0.4513	0.06596	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	HGWC-9	0.033	0.0236	0.1	No	23	0.04746	0.09377	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-19	0.05279	0.02587	0.1	No	12	0.03933	0.01715	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.01	0.0008	0.1	No	12	0.00392	0.004496	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-25D	0.01	0.0022	0.1	No	12	0.008595	0.003292	83.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-26D	0.02425	0.01175	0.1	No	13	0.018	0.008412	7.692	None	No	0.01	Param.
Molybdenum (mg/L)	MW-27D	0.003636	0.001403	0.1	No	12	0.002583	0.001576	8.333	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MW-28D	0.01969	0.007547	0.1	No	12	0.01362	0.007735	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-29	0.003287	0.002479	0.1	No	12	0.002883	0.0005149	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.002699	0.002284	0.1	No	12	0.002492	0.0002644	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-7	0.01	0.0014	0.1	No	12	0.005283	0.004211	41.67	None	No	0.01	NP (normality)
Selenium (mg/L)	HGWC-10	0.005	0.0031	0.05	No	23	0.004174	0.001266	65.22	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-11	0.01395	0.006463	0.05	No	23	0.0102	0.007153	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-12	0.005	0.0011	0.05	No	23	0.00483	0.0008132	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-13	0.005	0.0016	0.05	No	23	0.004643	0.001203	91.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-8	0.005	0.0024	0.05	No	23	0.004887	0.0005421	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-9	0.005	0.0037	0.05	No	23	0.004943	0.0002711	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-19	0.00488	0.002282	0.05	No	12	0.00395	0.001709	16.67	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	MW-27D	0.005	0.00012	0.05	No	12	0.004593	0.001409	91.67	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	MW-5	0.003736	0.002447	0.05	No	12	0.003092	0.0008218	0	None	No	0.01	Param.
Selenium (mg/L)	MW-7	0.005	0.0014	0.05	No	12	0.003383	0.00172	50	None	No	0.01	NP (normality)
Thallium (mg/L)	HGWC-11	0.001	0.00008	0.002	No	23	0.00092	0.0002651	91.3	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-12	0.001	0.0002	0.002	No	23	0.0007663	0.0004029	73.91	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-13	0.0004273	0.0003377	0.002	No	23	0.0003825	0.00008561	8.696	None	No	0.01	Param.
Thallium (mg/L)	HGWC-8	0.001	0.00011	0.002	No	23	0.0007247	0.0004261	69.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-19	0.001	0.00023	0.002	No	12	0.0005025	0.0003683	33.33	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-28D	0.001	0.000092	0.002	No	12	0.0009243	0.0002621	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-29	0.001	0.000064	0.002	No	12	0.000922	0.0002702	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-6	0.001	0.000082	0.002	No	12	0.0009235	0.000265	91.67	None	No	0.01	NP (NDs)

Appendix IV Trend Tests - All Results (No Significant)

	Plant Hammond Client: Southern Comp	any Data: Ha	ammond A	P-1 Print	ed 4/1	4/2023,	1:16 PM	И			
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	Xform	<u>Alpha</u>	Method
Arsenic (mg/L)	HGWA-1 (bg)	0	-11	-98	No	23	86.96	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-2 (bg)	0	34	98	No	23	60.87	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-3 (bg)	0	22	98	No	23	60.87	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-43D (bg)	0	5	30	No	10	40	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-44D (bg)	0	-10	-30	No	10	70	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWC-13	0.01498	85	98	No	23	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-1 (bg)	0	0	105	No	24	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-2 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-3 (bg)	0	0	105	No	24	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-43D (bg)	-0.0007215	-20	-30	No	10	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-44D (bg)	0.000373	20	30	No	10	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWC-8	-0.01469	-99	-105	No	24	0	n/a	n/a	0.01	NP

FIGURE A.

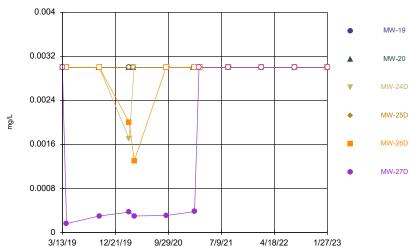




Constituent: Antimony Analysis Run 4/14/2023 12:17 PM

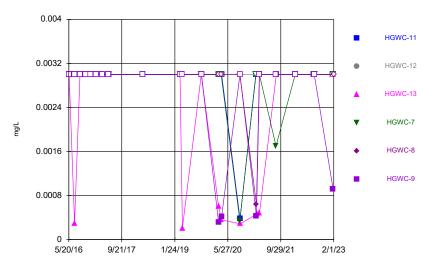
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values Time Series



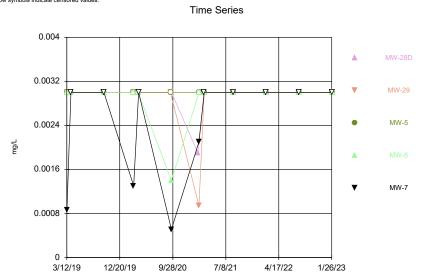
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Time Series



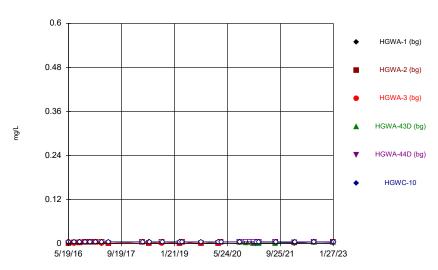
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Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Antimony Analysis Run 4/14/2023 12:17 PM Plant Hammond Client: Southern Company Data: Hammond AP-1

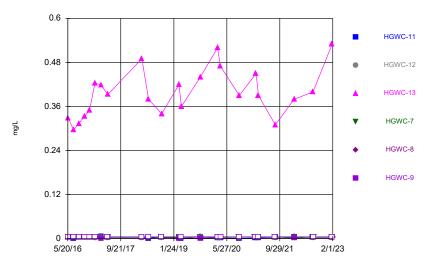




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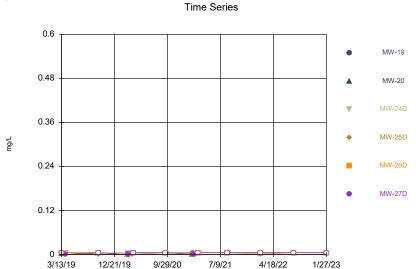
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series



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Plant Hammond Client: Southern Company Data: Hammond AP-1

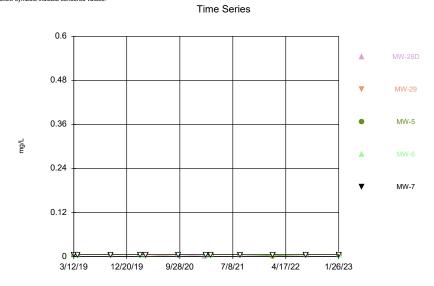
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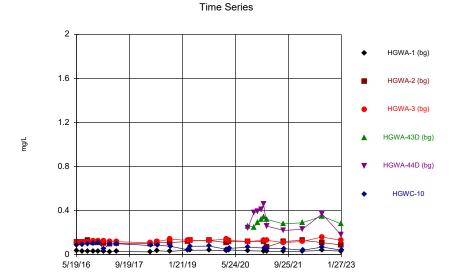
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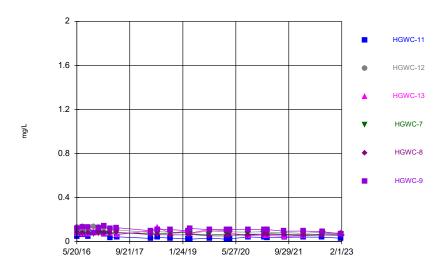
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Plant Hammond Client: Southern Company Data: Hammond AP-1

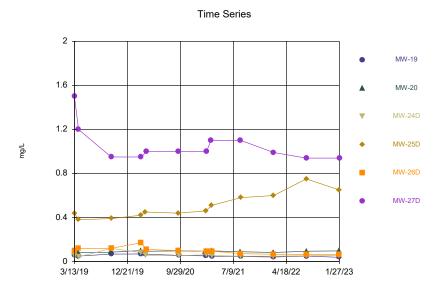


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Plant Hammond Client: Southern Company Data: Hammond AP-1



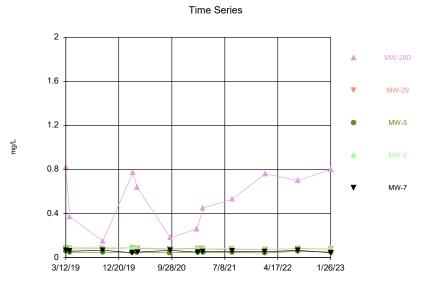
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

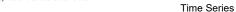


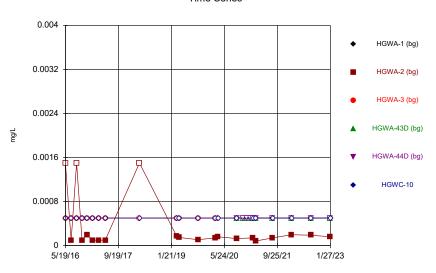
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



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Plant Hammond Client: Southern Company Data: Hammond AP-1





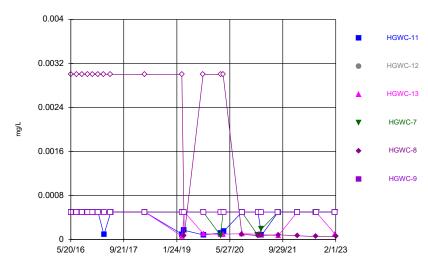
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values Time Series 0.004 MW-19 0.0032 MW-20 MW-24D 0.0024 MW-25D 0.0016 MW-26D MW-27D 0.0008 3/13/19 12/21/19 9/29/20 7/9/21 4/18/22 1/27/23

Constituent: Beryllium Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series

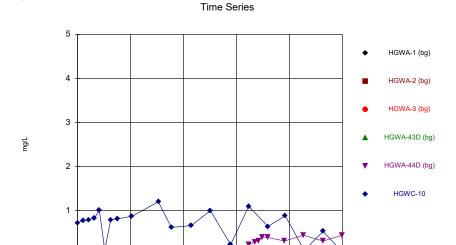


Constituent: Beryllium Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

Time Series 0.004 0.0032 MW-29 MW-5 0.0024 mg/L 0.0016 MW-7 0.0008 4/17/22 3/12/19 12/20/19 9/28/20 7/8/21 1/26/23

Constituent: Beryllium Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

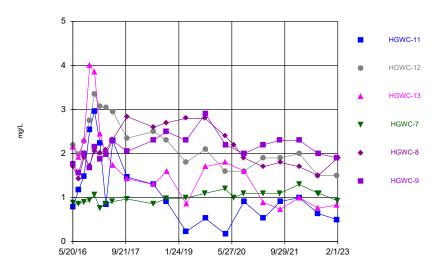


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Plant Hammond Client: Southern Company Data: Hammond AP-1

5/24/20

9/25/21

1/21/19



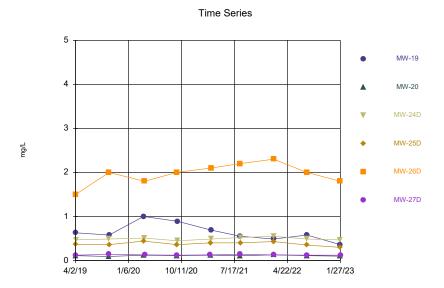
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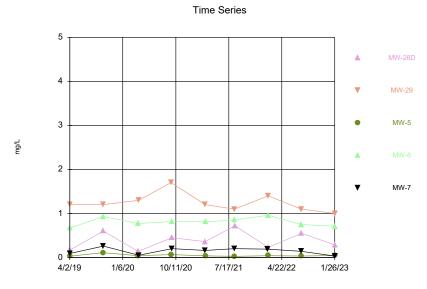
5/19/16

9/19/17



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Plant Hammond Client: Southern Company Data: Hammond AP-1

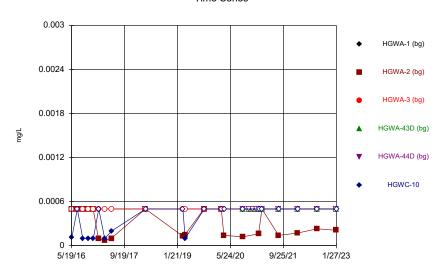
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



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Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



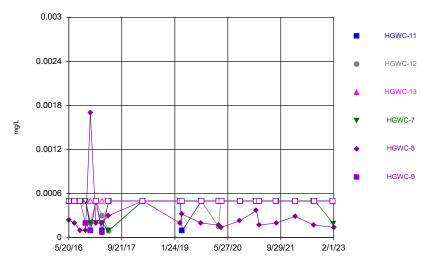


Constituent: Cadmium Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Hollow symbols indicate censored values Time Series 0.003 MW-19 0.0024 MW-20 MW-24D 0.0018 MW-25D mg/L 0.0012 MW-26D MW-27D 0.0006 -00 00 0 3/13/19 12/21/19 9/29/20 7/9/21 4/18/22 1/27/23

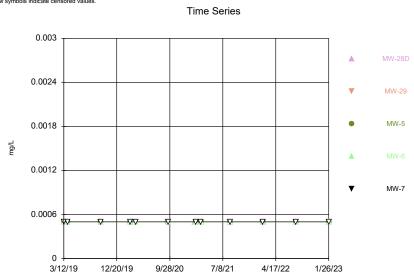
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Time Series

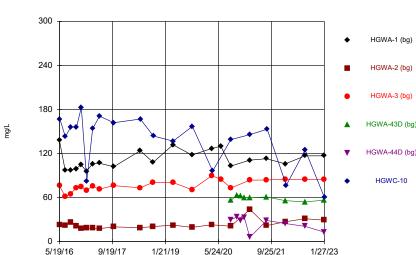


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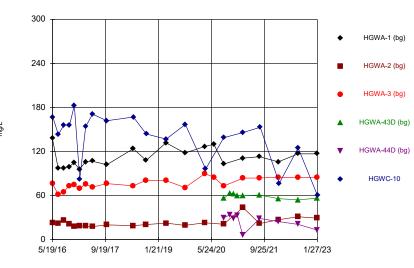
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Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Calcium Analysis Run 4/14/2023 12:18 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series

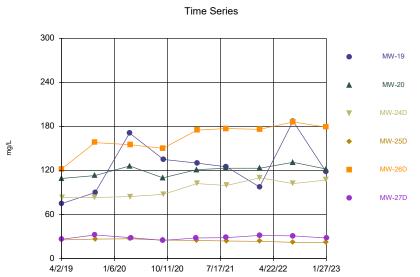


300 HGWC-11 240 HGWC-12 HGWC-13 HGWC-7 mg/L HGWC-8 HGWC-9 60 5/20/16 9/21/17 1/24/19 5/27/20 9/29/21 2/1/23

Time Series

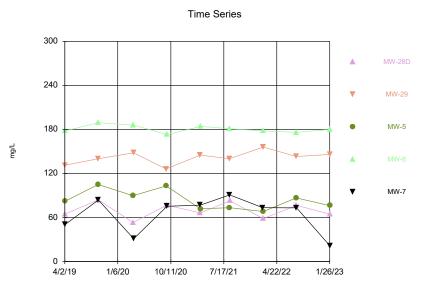
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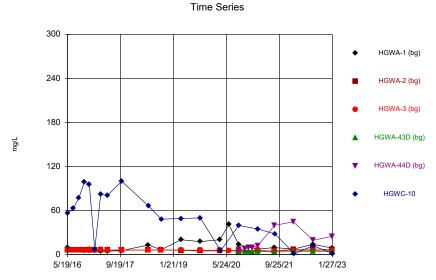
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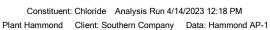


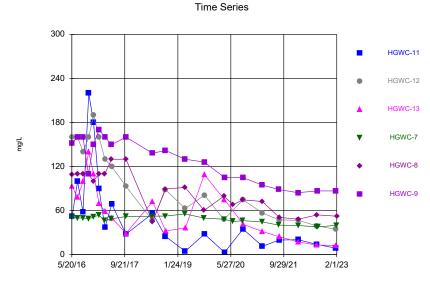
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Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG





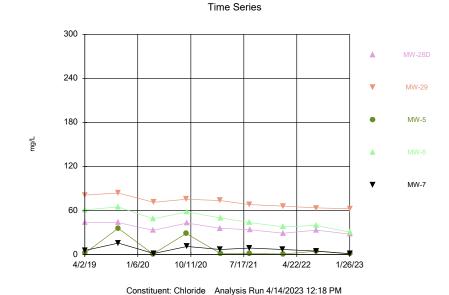


Constituent: Chloride Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series 300 MW-19 240 MW-20 MW-24D 180 MW-25D 120 MW-26D MW-27D 60 4/2/19 1/6/20 10/11/20 7/17/21 4/22/22 1/27/23

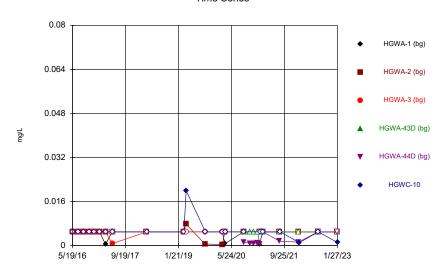
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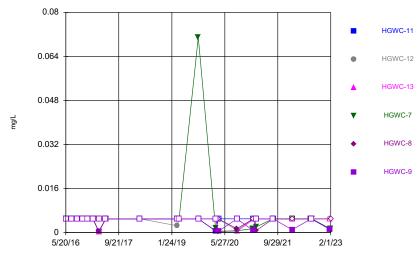


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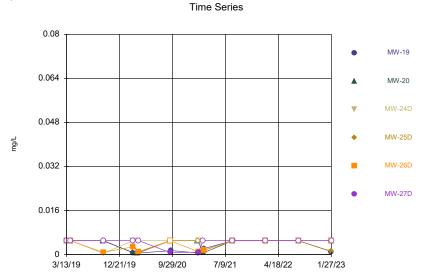


Constituent: Chromium Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



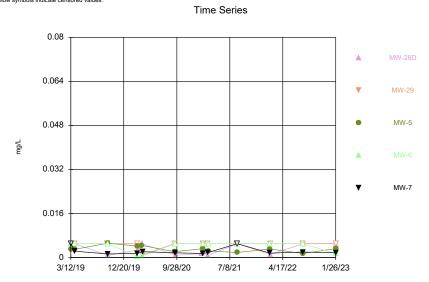
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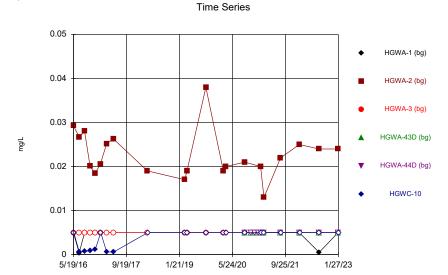
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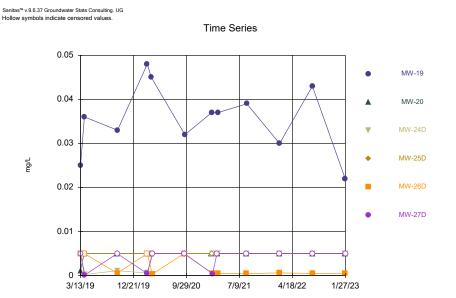


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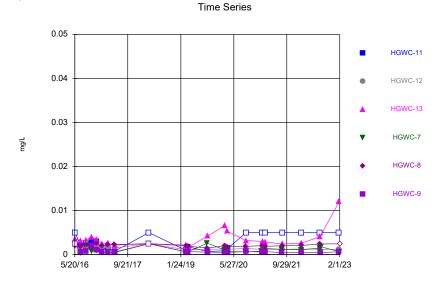
Plant Hammond Client: Southern Company Data: Hammond AP-1



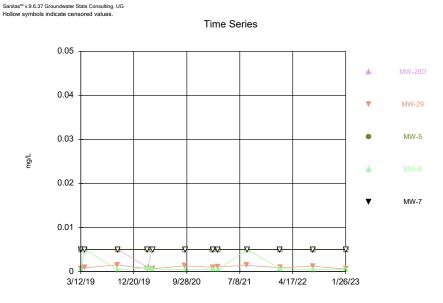
Constituent: Cobalt Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



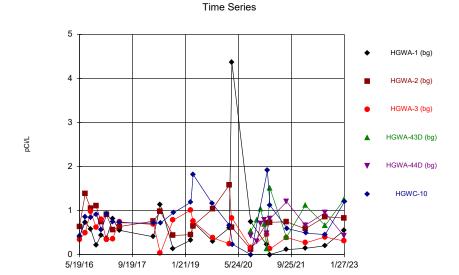
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Plant Hammond Client: Southern Company Data: Hammond AP-1



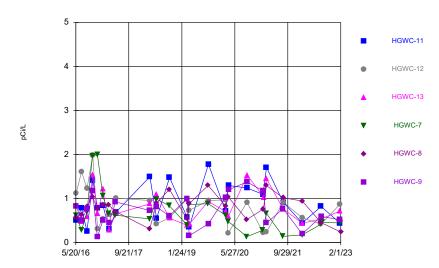
Constituent: Cobalt Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Cobalt Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

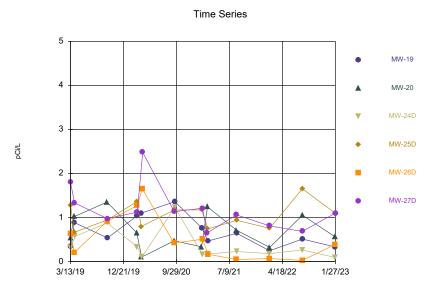


Constituent: Combined Radium 226 + 228 Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



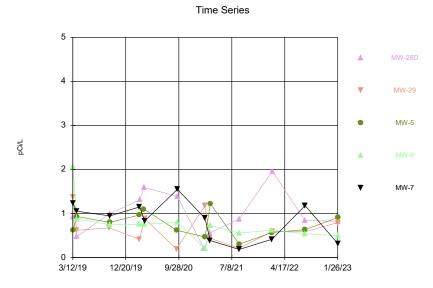
Constituent: Combined Radium 226 + 228 Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



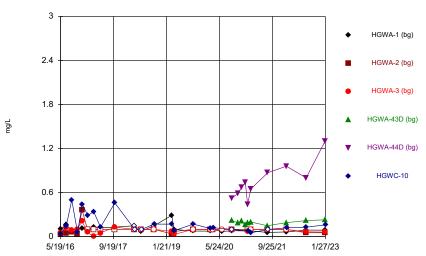
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

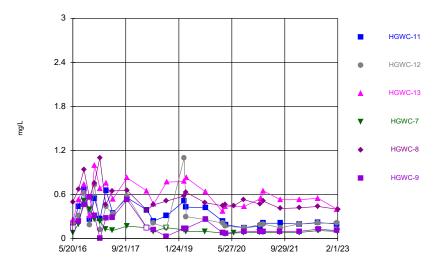


Constituent: Combined Radium 226 + 228 Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



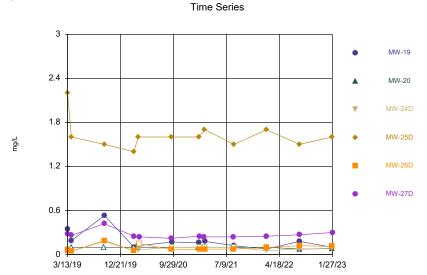


Constituent: Fluoride Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



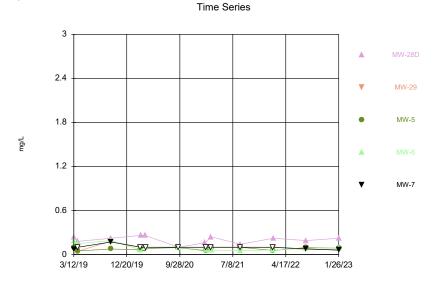
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

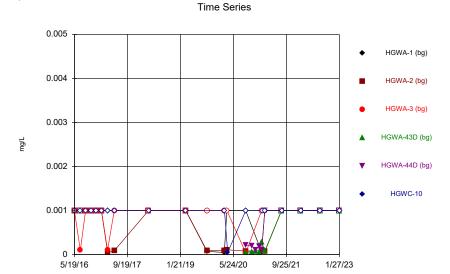


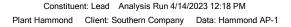
Constituent: Fluoride Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

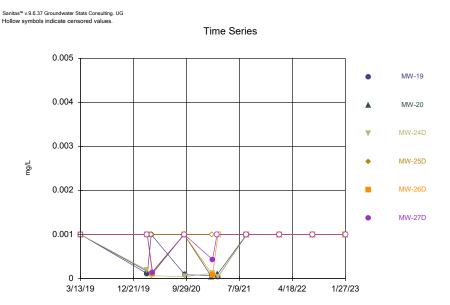
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



Constituent: Fluoride Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

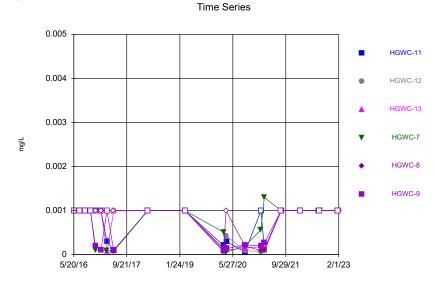




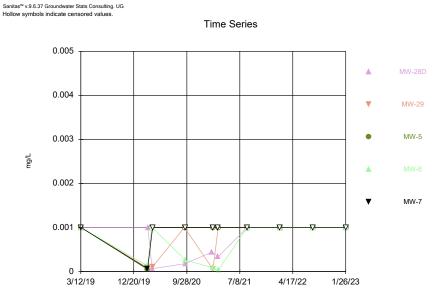


Constituent: Lead Analysis Run 4/14/2023 12:18 PM

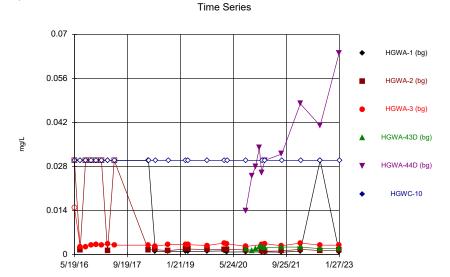
Plant Hammond Client: Southern Company Data: Hammond AP-1



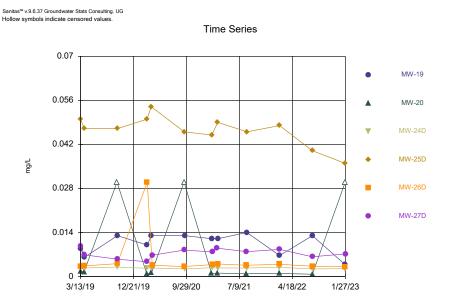
Constituent: Lead Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



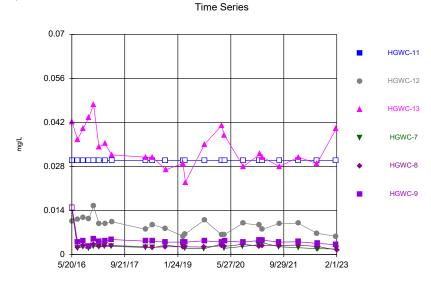
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Plant Hammond Client: Southern Company Data: Hammond AP-1



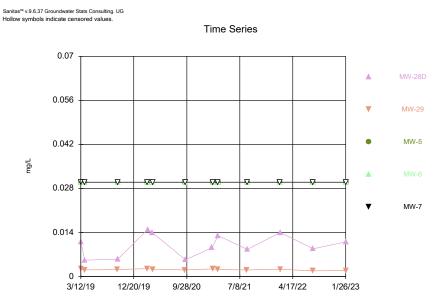
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Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Lithium Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

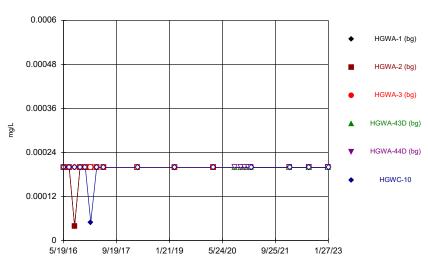


Constituent: Lithium Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Lithium Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

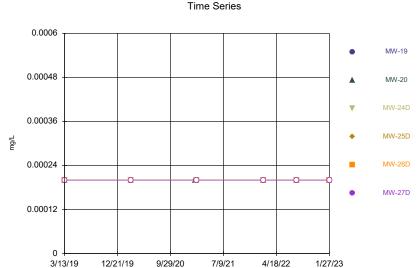




Constituent: Mercury Analysis Run 4/14/2023 12:18 PM

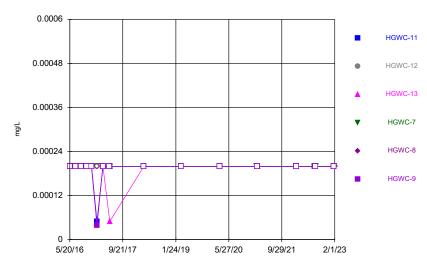
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values



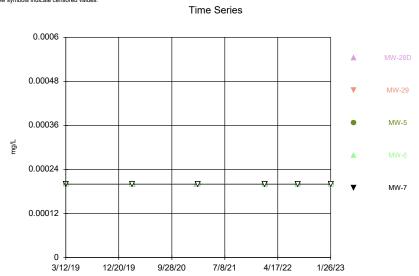
Constituent: Mercury Analysis Run 4/14/2023 12:18 PM Plant Hammond Client: Southern Company Data: Hammond AP-1

Time Series

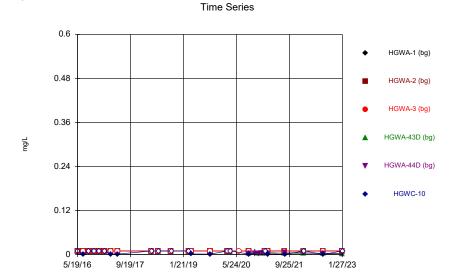


Constituent: Mercury Analysis Run 4/14/2023 12:18 PM Plant Hammond Client: Southern Company Data: Hammond AP-1

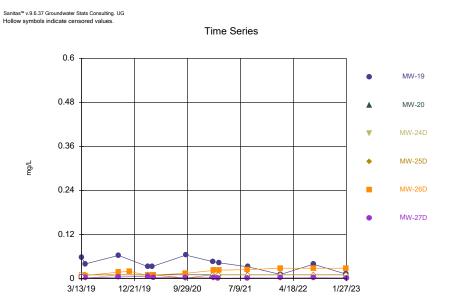
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



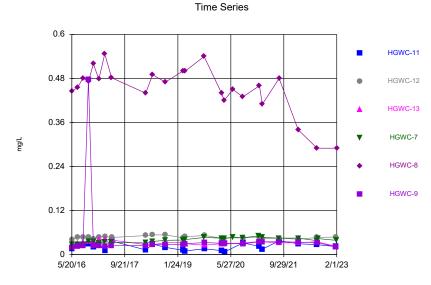
Constituent: Mercury Analysis Run 4/14/2023 12:18 PM Plant Hammond Client: Southern Company Data: Hammond AP-1



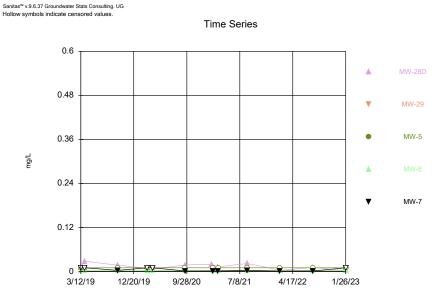
Constituent: Molybdenum Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



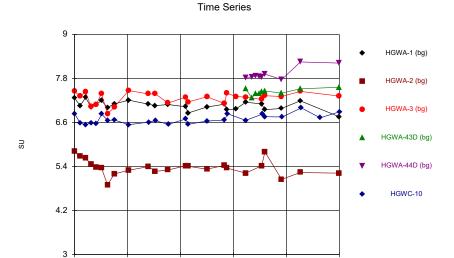
Constituent: Molybdenum Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Molybdenum Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Molybdenum Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: pH, Field Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

5/24/20

1/21/19

9/25/21

1/27/23

HGWC-11 7.8 HGWC-12 HGWC-13 HGWC-7 SU 5.4 HGWC-8 HGWC-9 4.2 5/20/16 9/21/17 1/24/19 5/27/20 9/29/21 2/1/23

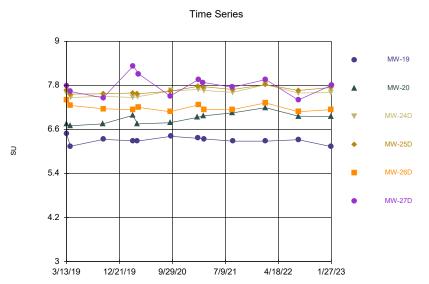
Time Series

Constituent: pH, Field Analysis Run 4/14/2023 12:18 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

5/19/16

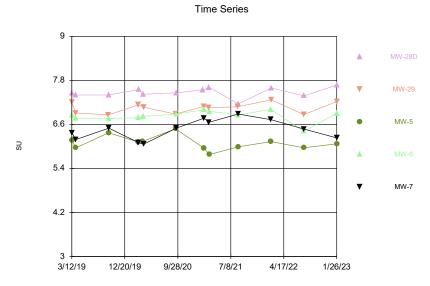
9/19/17



Constituent: pH, Field Analysis Run 4/14/2023 12:19 PM

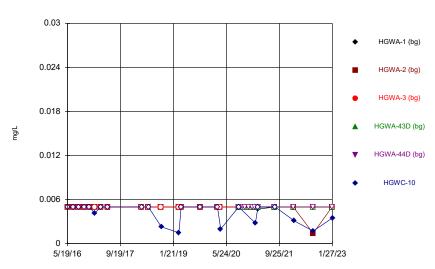
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

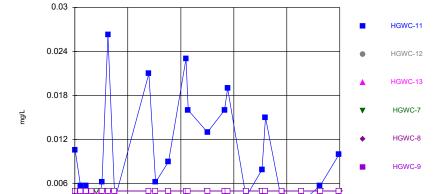


Constituent: pH, Field Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1





Constituent: Selenium Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Selenium Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

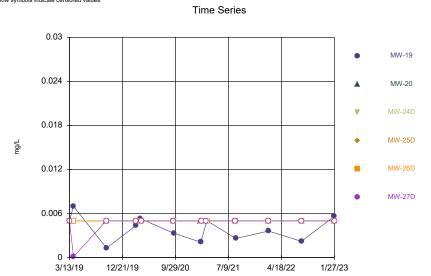
5/27/20

9/29/21

1/24/19

2/1/23

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

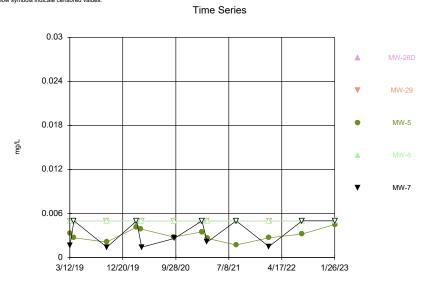


Constituent: Selenium Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.

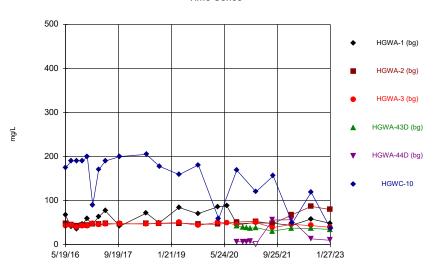
5/20/16

9/21/17

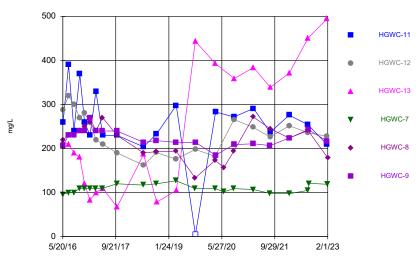


Constituent: Selenium Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



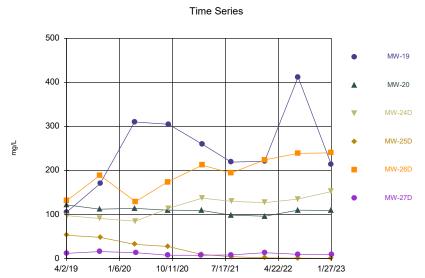


Constituent: Sulfate Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



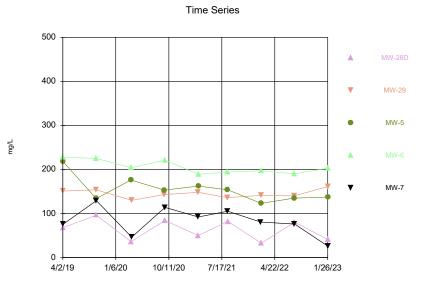
Constituent: Sulfate Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas[™] v.9.6.37 Groundwater Stats Consulting. UG



Constituent: Sulfate Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

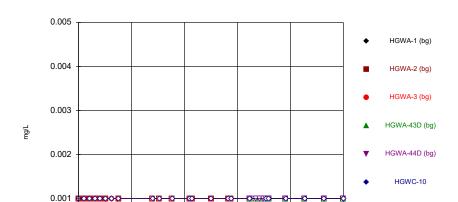
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



Constituent: Sulfate Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

5/19/16

9/19/17



Time Series

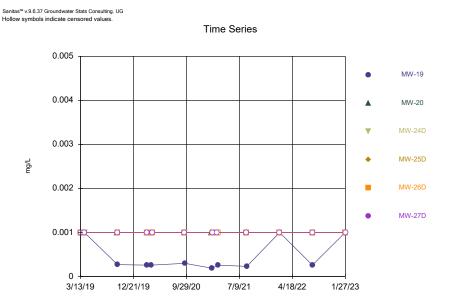
Constituent: Thallium Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

5/24/20

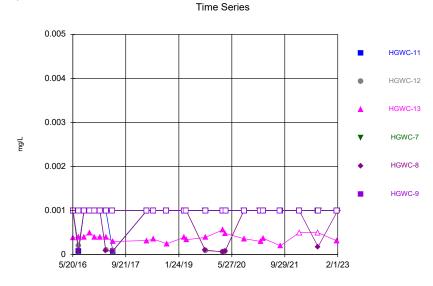
9/25/21

1/21/19

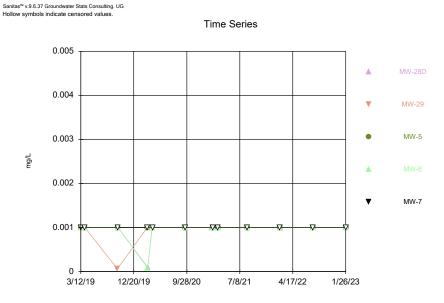
1/27/23



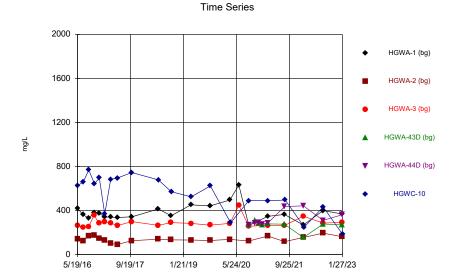
Constituent: Thallium Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Thallium Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Thallium Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1



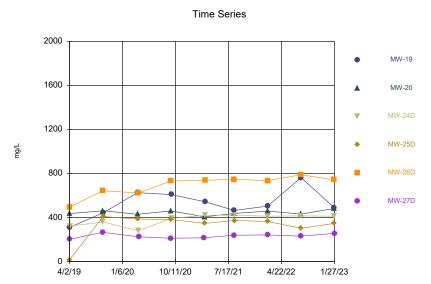
Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

2000 HGWC-11 1600 HGWC-12 HGWC-13 1200 HGWC-7 mg/L HGWC-8 HGWC-9 5/20/16 9/21/17 5/27/20 9/29/21 2/1/23 1/24/19

Time Series

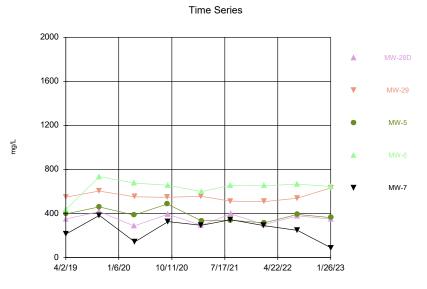
Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:19 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:19 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					0.000	<0.003
2/1/2022	<0.003	<0.003	<0.003	<0.003	0.0013 (J)	
2/9/2022					(5)	<0.003
8/2/2022	<0.003	<0.003	<0.003	<0.003	<0.003	
8/3/2022	,	21 2	2- 	,	,	0.0018 (J)
1/23/2023			<0.003			×7
1/24/2023	<0.003	<0.003		<0.003	<0.003	
1/27/2023	·	2- 		,	,	<0.003
- 						

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.003	<0.003	
5/23/2016	<0.003	<0.003	<0.003			<0.003
7/12/2016	<0.003	<0.003	0.0003 (J)	<0.003	<0.003	<0.003
9/1/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/20/2016				<0.003	<0.003	<0.003
10/24/2016	<0.003	<0.003	<0.003			
12/6/2016				<0.003	<0.003	<0.003
12/7/2016	<0.003	<0.003	<0.003			
1/25/2017				<0.003	<0.003	
1/26/2017	<0.003	<0.003	<0.003			<0.003
3/21/2017				<0.003	<0.003	
3/22/2017	<0.003	<0.003	<0.003			<0.003
5/23/2017				<0.003	<0.003	<0.003
5/24/2017	<0.003	<0.003	<0.003			
4/3/2018				<0.003	<0.003	<0.003
4/4/2018	<0.003	<0.003	<0.003			
3/12/2019					<0.003	
3/13/2019	<0.003		<0.003	<0.003		<0.003
3/14/2019		<0.003				
4/2/2019				<0.003		
4/3/2019	<0.003	<0.003			<0.003	<0.003
4/5/2019			0.00021 (J)			
9/24/2019					<0.003	
9/25/2019				<0.003		
9/26/2019			<0.003			
9/27/2019	<0.003	<0.003				<0.003
3/3/2020	<0.003	<0.003			<0.003	
3/4/2020			0.00061 (J)	<0.003		0.00032 (J)
3/26/2020		<0.003				
3/27/2020				<0.003	<0.003	
3/30/2020			0.00036 (J)			
3/31/2020	<0.003					0.00042 (J)
9/16/2020				0.00034 (J)	<0.003	
9/17/2020						<0.003
9/18/2020	0.00038 (J)	<0.003				
9/21/2020			0.00029 (J)			
2/10/2021				<0.003		
2/12/2021	<0.003	<0.003				
2/16/2021					0.00064 (J)	0.00043 (J)
2/22/2021			0.00047 (J)			
3/15/2021				<0.003	<0.003	
3/16/2021	<0.003	<0.003				<0.003
3/17/2021			0.00049 (J)			
8/16/2021				0.0017 (J)		
8/17/2021						<0.003
8/18/2021	<0.003	<0.003			<0.003	
8/19/2021			<0.003			
2/9/2022	<0.003	<0.003				<0.003
2/10/2022			<0.003	<0.003	<0.003	
8/3/2022	<0.003	<0.003	<0.003	<0.003	<0.003	
8/4/2022						<0.003
8/11/2022				<0.003		

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
1/26/2023	<0.003	<0.003	<0.003			0.00092 (J)
1/27/2023				<0.003		
2/1/2023					<0.003	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.003	<0.003		<0.003	<0.003
3/14/2019	<0.003			<0.003		
4/2/2019		<0.003				
4/3/2019	<0.003			<0.003	<0.003	
4/4/2019						0.00016 (J)
4/8/2019			<0.003			
9/25/2019		<0.003				
9/26/2019			<0.003		<0.003	0.0003 (J)
9/27/2019	<0.003			<0.003		
3/2/2020		<0.003				
3/3/2020				<0.003		
3/4/2020	<0.003		0.0017 (J)		0.002 (J)	0.00037 (J)
3/26/2020	<0.003			<0.003		
3/27/2020		<0.003				
3/30/2020			<0.003			
3/31/2020					0.0013 (J)	
4/2/2020						0.0003 (J)
9/17/2020		<0.003			<0.003	
9/18/2020				<0.003		0.00031 (J)
9/21/2020	<0.003		<0.003			
2/11/2021		<0.003				
2/12/2021	<0.003			<0.003		
2/16/2021			<0.003		<0.003	0.00038 (J)
3/12/2021						<0.003
3/15/2021		<0.003				
3/16/2021				<0.003		
3/17/2021	<0.003		<0.003		<0.003	
8/17/2021		<0.003			<0.003	<0.003
8/18/2021	<0.003					
8/19/2021			<0.003	<0.003		
2/9/2022	<0.003			<0.003	<0.003	
2/10/2022		<0.003	<0.003			<0.003
8/3/2022			<0.003			<0.003
8/4/2022	<0.003	<0.003		<0.003	<0.003	
1/26/2023	<0.003	<0.003	<0.003	<0.003	<0.003	
1/27/2023						<0.003

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.003	<0.003			
3/13/2019			<0.003	<0.003	0.00086 (J)
4/2/2019	<0.003	<0.003			
4/3/2019			<0.003	<0.003	<0.003
9/24/2019		<0.003			
9/25/2019			<0.003		
9/26/2019	<0.003			<0.003	<0.003
3/2/2020		<0.003	<0.003		
3/3/2020				<0.003	0.0013 (J)
3/4/2020	<0.003				
3/26/2020			<0.003		
3/27/2020	<0.003			<0.003	
3/30/2020		<0.003			<0.003
9/16/2020		<0.003			
9/17/2020			<0.003		
9/21/2020	<0.003			0.0014 (J)	0.00051 (J)
2/10/2021	0.0019 (J)				
2/15/2021		0.00094 (J)			0.0021 (J)
2/16/2021			<0.003	<0.003	
3/15/2021	<0.003	<0.003			<0.003
3/16/2021			<0.003	<0.003	
8/16/2021		<0.003			
8/17/2021			<0.003	<0.003	<0.003
8/18/2021	<0.003				
2/8/2022					<0.003
2/9/2022			<0.003	<0.003	
2/10/2022	<0.003	<0.003			
8/3/2022		<0.003	<0.003	<0.003	
8/4/2022	<0.003				<0.003
1/26/2023	<0.003	<0.003	<0.003	<0.003	<0.003

	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)	(0)			<0.005
4/2/2018	<0.005	<0.005				
4/3/2018			<0.005			
4/4/2018			0.000			<0.005
6/4/2018	<0.005	0.00088 (J)	0.0008 (J)			0.000
6/5/2018	-0.000	0.00000 (0)	0.0000 (0)			<0.005
10/1/2018	<0.005	<0.005	0.0011 (J)			-0.000
10/1/2018	10.000	10.000	0.0011(0)			<0.005
3/12/2019	<0.005	0.00069 (J)	0.00063 (J)			0.003
3/13/2019	10.000	0.00003 (3)	0.00003 (3)			<0.005
4/1/2019			<0.005			40.000
4/2/2019	<0.005	<0.005	10.000			
4/3/2019	10.000	10.000				<0.005
9/23/2019	0.00046 (J)	0.00067 (J)	0.0011 (J)			40.000
9/27/2019	0.00040 (3)	0.00007 (3)	0.0011 (3)			<0.005
3/2/2020	<0.005	0.00043 (J)	0.0004 (J)			0.003
3/3/2020	~ 0.003	0.00043 (3)	0.0004 (3)			<0.005
3/25/2020	<0.005	<0.005	<0.005			0.003
4/1/2020	<0.005	<0.005	<0.005			<0.005
9/15/2020	<0.00E	<0.005	<0.005			0.005
9/16/2020	<0.005	<0.005	<0.005	<0.00E	<0.00E	40.005
				<0.005	<0.005	<0.005
11/10/2020				0.0021 (J)	<0.005	
12/15/2020				<0.005	<0.005	
1/19/2021 2/8/2021	-0.005			0.0011 (J)	<0.005	
	<0.005	-0.005	10.005	0.0017 (ID)	0.00002 (1)	
2/9/2021		<0.005	<0.005	0.0017 (JB)	0.00083 (J)	40.005
2/15/2021	-0.005				-0.005	<0.005
3/10/2021	<0.005	0.005	.0.005	0.0040 (1)	<0.005	
3/11/2021		<0.005	<0.005	0.0013 (J)		0.005
3/12/2021	0.005			0.0045 (1)		<0.005
8/11/2021	<0.005			0.0015 (J)		
8/12/2021		<0.005	<0.005		.0.005	
8/13/2021					<0.005	0.005
8/17/2021	0.0040./."	0.0000 / "	0.00047.	0.0000 ("	0.0005 / "	<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	.0.005	.0.005	.0.005	.0.005	<0.005
8/2/2022	<0.005	<0.005	<0.005	<0.005	<0.005	

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10	
8/3/2022						<0.005	
1/23/2023			<0.005				
1/24/2023	<0.005	<0.005		<0.005	0.0027 (J)		
1/27/2023						<0.005	

	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			

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.0047 (J)	0.0053				0.0021 (J)
2/10/2022			0.38	<0.005	0.002 (J)	
8/3/2022	<0.005	0.0023 (J)	0.4	<0.005	<0.005	
8/4/2022						<0.005
8/11/2022				<0.005		
1/26/2023	<0.005	0.0025 (J)	0.53			<0.005
1/27/2023				<0.005		
2/1/2023					<0.005	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.0023 (J)	<0.005		<0.005	<0.005
3/14/2019	<0.005			0.0019 (J)		
4/2/2019		<0.005				
4/3/2019	<0.005			<0.005	<0.005	
4/4/2019						0.0002 (J)
4/8/2019			<0.005			
9/25/2019		<0.005				
9/26/2019			<0.005		<0.005	<0.005
9/27/2019	<0.005			0.0011 (J)		
3/2/2020		0.00038 (J)				
3/3/2020				0.001 (J)		
3/4/2020	0.00045 (J)		<0.005		0.0006 (J)	0.00069 (J)
3/26/2020	<0.005			0.00075 (J)		
3/27/2020		<0.005				
3/30/2020			<0.005			
3/31/2020					<0.005	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		<0.005
9/21/2020	<0.005		<0.005			
2/11/2021		0.00094 (J)				
2/12/2021	<0.005			<0.005		
2/16/2021			<0.005		0.0008 (J)	0.001 (J)
3/12/2021						<0.005
3/15/2021		<0.005				
3/16/2021				<0.005		
3/17/2021	<0.005		<0.005		<0.005	
8/17/2021		<0.005			<0.005	<0.005
8/18/2021	<0.005					
8/19/2021			<0.005	<0.005		
2/9/2022	<0.005			<0.005	0.0017 (J)	
2/10/2022		<0.005	<0.005			<0.005
8/3/2022			<0.005			<0.005
8/4/2022	<0.005	<0.005		<0.005	<0.005	
1/26/2023	<0.005	<0.005	<0.005	<0.005	<0.005	
1/27/2023						<0.005

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			<0.005	<0.005	<0.005
4/2/2019	<0.005	<0.005			
4/3/2019			<0.005	<0.005	<0.005
9/24/2019		<0.005			
9/25/2019			<0.005		
9/26/2019	<0.005			<0.005	<0.005
3/2/2020		<0.005	<0.005		
3/3/2020				<0.005	<0.005
3/4/2020	<0.005				
3/26/2020			<0.005		
3/27/2020	<0.005			<0.005	
3/30/2020		0.00037 (J)			<0.005
9/16/2020		<0.005			
9/17/2020			<0.005		
9/21/2020	<0.005			<0.005	<0.005
2/10/2021	0.0011 (J)				
2/15/2021		<0.005			<0.005
2/16/2021			<0.005	<0.005	
3/15/2021	<0.005	<0.005			<0.005
3/16/2021			<0.005	<0.005	
8/16/2021		<0.005			
8/17/2021			<0.005	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					<0.005
2/9/2022			0.0013 (J)	0.0034 (J)	
2/10/2022	<0.005	<0.005			
8/3/2022		<0.005	<0.005	<0.005	
8/4/2022	<0.005				<0.005
1/26/2023	<0.005	<0.005	<0.005	<0.005	<0.005

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	0.0346	0.114	0.111			
5/23/2016						0.0877
7/11/2016	0.0311	0.112				
7/12/2016			0.115			0.0926
8/30/2016	0.0293	0.131	0.113			
9/1/2016						0.0994
10/19/2016	0.0293	0.111	0.123			
10/24/2016						0.101
12/6/2016	0.0304	0.108	0.127			
12/7/2016						0.107
1/24/2017	0.028	0.102	0.126			
1/26/2017						0.0538
3/21/2017	0.0275	0.095	0.12			
3/22/2017						0.0962
5/22/2017	0.0281	0.103	0.117			
5/24/2017						0.0996
4/2/2018	0.026	0.099				
4/3/2018			0.11			
4/4/2018						0.084
6/4/2018	0.035	0.11	0.12			
6/5/2018						0.086
10/1/2018	0.029	0.11	0.14			
10/2/2018						0.076
3/12/2019	0.042	0.12	0.13			
3/13/2019						0.044
4/1/2019			0.13			
4/2/2019	0.04	0.13				
4/3/2019						0.076
9/23/2019	0.042	0.13	0.13			
9/27/2019						0.078
3/2/2020	0.034	0.11	0.14			
3/3/2020						0.048
3/25/2020	0.043	0.12	0.13			
4/1/2020						0.058
9/15/2020	0.035	0.12	0.12			
9/16/2020				0.26	0.24	0.068
11/10/2020				0.25	0.38	
12/15/2020				0.29	0.39	
1/19/2021				0.32	0.41	
2/8/2021	0.032					
2/9/2021		0.12	0.13	0.34	0.46	
2/15/2021						0.06
3/10/2021	0.03				0.26	
3/11/2021		0.07	0.13	0.32		
3/12/2021						0.058
8/11/2021	0.03			0.28		
8/12/2021		0.12	0.11			
8/13/2021					0.22	
8/17/2021						0.055
2/1/2022	0.031	0.13	0.12	0.29	0.23	
2/9/2022						0.042
8/2/2022	0.039	0.11	0.16	0.35	0.37	

Page 2

Time Series

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
8/3/2022						0.069
1/23/2023			0.13			
1/24/2023	0.033	0.088		0.28	0.18	
1/27/2023						0.041

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	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	0.07.17	0.070	0.142
3/21/2017				0.0722	0.0791	
3/22/2017	0.0346	0.112	0.0755	0.0722	0.0701	0.122
5/23/2017	0.0340	0.112	0.0733	0.0794	0.0846	0.127
5/24/2017	0.0437	0.106	0.0627	0.0754	0.0040	0.127
	0.0437	0.100	0.0027	0.075	0.065	0.1
4/3/2018	0.030	0.083	0.000	0.075	0.003	0.1
4/4/2018 6/5/2018	0.029	0.083	0.099 0.13	0.071		
	0.039	0.00	0.13	0.071	0.063	0.11
6/6/2018		0.09		0.070	0.063	0.11
10/2/2018	0.000	0.007		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		y:===	•
3/15/2021			2.00.	0.074	0.063	
3/16/2021	0.035	0.084		5.074	5.000	0.11
	0.033	0.004	0.056			V. 1 I
3/17/2021			0.056	0.068		
8/16/2021				0.068		0.005
8/17/2021	0.04	0.000			0.000	0.095
8/18/2021	0.04	0.083	0.040		0.062	
8/19/2021			0.049			

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.042	0.075				0.096
2/10/2022			0.053	0.063	0.056	
8/3/2022	0.041	0.086	0.07	0.066	0.06	
8/4/2022						0.091
8/11/2022				0.071		
1/26/2023	0.031	0.076	0.079			0.069
1/27/2023				0.065		
2/1/2023					0.058	

·	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.087	0.053		0.099	1.5
3/14/2019	0.06			0.44		
4/2/2019		0.08				
4/3/2019	0.05			0.38	0.12	
4/4/2019						1.2
4/8/2019			0.043			
9/25/2019		0.085				
9/26/2019			0.12		0.12	0.95
9/27/2019	0.068			0.39		
3/2/2020		0.099				
3/3/2020				0.42		
3/4/2020	0.069		0.081		0.17	0.95
3/26/2020	0.067			0.45		
3/27/2020		0.093				
3/30/2020			0.056			
3/31/2020					0.11	
4/2/2020						1
9/17/2020		0.096			0.099	
9/18/2020				0.44		1
9/21/2020	0.056		0.053			
2/11/2021		0.093				
2/12/2021	0.051			0.46		
2/16/2021			0.062		0.093	1
3/12/2021						1.1
3/15/2021		0.096				
3/16/2021				0.51		
3/17/2021	0.049		0.055		0.094	
8/17/2021		0.089			0.072	1.1
8/18/2021	0.045					
8/19/2021			0.048	0.58		
2/9/2022	0.042			0.6	0.066	
2/10/2022		0.082	0.048			0.99
8/3/2022			0.053			0.94
8/4/2022	0.05	0.093		0.75	0.062	
1/26/2023	0.039	0.097	0.054	0.65	0.065	
1/27/2023						0.94

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.82	0.089			
3/13/2019			0.056	0.1	0.063
4/2/2019	0.37	0.078			
4/3/2019			0.049	0.09	0.058
9/24/2019		0.081			
9/25/2019			0.046		
9/26/2019	0.15			0.089	0.066
3/2/2020		0.088	0.049		
3/3/2020				0.09	0.043
3/4/2020	0.77				
3/26/2020			0.046		
3/27/2020	0.64			0.086	
3/30/2020		0.08			0.05
9/16/2020		0.076			
9/17/2020			0.043		
9/21/2020	0.18			0.083	0.065
2/10/2021	0.26				
2/15/2021		0.081			0.048
2/16/2021			0.05	0.085	
3/15/2021	0.45	0.078			0.053
3/16/2021			0.046	0.081	
8/16/2021		0.074			
8/17/2021			0.045	0.081	0.057
8/18/2021	0.53				
2/8/2022					0.053
2/9/2022			0.042	0.074	
2/10/2022	0.76	0.072			
8/3/2022		0.081	0.058	0.084	
8/4/2022	0.7				0.064
1/26/2023	0.8	0.076	0.05	0.079	0.044

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.0005	<0.003	<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	<0.003	<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	<0.003				
4/3/2018			<0.0005			
4/4/2018						<0.0005
3/12/2019	<0.0005	0.00017 (J)	<0.0005			
3/13/2019						<0.0005
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)				
4/3/2019						<0.0005
9/23/2019	<0.0005	0.00011 (J)	<0.0005			
9/27/2019						<0.0005
3/2/2020	<0.0005	0.00014 (J)	<0.0005			
3/3/2020						<0.0005
3/25/2020	<0.0005	0.00016 (J)	<0.0005			
4/1/2020						<0.0005
9/15/2020	<0.0005	0.00013 (J)	<0.0005			
9/16/2020				<0.0005	<0.0005	<0.0005
11/10/2020				<0.0005	<0.0005	
12/15/2020				<0.0005	<0.0005	
1/19/2021				<0.0005	<0.0005	
2/8/2021	<0.0005					
2/9/2021		0.00014 (J)	<0.0005	<0.0005	<0.0005	
2/15/2021						<0.0005
3/10/2021	<0.0005				<0.0005	
3/11/2021		8.6E-05 (J)	<0.0005	<0.0005		
3/12/2021						<0.0005
8/11/2021	<0.0005			<0.0005		
8/12/2021		0.00014 (J)	<0.0005			
8/13/2021					<0.0005	
8/17/2021						<0.0005
2/1/2022	<0.0005	0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/9/2022						<0.0005
8/2/2022	<0.0005	0.00019 (J)	<0.0005	<0.0005	<0.0005	
8/3/2022						<0.0005
1/23/2023			<0.0005			
1/24/2023	<0.0005	0.00016 (J)		<0.0005	<0.0005	
1/27/2023						<0.0005

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0005	<0.003	
5/23/2016	<0.0005	<0.0005	<0.0005			<0.0005
7/12/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.003	<0.0005
9/1/2016	<0.0005	<0.0005	<0.0005	<0.0005	<0.003	<0.0005
10/20/2016				<0.0005	<0.003	<0.0005
10/24/2016	<0.0005	<0.0005	<0.0005			
12/6/2016				<0.0005	<0.003	<0.0005
12/7/2016	<0.0005	<0.0005	<0.0005			
1/25/2017				<0.0005	<0.003	
1/26/2017	<0.0005	<0.0005	<0.0005			<0.0005
3/21/2017				<0.0005	<0.003	
3/22/2017	9E-05 (J)	<0.0005	<0.0005			<0.0005
5/23/2017	()			<0.0005	<0.003	<0.0005
5/24/2017	<0.0005	<0.0005	<0.0005			
4/3/2018				<0.0005	<0.003	<0.0005
4/4/2018	<0.0005	<0.0005	<0.0005			
3/12/2019					<0.003	
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					<0.003	
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			<0.003	
3/4/2020			9.3E-05 (J)	7.7E-05 (J)		<0.0005
3/26/2020		<0.0005	. ,	, ,		
3/27/2020				<0.0005	<0.003	
3/30/2020			9.9E-05 (J)			
3/31/2020	0.00015 (J)					<0.0005
9/16/2020				<0.0005	0.0001 (J)	
9/17/2020						<0.0005
9/18/2020	<0.0005	<0.0005				
9/21/2020			0.00011 (J)			
2/10/2021				8.1E-05 (J)		
2/12/2021	<0.0005	<0.0005				
2/16/2021					7.1E-05 (J)	<0.0005
2/22/2021			9.7E-05 (J)			
3/15/2021				0.00019 (J)	7.8E-05 (J)	
3/16/2021	8.1E-05 (J)	<0.0005				<0.0005
3/17/2021			9E-05 (J)			
8/16/2021				<0.0005		
8/17/2021						<0.0005
8/18/2021	<0.0005	<0.0005			8.7E-05 (J)	
8/19/2021			7.3E-05 (J)			
2/9/2022	<0.0005	<0.0005				<0.0005
2/10/2022			<0.0005	<0.0005	7.1E-05 (J)	
8/3/2022	<0.0005	<0.0005	<0.0005	<0.0005	5.6E-05 (J)	
8/4/2022						<0.0005
8/11/2022				<0.0005		

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
1/26/2023	<0.0005	<0.0005	9.9E-05 (J)			<0.0005
1/27/2023				<0.0005		
2/1/2023					5.6E-05 (J)	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.0005	<0.0005		<0.0005	<0.0005
3/14/2019	<0.0005			<0.0005		
4/2/2019		<0.0005				
4/3/2019	<0.0005			<0.0005	<0.0005	
4/4/2019						<0.0005
4/8/2019			<0.0005			
9/25/2019		<0.0005				
9/26/2019			<0.0005		<0.0005	<0.0005
9/27/2019	<0.0005			<0.0005		
3/2/2020		<0.0005				
3/3/2020				<0.0005		
3/4/2020	<0.0005		<0.0005		<0.0005	<0.0005
3/26/2020	<0.0005			<0.0005		
3/27/2020		<0.0005				
3/30/2020			<0.0005			
3/31/2020					<0.0005	
4/2/2020						<0.0005
9/17/2020		<0.0005			<0.0005	
9/18/2020				<0.0005		<0.0005
9/21/2020	<0.0005		<0.0005			
2/11/2021		<0.0005				
2/12/2021	<0.0005			<0.0005		
2/16/2021			<0.0005		<0.0005	<0.0005
3/12/2021						<0.0005
3/15/2021		<0.0005				
3/16/2021				<0.0005		
3/17/2021	<0.0005		<0.0005		<0.0005	
8/17/2021		<0.0005			<0.0005	<0.0005
8/18/2021	5.8E-05 (J)					
8/19/2021			<0.0005	<0.0005		
2/9/2022	<0.0005			<0.0005	<0.0005	
2/10/2022		<0.0005	<0.0005			<0.0005
8/3/2022			<0.0005			<0.0005
8/4/2022	<0.0005	<0.0005		<0.0005	<0.0005	
1/26/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1/27/2023						<0.0005

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.0005	<0.0005			
3/13/2019			<0.0005	<0.0005	<0.0005
4/2/2019	<0.0005	<0.0005			
4/3/2019			<0.0005	<0.0005	5.1E-05 (J)
9/24/2019		<0.0005			
9/25/2019			<0.0005		
9/26/2019	<0.0005			<0.0005	<0.0005
3/2/2020		<0.0005	<0.0005		
3/3/2020				<0.0005	<0.0005
3/4/2020	0.00014 (J)				
3/26/2020			<0.0005		
3/27/2020	<0.0005			<0.0005	
3/30/2020		<0.0005			<0.0005
9/16/2020		<0.0005			
9/17/2020			<0.0005		
9/21/2020	<0.0005			<0.0005	<0.0005
2/10/2021	5.4E-05 (J)				
2/15/2021		<0.0005			<0.0005
2/16/2021			<0.0005	<0.0005	
3/15/2021	4.8E-05 (J)	<0.0005			<0.0005
3/16/2021			<0.0005	<0.0005	
8/16/2021		<0.0005			
8/17/2021			<0.0005	<0.0005	<0.0005
8/18/2021	<0.0005				
2/8/2022					<0.0005
2/9/2022			<0.0005	<0.0005	
2/10/2022	<0.0005	<0.0005			
8/3/2022		<0.0005	<0.0005	<0.0005	
8/4/2022	<0.0005				<0.0005
1/26/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

					. ,	
	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	(1)	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)		(0)		****	0.1
8/2/2022	0.012 (J)	0.047	<0.04	0.043	0.31	 -
8/3/2022	5.5 /L (0)	5.517	5.57	0.0.0		0.53
1/23/2023			0.012 (J)			
1/24/2023	0.015 (J)	0.046	0.012 (0)	0.037 (J)	0.44	
1/27/2023	0.010 (0)	0.0-10		0.007 (0)	J.77	0.065
112112023						0.000

	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		0.00	2.6	2.3
10/2/2018		2.0		0.98	2.7	2.5
10/2/2018	0.91	2.3		0.50	2.7	2.0
10/5/2018	0.51	2.3	1.6			
			1.0	0.00		
4/2/2019	0.00	1.0		0.99	2.0	
4/3/2019	0.23	1.8	0.00 (1)		2.8	2.3
4/5/2019			0.86 (J)			
9/24/2019					2.8	
9/25/2019				1.1		
9/26/2019			1.7			
9/27/2019	0.53	2.1				2.9
3/26/2020		1.6				
3/27/2020				1.2	2.4	
3/30/2020			1.8			
3/31/2020	0.17					2.2
6/16/2020					2.2	
6/17/2020				1		
9/16/2020				1.1	1.9	
9/17/2020						2
9/18/2020	0.91	1.6				
9/21/2020			1.6			
3/15/2021				1.1	1.7	
3/16/2021	0.53	1.9				2.2
3/17/2021			0.89			
8/16/2021				1.1		
8/17/2021						2.3
8/18/2021	0.91	1.9			1.8	
8/19/2021			0.73			
2/9/2022	1	2				2.3
2/10/2022			1	1.3	1.7	
8/3/2022	0.64	1.5	0.76	1.1	1.5	
8/4/2022						2
8/11/2022				1.1		
1/26/2023	0.5	1.5	0.83			1.9
1/27/2023				0.93		
2/1/2023					1.9	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		0.11				
4/3/2019	0.63			0.37	1.5	
4/4/2019						0.12 (J)
4/8/2019			0.47 (J)			
9/25/2019		0.091				
9/26/2019			0.49		2	0.14
9/27/2019	0.58			0.36		
3/26/2020	1			0.44		
3/27/2020		0.12				
3/30/2020			0.51			
3/31/2020					1.8	
4/2/2020						0.13
9/17/2020		0.11			2	
9/18/2020				0.36		0.12
9/21/2020	0.89		0.45			
3/12/2021						0.13
3/15/2021		0.12				
3/16/2021				0.4		
3/17/2021	0.69		0.49		2.1	
8/17/2021		0.11			2.2	0.14
8/18/2021	0.55					
8/19/2021			0.52	0.4		
2/9/2022	0.49			0.43	2.3	
2/10/2022		0.13	0.55			0.13
8/3/2022			0.49			0.12
8/4/2022	0.58	0.11		0.35	2	
1/26/2023	0.36	0.099	0.47	0.3	1.8	
1/27/2023						0.12

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	0.17	1.2			
4/3/2019			0.03 (J)	0.67	0.094
9/24/2019		1.2			
9/25/2019			0.11		
9/26/2019	0.6			0.93	0.26
3/26/2020			0.041 (J)		
3/27/2020	0.14			0.77	
3/30/2020		1.3			0.051 (J)
9/16/2020		1.7			
9/17/2020			0.067 (J)		
9/21/2020	0.45			0.82	0.2
3/15/2021	0.36	1.2			0.16
3/16/2021			0.037 (J)	0.81	
8/16/2021		1.1			
8/17/2021			0.026 (J)	0.85	0.2
8/18/2021	0.72		• •		
2/8/2022					0.19
2/9/2022			0.042	0.96	
2/10/2022	0.23	1.4			
8/3/2022		1.1	0.034 (J)	0.75	
8/4/2022	0.55				0.14
1/26/2023	0.29	1	0.044	0.71	0.033 (J)
20, 2020	5.25	•	0.0 7	· · · ·	3.555 (5)

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.0005	<0.0005	<0.0005			
5/23/2016						0.000115 (J)
7/11/2016	<0.0005	<0.0005				
7/12/2016			<0.0005			<0.0005
8/30/2016	<0.0005	<0.0005	<0.0005			
9/1/2016						0.0001 (J)
10/19/2016	<0.0005	<0.0005	<0.0005			
10/24/2016						0.0001 (J)
12/6/2016	<0.0005	<0.0005	<0.0005			
12/7/2016						0.0001 (J)
1/24/2017	<0.0005	0.0001 (J)	<0.0005			
1/26/2017						<0.0005
3/21/2017	<0.0005	7E-05 (J)	<0.0005			
3/22/2017						0.0001 (J)
5/22/2017	<0.0005	0.0001 (J)	<0.0005			
5/24/2017						0.0002 (J)
4/2/2018	<0.0005	<0.0005				
4/3/2018			<0.0005			
4/4/2018						<0.0005
3/12/2019	<0.0005	0.00013 (J)	<0.0005			
3/13/2019						<0.0005
4/1/2019			<0.0005			
4/2/2019	<0.0005	0.00015 (J)				
4/3/2019						0.0001 (J)
9/23/2019	<0.0005	<0.0005	<0.0005			
9/27/2019						<0.0005
3/2/2020	<0.0005	<0.0005	<0.0005			
3/3/2020						<0.0005
3/25/2020	<0.0005	0.00014 (J)	<0.0005			
4/1/2020						<0.0005
9/15/2020	<0.0005	0.00012 (J)	<0.0005			
9/16/2020				<0.0005	<0.0005	<0.0005
11/10/2020				<0.0005	<0.0005	
12/15/2020				<0.0005	<0.0005	
1/19/2021				<0.0005	<0.0005	
2/8/2021	<0.0005					
2/9/2021		0.00016 (J)	<0.0005	<0.0005	<0.0005	
2/15/2021						<0.0005
3/10/2021	<0.0005				<0.0005	
3/11/2021		<0.0005	<0.0005	<0.0005		
3/12/2021						<0.0005
8/11/2021	<0.0005			<0.0005		
8/12/2021		0.00014 (J)	<0.0005			
8/13/2021					<0.0005	
8/17/2021						<0.0005
2/1/2022	<0.0005	0.00017 (J)	<0.0005	<0.0005	<0.0005	
2/9/2022						<0.0005
8/2/2022	<0.0005	0.00023 (J)	<0.0005	<0.0005	<0.0005	
8/3/2022						<0.0005
1/23/2023			<0.0005			
1/24/2023	<0.0005	0.00021 (J)		<0.0005	<0.0005	
1/27/2023						<0.0005

	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	(3)		(-)
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	<0.001	<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		(0)	
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		(1)	<0.0005	<0.0005	(1)	<0.0005
3/26/2020		<0.0005				
3/27/2020				<0.0005	0.00014 (J)	
3/30/2020			<0.0005		()	
3/31/2020	<0.0005					<0.0005
9/16/2020				<0.0005	0.00023 (J)	
9/17/2020					, ,	<0.0005
9/18/2020	<0.0005	<0.0005				
9/21/2020			<0.0005			
2/10/2021				<0.0005		
2/12/2021	<0.0005	<0.0005				
2/16/2021					0.00037 (J)	<0.0005
2/22/2021			<0.0005			
3/15/2021				<0.0005	0.00017 (J)	
3/16/2021	<0.0005	<0.0005				<0.0005
3/17/2021			<0.0005			
8/16/2021				<0.0005		
8/17/2021						<0.0005
8/18/2021	<0.0005	<0.0005			0.0002 (J)	
8/19/2021			<0.0005		-	
2/9/2022	<0.0005	<0.0005				<0.0005
2/10/2022			<0.0005	<0.0005	0.00029 (J)	
8/3/2022	<0.0005	<0.0005	<0.0005	<0.0005	0.00017 (J)	
8/4/2022						<0.0005
8/11/2022				<0.0005		

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
1/26/2023	<0.0005	<0.0005	<0.0005			<0.0005
1/27/2023				0.00019 (J)		
2/1/2023					0.00014 (J)	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.0005	<0.0005		<0.0005	<0.0005
3/14/2019	<0.0005			<0.0005		
4/2/2019		<0.0005				
4/3/2019	<0.0005			<0.0005	<0.0005	
4/4/2019						<0.0005
4/8/2019			<0.0005			
9/25/2019		<0.0005				
9/26/2019			<0.0005		<0.0005	<0.0005
9/27/2019	0.00013 (J)			<0.0005		
3/2/2020		<0.0005				
3/3/2020				<0.0005		
3/4/2020	0.00026 (J)		<0.0005		<0.0005	<0.0005
3/26/2020	0.00019 (J)			<0.0005		
3/27/2020		<0.0005				
3/30/2020			<0.0005			
3/31/2020					<0.0005	
4/2/2020						<0.0005
9/17/2020		<0.0005			<0.0005	
9/18/2020				<0.0005		<0.0005
9/21/2020	0.00018 (J)		<0.0005			
2/11/2021		<0.0005				
2/12/2021	0.0002 (J)			<0.0005		
2/16/2021			<0.0005		<0.0005	<0.0005
3/12/2021						<0.0005
3/15/2021		<0.0005				
3/16/2021				<0.0005		
3/17/2021	0.00016 (J)		<0.0005		<0.0005	
8/17/2021		<0.0005			<0.0005	<0.0005
8/18/2021	0.00027 (J)					
8/19/2021			<0.0005	<0.0005		
2/9/2022	0.0011			<0.0005	<0.0005	
2/10/2022		<0.0005	<0.0005			<0.0005
8/3/2022			<0.0005			<0.0005
8/4/2022	0.00022 (J)	<0.0005		<0.0005	<0.0005	
1/26/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
1/27/2023						<0.0005

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.0005	<0.0005			
3/13/2019			<0.0005	<0.0005	<0.0005
4/2/2019	<0.0005	<0.0005			
4/3/2019			<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005			
9/25/2019			<0.0005		
9/26/2019	<0.0005			<0.0005	<0.0005
3/2/2020		<0.0005	<0.0005		
3/3/2020				<0.0005	<0.0005
3/4/2020	<0.0005				
3/26/2020			<0.0005		
3/27/2020	<0.0005			<0.0005	
3/30/2020		<0.0005			<0.0005
9/16/2020		<0.0005			
9/17/2020			<0.0005		
9/21/2020	<0.0005			<0.0005	<0.0005
2/10/2021	<0.0005				
2/15/2021		<0.0005			<0.0005
2/16/2021			<0.0005	<0.0005	
3/15/2021	<0.0005	<0.0005			<0.0005
3/16/2021			<0.0005	<0.0005	
8/16/2021		<0.0005			
8/17/2021			<0.0005	<0.0005	<0.0005
8/18/2021	<0.0005				
2/8/2022					<0.0005
2/9/2022			<0.0005	<0.0005	
2/10/2022	<0.0005	<0.0005			
8/3/2022		<0.0005	<0.0005	<0.0005	
8/4/2022	<0.0005				<0.0005
1/26/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

					. ,	
	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	.00					183
1/24/2017	95.7	18.5	69.6			100
1/26/2017	56.7	10.0	00.0			82.6
3/21/2017	106	18.6	75.7			02.0
3/22/2017	.50	.5.5	. 5.7			154
5/22/2017	107	17.8	71.5			10-7
	107	17.0	71.0			171
5/24/2017	100	20.2	76.2			171
10/3/2017	102	20.2	76.3			162
6/4/2018	124	19.1	73.4			107
6/5/2018	100	00.5 (1)	00.0			167
10/1/2018	108	20.5 (J)	80.9			
10/2/2018						144
4/1/2019			80.5			
4/2/2019	132	22.5 (J)				
4/3/2019						137
9/23/2019	118	19.5	71			
9/27/2019						157
3/25/2020	127	23	89.8			
4/1/2020						96.2
6/16/2020	130		85.1			
9/15/2020	103	21.1	73.1			
9/16/2020				56	30	139
11/10/2020				63.3	33.6	
12/15/2020				62.6	28.7	
1/19/2021				60.1	33	
3/10/2021	111				5.9	
3/11/2021		43.8	83.8	59.6		
3/12/2021						146 (M1)
8/11/2021	113			61		
8/12/2021		21.9	84			
8/13/2021					28.9	
8/17/2021						153
2/1/2022	106	27.2	85.1	55.9	24.8	
2/9/2022			•		-	76.8
8/2/2022	117	31.2	84.6	54.1	20.9	
8/3/2022	•••	J	J .	J	_0.0	125
1/23/2023			85			·==
1/24/2023	117	29.4		56.6	13.2	
1/27/2023	,	20.7		50.0		60.4
1,2,,2020						

	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	100	140	183
5/23/2017	130	102	03.1	93.3	140	181
5/24/2017	117	158	77.1	95.5	140	101
				100	150	100
10/3/2017	87.7	130	62	108	158	188
6/5/2018	113	126	110	99.8	107	104
6/6/2018		136		100	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	122	100	173			
3/15/2021			173	113	156	
	122	166		113	130	100
3/16/2021	132	166	104			182
3/17/2021			184	110		
8/16/2021				112		400
8/17/2021		40-				183
8/18/2021	128	163			147	
8/19/2021			179			
2/9/2022	144	172				183
2/10/2022			206	108	153	
8/3/2022	131	167	237	125	153	
8/4/2022						196
8/11/2022				119		
1/26/2023	113	154	234			173
1/27/2023				124		
2/1/2023					110	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		109				
4/3/2019	74.9			25.4	122	
4/4/2019						26.3
4/8/2019			83			
9/25/2019		113				
9/26/2019			83.1		158	32.1
9/27/2019	90			26.4		
3/26/2020	171			27		
3/27/2020		126				
3/30/2020			84.4			
3/31/2020					155	
4/2/2020						28.4
9/17/2020		110			150	
9/18/2020				25.1		24.8
9/21/2020	135		87.6			
3/12/2021						28
3/15/2021		121				
3/16/2021				24.8		
3/17/2021	130		102		175	
8/17/2021		123			177	28.5
8/18/2021	125					
8/19/2021			99.5	23.8		
2/9/2022	97.6			23.5	176	
2/10/2022		123	110			31.4
8/3/2022			102			30.8
8/4/2022	187	131		22	186	
1/26/2023	118	122	107	21.8	179	
1/27/2023						28.1

	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			
8/3/2022		143	86.6	176	
8/4/2022	76.7				73.1
1/26/2023	64.4	146	76.1	180	21.6

	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	0.0	0	0.0			99
12/6/2016	5.4	6	7.2			
12/7/2016	5.4	0	7.2			96
1/24/2017	5.2	6.1	6.4			50
	5.2	0.1	0.4			7
1/26/2017	4.0	F.0	7.5			7
3/21/2017	4.6	5.9	7.5			20
3/22/2017						82
5/22/2017	4.6	5.9	6.5			
5/24/2017						81
10/3/2017	5.6	6.3	6.5			100
6/4/2018	13.1	6.1	6.3			
6/5/2018						66.6
10/1/2018	6.6	6.4	6.4			
10/2/2018						48.3
4/1/2019			6.5			
4/2/2019	20.3	5.8				
4/3/2019						49.3
9/23/2019	17.7	5.1	5.9			
9/27/2019						49.9
3/25/2020	20.4	5.2	6.1			
4/1/2020						5.4
6/16/2020	41.1		5.8			
9/15/2020	13.4	5	6			
9/16/2020				4.1	7.2	39.7
11/10/2020				4.4	7.8	
12/15/2020				4.7	9.4	
1/19/2021				4.1	9.5	
3/10/2021	7.4				12.3	
3/11/2021		5.1	5.9	4.5		
3/12/2021						35
8/11/2021	9.6			3.5		
8/12/2021		5.2	4.8			
8/13/2021					39.9	
8/17/2021						28.3
2/1/2022	7.5	7	5.7	4.1	44.8	
2/9/2022		-				1.2
8/2/2022	14.1	7.8	5.9	4.3	19.8	·
8/3/2022	1-T-1	7.0	0.0	7.0	10.0	12.3
1/23/2023			5.6			12.0
1/23/2023	۵	7.1	5.0	4.3	24.9	
1/24/2023	9	7.1		7.3	∠ ¬.∃	1.6
112112023						1.0

		HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5	5/20/2016				50.4	109	
	5/23/2016	51.9	160	93.2			152
	7/12/2016	100		78	50	110	160
	9/1/2016	58	140	100	50	110	160
	10/20/2016				49		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		29	52	130	160
	6/5/2018	56.1		72.3	52.3		
	6/6/2018	==""	46.4	0		44.8	138
	10/2/2018				52.6	89.4	142
	10/3/2018	24.8	88.4				
	10/5/2018			32.3			
	1/2/2019			02.0	55.5		
	1/3/2019	4.6	62.8		55.5	91.6	130
	1/5/2019	4.0		36.4		31.0	130
	9/24/2019			30.4		60.2	
	9/25/2019				49.8	00.2	
	9/26/2019			109	40.0		
	9/27/2019	27.9	81	103			126
	3/26/2020	27.0	48				120
	3/27/2020		40		48.3	79.8	
	3/30/2020			75.1	40.0	70.0	
	3/31/2020	3.2		75.1			105
	6/16/2020	0.2				67.9	
	6/17/2020				45.2	07.5	
	9/16/2020				46.4	74.6	
	9/17/2020				.0.4	. 1.0	105
	9/18/2020	34.9	74.6				
	9/21/2020	5		41.2			
	3/15/2021				44.5	72.4	
	3/16/2021	11.5	56.8				94.7
	3/17/2021			31.4			···
	3/16/2021			J	40.3		
	3/17/2021				.5.5		88.6
	3/18/2021	19.9	47.3			50.9	
	3/19/2021	. 5.5		24.4		- 5.0	
	2/9/2022	20.4	46.8				84.4
	2/10/2022			17.4	39.8	48.2	
	3/3/2022	13.8		13	37.9	54.1	
	8/4/2022	. 5.0		.5	J7.0	V 7. 1	86.8
	3/4/2022				37.7		00.0
	1/26/2023	8.8	34.6	12.5	J		86.9
	1/27/2023	5.5	JJ	.2.0	40		
	2/1/2023					52.4	
	., ., 2020					UL.T	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		27.5				
4/3/2019	19.5			32	90.6	
4/4/2019						26.9
4/8/2019			43.3			
9/25/2019		25.7				
9/26/2019			39.7		118	31.8
9/27/2019	46.2			36.2		
3/26/2020	64			34.6		
3/27/2020		28.8				
3/30/2020			37.4			
3/31/2020					98	
4/2/2020						27.9
9/17/2020		29.7			103	
9/18/2020				33.4		30.4
9/21/2020	35		45.2			
3/12/2021						31.3
3/15/2021		31.1				
3/16/2021				29.2		
3/17/2021	19.8		42.9		95.3	
8/17/2021		28.3			89.2	30
8/18/2021	14.3					
8/19/2021			37.2	30.8		
2/9/2022	10.2			26.5	85.7	
2/10/2022		31.4	38.2			31.4
8/3/2022			39.6			36.7
8/4/2022	11.3	31.4		20.5	88.5	
1/26/2023	7.7	30	38	17.2	83.6	
1/27/2023						32.5

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	44	80.9			
4/3/2019			1.8	60.9	5.6
9/24/2019		83.8			
9/25/2019			35.9		
9/26/2019	43.5			64.9	15.6
3/26/2020			0.73 (J)		
3/27/2020	33			48.6	
3/30/2020		71.2			1.5
9/16/2020		75.3			
9/17/2020			28.7		
9/21/2020	42.9			58.1	11.1
3/15/2021	35.8	73.6			6.8
3/16/2021			1.4	49.8	
8/16/2021		68			
8/17/2021			1.4	43.5	8.9
8/18/2021	33.7				
2/8/2022					6.9
2/9/2022			0.74 (J)	37.9	
2/10/2022	29	66			
8/3/2022		63.5	4.4	39.6	
8/4/2022	33.3				4.7
1/26/2023	27.7	62.4	0.86 (J)	30.5	1.2

	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				.0.005	<0.005
3/10/2021	<0.005	.0.005	.0.005	.0.005	<0.005	
3/11/2021		<0.005	<0.005	<0.005		0.005
3/12/2021	-0.005			-0.005		<0.005
8/11/2021	<0.005	-0.005	-0.005	<0.005		
8/12/2021		<0.005	<0.005		0.0046 (1)	
8/13/2021					0.0016 (J)	-0.00E
8/17/2021	<0.00E	<0.00E	<0.00E	<0.00E	0.0012 (1)	<0.005
2/1/2022	<0.005	<0.005	<0.005	<0.005	0.0013 (J)	0.0011 (1)
2/9/2022	<0.005	<0.005	<0.005	<0.00E	<0.005	0.0011 (J)
8/2/2022 8/3/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1/23/2023			<0.005			-0.000
1/24/2023	<0.005	<0.005	-0.000	<0.005	<0.005	
1/24/2023	-0.003	-0.000		-0.000	.0.000	0.0012 (J)
112112025						3.3012 (0)

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.005	<0.005	
5/23/2016	<0.005	<0.005	<0.005			<0.005
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016				<0.005	<0.005	<0.005
10/24/2016	<0.005	<0.005	<0.005			
12/6/2016				<0.005	<0.005	<0.005
12/7/2016	<0.005	<0.005	<0.005			
1/25/2017				<0.005	<0.005	
1/26/2017	<0.005	<0.005	<0.005			<0.005
3/21/2017				<0.005	0.0005 (J)	
3/22/2017	0.0003 (J)	0.0004 (J)	0.0004 (J)			<0.005
5/23/2017				<0.005	<0.005	<0.005
5/24/2017	<0.005	<0.005	<0.005			
4/3/2018				<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005			
3/12/2019					<0.005	
3/13/2019	<0.005		<0.005	<0.005		<0.005
3/14/2019		0.0025 (J)				
4/2/2019		(-)		<0.005		
4/3/2019	<0.005	<0.005			<0.005	<0.005
4/5/2019			<0.005			
9/24/2019					<0.005	
9/25/2019				0.071		
9/26/2019			<0.005			
9/27/2019	<0.005	<0.005				<0.005
3/3/2020	0.00061 (J)	<0.005			0.0007 (J)	
3/4/2020			<0.005	0.0016 (J)		<0.005
3/26/2020		<0.005		, ,		
3/27/2020				0.0004 (J)	<0.005	
3/30/2020			0.00059 (J)			
3/31/2020	<0.005					0.00052 (J)
9/16/2020				0.00074 (J)	0.0015 (J)	
9/17/2020						<0.005
9/18/2020	<0.005	0.00091 (J)				
9/21/2020			0.00056 (J)			
2/10/2021				0.0014 (J)		
2/12/2021	<0.005	<0.005				
2/16/2021					<0.005	0.00067 (J)
2/22/2021			<0.005			
3/15/2021				0.0021 (J)	0.00082 (J)	
3/16/2021	<0.005	<0.005				<0.005
3/17/2021			<0.005			
8/16/2021				<0.005		
8/17/2021						<0.005
8/18/2021	<0.005	<0.005			<0.005	
8/19/2021			<0.005			
2/9/2022	<0.005	<0.005				0.0011 (J)
2/10/2022			<0.005	<0.005	<0.005	
8/3/2022	<0.005	<0.005	<0.005	<0.005	<0.005	
8/4/2022						<0.005
8/11/2022				<0.005		

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
1/26/2023	0.0012 (J)	<0.005	<0.005			0.0013 (J)
1/27/2023				0.0014 (J)		
2/1/2023					<0.005	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.005	<0.005		<0.005	<0.005
3/14/2019	<0.005			<0.005		
4/2/2019		<0.005				
4/3/2019	<0.005			<0.005	<0.005	
4/4/2019						<0.005
4/8/2019			<0.005			
9/25/2019		<0.005				
9/26/2019			0.00042 (J)		0.00076 (J)	<0.005
9/27/2019	<0.005			<0.005		
3/2/2020		0.00071 (J)				
3/3/2020				<0.005		
3/4/2020	0.00066 (J)		<0.005		0.0028 (J)	<0.005
3/26/2020	0.00047 (J)			0.00061 (J)		
3/27/2020		0.00051 (J)				
3/30/2020			<0.005			
3/31/2020					0.001 (J)	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		0.0007 (J)
9/21/2020	0.0014 (J)		<0.005			
2/11/2021		<0.005				
2/12/2021	0.00059 (J)			<0.005		
2/16/2021			<0.005		0.001 (J)	0.00082 (J)
3/12/2021						<0.005
3/15/2021		0.00068 (J)				
3/16/2021				<0.005		
3/17/2021	0.0022 (J)		0.0017 (J)		0.0015 (J)	
8/17/2021		<0.005			<0.005	<0.005
8/18/2021	<0.005					
8/19/2021			<0.005	<0.005		
2/9/2022	<0.005			<0.005	<0.005	
2/10/2022		<0.005	<0.005			<0.005
8/3/2022			<0.005			<0.005
8/4/2022	<0.005	<0.005		<0.005	<0.005	
1/26/2023	0.0011 (J)	<0.005	<0.005	0.0012 (J)	<0.005	
1/27/2023						<0.005

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			0.003 (J)	<0.005	<0.005
4/2/2019	<0.005	<0.005			
4/3/2019			0.003 (J)	<0.005	0.0023 (J)
9/24/2019		<0.005			
9/25/2019			0.0052 (J)		
9/26/2019	0.00081 (J)			<0.005	0.0013 (J)
3/2/2020		<0.005	0.0042 (J)		
3/3/2020				0.00044 (J)	0.0015 (J)
3/4/2020	0.0027 (J)				
3/26/2020			0.0044 (J)		
3/27/2020	<0.005			0.00059 (J)	
3/30/2020		0.001 (J)			0.0021 (J)
9/16/2020		<0.005			
9/17/2020			0.0021 (J)		
9/21/2020	0.00085 (J)			<0.005	0.0017 (J)
2/10/2021	0.0014 (J)				
2/15/2021		<0.005			0.0015 (J)
2/16/2021			0.0032 (J)	<0.005	
3/15/2021	0.00078 (J)	<0.005			0.0018 (J)
3/16/2021			0.0024 (J)	<0.005	
8/16/2021		<0.005			
8/17/2021			0.0018 (J)	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					0.0016 (J)
2/9/2022			0.0031 (J)	<0.005	
2/10/2022	0.0011 (J)	<0.005			
8/3/2022		<0.005	0.0015 (J)	<0.005	
8/4/2022	<0.005				0.002 (J)
1/26/2023	<0.005	<0.005	0.0032 (J)	0.0014 (J)	0.0017 (J)

	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	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 1/19/2021				<0.005 <0.005	<0.005 <0.005	
	<0.005			<0.005	\0.005	
2/8/2021 2/9/2021	<0.005	0.02	<0.005	<0.005	<0.005	
2/15/2021		0.02	~0.003	~0.003	~0.003	<0.005
3/10/2021	<0.005				<0.005	10.000
3/11/2021	10.003	0.013	<0.005	<0.005	10.003	
3/12/2021		0.013	10.003	10.003		<0.005
8/11/2021	<0.005			<0.005		10.000
8/12/2021	0.000	0.022	<0.005	0.000		
8/13/2021		0.022	0.000		<0.005	
8/17/2021					10.000	<0.005
2/1/2022	<0.005	0.025	<0.005	<0.005	<0.005	
2/9/2022						<0.005
8/2/2022	0.00054 (J)	0.024	<0.005	<0.005	<0.005	
8/3/2022	(-)					<0.005
1/23/2023			<0.005			
1/24/2023	<0.005	0.024		<0.005	<0.005	
1/27/2023						<0.005

	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)		(1)	<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	(3)	(-,	(-)	0.0009 (J)	0.0026 (J)	0.0011 (J)
12/7/2016	0.003 (J)	0.0021 (J)	0.0034 (J)	. ,	. ,	. ,
1/25/2017	(1)	(-,	(-,	0.0005 (J)	0.002 (J)	
1/26/2017	0.0014 (J)	0.0016 (J)	0.0024 (J)	(-,	(-)	0.0006 (J)
3/21/2017	()	. ,	. ,	0.0005 (J)	0.0023 (J)	()
3/22/2017	0.0014 (J)	0.0018 (J)	0.0026 (J)	. ,	()	0.0005 (J)
5/23/2017	. ,	. ,	· · ·	0.0005 (J)	0.0023 (J)	0.0006 (J)
5/24/2017	0.0008 (J)	0.0015 (J)	0.0022 (J)	. ,	()	()
4/3/2018	()	. ,	. ,	<0.005	<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005			
3/12/2019					0.002 (J)	
3/13/2019	0.00098 (J)		0.0022 (J)	0.00067 (J)	. ,	0.00065 (J)
3/14/2019		0.0011 (J)				
4/2/2019		.,		0.00069 (J)		
4/3/2019	0.0018 (J)	0.0011 (J)			0.0019 (J)	0.00069 (J)
4/5/2019			0.0017 (J)			
9/24/2019					0.0015 (J)	
9/25/2019				0.0026 (J)		
9/26/2019			0.0042 (J)			
9/27/2019	0.00071 (J)	0.0012 (J)				0.00057 (J)
3/3/2020	0.00087 (J)	0.0013 (J)			0.002 (J)	
3/4/2020			0.0066	0.0011 (J)		0.00053 (J)
3/26/2020		0.0012 (J)				
3/27/2020				0.00074 (J)	0.0018 (J)	
3/30/2020			0.0053			
3/31/2020	0.0014 (J)					0.00051 (J)
9/16/2020				0.00065 (J)	0.0019 (J)	
9/17/2020						0.0007 (J)
9/18/2020	<0.005	0.0014 (J)				
9/21/2020			0.0032 (J)			
2/10/2021				0.00081 (J)		
2/12/2021	<0.005	0.0012 (J)				
2/16/2021					0.002 (J)	0.00061 (J)
2/22/2021			0.003 (J)			
3/15/2021				0.0014 (J)	0.0019 (J)	
3/16/2021	<0.005	0.0012 (J)				0.00069 (J)
3/17/2021			0.0029 (J)			
8/16/2021				0.0012 (J)		
8/17/2021						0.00045 (J)
8/18/2021	<0.005	0.0012 (J)			0.002 (J)	
8/19/2021			0.0024 (J)			
2/9/2022	<0.005	0.0013 (J)				0.00051 (J)
2/10/2022			0.0026 (J)	0.0011 (J)	0.0021 (J)	
8/3/2022	<0.005	0.0012 (J)	0.0041 (J)	0.0015 (J)	0.0024 (J)	
8/4/2022						0.00046 (J)
8/11/2022				0.0018 (J)		

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
1/26/2023	<0.005	0.0012 (J)	0.012			0.00068 (J)
1/27/2023				0.00067 (J)		
2/1/2023					<0.005	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.0011 (J)	<0.005		<0.005	<0.005
3/14/2019	0.025			<0.005		
4/2/2019		<0.005				
4/3/2019	0.036			<0.005	<0.005	
4/4/2019						9.1E-05 (J)
4/8/2019			0.00025 (J)			
9/25/2019		<0.005				
9/26/2019			0.0011 (J)		0.00053 (J)	<0.005
9/27/2019	0.033			<0.005		
3/2/2020		<0.005				
3/3/2020				<0.005		
3/4/2020	0.048		0.00056 (J)		<0.005	0.00045 (J)
3/26/2020	0.045			<0.005		
3/27/2020		<0.005				
3/30/2020			<0.005			
3/31/2020					0.0003 (J)	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		<0.005
9/21/2020	0.032		<0.005			
2/11/2021		<0.005				
2/12/2021	0.037			<0.005		
2/16/2021			<0.005		0.00045 (J)	0.0004 (J)
3/12/2021						<0.005
3/15/2021		<0.005				
3/16/2021				<0.005		
3/17/2021	0.037		<0.005		0.00044 (J)	
8/17/2021		<0.005			0.00045 (J)	<0.005
8/18/2021	0.039					
8/19/2021			<0.005	<0.005		
2/9/2022	0.03			<0.005	0.00059 (J)	
2/10/2022		<0.005	<0.005			<0.005
8/3/2022			<0.005			<0.005
8/4/2022	0.043	<0.005		<0.005	0.00048 (J)	
1/26/2023	0.022	<0.005	<0.005	<0.005	0.00051 (J)	
1/27/2023						<0.005

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	0.00057 (J)			
3/13/2019			<0.005	0.00055 (J)	<0.005
4/2/2019	<0.005	0.00084 (J)			
4/3/2019			<0.005	<0.005	<0.005
9/24/2019		0.0015 (J)			
9/25/2019			<0.005		
9/26/2019	<0.005			0.00036 (J)	<0.005
3/2/2020		0.00067 (J)	<0.005		
3/3/2020				0.00094 (J)	<0.005
3/4/2020	0.00093 (J)				
3/26/2020			<0.005		
3/27/2020	<0.005			0.00059 (J)	
3/30/2020		0.00063 (J)			<0.005
9/16/2020		0.0013 (J)			
9/17/2020			<0.005		
9/21/2020	<0.005			0.00041 (J)	<0.005
2/10/2021	<0.005				
2/15/2021		0.00097 (J)			<0.005
2/16/2021			<0.005	0.00045 (J)	
3/15/2021	<0.005	0.0011 (J)			<0.005
3/16/2021			<0.005	0.00042 (J)	
8/16/2021		0.0014 (J)			
8/17/2021			<0.005	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					<0.005
2/9/2022			<0.005	0.00059 (J)	
2/10/2022	<0.005	0.00089 (J)			
8/3/2022		0.0012 (J)	<0.005	0.00041 (J)	
8/4/2022	<0.005				<0.005
1/26/2023	<0.005	0.00056 (J)	<0.005	0.00044 (J)	<0.005

	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)			····· (e)
6/5/2018	(2)	(0)				0.718 (U)
10/1/2018	0.132 (U)	0.434 (U)	0.781 (U)			····· (e)
10/2/2018	0.102 (0)	0.404 (0)	0.701 (0)			0.948
3/12/2019	0.327 (U)	0.454 (U)	1.01 (U)			0.540
3/13/2019	0.327 (0)	0.454 (0)	1.01 (0)			1.19 (U)
4/1/2019			0.76 (U)			1.13 (0)
4/1/2019	0.739 (U)	0.651 (U)	0.70 (0)			
4/3/2019	0.755 (6)	0.031 (0)				1.82 (U)
9/27/2019						
	0.206 (11)	1.04 (11)	0.294 (U)			1.16 (U)
9/30/2019 3/2/2020	0.306 (U) 0.61 (U)	1.04 (U) 1.58	0.384 (U) 0.249 (U)			
	0.01 (0)	1.56	0.249 (0)			0.667 (11)
3/3/2020	4.26	0.621 (11)	0.832 (11)			0.667 (U)
3/25/2020	4.36	0.621 (U)	0.833 (U)			0.005 (11)
4/1/2020	0.740 (11)	0.104 (11)	0.404.(1)			0.235 (U)
9/15/2020	0.748 (U)	0.124 (U)	0.161 (U)	0.504.410	0.400.410	0.40
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)	101
2/15/2021	0.45				0.044 (1.1)	1.91
3/10/2021	0 (U)				0.811 (U)	
3/11/2021		0.737 (U)	0.128 (U)	1.51 (U)		4.42.40
3/12/2021						1.12 (U)
8/11/2021	0.115 (U)			0.394 (U)		
8/12/2021		0.746 (U)	0.389 (U)			
8/13/2021					1.2	
8/17/2021						0.595 (U)
2/1/2022	0.143 (U)	0.588 (U)	0.266 (U)	1.12	0.665 (U)	
2/9/2022						0.49 (U)
8/2/2022	0.203 (U)	0.861 (U)	0.4 (U)	0.662 (U)	0.952 (U)	

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
8/3/2022						0.454 (U)
1/23/2023			0.311 (U)			
1/24/2023	0.549 (U)	0.829 (U)		1.25	0.421 (U)	
1/27/2023						1.2

	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)			

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.444 (U)	0.564 (U)				0.198 (U)
2/10/2022			0.442 (U)	0.175 (U)	0.945 (U)	
8/3/2022	0.823 (U)	0.418 (U)	0.54 (U)	0.42 (U)	0.455 (U)	
8/4/2022						0.597 (U)
8/11/2022				0.461 (U)		
1/26/2023	0.441 (U)	0.877	0.719			0.516 (U)
1/27/2023				0.45 (U)		
2/1/2023					0.241 (U)	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.538 (U)	0.311 (U)		0.627 (U)	1.81
3/14/2019	0.347 (U)			1.28 (U)		
4/2/2019		1.02 (U)				
4/3/2019	0.884 (U)			0.662 (U)	0.205 (U)	
4/4/2019						1.33
4/8/2019			0.573 (U)			
9/25/2019		1.35 (U)				
9/26/2019			0.878 (U)		0.912 (U)	0.974 (U)
9/27/2019	0.534 (U)			0.945 (U)		
3/2/2020		0.653 (U)				
3/3/2020				1.36		
3/4/2020	1.04		0.333 (U)		1.27 (U)	1.12
3/26/2020	1.1 (U)			0.793 (U)		
3/27/2020		0.1 (U)				
3/30/2020			0.107 (U)			
3/31/2020					1.65	
4/2/2020						2.48
9/17/2020		0.469 (U)			0.42 (U)	
9/18/2020				1.17 (U)		1.13 (U)
9/21/2020	1.36 (U)		1.23 (U)			
2/11/2021		0.334 (U)				
2/12/2021	0.764 (U)			1.17		
2/16/2021			0.156 (U)		0.505 (U)	1.21
3/12/2021						0.649 (U)
3/15/2021		1.24 (U)				
3/16/2021				0.742 (U)		
3/17/2021	0.466 (U)		0.174 (U)		0.165 (U)	
8/17/2021		0.709 (U)			0.0468 (U)	1.06 (U)
8/18/2021	0.642 (U)					
8/19/2021			0.227 (U)	0.935 (U)		
2/9/2022	0.245 (U)			0.754 (U)	0.0677 (U)	
2/10/2022		0.32 (U)	0.178 (U)			0.809 (U)
8/3/2022			0.263 (U)			0.685 (U)
8/4/2022	0.509 (U)	1.05 (U)		1.65	0.0273 (U)	
1/26/2023	0.333 (U)	0.561 (U)	0.0906 (U)	1.1	0.386 (U)	
1/27/2023						1.1

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.926 (U)	1.37			
3/13/2019			0.621 (U)	2.07	1.23
4/2/2019	0.479 (U)	0.62 (U)			
4/3/2019			0.932 (U)	0.872 (U)	1.05 (U)
9/24/2019		0.675 (U)			
9/25/2019			0.798 (U)		
9/26/2019	0.997 (U)			0.745 (U)	0.947 (U)
3/2/2020		0.413 (U)	0.964 (U)		
3/3/2020				0.757 (U)	1.15
3/4/2020	1.31				
3/26/2020			1.1		
3/27/2020	1.59			0.758 (U)	
3/30/2020		0.885 (U)			0.83 (U)
9/16/2020		0.193 (U)			
9/17/2020			0.618 (U)		
9/21/2020	1.39 (U)			0.796 (U)	1.55 (U)
2/10/2021	0.201 (U)				
2/15/2021		1.17 (U)			0.892 (U)
2/16/2021			0.466 (U)	0.198 (U)	
3/15/2021	0.564 (U)	0.436 (U)			0.386 (U)
3/16/2021			1.22	0.727 (U)	
8/16/2021		0.208 (U)			
8/17/2021			0.304 (U)	0.557 (U)	0.183 (U)
8/18/2021	0.876 (U)				
2/8/2022					0.417 (U)
2/9/2022			0.567 (U)	0.619 (U)	
2/10/2022	1.96 (U)	0.594 (U)			
8/3/2022		0.581 (U)	0.63 (U)	0.543 (U)	
8/4/2022	0.84 (U)				1.18 (U)
1/26/2023	0.821	0.793 (U)	0.909	0.493 (U)	0.318 (U)

	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	<0.3	<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	<0.3	<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			2.070
4/1/2020						0.12 (J)
6/16/2020	0.071 (J)		<0.1			
9/15/2020	0.082 (J)	<0.1	<0.1	0.00	0.50	
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	0.070 ("			0.16	0.74	
2/8/2021	0.078 (J)	.0.4	0.074 ())	0.40	0.44	
2/9/2021		<0.1	0.074 (J)	0.19	0.44	
2/15/2021	0.070 ("				0.05	0.08 (J)
3/10/2021	0.079 (J)	0.4		0.0	0.65	
3/11/2021		0.1	<0.1	0.2		0.054 (1)
3/12/2021	0.050 ("			0.45		0.054 (J)
8/11/2021	0.058 (J)	.0.4		0.15		
8/12/2021		<0.1	<0.1		0.07	
8/13/2021					0.87	
8/17/2021	0.004 ();	.0.4		0.40	0.00	<0.1
2/1/2022	0.064 (J)	<0.1	<0.1	0.19	0.96	

HGWC-10
0.12
0.13
0.16
0.

	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)			<0.3	
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	6			0.4	0.56	0.56	
10/24/2016	6 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				<0.3	0.39	<0.3	
4/4/2018	0.39	<0.3	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				<0.3	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)			

		HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/1	7/2021						0.095 (J)
8/1	8/2021	0.21	0.15			0.41	
8/1	9/2021			0.53			
2/9	/2022	0.2	0.2				0.1
2/1	0/2022			0.53	0.083 (J)	0.42	
8/3	/2022	0.22	0.21	0.55	0.11	0.44	
8/4	/2022						0.13
8/1	1/2022				0.11		
1/2	6/2023	0.2	0.21	0.4			0.11
1/2	7/2023				0.1		
2/1	/2023					0.4	

	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					<0.3	
4/2/2020						0.24 (J)
9/17/2020		<0.1			0.069 (J)	
9/18/2020				1.6		0.22
9/21/2020	0.17		<0.1			
2/11/2021		<0.1				
2/12/2021	0.16			1.6		
2/16/2021			<0.1		0.071 (J)	0.25
3/12/2021						0.24
3/15/2021		<0.1				
3/16/2021				1.7		
3/17/2021	0.18		<0.1		0.072 (J)	
8/17/2021		<0.1			0.075 (J)	0.24
8/18/2021	0.12					
8/19/2021			<0.1	1.5		
2/9/2022	0.076 (J)			1.7	0.092 (J)	
2/10/2022		<0.1	0.051 (J)			0.25
8/3/2022			0.075 (J)			0.27
8/4/2022	0.18	0.074 (J)		1.5	0.12	
1/26/2023	0.098 (J)	0.081 (J)	0.083 (J)	1.6	0.11	
1/27/2023						0.3

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.24 (J)	0.07 (J)			
3/13/2019			0.1 (J)	0.19 (J)	0.069 (J)
4/2/2019	0.18 (J)	0.045 (J)			
4/3/2019			0.049 (J)	0.15 (J)	<0.1
9/24/2019		0.18 (J)			
9/25/2019			0.076 (J)		
9/26/2019	0.22 (J)			0.19 (J)	0.17 (J)
3/2/2020		<0.1	0.065 (J)		
3/3/2020				0.062 (J)	<0.1
3/4/2020	0.26 (J)				
3/26/2020			0.082 (J)		
3/27/2020	0.26 (J)			<0.1	
3/30/2020		<0.1			<0.1
9/16/2020		<0.1			
9/17/2020			0.094 (J)		
9/21/2020	0.1			<0.1	<0.1
2/10/2021	0.16				
2/15/2021		<0.1			<0.1
2/16/2021			0.051 (J)	0.059 (J)	
3/15/2021	0.24	<0.1			<0.1
3/16/2021			<0.1	0.06 (J)	
8/16/2021		<0.1			
8/17/2021			<0.1	0.055 (J)	<0.1
8/18/2021	0.14				
2/8/2022					<0.1
2/9/2022			0.056 (J)	0.059 (J)	
2/10/2022	0.22	<0.1			
8/3/2022		0.069 (J)	0.094 (J)	0.085 (J)	
8/4/2022	0.19				0.078 (J)
1/26/2023	0.22	0.068 (J)	0.087 (J)	0.088 (J)	0.06 (J)

					. ,	
	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	(1)	9.4E-05 (J)	<0.001	0.00029 (J)	0.0001 (J)	
2/15/2021				- (-,	\-'\	<0.001
3/10/2021	<0.001				<0.001	
3/11/2021		7.6E-05 (J)	<0.001	9.4E-05 (J)		
3/12/2021				- (-)		<0.001
8/11/2021	<0.001			<0.001		
8/12/2021		<0.001	<0.001			
8/13/2021					<0.001	
8/17/2021						<0.001
2/1/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
2/9/2022						<0.001
8/2/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
8/3/2022	0.001	0.001	0.001	0.007	0.00.	<0.001
1/23/2023			<0.001			
1/24/2023	<0.001	<0.001		<0.001	<0.001	
1/27/2023	0.001	0.001		0.007	0.00.	<0.001
1,2,,2020						

					. ,	
	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.001	<0.001	
5/23/2016	<0.001	<0.001	<0.001			<0.001
7/12/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/1/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/20/2016				<0.001	<0.001	<0.001
10/24/2016	<0.001	<0.001	<0.001			
12/6/2016				0.0001 (J)	<0.001	0.0002 (J)
12/7/2016	<0.001	<0.001	<0.001			
1/25/2017				0.0001 (J)	<0.001	
1/26/2017	<0.001	<0.001	<0.001			0.0001 (J)
3/21/2017				9E-05 (J)	<0.001	
3/22/2017	0.0003 (J)	<0.001	7E-05 (J)			<0.001
5/23/2017				8E-05 (J)	<0.001	0.0001 (J)
5/24/2017	9E-05 (J)	<0.001	<0.001			
4/3/2018				<0.001	<0.001	<0.001
4/4/2018	<0.001	<0.001	<0.001			
3/12/2019					<0.001	
3/13/2019	<0.001		<0.001	<0.001		<0.001
3/14/2019		<0.001				
3/3/2020	0.00021 (J)	5.6E-05 (J)			0.00013 (J)	
3/4/2020			0.00014 (J)	0.00051 (J)		8.4E-05 (J)
3/26/2020		0.00043 (J)				
3/27/2020				5.4E-05 (J)	<0.001	
3/30/2020			0.0001 (J)			
3/31/2020	0.0003 (J)					0.00014 (J)
9/16/2020				0.0002 (J)	0.0002 (J)	
9/17/2020						0.00022 (J)
9/18/2020	6E-05 (J)	9.6E-05 (J)				
9/21/2020			0.00015 (J)			
2/10/2021				0.00056 (J)		
2/12/2021	<0.001	6.7E-05 (J)				
2/16/2021					8.6E-05 (J)	0.0002 (J)
2/22/2021			0.00018 (J)			
3/15/2021				0.0013	0.00011 (J)	
3/16/2021	9.9E-05 (J)	8.9E-05 (J)				0.00027 (J)
3/17/2021			0.00015 (J)			
8/16/2021				<0.001		
8/17/2021						<0.001
8/18/2021	<0.001	<0.001			<0.001	
8/19/2021			<0.001			
2/9/2022	<0.001	<0.001				<0.001
2/10/2022			<0.001	<0.001	<0.001	
8/3/2022	<0.001	<0.001	<0.001	<0.001	<0.001	
8/4/2022						<0.001
8/11/2022				<0.001		
1/26/2023	<0.001	<0.001	<0.001			<0.001
1/27/2023				<0.001		
2/1/2023					<0.001	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.001	<0.001		<0.001	<0.001
3/14/2019	<0.001			<0.001		
3/2/2020		0.00017 (J)				
3/3/2020				<0.001		
3/4/2020	0.00011 (J)		0.00019 (J)		<0.001	<0.001
3/26/2020	<0.001			<0.001		
3/27/2020		0.00013 (J)				
3/30/2020			6.4E-05 (J)			
3/31/2020					0.0001 (J)	
4/2/2020						0.00013 (J)
9/17/2020		<0.001			<0.001	
9/18/2020				<0.001		<0.001
9/21/2020	8.5E-05 (J)		4.2E-05 (J)			
2/11/2021		3.9E-05 (J)				
2/12/2021	7.1E-05 (J)			<0.001		
2/16/2021			0.00012 (J)		8E-05 (J)	0.00043 (J)
3/12/2021						<0.001
3/15/2021		0.0001 (J)				
3/16/2021				<0.001		
3/17/2021	3.8E-05 (J)		4E-05 (J)		<0.001	
8/17/2021		<0.001			<0.001	<0.001
8/18/2021	<0.001					
8/19/2021			<0.001	<0.001		
2/9/2022	<0.001			<0.001	<0.001	
2/10/2022		<0.001	<0.001			<0.001
8/3/2022			<0.001			<0.001
8/4/2022	<0.001	<0.001		<0.001	<0.001	
1/26/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
1/27/2023						<0.001

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.001	<0.001			
3/13/2019			<0.001	<0.001	<0.001
3/2/2020		9E-05 (J)	4.7E-05 (J)		
3/3/2020				0.00013 (J)	6.2E-05 (J)
3/4/2020	0.001 (J)				
3/26/2020			<0.001		
3/27/2020	6.2E-05 (J)			<0.001	
3/30/2020		0.00011 (J)			<0.001
9/16/2020		<0.001			
9/17/2020			<0.001		
9/21/2020	0.00018 (J)			0.00026 (J)	<0.001
2/10/2021	0.00044 (J)				
2/15/2021		5.2E-05 (J)			<0.001
2/16/2021			<0.001	8.4E-05 (J)	
3/15/2021	0.00034 (J)	<0.001			<0.001
3/16/2021			<0.001	3.6E-05 (J)	
8/16/2021		<0.001			
8/17/2021			<0.001	<0.001	<0.001
8/18/2021	<0.001				
2/8/2022					<0.001
2/9/2022			<0.001	<0.001	
2/10/2022	<0.001	<0.001			
8/3/2022		<0.001	<0.001	<0.001	
8/4/2022	<0.001				<0.001
1/26/2023	<0.001	<0.001	<0.001	<0.001	<0.001

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	<0.03	<0.03	<0.03			
5/23/2016						<0.03
7/11/2016	<0.03	0.0014 (J)				
7/12/2016			0.0024 (J)			<0.03
8/30/2016	<0.03	<0.03	0.0025 (J)			
9/1/2016						<0.03
10/19/2016	<0.03	<0.03	0.003 (J)			
10/24/2016						<0.03
12/6/2016	<0.03	<0.03	0.0033 (J)			
12/7/2016						<0.03
1/24/2017	<0.03	<0.03	0.003 (J)			
1/26/2017						<0.03
3/21/2017	<0.03	0.0012 (J)	0.0034 (J)			
3/22/2017						<0.03
5/22/2017	<0.03	<0.03	0.003 (J)			
5/24/2017						<0.03
4/2/2018	<0.03	0.0015 (J)				
4/3/2018			0.003 (J)			
4/4/2018						<0.03
6/4/2018	0.001 (J)	0.0016 (J)	0.0027 (J)			
6/5/2018						<0.03
10/1/2018	0.00099 (J)	0.0013 (J)	0.0032 (J)			
10/2/2018						<0.03
3/12/2019	0.001 (J)	0.0018 (J)	0.0032 (J)			
3/13/2019						<0.03
4/1/2019			0.0032 (J)			
4/2/2019	0.001 (J)	0.0018 (J)				
4/3/2019						<0.03
9/23/2019	0.0011 (J)	0.0016 (J)	0.0029 (J)			
9/27/2019						<0.03
3/2/2020	0.0012 (J)	0.0017 (J)	0.0037 (J)			
3/3/2020						<0.03
3/25/2020	0.00083 (J)	0.0017 (J)	0.0035 (J)			
4/1/2020						<0.03
9/15/2020	0.00087 (J)	0.0015 (J)	0.0026 (J)			
9/16/2020				0.0018 (J)	0.014 (J)	<0.03
11/10/2020				0.0013 (J)	0.025 (J)	
12/15/2020				0.0019 (J)	0.028 (J)	
1/19/2021				0.0025 (J)	0.034	
2/8/2021	0.00086 (J)					
2/9/2021		0.0012 (J)	0.0032 (J)	0.0026 (J)	0.026 (J)	
2/15/2021						<0.03
3/10/2021	0.0009 (J)				0.03	
3/11/2021		0.0011 (J)	0.0035 (J)	0.0022 (J)		
3/12/2021						<0.03
8/11/2021	0.00078 (J)			0.0024 (J)		
8/12/2021		0.0012 (J)	0.0028 (J)			
8/13/2021					0.032	
8/17/2021						<0.03
2/1/2022	0.0011 (J)	0.0017 (J)	0.0037 (J)	0.0024 (J)	0.048	
2/9/2022						<0.03
8/2/2022	<0.03	0.0013 (J)	0.003 (J)	0.0019 (J)	0.041	

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
8/3/2022						<0.03
1/23/2023			0.003 (J)			
1/24/2023	0.00092 (J)	0.0014 (J)		0.002 (J)	0.064	
1/27/2023						<0.03

	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		(2)	0.0 1 (0)	0.0021 (J)	0.0027 (J)	0.0027 (J)
10/24/2016	<0.03	0.0114 (J)	0.0435 (J)	0.0021(0)	0.0027 (0)	5.5527 (6)
12/6/2016		(0)	(5)	0.0026 (J)	0.0032 (J)	0.005 (J)
12/7/2016	<0.03	0.0155 (J)	0.0477 (J)	0.0020 (0)	0.0002 (0)	5:555 (C)
1/25/2017	0.00	0.0100 (0)	0.01.7 (0)	0.0024 (J)	0.0026 (J)	
1/26/2017	<0.03	0.0099 (J)	0.0342 (J)	0.0024 (0)	0.0020 (0)	0.0042 (J)
3/21/2017	0.00	0.0000 (0)	0.00 12 (0)	0.0026 (J)	0.0029 (J)	5.55 12 (6)
3/22/2017	<0.03	0.0098 (J)	0.0353 (J)	0.0020 (0)	0.0020 (0)	0.0043 (J)
5/23/2017	10.00	0.0030 (0)	0.0000 (0)	0.0026 (J)	0.0029 (J)	0.0048 (J)
5/24/2017	<0.03	0.0105 (J)	0.0317 (J)	0.0020 (0)	0.0025 (0)	0.0040 (0)
4/3/2018	10.00	0.0103 (3)	0.0317 (0)	0.0023 (J)	0.0025 (J)	0.0043 (J)
4/4/2018	<0.03	0.008 (J)	0.031 (J)	0.0023 (3)	0.0023 (3)	0.0043 (3)
6/5/2018	<0.03	0.008 (3)		0.0022 (1)		
6/6/2018	-U.UU	0.0095 (J)	0.031 (J)	0.0022 (J)	0.0023 (J)	0.0043 (J)
10/2/2018		0.0093 (3)		0.003 (J)		0.004 (J)
10/3/2018	<0.03	0.0083 (J)		0.003 (3)	0.0025 (J)	0.004 (3)
	<0.03	0.0083 (3)	0.027 (1)			
10/5/2018			0.027 (J)		0.0025 (1)	
3/12/2019	-0.00		0.000 (1)	0.0004 (1)	0.0025 (J)	0.004 (1)
3/13/2019	<0.03	0.0050 (1)	0.029 (J)	0.0024 (J)		0.004 (J)
3/14/2019		0.0058 (J)		0.000 (1)		
4/2/2019	-0.00	0.0000 (1)		0.002 (J)	0.0005 (1)	0.004 (1)
4/3/2019	<0.03	0.0066 (J)	0.022 (1)		0.0025 (J)	0.004 (J)
4/5/2019			0.023 (J)		0.0004 (1)	
9/24/2019				0.0010 (1)	0.0024 (J)	
9/25/2019			0.005	0.0019 (J)		
9/26/2019	.0.00	0.044 (1)	0.035			0.004470
9/27/2019	<0.03	0.011 (J)			0.0000 (1)	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			0.000	0.002 (J)	0.0026 (J)	
3/30/2020	.0.00		0.038			0.0010 (1)
3/31/2020	<0.03			0.0000 (**	0.0000 ("	0.0043 (J)
9/16/2020				0.0026 (J)	0.0033 (J)	0.00470
9/17/2020	-0.00	0.01 (")				0.004 (J)
9/18/2020	<0.03	0.01 (J)	0.000 (1)			
9/21/2020			0.028 (J)	0.0002 (1)		
2/10/2021	.0.65	0.0001.4."		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			
				0.0025 (J)		
8/16/2021				()		
8/17/2021				.,		0.004 (J)
	<0.03	0.0099 (J)	0.028 (J)	`,	0.0029 (J)	0.004 (J)

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	<0.03	0.01 (J)				0.0041 (J)
2/10/2022			0.031	0.0022 (J)	0.003 (J)	
8/3/2022	<0.03	0.0068 (J)	0.029 (J)	0.0019 (J)	0.0026 (J)	
8/4/2022						0.0036 (J)
8/11/2022				0.0019 (J)		
1/26/2023	<0.03	0.0058 (J)	0.04			0.0032 (J)
1/27/2023				0.0018 (J)		
2/1/2023					0.0015 (J)	

<u> </u>	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		0.0016 (J)	0.0029 (J)		0.0033 (J)	0.0097 (J)
3/14/2019	0.0089 (J)			0.05		
4/2/2019		0.0015 (J)				
4/3/2019	0.0061 (J)			0.047 (J)	0.0034 (J)	
4/4/2019						0.0069 (J)
4/8/2019			0.0027 (J)			
9/25/2019		<0.03				
9/26/2019			0.003 (J)		0.0041 (J)	0.0055 (J)
9/27/2019	0.013 (J)			0.047		
3/2/2020		0.00082 (J)				
3/3/2020				0.05		
3/4/2020	0.01 (J)		0.0026 (J)		0.03 (J)	0.0047 (J)
3/26/2020	0.013 (J)			0.054		
3/27/2020		0.0012 (J)				
3/30/2020			0.0027 (J)			
3/31/2020					0.0036 (J)	
4/2/2020						0.0068 (J)
9/17/2020		<0.03			0.0032 (J)	
9/18/2020				0.046		0.0084 (J)
9/21/2020	0.013 (J)		0.0024 (J)			
2/11/2021		0.001 (J)				
2/12/2021	0.012 (J)			0.045		
2/16/2021			0.0028 (J)		0.0038 (J)	0.0078 (J)
3/12/2021						0.009 (J)
3/15/2021		0.0011 (J)				
3/16/2021				0.049		
3/17/2021	0.012 (J)		0.0027 (J)		0.004 (J)	
8/17/2021		0.00091 (J)			0.0036 (J)	0.0079 (J)
8/18/2021	0.014 (J)					
8/19/2021			0.0027 (J)	0.046		
2/9/2022	0.0067 (J)			0.048	0.0039 (J)	
2/10/2022		0.00099 (J)	0.0029 (J)			0.0086 (J)
8/3/2022			0.0024 (J)			0.0063 (J)
8/4/2022	0.013 (J)	0.00075 (J)		0.04	0.0033 (J)	
1/26/2023	0.0038 (J)	<0.03	0.0025 (J)	0.036	0.0031 (J)	
1/27/2023						0.0072 (J)

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	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.011 (J)	0.0024 (J)			
3/13/2019			<0.03	<0.03	<0.03
4/2/2019	0.0052 (J)	0.0021 (J)			
4/3/2019			<0.03	<0.03	<0.03
9/24/2019		0.0022 (J)			
9/25/2019			<0.03		
9/26/2019	0.0055 (J)			<0.03	<0.03
3/2/2020		0.0025 (J)	<0.03		
3/3/2020				<0.03	<0.03
3/4/2020	0.015 (J)				
3/26/2020			<0.03		
3/27/2020	0.014 (J)			<0.03	
3/30/2020		0.0023 (J)			<0.03
9/16/2020		0.0021 (J)			
9/17/2020			<0.03		
9/21/2020	0.0053 (J)			<0.03	<0.03
2/10/2021	0.0092 (J)				
2/15/2021		0.0024 (J)			<0.03
2/16/2021			<0.03	<0.03	
3/15/2021	0.013 (J)	0.0022 (J)			<0.03
3/16/2021			<0.03	<0.03	
8/16/2021		0.0021 (J)			
8/17/2021			<0.03	<0.03	<0.03
8/18/2021	0.0086 (J)				
2/8/2022					<0.03
2/9/2022			<0.03	<0.03	
2/10/2022	0.014 (J)	0.0023 (J)			
8/3/2022		0.0018 (J)	<0.03	<0.03	
8/4/2022	0.0088 (J)				<0.03
1/26/2023	0.011 (J)	0.0019 (J)	<0.03	<0.03	<0.03

	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				0.000	0.000	<0.0002
2/1/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	40,0000
2/9/2022	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	<0.0002
8/2/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	40,0000
8/3/2022 1/23/2023			<0.0002			<0.0002
1/23/2023	<0.0002	<0.0002	~0.0002	<0.0002	<0.0002	
1/24/2023	~U.UUUZ	-U.UUUZ		~U.UUUZ	~U.UUUZ	<0.0002
112112023						N.000Z

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	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.0002	<0.0002	
5/23/2016	<0.0002	<0.0002	<0.0002			<0.0002
7/12/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
9/1/2016	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
10/20/2016				<0.0002	<0.0002	<0.0002
10/24/2016	<0.0002	<0.0002	<0.0002			
12/6/2016				<0.0002	<0.0002	<0.0002
12/7/2016	<0.0002	<0.0002	<0.0002			
1/25/2017				<0.0002	<0.0002	
1/26/2017	5E-05 (J)	<0.0002	4E-05 (J)			4E-05 (J)
3/21/2017				<0.0002	<0.0002	
3/22/2017	<0.0002	<0.0002	<0.0002			<0.0002
5/23/2017				<0.0002	<0.0002	<0.0002
5/24/2017	<0.0002	<0.0002	5E-05 (J)			
4/3/2018				<0.0002	<0.0002	<0.0002
4/4/2018	<0.0002	<0.0002	<0.0002			
3/12/2019					<0.0002	
3/13/2019	<0.0002		<0.0002	<0.0002		<0.0002
3/14/2019		<0.0002				
3/3/2020	<0.0002	<0.0002			<0.0002	
3/4/2020			<0.0002	<0.0002		<0.0002
2/10/2021				<0.0002		
2/12/2021	<0.0002	<0.0002				
2/16/2021					<0.0002	<0.0002
2/22/2021			<0.0002			
2/9/2022	<0.0002	<0.0002				<0.0002
2/10/2022			<0.0002	<0.0002	<0.0002	
8/3/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/4/2022						<0.0002
8/11/2022				<0.0002		
1/26/2023	<0.0002	<0.0002	<0.0002			<0.0002
1/27/2023				<0.0002		
2/1/2023					<0.0002	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.0002	<0.0002		<0.0002	<0.0002
3/14/2019	<0.0002			<0.0002		
3/2/2020		<0.0002				
3/3/2020				<0.0002		
3/4/2020	<0.0002		<0.0002		<0.0002	<0.0002
2/11/2021		<0.0002				
2/12/2021	<0.0002			<0.0002		
2/16/2021			<0.0002		<0.0002	<0.0002
2/9/2022	<0.0002			<0.0002	<0.0002	
2/10/2022		<0.0002	<0.0002			<0.0002
8/3/2022			<0.0002			<0.0002
8/4/2022	<0.0002	<0.0002		<0.0002	<0.0002	
1/26/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
1/27/2023						<0.0002

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.0002	<0.0002			
3/13/2019			<0.0002	<0.0002	<0.0002
3/2/2020		<0.0002	<0.0002		
3/3/2020				<0.0002	<0.0002
3/4/2020	<0.0002				
2/10/2021	<0.0002				
2/15/2021		<0.0002			<0.0002
2/16/2021			<0.0002	<0.0002	
2/8/2022					<0.0002
2/9/2022			<0.0002	<0.0002	
2/10/2022	<0.0002	<0.0002			
8/3/2022		<0.0002	<0.0002	<0.0002	
8/4/2022	<0.0002				<0.0002
1/26/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

	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

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
8/2/2022	<0.01	<0.01	<0.01	0.0042 (J)	0.002 (J)	
8/3/2022						0.00079 (J)
1/23/2023			<0.01			
1/24/2023	<0.01	<0.01		0.0027 (J)	0.0026 (J)	
1/27/2023						<0.01

	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	0.04-	0.44		
3/15/2021	0.045	0.04:		0.047	0.41	0.005	
3/16/2021	0.015	0.044	0.025			0.035	
3/17/2021			0.035	0.045			
8/16/2021				0.045		0.035	
8/17/2021						0.035	

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/18/2021	0.038	0.045			0.48	
8/19/2021			0.032			
2/9/2022	0.03	0.042				0.034
2/10/2022			0.033	0.045	0.34	
8/3/2022	0.027	0.047	0.035	0.038	0.29	
8/4/2022						0.033
8/11/2022				0.044		
1/26/2023	0.022	0.048	0.023			0.021
1/27/2023				0.039		
2/1/2023					0.29	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.01	<0.01		<0.01	<0.01
3/14/2019	0.057			0.0022 (J)		
4/2/2019		<0.01				
4/3/2019	0.04			<0.01	0.0083 (J)	
4/4/2019						0.0018 (J)
4/8/2019			0.00027 (J)			
9/25/2019		<0.01				
9/26/2019			<0.01		0.017	0.0042 (J)
9/27/2019	0.063			<0.01		
11/25/2019					0.02	
3/2/2020		<0.01				
3/3/2020				<0.01		
3/4/2020	0.032		<0.01		0.0074 (J)	0.0058 (J)
3/26/2020	0.033			<0.01		
3/27/2020		<0.01				
3/30/2020			<0.01			
3/31/2020					0.0093 (J)	
4/2/2020						0.003 (J)
9/17/2020		<0.01			0.014	
9/18/2020				0.00094 (J)		0.0018 (J)
9/21/2020	0.064		0.00099 (J)			
2/11/2021		<0.01				
2/12/2021	0.046			<0.01		
2/16/2021			0.00096 (J)		0.022	0.0019 (J)
3/12/2021						0.0008 (J)
3/15/2021		<0.01				
3/16/2021				<0.01		
3/17/2021	0.043		0.001 (J)		0.023	
8/17/2021		<0.01			0.024	0.0016 (J)
8/18/2021	0.032					
8/19/2021			0.00087 (J)	<0.01		
2/9/2022	0.011			<0.01	0.028	
2/10/2022		<0.01	0.0008 (J)			0.0017 (J)
8/3/2022			0.00095 (J)			0.002 (J)
8/4/2022	0.039	<0.01		<0.01	0.028	
1/26/2023	0.012	<0.01	0.0012 (J)	<0.01	0.028	
1/27/2023						0.0014 (J)

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	0.013	0.0038 (J)			
3/13/2019			<0.01	0.0021 (J)	<0.01
4/2/2019	0.028	0.0028 (J)			
4/3/2019			<0.01	0.0021 (J)	<0.01
9/24/2019		0.0021 (J)			
9/25/2019			<0.01		
9/26/2019	0.017			0.0026 (J)	0.0033 (J)
3/2/2020		0.0025 (J)	<0.01		
3/3/2020				0.0022 (J)	<0.01
3/4/2020	0.009 (J)				
3/26/2020			<0.01		
3/27/2020	0.0068 (J)			0.0026 (J)	
3/30/2020		0.0029 (J)			<0.01
9/16/2020		0.0021 (J)			
9/17/2020			<0.01		
9/21/2020	0.018			0.0025 (J)	0.0015 (J)
2/10/2021	0.02				
2/15/2021		0.0029 (J)			0.0015 (J)
2/16/2021			<0.01	0.0025 (J)	
3/15/2021	0.013	0.0031 (J)			0.0015 (J)
3/16/2021			<0.01	0.0023 (J)	
8/16/2021		0.0027 (J)			
8/17/2021			<0.01	0.0027 (J)	0.003 (J)
8/18/2021	0.022				
2/8/2022					0.0012 (J)
2/9/2022			<0.01	0.0026 (J)	
2/10/2022	0.0031 (J)	0.0036 (J)			
8/3/2022		0.0032 (J)	<0.01	0.0028 (J)	
8/4/2022	0.011				0.0014 (J)
1/26/2023	0.0025 (J)	0.0029 (J)	<0.01	0.0029 (J)	<0.01

	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		0	7.38			
4/4/2018			7.00			6.61
6/4/2018	7.06	5.27	7.38			
6/5/2018	7.00	0.27	7.00			6.65
10/1/2018	7.09	5.31	7.13			0.00
10/1/2018	7.00	3.31	7.10			6.55
3/12/2019	7.03	5.42	7.29			0.00
3/13/2019	7.00	0.42	7.20			6.7
4/1/2019			7.16			0.7
4/2/2019	6.86	5.41	7.1.0			
4/3/2019	0.00	0.41				6.55
9/23/2019	7.02	5.33	7.3			0.00
9/27/2019	7.02	3.33	7.5			6.64
3/2/2020	7.1	5.43	7.12			0.04
3/3/2020	7.1	0.40	7.12			6.67
3/25/2020	6.95	5.36	7.4			0.07
4/1/2020	0.93	3.30	7.4			6.84
6/16/2020	6.97 (D)		7.31 (D)			0.04
9/15/2020	7.15	5.22	7.31 (<i>b</i>) 7.29			
9/16/2020	7.10	J.22	1.25	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		J.7 <u>4</u>	1.25	,	7.04	6.83
3/10/2021	6.95				7.92	0.00
3/11/2021	0.00	5.8	7.33	7.46	7.52	
3/11/2021		J.0	7.33	7.40		6.76
8/11/2021	6.98			7.4		0.70
8/12/2021	0.30	5.05	7.31	7.4		
8/13/2021		5.05	7.51		7.77	
8/17/2021					1.11	6.75
2/1/2022	7.19	5.24	7.45	7.52	8.25	0.70
ZI IIZUZZ	7.13	J.24	7.45	1.JL	0.23	

		HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
2	2/9/2022						7
8	3/3/2022						6.73
	1/23/2023			7.32			
	1/24/2023	6.76	5.22		7.56	8.22	
	1/27/2023						6.89

	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	5.70			7.12	6.87	5.55
	5 01	7.00	7.13	7.12	0.07	7.03
3/22/2017	5.81	7.08	7.13	7.00	6.07	
5/23/2017	0 = 1	7 · ·	7	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	0.51	7.06
	J.32	7.00	1.24	1.41		7.00
3/14/2019		7.09		7.07		
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		0.00		7.05	6.95	
			6.04	7.00	0.33	
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		0		
	1.21	0.23			7.16	7.06
2/16/2021			7.07		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		

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/17/2021						7.1
8/18/2021	6.1	6.89			7.02	
8/19/2021			7.38			
2/9/2022	6.55	7.23				7.3
2/10/2022			7.54	7.22	6.99	
8/3/2022	6.23	7.13	7.09	6.93	6.84	
8/4/2022						7.03
8/11/2022				7.07		
1/26/2023	6.23	7.1	6.9			7.07
1/27/2023				7.25		
2/1/2023					6.6	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		6.75	7.58		7.4	7.78
3/14/2019	6.48			7.67		
4/2/2019		6.7				
4/3/2019	6.14			7.56	7.25	
4/4/2019						7.63
4/8/2019			7.47			
9/25/2019		6.75				
9/26/2019			7.5		7.16	7.46
9/27/2019	6.33			7.57		
3/2/2020		6.98				
3/3/2020				7.59		
3/4/2020	6.29		7.47		7.14	8.33
3/26/2020	6.28			7.57		
3/27/2020		6.75				
3/30/2020			7.49			
3/31/2020					7.2	
4/2/2020						8.11
9/17/2020		6.78			7.08	
9/18/2020				7.64		7.51
9/21/2020	6.41		7.65			
2/11/2021		6.93				
2/12/2021	6.36			7.77		
2/16/2021			7.69		7.27	7.96
3/12/2021						7.88
3/15/2021		6.97				
3/16/2021				7.76		
3/17/2021	6.34		7.66		7.14	
8/17/2021		7.05			7.14	7.75
8/18/2021	6.28					
8/19/2021			7.61	7.69		
2/9/2022	6.28			7.82	7.32	
2/10/2022		7.19	7.82			7.96
8/3/2022			7.59			7.4
8/4/2022	6.32	6.96		7.66	7.08	
1/26/2023	6.13	6.95	7.6	7.74	7.14	
1/27/2023						7.8

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	7.46	7.2			
3/13/2019			6.16	6.86	6.37
4/2/2019	7.4	6.91			
4/3/2019			5.96	6.77	6.19
9/24/2019		6.86			
9/25/2019			6.37		
9/26/2019	7.4			6.76	6.5
3/2/2020		7.13	6.12		
3/3/2020				6.78	6.1
3/4/2020	7.55				
3/26/2020			6.14		
3/27/2020	7.42			6.82	
3/30/2020		7.07			6.06
9/16/2020		6.88			
9/17/2020			6.48		
9/21/2020	7.46			6.88	6.5
2/10/2021	7.54				
2/15/2021		7.09			6.77
2/16/2021			5.95	7	
3/15/2021	7.61	7.05			6.66
3/16/2021			5.78	6.96	
8/16/2021		7.08			
8/17/2021			5.99	6.86	6.88
8/18/2021	7.16				
2/8/2022					6.73
2/9/2022			6.13	7.01	
2/10/2022	7.59	7.27			
8/3/2022		6.87	5.96	6.41	
8/4/2022	7.38				6.47
1/26/2023	7.67	7.22	6.07	6.9	6.23

	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	0.0004 (1)
2/9/2022	<0.00E	0.001475	<0.00E	<0.00E	<0.00E	0.0031 (J)
8/2/2022	<0.005	0.0014 (J)	<0.005	<0.005	<0.005	

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
8/3/2022						0.0017 (J)
1/23/2023			<0.005			
1/24/2023	<0.005	<0.005		<0.005	<0.005	
1/27/2023						0.0035 (J)

	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			

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.0035 (J)	<0.005				<0.005
2/10/2022			<0.005	<0.005	<0.005	
8/3/2022	0.0057	<0.005	<0.005	<0.005	<0.005	
8/4/2022						<0.005
8/11/2022				<0.005		
1/26/2023	0.01	<0.005	<0.005			<0.005
1/27/2023				<0.005		
2/1/2023					<0.005	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.005	<0.005		<0.005	<0.005
3/14/2019	<0.005			<0.005		
4/2/2019		<0.005				
4/3/2019	0.007 (J)			<0.005	<0.005	
4/4/2019						0.00012 (J)
4/8/2019			<0.005			
9/25/2019		<0.005				
9/26/2019			<0.005		<0.005	<0.005
9/27/2019	0.0013 (J)			<0.005		
3/2/2020		<0.005				
3/3/2020				<0.005		
3/4/2020	0.0044 (J)		<0.005		<0.005	<0.005
3/26/2020	0.0053 (J)			<0.005		
3/27/2020		<0.005				
3/30/2020			<0.005			
3/31/2020					<0.005	
4/2/2020						<0.005
9/17/2020		<0.005			<0.005	
9/18/2020				<0.005		<0.005
9/21/2020	0.0033 (J)		<0.005			
2/11/2021		<0.005				
2/12/2021	0.0021 (J)			<0.005		
2/16/2021			<0.005		<0.005	<0.005
3/12/2021						<0.005
3/15/2021		<0.005				
3/16/2021				<0.005		
3/17/2021	<0.005		<0.005		<0.005	
8/17/2021		<0.005			<0.005	<0.005
8/18/2021	0.0026 (J)					
8/19/2021			<0.005	<0.005		
2/9/2022	0.0036 (J)			<0.005	<0.005	
2/10/2022		<0.005	<0.005			<0.005
8/3/2022			<0.005			<0.005
8/4/2022	0.0022 (J)	<0.005		<0.005	<0.005	
1/26/2023	0.0056	<0.005	<0.005	<0.005	<0.005	
1/27/2023						<0.005

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.005	<0.005			
3/13/2019			0.0033 (J)	<0.005	0.0016 (J)
4/2/2019	<0.005	<0.005			
4/3/2019			0.0027 (J)	<0.005	<0.005
9/24/2019		<0.005			
9/25/2019			0.0021 (J)		
9/26/2019	<0.005			<0.005	0.0014 (J)
3/2/2020		<0.005	0.0041 (J)		
3/3/2020				<0.005	<0.005
3/4/2020	<0.005				
3/26/2020			0.0039 (J)		
3/27/2020	<0.005			<0.005	
3/30/2020		<0.005			0.0014 (J)
9/16/2020		<0.005			
9/17/2020			0.0028 (J)		
9/21/2020	<0.005			<0.005	0.0026 (J)
2/10/2021	<0.005				
2/15/2021		<0.005			<0.005
2/16/2021			0.0035 (J)	<0.005	
3/15/2021	<0.005	<0.005			0.0021 (J)
3/16/2021			0.0026 (J)	<0.005	
8/16/2021		<0.005			
8/17/2021			0.0017 (J)	<0.005	<0.005
8/18/2021	<0.005				
2/8/2022					0.0015 (J)
2/9/2022			0.0027 (J)	<0.005	
2/10/2022	<0.005	<0.005			
8/3/2022		<0.005	0.0032 (J)	<0.005	
8/4/2022	<0.005				<0.005
1/26/2023	<0.005	<0.005	0.0045 (J)	<0.005	<0.005

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
5/19/2016	66.9	48.6	42.3			
5/23/2016						175
7/11/2016	41	45				
7/12/2016			44			190
8/30/2016	36	42	40			
9/1/2016						190
10/19/2016	46	44	43			
10/24/2016						190
12/6/2016	59	44	43			
12/7/2016						200
1/24/2017	46	46	48			
1/26/2017						90
3/21/2017	63	46	45			
3/22/2017						170
5/22/2017	77	48	46			
5/24/2017						190
10/3/2017	42	47	48			200
6/4/2018	71.8	47.8	46.6			
6/5/2018						205
10/1/2018	49.1	48.1	48.6			
10/2/2018						178
4/1/2019			50.4			
4/2/2019	84.3	48.7				
4/3/2019						159
9/23/2019	70.2	47.2	43.9			
9/27/2019						181
3/25/2020	85.9	46.3	50.5			
4/1/2020						59
6/16/2020	88.2		49.5			
9/15/2020	47.3	51.5	44.7			
9/16/2020				43	6.9	169
11/10/2020				39	6.3	
12/15/2020				38.8	6.7	
1/19/2021				37.3	7.4	
3/10/2021	49.6				<1	
3/11/2021		52.9	50.4	38.6		
3/12/2021						120
8/11/2021	48.9			30.5		
8/12/2021		47.4	38.6			
8/13/2021					56.1	
8/17/2021						156
2/1/2022	43.7	67.1	46	37.5	56.3	
2/9/2022						49.2
8/2/2022	58.1	86.9	43.5	37	13.2	
8/3/2022						119
1/23/2023			39.5			
1/24/2023	48.3	79.7		34.7	10.1	
1/27/2023						37.3

	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	20.	162			190	214
10/2/2018		.02		120	193	218
10/3/2018	233	191		120	100	
10/5/2018	233	131	78.3			
4/2/2019			70.5	127		
4/3/2019	298	176		127	194	214
4/5/2019	290	170	105		194	214
9/24/2019			103		133	
				100	133	
9/25/2019			444	109		
9/26/2019	-10	100	444			214
9/27/2019	<10	198				214
3/26/2020		182		100	172	
3/27/2020			202	109	173	
3/30/2020	202		393			185
3/31/2020	283				157	100
6/16/2020				100	157	
6/17/2020				102	104	
9/16/2020				109	194	200
9/17/2020	070	200				209
9/18/2020	272	266	050			
9/21/2020			359	107	070	
3/15/2021	201	0.40		107	272	044
3/16/2021	291	248	004			211
3/17/2021			384			
8/16/2021				98.1		
8/17/2021						207
8/18/2021	237	226			245	
8/19/2021			339			
2/9/2022	276	252				224
2/10/2022			371	97.5	224	
8/3/2022	254	236	451	105	241	
8/4/2022				101		243
8/11/2022	000	000	405	121		047
1/26/2023	209	228	495			217
1/27/2023				119	470	
2/1/2023					179	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		122				
4/3/2019	105			53	131	
4/4/2019						11.8
4/8/2019			97.3			
9/25/2019		112				
9/26/2019			91		189	15.6
9/27/2019	170			48		
3/26/2020	310			32.3		
3/27/2020		114				
3/30/2020			84.9			
3/31/2020					129	
4/2/2020						13.3
9/17/2020		110			174	
9/18/2020				27.4		7.5
9/21/2020	305		114			
3/12/2021						7.4
3/15/2021		109				
3/16/2021				9.4		
3/17/2021	260		137		212	
8/17/2021		98.6			194	8.2
8/18/2021	219					
8/19/2021			130	4.1		
2/9/2022	221			1.7	224	
2/10/2022		95.9	127			13.2
8/3/2022			135			9.5
8/4/2022	412	110		0.97 (J)	239	
1/26/2023	214	109	152	0.59 (J)	240	
1/27/2023						9.1

	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			
8/3/2022		140	135	190	
8/4/2022	80.5				76
1/26/2023	40.8	161	137	203	26

					,		
	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	0.001	0.001			<0.001	
1/24/2017	<0.001	<0.001	<0.001			0.00	
	~ 0.001	~0.001	~0.001			<0.001	
1/26/2017	<0.001	2E 0E / !\	<0.001			<0.001	
3/21/2017	<0.001	3E-05 (J)	<0.001			-0.004	
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	-0.001	-0.001			<0.001	
3/2/2020	<0.001	<0.001	<0.001			10.00 i	
	~0.00 I	50.00 I	-0.00 I			<0.001	
3/3/2020	-0.004	-0.004	-0.004			<0.001	
3/25/2020	<0.001	<0.001	<0.001			.0.004	
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	-0.001		<0.001		
8/17/2021					-0.00 I	<0.001	
	<0.001	<0.001	<0.001	<0.001	<0.001	-U.UU I	
2/1/2022	<0.001	<0.001	<0.001	<0.00 I	<0.001	-0.004	
2/9/2022	-0.004	-0.004	-0.004	10.001	-0.001	<0.001	
8/2/2022	<0.001	<0.001	<0.001	<0.001	<0.001		

	HGWA-1 (bg)	HGWA-2 (bg)	HGWA-3 (bg)	HGWA-43D (bg)	HGWA-44D (bg)	HGWC-10
8/3/2022						<0.001
1/23/2023			<0.001			
1/24/2023	<0.001	<0.001		<0.001	<0.001	
1/27/2023						<0.001

	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)			

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	<0.001	<0.001				<0.001
2/10/2022			<0.001	<0.001	<0.001	
8/3/2022	<0.001	<0.001	<0.001	<0.001	0.00018 (J)	
8/4/2022						<0.001
8/11/2022				<0.001		
1/26/2023	<0.001	<0.001	0.00031 (J)			<0.001
1/27/2023				<0.001		
2/1/2023					<0.001	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
3/13/2019		<0.001	<0.001		<0.001	<0.001
3/14/2019	<0.001			<0.001		
4/2/2019		<0.001				
4/3/2019	<0.001			<0.001	<0.001	
4/4/2019						<0.001
4/8/2019			<0.001			
9/25/2019		<0.001				
9/26/2019			<0.001		<0.001	<0.001
9/27/2019	0.00027 (J)			<0.001		
3/2/2020		<0.001				
3/3/2020				<0.001		
3/4/2020	0.00026 (J)		<0.001		<0.001	<0.001
3/26/2020	0.00026 (J)			<0.001		
3/27/2020		<0.001				
3/30/2020			<0.001			
3/31/2020					<0.001	
4/2/2020						<0.001
9/17/2020		<0.001			<0.001	
9/18/2020				<0.001		<0.001
9/21/2020	0.0003 (J)		<0.001			
2/11/2021		<0.001				
2/12/2021	0.00019 (J)			<0.001		
2/16/2021			<0.001		<0.001	<0.001
3/12/2021						<0.001
3/15/2021		<0.001				
3/16/2021				<0.001		
3/17/2021	0.00026 (J)		<0.001		<0.001	
8/17/2021		<0.001			<0.001	<0.001
8/18/2021	0.00023 (J)					
8/19/2021			<0.001	<0.001		
2/9/2022	<0.001			<0.001	<0.001	
2/10/2022		<0.001	<0.001			<0.001
8/3/2022			<0.001			<0.001
8/4/2022	0.00026 (J)	<0.001		<0.001	<0.001	
1/26/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
1/27/2023						<0.001

					• •
	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.001	<0.001			
3/13/2019			<0.001	<0.001	<0.001
4/2/2019	<0.001	<0.001			
4/3/2019			<0.001	<0.001	<0.001
9/24/2019		6.4E-05 (J)			
9/25/2019			<0.001		
9/26/2019	<0.001			<0.001	<0.001
3/2/2020		<0.001	<0.001		
3/3/2020				8.2E-05 (J)	<0.001
3/4/2020	9.2E-05 (J)				
3/26/2020			<0.001		
3/27/2020	<0.001			<0.001	
3/30/2020		<0.001			<0.001
9/16/2020		<0.001			
9/17/2020			<0.001		
9/21/2020	<0.001			<0.001	<0.001
2/10/2021	<0.001				
2/15/2021		<0.001			<0.001
2/16/2021			<0.001	<0.001	
3/15/2021	<0.001	<0.001			<0.001
3/16/2021			<0.001	<0.001	
8/16/2021		<0.001			
8/17/2021			<0.001	<0.001	<0.001
8/18/2021	<0.001				
2/8/2022					<0.001
2/9/2022			<0.001	<0.001	
2/10/2022	<0.001	<0.001			
8/3/2022		<0.001	<0.001	<0.001	
8/4/2022	<0.001				<0.001
1/26/2023	<0.001	<0.001	<0.001	<0.001	<0.001

	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	410	140	200			679
10/1/2018	354	135	291			073
10/1/2018	334	100	231			572
4/1/2019			284			372
4/2/2019	452	133	204			
4/3/2019	432	133				525
	440	120	269			525
9/23/2019	442	129	268			624
9/27/2019	406	120	204			624
3/25/2020	496	138	284			290
4/1/2020	600		440			290
6/16/2020	632	101	448			
9/15/2020	265	124	258	070	070	400
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		400 (141)
3/12/2021						490 (H1)
8/11/2021	366			277		
8/12/2021		118	265			
8/13/2021					436	
8/17/2021						496
2/1/2022	270	156	350	156	444	
2/9/2022						250
8/2/2022	400	196	287	278	311	
8/3/2022						433
1/23/2023			293			
1/24/2023	369	164		271	363	
1/27/2023						188

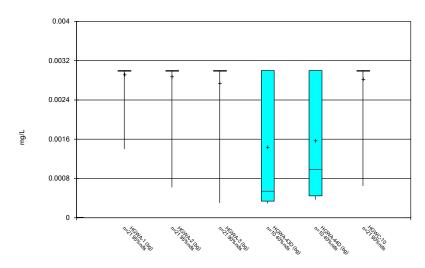
	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				427	711	
5/23/2016	564	1060	683			984
7/12/2016	627	909	563	410	704	887
9/1/2016	656	1480	702	484	763	956
10/20/2016				393	644	642
10/24/2016	836	868	647			
12/6/2016				492	733	899
12/7/2016	748	811	465			
1/25/2017				461	744	
1/26/2017	571	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		.20	543	673
4/5/2019	400	402	331		040	0,0
9/24/2019			331		457	
9/25/2019				503	407	
9/26/2019			1010	303		
9/27/2019	528	653	1010			730
3/26/2020	320	533				730
		555		412	E41	
3/27/2020			905	413	541	
3/30/2020	ECE		895			1010
3/31/2020	565				F70	1010
6/16/2020				400	573	
6/17/2020				423	550	
9/16/2020				392	552	202
9/17/2020						680
9/18/2020	626	704				
9/21/2020			732			
3/15/2021				370	614	
3/16/2021	558	614				672
3/17/2021			716			
8/16/2021				407		
8/17/2021						704
8/18/2021	566	600			620	
8/19/2021			726			
2/9/2022	544	678				756
2/10/2022			814	414	578	
8/3/2022	572	650	958	441	648	
8/4/2022						760
8/11/2022				445		
1/26/2023	429	624	962			745
1/27/2023				473		
2/1/2023					528	

	MW-19	MW-20	MW-24D	MW-25D	MW-26D	MW-27D
4/2/2019		435				
4/3/2019	310			15 (J)	493	
4/4/2019						203
4/8/2019			323			
9/25/2019		461				
9/26/2019			360		643	265
9/27/2019	442			409		
3/26/2020	626			385		
3/27/2020		429				
3/30/2020			280			
3/31/2020					623	
4/2/2020						224
9/17/2020		460			732	
9/18/2020				382		211
9/21/2020	608		391			
3/12/2021						215
3/15/2021		406				
3/16/2021				347		
3/17/2021	543		420		738	
8/17/2021		437			746	239
8/18/2021	464					
8/19/2021			420	373		
2/9/2022	503			364	734	
2/10/2022		459	412			242
8/3/2022			415			230
8/4/2022	762	431		302	788	
1/26/2023	490	482	412	346	741	
1/27/2023						255

	MW-28D	MW-29	MW-5	MW-6	MW-7
4/2/2019	350	548			
4/3/2019			396	437	213
9/24/2019		603			
9/25/2019			460		
9/26/2019	418			735	383
3/26/2020			385		
3/27/2020	287			676	
3/30/2020		552			142
9/16/2020		547			
9/17/2020			486		
9/21/2020	393			656	326
3/15/2021	293	555			293
3/16/2021			333	600	
8/16/2021		512			
8/17/2021			339	656	344
8/18/2021	396				
2/8/2022					290
2/9/2022			314	652	
2/10/2022	299	508			
8/3/2022		538	391	666	
8/4/2022	378				246
1/26/2023	349	632	363	646	89
	0.0				••

FIGURE B.

Box & Whiskers Plot

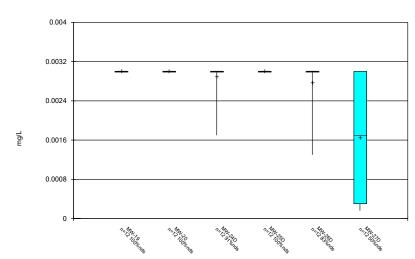


Constituent: Antimony Analysis Run 4/14/2023 12:21 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

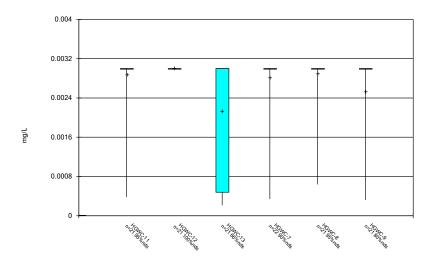
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

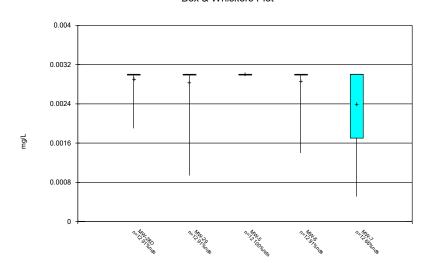
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

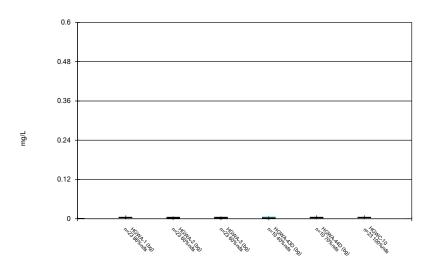
Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/14/2023 12:21 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

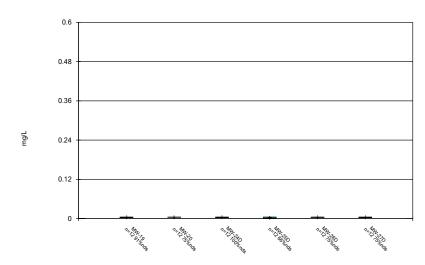
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

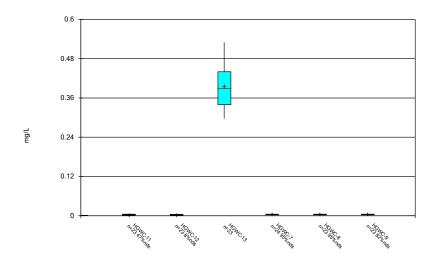
 $Sanitas^{\text{\tiny{TM}}} \ v.9.6.37 \ Groundwater \ Stats \ Consulting. \ UG$

Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

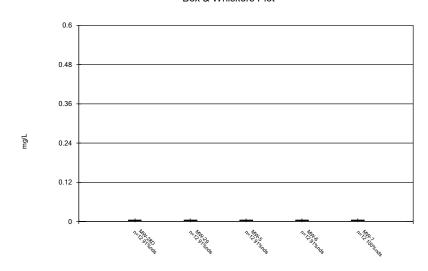
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

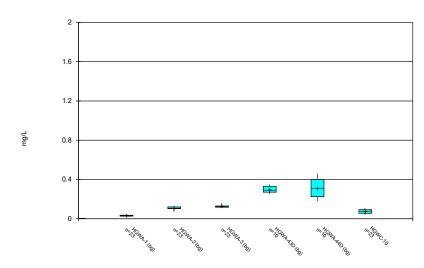
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

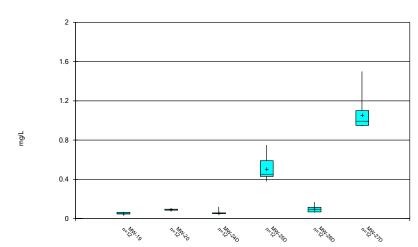
Box & Whiskers Plot



Constituent: Barium Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

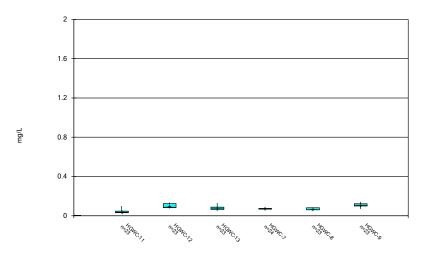
Sanitas[™] v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Barium Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

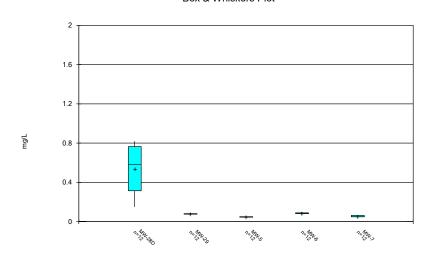
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

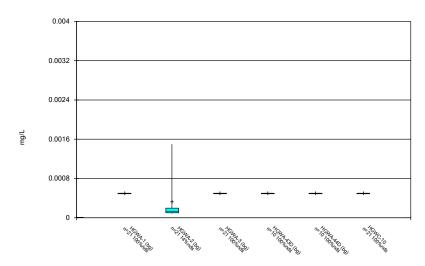
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

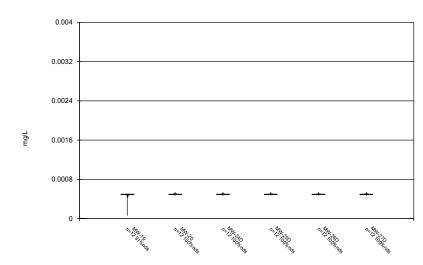
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

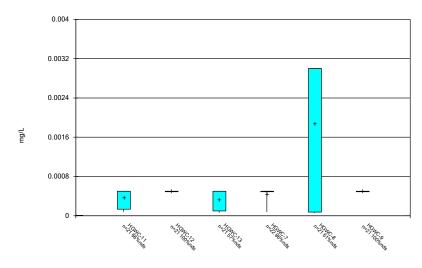
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

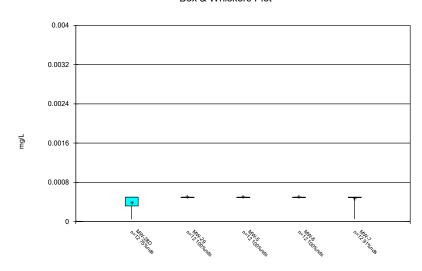
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

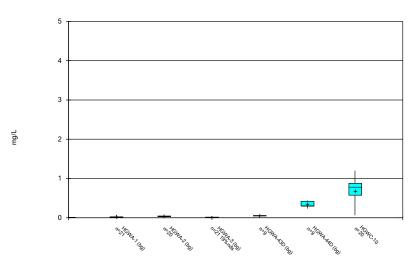
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

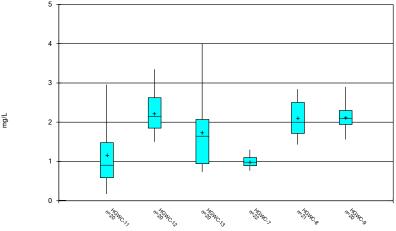
Box & Whiskers Plot



Constituent: Boron Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

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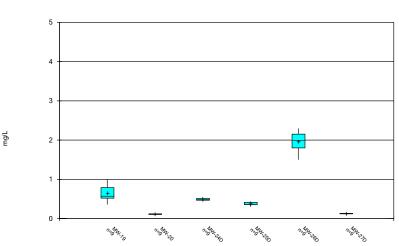




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Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

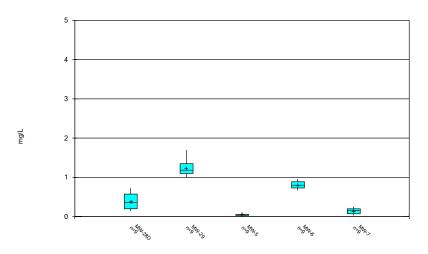
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

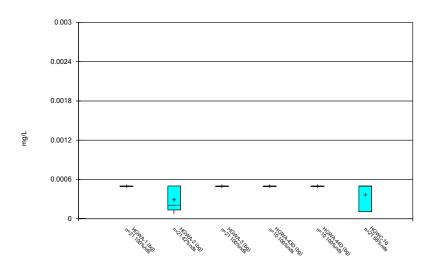
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

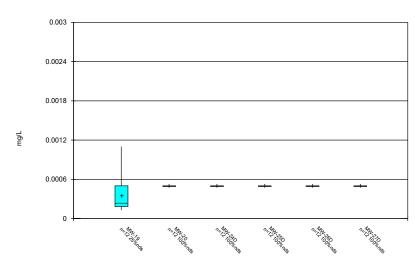
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

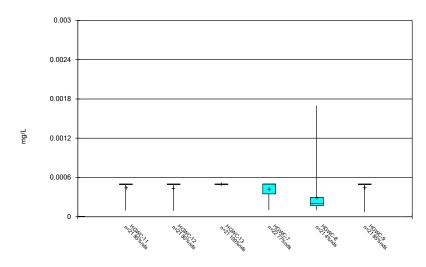
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 4/14/2023 12:21 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

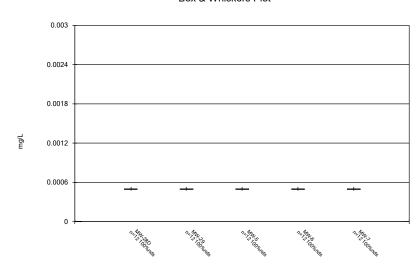
Box & Whiskers Plot



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Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

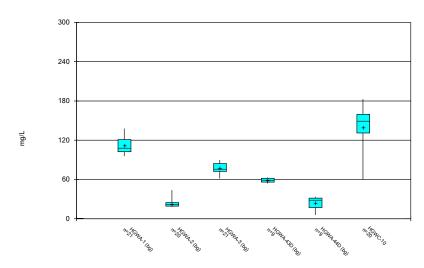
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

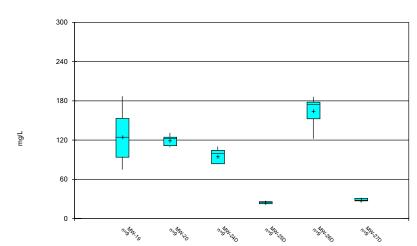
Box & Whiskers Plot



Constituent: Calcium Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

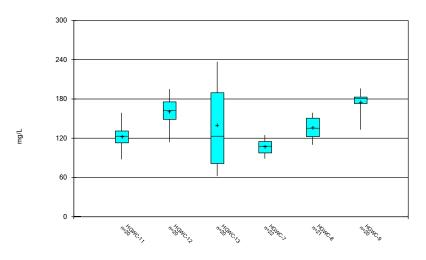
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

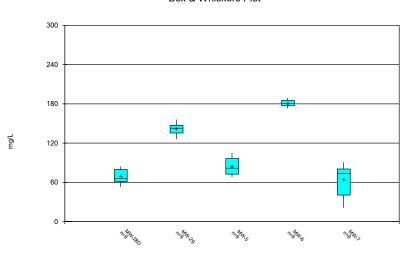
Box & Whiskers Plot



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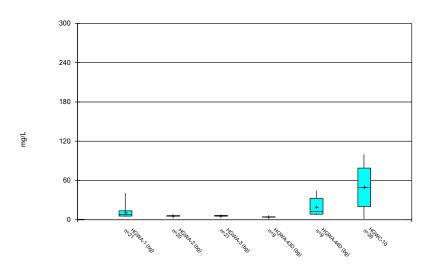
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

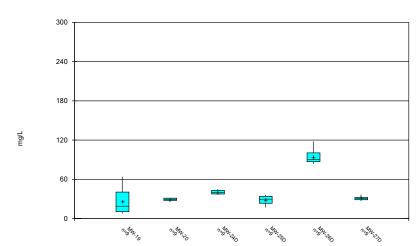
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

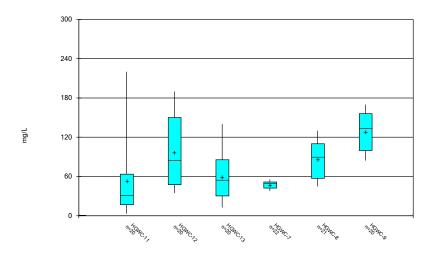
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

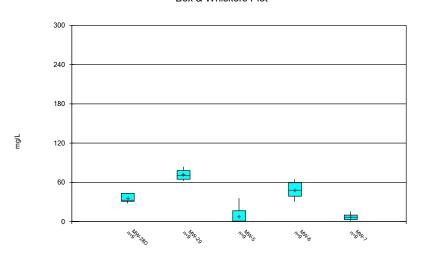
Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/14/2023 12:21 PM
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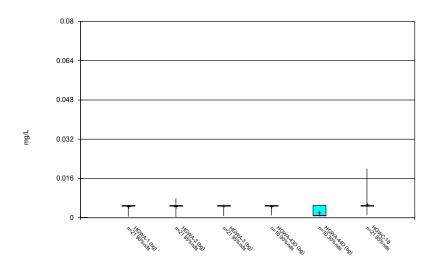
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chloride Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot

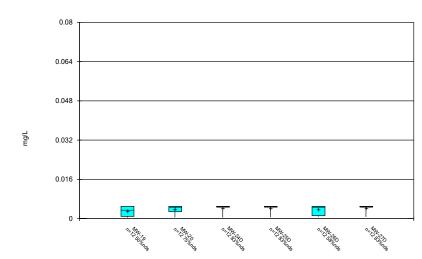


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Plant Hammond Client: Southern Company Data: Hammond AP-1

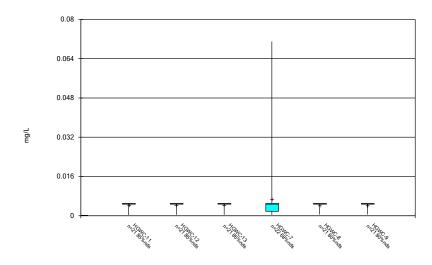
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/14/2023 12:21 PM
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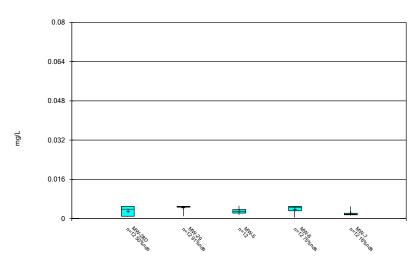
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

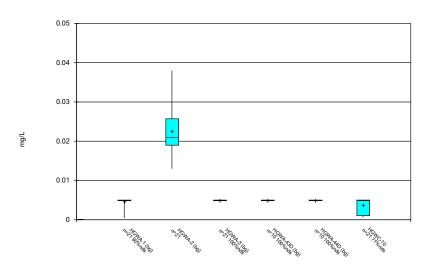
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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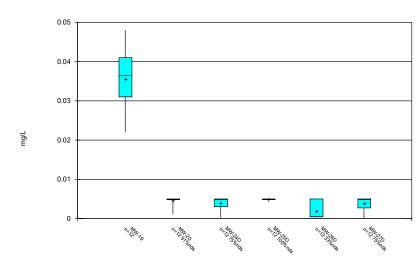




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Plant Hammond Client: Southern Company Data: Hammond AP-1

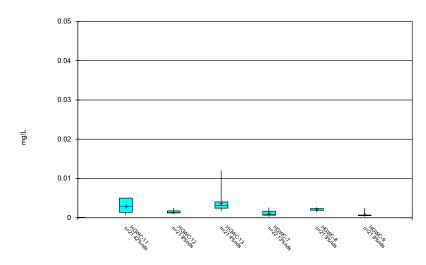
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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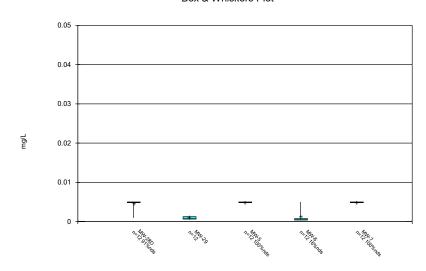
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

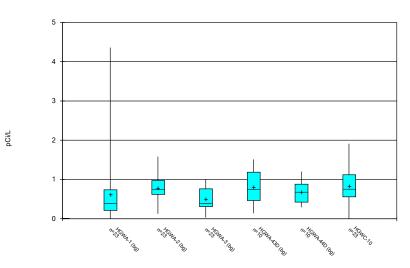
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Box & Whiskers Plot



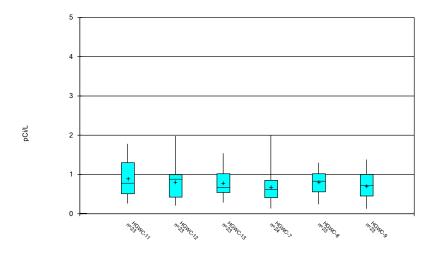
Constituent: Cobalt Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

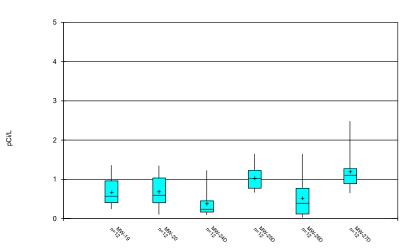
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

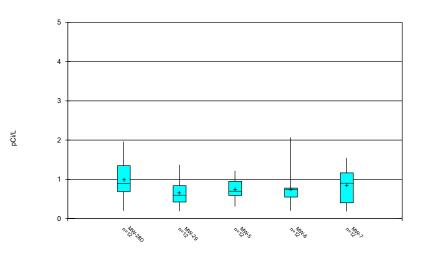
Box & Whiskers Plot



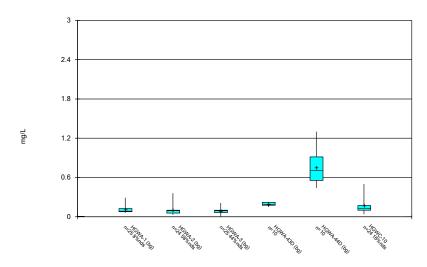
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



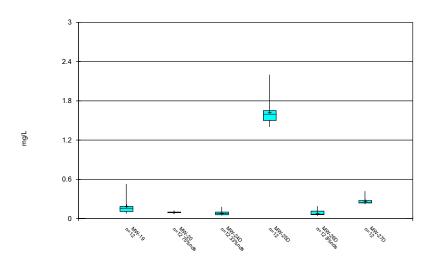
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

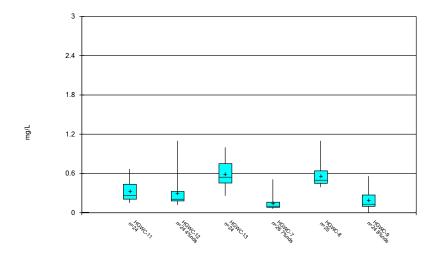
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/14/2023 12:21 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

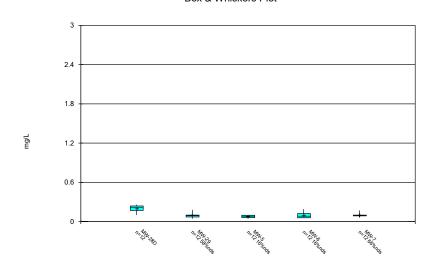
Box & Whiskers Plot



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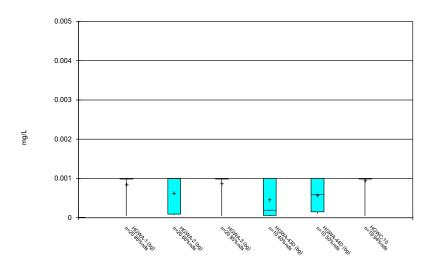
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Fluoride Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot

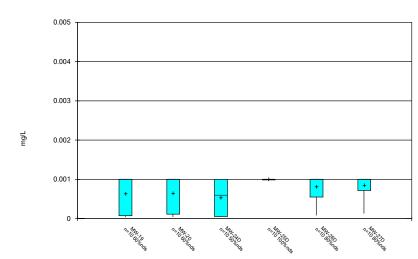


Constituent: Lead Analysis Run 4/14/2023 12:21 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

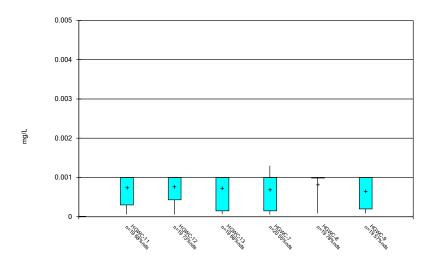
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Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

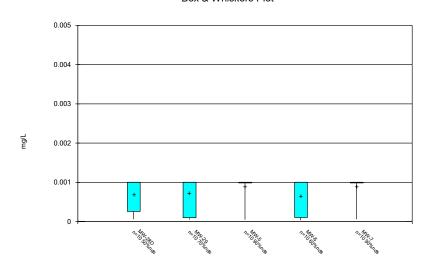
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

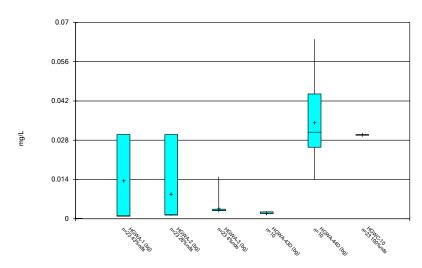
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lead Analysis Run 4/14/2023 12:21 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

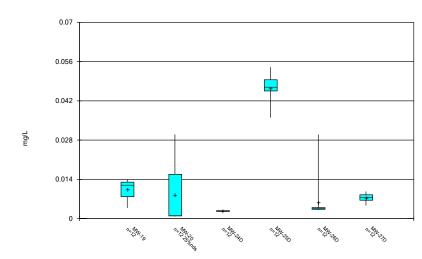
Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

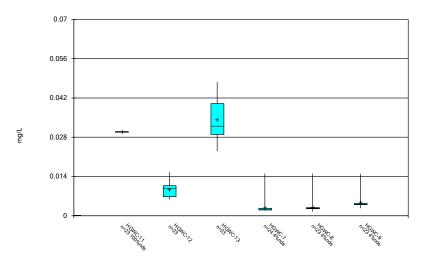
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Box & Whiskers Plot



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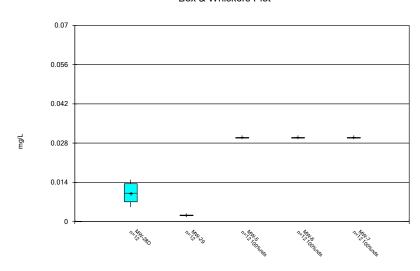
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

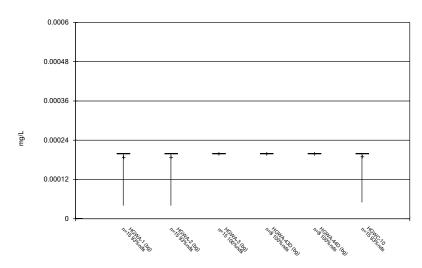
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Lithium Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

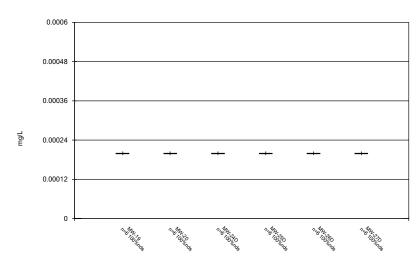
Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

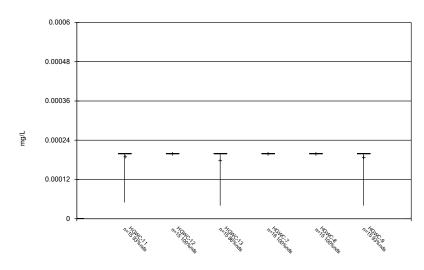
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Mercury Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

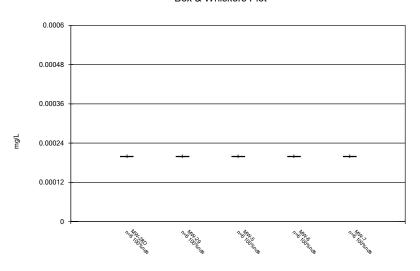
Box & Whiskers Plot



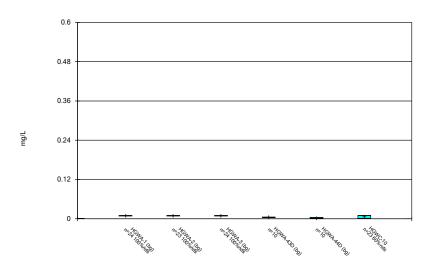
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Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



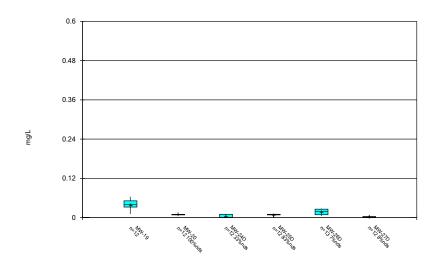
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

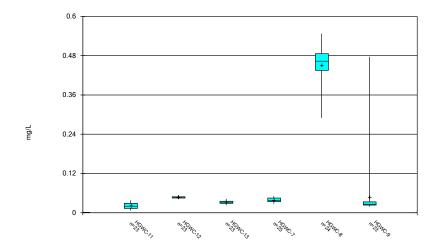
 $Sanitas^{\text{\tiny{TM}}} \ v.9.6.37 \ Groundwater \ Stats \ Consulting. \ UG$

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

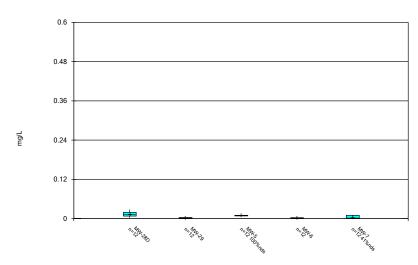
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

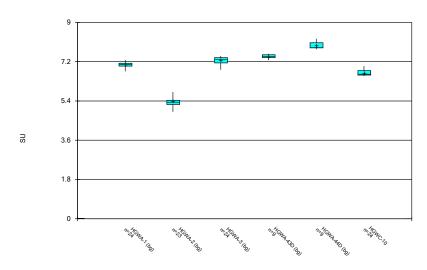
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Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

Box & Whiskers Plot

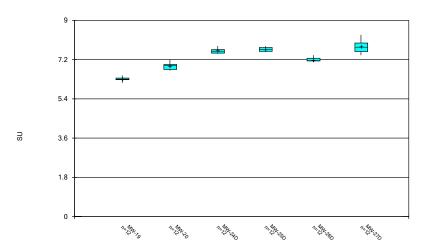


Constituent: pH, Field Analysis Run 4/14/2023 12:22 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

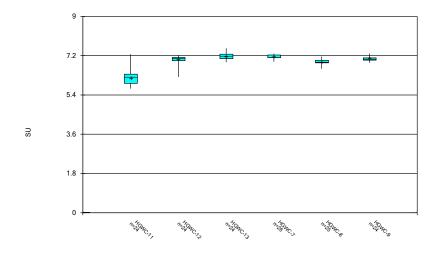
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/14/2023 12:22 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

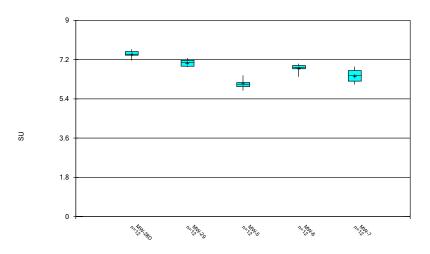
Box & Whiskers Plot



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Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

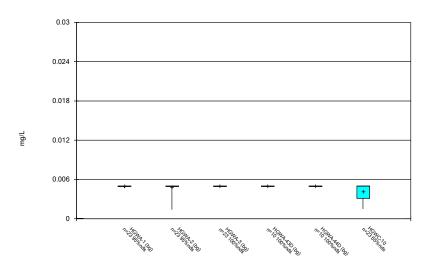
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 4/14/2023 12:22 PM

Plant Hammond Client: Southern Company Data: Hammond AP-1

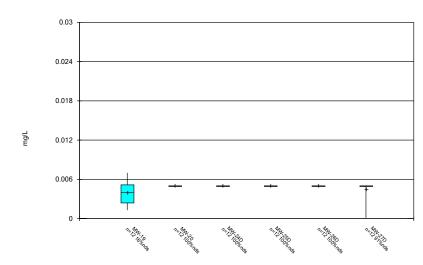
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

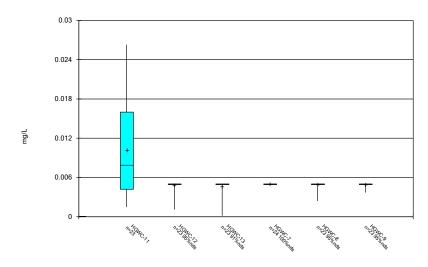
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

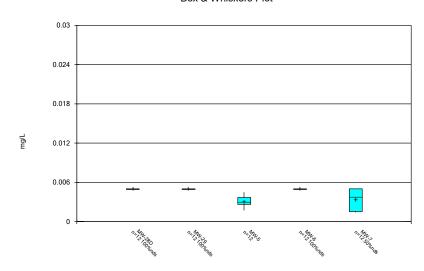
Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

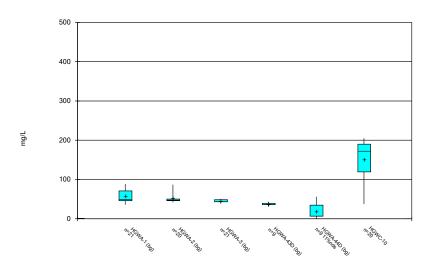
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Selenium Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

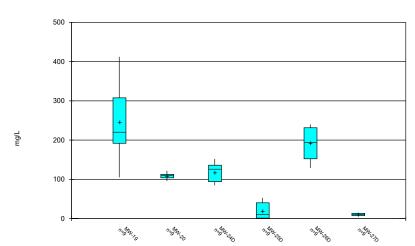
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

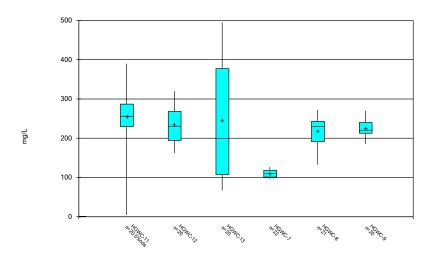
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

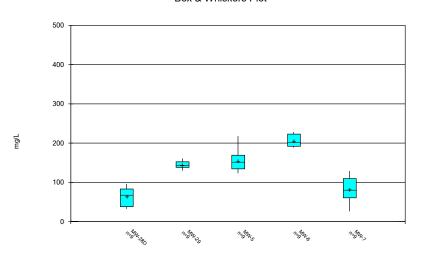
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

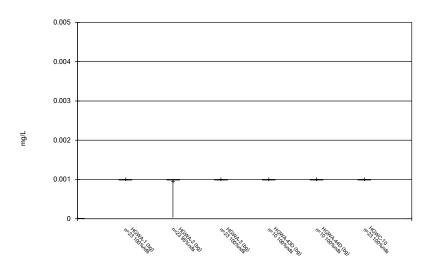
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

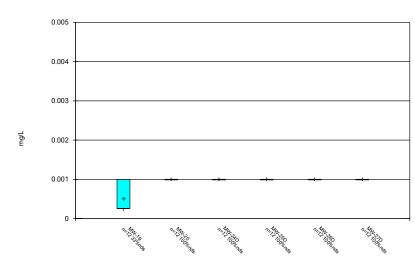
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

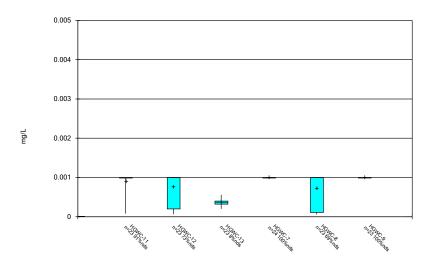
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

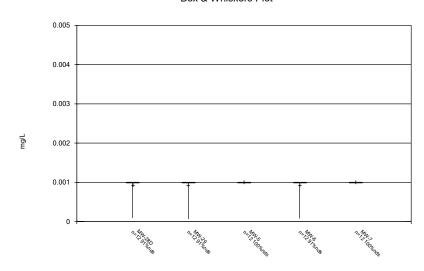
Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

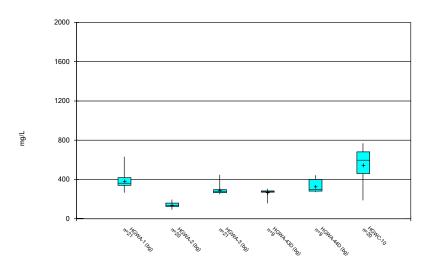
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

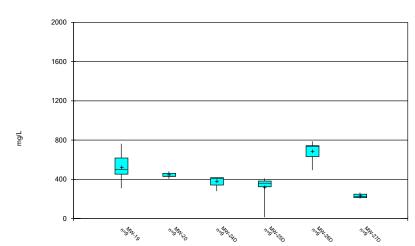
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

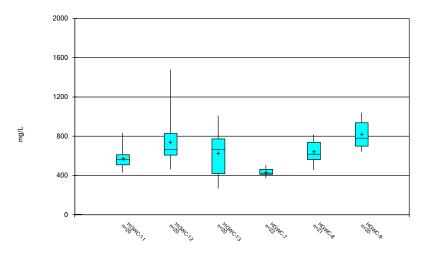
Sanitas[™] v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

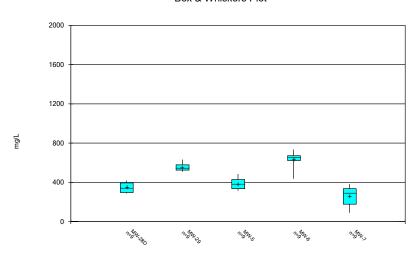
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:22 PM Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:22 PM
Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE C.

Outlier Summary

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:24 PM

No values were flagged.

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

		Plant Har	mmond Cli	ent: Southern	Company	Data: Hammond AP-1	Printed 4/14/	/2023, 12:3	89 PM			
Constituent	Well	Upper Lir	n. Lower Lin	n. Date	Observ.	Sig. Bg N Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	HGWC-11	0.44	n/a	1/26/2023	0.5	Yes 80 n/a	n/a	5	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-12	0.44	n/a	1/26/2023	1.5	Yes 80 n/a	n/a	5	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-13	0.44	n/a	1/26/2023	0.83	Yes 80 n/a	n/a	5	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-7	0.44	n/a	1/27/2023	0.93	Yes 80 n/a	n/a	5	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-8	0.44	n/a	2/1/2023	1.9	Yes 80 n/a	n/a	5	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Boron (mg/L)	HGWC-9	0.44	n/a	1/26/2023	1.9	Yes 80 n/a	n/a	5	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-12	138	n/a	1/26/2023	154	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-13	138	n/a	1/26/2023	234	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Calcium (mg/L)	HGWC-9	138	n/a	1/26/2023	173	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-8	44.8	n/a	2/1/2023	52.4	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Chloride (mg/L)	HGWC-9	44.8	n/a	1/26/2023	86.9	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-11	88.2	n/a	1/26/2023	209	Yes 80 n/a	n/a	1.25	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-12	88.2	n/a	1/26/2023	228	Yes 80 n/a	n/a	1.25	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-13	88.2	n/a	1/26/2023	495	Yes 80 n/a	n/a	1.25	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-7	88.2	n/a	1/27/2023	119	Yes 80 n/a	n/a	1.25	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-8	88.2	n/a	2/1/2023	179	Yes 80 n/a	n/a	1.25	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Sulfate (mg/L)	HGWC-9	88.2	n/a	1/26/2023	217	Yes 80 n/a	n/a	1.25	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-13	632	n/a	1/26/2023	962	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	HGWC-9	632	n/a	1/26/2023	745	Yes 80 n/a	n/a	0	n/a	n/a	0.0002983	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Data: Hammond AP-1 Printed 4/14/2023, 12:39 PM Plant Hammond Client: Southern Company Constituent Well Sig. Bg N Bg Mean Std. Dev %NDs ND Adj. Upper Lim. Lower Lim. Observ. 0.065 HGWC-10 1/27/2023 No 80 5 Boron (mg/L) 0.44 n/a n/a n/a 0.0002983 NP Inter (normality) 1 of 2 n/a n/a 0.44 0.0002983 NP Inter (normality) 1 of 2 Boron (mg/L) HGWC-11 n/a 1/26/2023 0.5 Yes 80 n/a n/a 5 n/a n/a HGWC-12 Boron (ma/L) 0.44 n/a 1/26/2023 1.5 Yes 80 0.0002983 NP Inter (normality) 1 of 2 n/a n/a n/a n/a Boron (mg/L) HGWC-13 n/a 1/26/2023 0.83 Yes 80 5 n/a 0.0002983 NP Inter (normality) 1 of 2 HGWC-7 1/27/2023 0.93 Yes 80 n/a 0.0002983 NP Inter (normality) 1 of 2 Boron (mg/L) 0.44 n/a n/a n/a n/a HGWC-8 2/1/2023 Boron (mg/L) 0.44 n/a 1.9 Yes 80 n/a 0.0002983 NP Inter (normality) 1 of 2 HGWC-9 Boron (mg/L) 0.44 n/a 1/26/2023 1.9 Yes 80 n/a n/a n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Calcium (mg/L) HGWC-10 138 1/27/2023 60.4 80 0.0002983 NP Inter (normality) 1 of 2 Calcium (mg/L) HGWC-11 138 n/a 1/26/2023 113 Nο 80 n/a n/a 0 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Calcium (mg/L) HGWC-12 138 n/a 1/26/2023 154 Yes 80 n/a n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Calcium (mg/L) HGWC-13 138 n/a 1/26/2023 234 Yes 80 n/a n/a n/a n/a 0.0002983 NP Inter (normality) 1 of 2 HGWC-7 1/27/2023 Calcium (mg/L) 138 124 80 0 n/a 0.0002983 NP Inter (normality) 1 of 2 HGWC-8 2/1/2023 80 NP Inter (normality) 1 of 2 Calcium (mg/L) 138 n/a 110 No n/a n/a 0 n/a n/a 0.0002983 Calcium (mg/L) HGWC-9 138 n/a 1/26/2023 173 Yes n/a n/a n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Chloride (mg/L) HGWC-10 44 8 n/a 1/27/2023 16 Nο 80 n/a n/a n n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Chloride (mg/L) HGWC-11 1/26/2023 8.8 No 80 0.0002983 NP Inter (normality) 1 of 2 n/a n/a n/a n/a n/a Chloride (mg/L) HGWC-12 44.8 n/a 1/26/2023 34.6 No 80 n/a n/a 0 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 HGWC-13 1/26/2023 12.5 n/a 0.0002983 NP Inter (normality) 1 of 2 Chloride (mg/L) 44.8 n/a 80 No n/a n/a n/a Chloride (mg/L) HGWC-7 44.8 n/a 1/27/2023 40 No 80 n/a n/a 0 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Chloride (ma/L) HGWC-8 44.8 n/a 2/1/2023 52.4 Yes 80 n/a n/a n/a 0.0002983 NP Inter (normality) 1 of 2 n/a Chloride (mg/L) HGWC-9 n/a 1/26/2023 86.9 80 n/a 0.0002983 NP Inter (normality) 1 of 2 44.8 Yes n/a n/a 0 n/a Fluoride (mg/L) HGWC-10 1.3 n/a 1/27/2023 0.16 94 28.72 n/a 0.0002194 NP Inter (normality) 1 of 2 n/a n/a n/a No 1/26/2023 HGWC-11 1.3 0.2 28.72 0.0002194 Fluoride (mg/L) n/a No 94 n/a NP Inter (normality) 1 of 2 Fluoride (mg/L) HGWC-12 1.3 n/a 1/26/2023 0.21 No 94 n/a n/a 28.72 n/a n/a 0.0002194 NP Inter (normality) 1 of 2 Fluoride (mg/L) HGWC-13 1.3 n/a 1/26/2023 0.4 No 94 28.72 n/a n/a 0.0002194 NP Inter (normality) 1 of 2 Fluoride (mg/L) HGWC-7 1/27/2023 0.1 94 NP Inter (normality) 1 of 2 1.3 n/a Nο n/a n/a 28.72 n/a n/a 0.0002194 HGWC-8 1.3 2/1/2023 0.4 94 28.72 0.0002194 Fluoride (mg/L) n/a n/a n/a NP Inter (normality) 1 of 2 HGWC-9 Fluoride (mg/L) 1.3 1/26/2023 0.11 94 28.72 0.0002194 NP Inter (normality) 1 of 2 n/a No n/a n/a n/a n/a HGWC-10 4.9 1/27/2023 0.0004864 pH, Field (SU) 8.25 6.89 89 0 n/a NP Inter (normality) 1 of 2 pH, Field (SU) HGWC-11 8.25 4.9 1/26/2023 6.23 No 89 n/a n/a 0 n/a n/a 0.0004864 NP Inter (normality) 1 of 2 pH. Field (SU) HGWC-12 8.25 4.9 1/26/2023 7.1 No 89 n/a n/a 0.0004864 NP Inter (normality) 1 of 2 HGWC-13 pH, Field (SU) 8 25 49 1/26/2023 6.9 Nο 89 n/a n/a n n/a n/a 0.0004864 NP Inter (normality) 1 of 2 pH, Field (SU) HGWC-7 8.25 4.9 1/27/2023 7.25 No 89 n/a 0.0004864 NP Inter (normality) 1 of 2 n/a n/a n/a pH, Field (SU) HGWC-8 8.25 4.9 2/1/2023 6.6 Nο 89 n/a n/a 0 n/a n/a 0.0004864 NP Inter (normality) 1 of 2 pH, Field (SU) HGWC-9 8.25 4.9 1/26/2023 7.07 89 n/a 0.0004864 NP Inter (normality) 1 of 2 No n/a n/a n/a Sulfate (mg/L) HGWC-10 88.2 n/a 1/27/2023 37.3 No 80 n/a n/a 1.25 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Sulfate (mg/L) HGWC-11 88.2 n/a 1/26/2023 209 Yes 80 n/a n/a 1.25 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Sulfate (mg/L) HGWC-12 n/a 1/26/2023 228 80 n/a 1.25 n/a 0.0002983 NP Inter (normality) 1 of 2 n/a HGWC-13 495 n/a 1/26/2023 Yes 80 n/a 0.0002983 NP Inter (normality) 1 of 2 Sulfate (mg/L) n/a 1.25 n/a n/a 88.2 Sulfate (mg/L) HGWC-7 88.2 n/a 1/27/2023 119 Yes 80 n/a 1.25 n/a 0.0002983 NP Inter (normality) 1 of 2 n/a n/a Sulfate (mg/L) HGWC-8 88.2 n/a 2/1/2023 179 Yes 80 n/a 1.25 n/a 0.0002983 NP Inter (normality) 1 of 2 n/a n/a HGWC-9 1/26/2023 217 Sulfate (mg/L) n/a 80 1.25 0.0002983 NP Inter (normality) 1 of 2 Total Dissolved Solids (mg/L) HGWC-10 n/a 1/27/2023 188 80 0.0002983 NP Inter (normality) 1 of 2 632 n/a n/a 0 n/a No n/a Total Dissolved Solids (mg/L) HGWC-11 632 n/a 1/26/2023 429 80 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 No n/a 0 Total Dissolved Solids (mg/L) HGWC-12 632 n/a 1/26/2023 624 80 0.0002983 NP Inter (normality) 1 of 2 No n/a n/a n/a n/a Total Dissolved Solids (mg/L) HGWC-13 1/26/2023 632 n/a 962 80 0.0002983 NP Inter (normality) 1 of 2 Total Dissolved Solids (mg/L) HGWC-7 1/27/2023 473 632 n/a No 80 n/a n/a 0 n/a n/a 0.0002983 NP Inter (normality) 1 of 2 Total Dissolved Solids (mg/L) HGWC-8 n/a 2/1/2023 528 80 0.0002983 632 No n/a 0 n/a n/a NP Inter (normality) 1 of 2 Total Dissolved Solids (mg/L) HGWC-9 1/26/2023 0.0002983 632 n/a 745 Yes 80 n/a n/a n/a n/a NP Inter (normality) 1 of 2

Exceeds Limit: HGWC-11, HGWC-12, HGWC-9

Prediction Limit
Interwell Non-parametric

HGWC-10

HGWC-11

HGWC-12

HGWC-12

HGWC-13

HGWC-13

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 80 background values. 5% NDs. Annual perconstituent alpha = 0.004169. Individual comparison alpha = 0.0002983 (1 of 2), Comparing 7 points to limit.

5/27/20

9/29/21

2/1/23

1/24/19

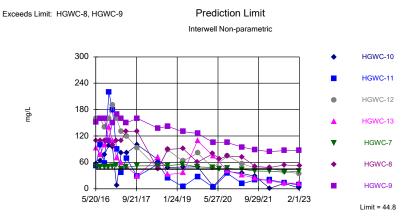
HGWC-9

Limit = 0.44

Constituent: Boron Analysis Run 4/14/2023 12:32 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

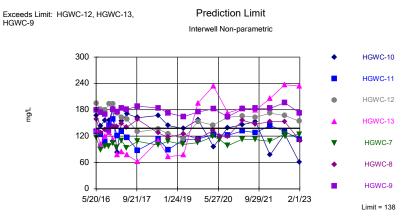
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

5/20/16 9/21/17



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 80 background values. Annual per-constituent alpha = 0.004169. Individual comparison alpha = 0.0002983 (1 of 2). Comparing 7 points to limit.

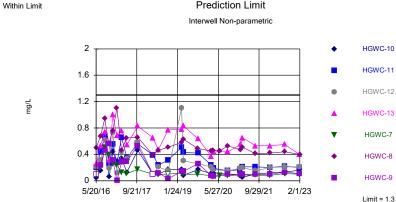
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



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 80 background values. Annual per-constituent alpha = 0.004169. Individual comparison alpha = 0.004293 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 4/14/2023 12:32 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

 ${\it Sanitas^{\rm TM}}~v.9.6.37~{\it Groundwater}~{\it Stats}~{\it Consulting}.~{\it UG}~{\it Hollow}~{\it symbols}~{\it indicate}~{\it censored}~{\it values}.$

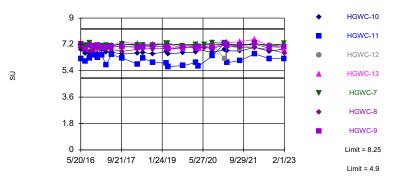


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 94 background values. 28.72% NDs. Annual perconstituent alpha = 0.003088. Individual comparison alpha = 0.0002194 (1 of 2), Comparing 7 points to limit.

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Within Limits

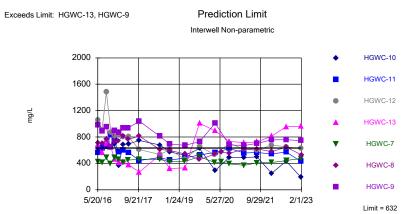
Prediction Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 89 background values. Annual perconstituent alpha = 0.0068. Individual comparison alpha = 0.0004864 (1 of 2). Comparing 7 points to limit.

Constituent: pH, Field Analysis Run 4/14/2023 12:32 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG



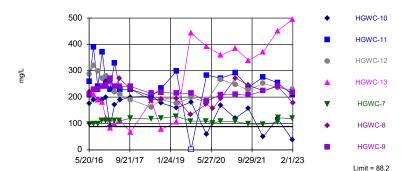
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 80 background values. Annual per-constituent alpha = 0.004169. Individual comparison alpha = 0.0002983 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:32 PM View: Appendix III
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG Hollow symbols indicate censored values.



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 80 background values. 1.25% NDs. Annual perconstituent alpha = 0.004169. Individual comparison alpha = 0.0002983 (1 of 2). Comparing 7 points to limit.

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
5/19/2016	0.0214 (J)	<0.04	0.0321 (J)						
5/20/2016				0.885	1.71				
5/23/2016						0.787	2.15	0.72	1.76
7/11/2016	0.0142 (J)		0.0337 (J)						
7/12/2016		0.0074 (J)		0.857	1.43	1.17	1.91	0.778	1.56
8/30/2016	0.0074 (J)	<0.04	0.0173 (J)						
9/1/2016				0.904	1.91	1.49	2.3	0.786	2
10/19/2016	0.0224 (J)	0.0085 (J)	0.0341 (J)						
10/20/2016				0.936	1.72				1.68
10/24/2016						2.54	4.01	0.831	
12/6/2016	0.0211 (J)	0.0085 (J)	0.0326 (J)	1.06	2.06				2.15
12/7/2016						2.96	3.85	1.01	
1/24/2017	0.0165 (J)	0.01 (J)	0.0365 (J)						
1/25/2017				0.764	2.01				
1/26/2017						2.23	2.45	0.108	1.87
3/21/2017	0.0187 (J)	0.0079 (J)	0.0349 (J)	0.857	2.08				
3/22/2017	(-)	(-)	(-,			0.84	1.99	0.788	1.99
5/22/2017	0.0782	0.0131 (J)	0.0475						
5/23/2017	0.0702	0.0.00	0.0170	0.91	2.32				2.29
5/24/2017				0.51	2.52	2.29	1.74	0.814	2.23
10/3/2017	0.0198 (J)	0.0097 (J)	0.0386 (J)	0.967	2.84	1.47	1.43	0.871	2.05
6/4/2018		. ,	0.0360 (J)	0.907	2.04	1.47	1.43	0.071	2.03
	0.02 (J)	0.017 (J)	0.030 (3)	0.00		1.0	1.0	1.0	
6/5/2018				0.86	0.0	1.3	1.3	1.2	0.0
6/6/2018	0.040 (1)	0.0004 (1)	0.005 (1)		2.6				2.3
10/1/2018	0.013 (J)	0.0061 (J)	0.035 (J)						
10/2/2018				0.98	2.7			0.62	2.5
10/3/2018						0.91			
10/5/2018							1.6		
4/1/2019		0.0066 (J)							
4/2/2019	0.016 (J)		0.034 (J)	0.99					
4/3/2019					2.8	0.23		0.66	2.3
4/5/2019							0.86 (J)		
9/23/2019	0.021 (J)	0.0081 (J)	0.04 (J)						
9/24/2019					2.8				
9/25/2019				1.1					
9/26/2019							1.7		
9/27/2019						0.53		1	2.9
3/25/2020	0.025 (J)	0.0096 (J)	0.039 (J)						
3/26/2020									
3/27/2020				1.2	2.4				
3/30/2020							1.8		
3/31/2020						0.17			2.2
4/1/2020								0.23	
6/16/2020	0.021 (J)	0.01 (J)			2.2				
6/17/2020	• •			1					
9/15/2020	0.017 (J)	0.0071 (J)	0.044 (J)						
9/16/2020	` '	\-'\	.,	1.1	1.9			1.1	
9/17/2020					-				2
9/18/2020						0.91			
9/21/2020							1.6		
11/10/2020									
12/15/2020									
12/10/2020									

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
1/19/2021									
3/10/2021	0.015 (J)								
3/11/2021		0.015 (J)	0.056						
3/12/2021								0.64	
3/15/2021				1.1	1.7				
3/16/2021						0.53			2.2
3/17/2021							0.89		
8/11/2021	0.02 (J)								
8/12/2021		<0.04	0.044						
8/13/2021									
8/16/2021				1.1					
8/17/2021								0.88	2.3
8/18/2021					1.8	0.91			
8/19/2021							0.73		
2/1/2022	0.016 (J)	0.011 (J)	0.056						
2/9/2022						1		0.1	2.3
2/10/2022				1.3	1.7		1		
8/2/2022	0.012 (J)	<0.04	0.047						
8/3/2022				1.1	1.5	0.64	0.76	0.53	
8/4/2022									2
8/11/2022				1.1					
1/23/2023		0.012 (J)							
1/24/2023	0.015 (J)		0.046						
1/26/2023						0.5	0.83		1.9
1/27/2023				0.93				0.065	
2/1/2023					1.9				

	HGWC-12	HGWA-44D (bg)	HGWA-43D (bg)
5/19/2016			
5/20/2016			
5/23/2016	2.2		
7/11/2016			
7/12/2016	1.98		
8/30/2016			
9/1/2016	2.28		
10/19/2016			
10/20/2016			
10/24/2016	2.75		
12/6/2016			
12/7/2016	3.35		
1/24/2017			
1/25/2017			
1/26/2017	3.07		
3/21/2017			
3/22/2017	3.04		
5/22/2017			
5/23/2017			
5/24/2017	2.95		
10/3/2017	2.35		
6/4/2018			
6/5/2018			
6/6/2018	2.5		
10/1/2018			
10/2/2018			
10/3/2018	2.3		
10/5/2018			
4/1/2019			
4/2/2019	1.0		
4/3/2019 4/5/2010	1.8		
4/5/2019			
9/23/2019 9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	2.1		
3/25/2020			
3/26/2020	1.6		
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		0.23	0.061 (J)
9/17/2020			
9/18/2020	1.6		
9/21/2020			
11/10/2020		0.29	0.057 (J)
12/15/2020		0.31	0.052 (J)

	HGWC-12	HGWA-44D (bg)	HGWA-43D (bg)
1/19/2021		0.4	0.049 (J)
3/10/2021		0.39	
3/11/2021			0.06
3/12/2021			
3/15/2021			
3/16/2021	1.9		
3/17/2021			
8/11/2021			0.042
8/12/2021			
8/13/2021		0.31	
8/16/2021			
8/17/2021			
8/18/2021	1.9		
8/19/2021			
2/1/2022		0.44	0.05
2/9/2022	2		
2/10/2022			
8/2/2022		0.31	0.043
8/3/2022	1.5		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		0.44	0.037 (J)
1/26/2023	1.5		
1/27/2023			
2/1/2023			

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
5/19/2016	138	76.2	22.9						
5/20/2016				117	159				
5/23/2016						131	133	167	179
7/11/2016	97.2		22.3						
7/12/2016		61.5		88.8	127	124	101	143	174
8/30/2016	97.5	65.1	26.4						
9/1/2016				96.3	135	107	120	156	170
10/19/2016	99.2	73.2	21.7						
10/20/2016				96.9	134				133
10/24/2016						145	127	156	
12/6/2016	105	74.9	18.2	104	142				181
12/7/2016						159	113	183	
1/24/2017	95.7	69.6	18.5						
1/25/2017				94.5	142				
1/26/2017						121	77.9	82.6	175
3/21/2017	106	75.7	18.6	109	148				
3/22/2017						130	85.1	154	183
5/22/2017	107	71.5	17.8						
5/23/2017				93.3	140				181
5/24/2017						117	77.1	171	
10/3/2017	102	76.3	20.2	108	158	87.7	62	162	188
6/4/2018	124	73.4	19.1						
6/5/2018				99.8		113	110	167	
6/6/2018					127				184
10/1/2018	108	80.9	20.5 (J)						
10/2/2018				108	118			144	173
10/3/2018						89			
10/5/2018							73.6		
4/1/2019		80.5							
4/2/2019	132		22.5 (J)	101					
4/3/2019					125	112		137	164
4/5/2019							77.1		
9/23/2019	118	71	19.5						
9/24/2019					113				
9/25/2019				105					
9/26/2019							195		
9/27/2019						113		157	175
3/25/2020	127	89.8	23						
3/26/2020									
3/27/2020				119	133				
3/30/2020							234		
3/31/2020						124			182
4/1/2020								96.2	
6/16/2020	130	85.1			120				
6/17/2020				112					
9/15/2020	103	73.1	21.1						
9/16/2020				98	119			139	
9/17/2020									164
9/18/2020						122			
9/21/2020							173		
11/10/2020									
12/15/2020									

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
1/19/2021									
3/10/2021	111								
3/11/2021		83.8	43.8						
3/12/2021								146 (M1)	
3/15/2021				113	156				
3/16/2021						132			182
3/17/2021							184		
8/11/2021	113								
8/12/2021		84	21.9						
8/13/2021									
8/16/2021				112					
8/17/2021								153	183
8/18/2021					147	128			
8/19/2021							179		
2/1/2022	106	85.1	27.2						
2/9/2022						144		76.8	183
2/10/2022				108	153		206		
8/2/2022	117	84.6	31.2						
8/3/2022				125	153	131	237	125	
8/4/2022									196
8/11/2022				119					
1/23/2023		85							
1/24/2023	117		29.4						
1/26/2023						113	234		173
1/27/2023				124				60.4	
2/1/2023					110				

	HGWC-12	HGWA-44D (bg)	HGWA-43D (bg)
5/19/2016			
5/20/2016			
5/23/2016	195		
7/11/2016			
7/12/2016	181		
8/30/2016			
9/1/2016	179		
10/19/2016			
10/20/2016			
10/24/2016	193		
12/6/2016			
12/7/2016	193		
1/24/2017			
1/25/2017			
1/26/2017	172		
3/21/2017			
3/22/2017	162		
5/22/2017			
5/23/2017			
5/24/2017	158		
10/3/2017	130		
6/4/2018			
6/5/2018			
6/6/2018	136		
10/1/2018			
10/2/2018			
10/3/2018	125		
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	114		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	153		
3/25/2020			
3/26/2020	145		
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		30	56
9/17/2020			
9/18/2020	163		
9/21/2020			
11/10/2020		33.6	63.3
12/15/2020		28.7	62.6

	HGWC-12	HGWA-44D (bg)	HGWA-43D (bg)
1/19/2021		33	60.1
3/10/2021		5.9	
3/11/2021			59.6
3/12/2021			
3/15/2021			
3/16/2021	166		
3/17/2021			
8/11/2021			61
8/12/2021			
8/13/2021		28.9	
8/16/2021			
8/17/2021			
8/18/2021	163		
8/19/2021			
2/1/2022		24.8	55.9
2/9/2022	172		
2/10/2022			
8/2/2022		20.9	54.1
8/3/2022	167		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		13.2	56.6
1/26/2023	154		
1/27/2023			
2/1/2023			

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
5/19/2016	9.94	5.93	6.14						
5/20/2016				50.4	109				
5/23/2016						51.9	93.2	56.1	152
7/11/2016	6.3		5.9						
7/12/2016	•	6.2	0.0	50	110	100	78	63	160
8/30/2016	6	6.4	6.2						
9/1/2016				50	110	58	100	77	160
10/19/2016	5.8	6.5	6.1						
10/20/2016				49	110				110
10/24/2016	5.4	7.0	•	E4	100	220	140	99	450
12/6/2016	5.4	7.2	6	51	100	100	110	00	150
12/7/2016	5.0	6.4	0.1			180	110	96	
1/24/2017	5.2	6.4	6.1	F.4	110				
1/25/2017				54	110	00	70	7	170
1/26/2017	4.0	7.5	5.0	40	110	90	70	7	170
3/21/2017	4.6	7.5	5.9	46	110	27	F0	00	100
3/22/2017	4.0	6.5	5.0			37	59	82	160
5/22/2017	4.6	6.5	5.9	40	100				150
5/23/2017				49	130	00	50	0.1	150
5/24/2017	F.C.	6.5	6.3	F2	120	69	50	81	160
10/3/2017	5.6	6.5	6.3	52	130	28	29	100	160
6/4/2018	13.1	6.3	6.1	50.0		50.4	70.0	66.6	
6/5/2018				52.3	44.0	56.1	72.3	66.6	120
6/6/2018	6.6	6.4	6.4		44.8				138
10/1/2018	6.6	6.4	6.4	50.0	00.4			40.0	140
10/2/2018 10/3/2018				52.6	89.4	24.9		48.3	142
						24.8	22.2		
10/5/2018 4/1/2019		6.5					32.3		
	20.2	0.5	E O	EE E					
4/2/2019 4/3/2019	20.3		5.8	55.5	91.6	4.6		49.3	130
4/5/2019					31.0	4.0	36.4	49.5	130
9/23/2019	17.7	5.9	5.1				30.4		
9/24/2019	17.7	5.9	5.1		60.2				
9/25/2019				49.8	00.2				
9/26/2019				43.0			109		
9/27/2019						27.9	100	49.9	126
3/25/2020	20.4	6.1	5.2			27.0		-10.0	120
3/26/2020	20		0.2						
3/27/2020				48.3	79.8				
3/30/2020							75.1		
3/31/2020						3.2			105
4/1/2020								5.4	
6/16/2020	41.1	5.8			67.9				
6/17/2020				45.2					
9/15/2020	13.4	6	5						
9/16/2020				46.4	74.6			39.7	
9/17/2020									105
9/18/2020						34.9			
9/21/2020							41.2		
11/10/2020									
12/15/2020									

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
1/19/2021									
3/10/2021	7.4								
3/11/2021		5.9	5.1						
3/12/2021								35	
3/15/2021				44.5	72.4				
3/16/2021						11.5			94.7
3/17/2021							31.4		
8/11/2021	9.6								
8/12/2021		4.8	5.2						
8/13/2021									
8/16/2021				40.3					
8/17/2021								28.3	88.6
8/18/2021					50.9	19.9			
8/19/2021							24.4		
2/1/2022	7.5	5.7	7						
2/9/2022						20.4		1.2	84.4
2/10/2022				39.8	48.2		17.4		
8/2/2022	14.1	5.9	7.8						
8/3/2022				37.9	54.1	13.8	13	12.3	
8/4/2022									86.8
8/11/2022				37.7					
1/23/2023		5.6							
1/24/2023	9		7.1						
1/26/2023						8.8	12.5		86.9
1/27/2023				40				1.6	
2/1/2023					52.4				

	HGWC-12	HGWA-44D (bg)	HGWA-43D (bg)
5/19/2016			
5/20/2016			
5/23/2016	160		
7/11/2016			
7/12/2016	160		
8/30/2016			
9/1/2016	140		
10/19/2016			
10/20/2016			
10/24/2016	160		
12/6/2016			
12/7/2016	190		
1/24/2017			
1/25/2017			
1/26/2017	160		
3/21/2017			
3/22/2017	130		
5/22/2017			
5/23/2017			
5/24/2017	120		
10/3/2017	93		
6/4/2018			
6/5/2018			
6/6/2018	46.4		
10/1/2018			
10/2/2018			
10/3/2018	88.4		
10/5/2018			
4/1/2019			
4/2/2019			
4/3/2019	62.8		
4/5/2019			
9/23/2019			
9/24/2019			
9/25/2019			
9/26/2019			
9/27/2019	81		
3/25/2020			
3/26/2020	48		
3/27/2020			
3/30/2020			
3/31/2020			
4/1/2020			
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		7.2	4.1
9/17/2020			
9/18/2020	74.6		
9/21/2020			
11/10/2020		7.8	4.4
12/15/2020		9.4	4.7

	HGWC-12	HGWA-44D (bg)	HGWA-43D (bg)
1/19/2021		9.5	4.1
3/10/2021		12.3	
3/11/2021			4.5
3/12/2021			
3/15/2021			
3/16/2021	56.8		
3/17/2021			
8/11/2021			3.5
8/12/2021			
8/13/2021		39.9	
8/16/2021			
8/17/2021			
8/18/2021	47.3		
8/19/2021			
2/1/2022		44.8	4.1
2/9/2022	46.8		
2/10/2022			
8/2/2022		19.8	4.3
8/3/2022	39.2		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		24.9	4.3
1/26/2023	34.6		
1/27/2023			
2/1/2023			

5/19/2016	HGWA-1 (bg) 0.105 (J)	HGWA-3 (bg) 0.0513 (J)	HGWA-2 (bg) 0.0303 (J)	HGWC-7	HGWC-8	HGWC-12	HGWC-13	HGWC-11	HGWC-9
5/20/2016	0.103 (3)	0.0313 (0)	0.0303 (3)	0.0828 (J)	0.499				
5/23/2016				0.0020 (0)	0.100	0.212 (J)	0.2587 (J)	0.203 (J)	<0.1
7/11/2016	0.16 (J)		0.05 (J)			(-)		(-)	
7/12/2016	(-)	0.12 (J)	(0)	0.2 (J)	0.67	0.31	0.53	0.44	0.24 (J)
8/30/2016	0.09 (J)	0.09 (J)	0.06 (J)	5. <u>–</u> (5)					(0)
9/1/2016	(1)	(1)	(,,	0.51	0.94	0.62	0.74	0.67	0.46
10/19/2016	0.1 (J)	0.1 (J)	0.04 (J)						
10/20/2016	(4)	(4)	(4)	0.4	0.56				0.56
10/24/2016						0.19 (J)	0.31	0.26 (J)	
12/6/2016	0.11 (J)	0.21 (J)	0.36	0.26 (J)	0.76	. ,		,	0.31
12/7/2016	.,	.,		. ,		0.73	1	0.55	
1/24/2017	0.09 (J)	0.06 (J)	<0.1						
1/25/2017	.,	.,		0.24 (J)	1.1				
1/26/2017				. (-)		0.12 (J)	0.68	0.27 (J)	0.004 (J)
3/21/2017	0.13 (J)	0.005 (J)	<0.1	0.13 (J)	0.46	(-)		(-)	(-)
3/22/2017						0.44	0.76	0.66	0.28 (J)
5/22/2017	0.12 (J)	0.05 (J)	<0.1						- (-)
5/23/2017	(-)	(-)		0.11 (J)	0.65				0.29 (J)
5/24/2017				(0)		0.34	0.54	0.35	(0)
10/3/2017	0.13 (J)	0.13 (J)	<0.1	0.17 (J)	0.66	0.58	0.83	0.56	0.53
4/2/2018	<0.1	(=)	<0.1	(4)					
4/3/2018		<0.1		<0.1	0.39				<0.1
4/4/2018						<0.1	0.65	0.39	
6/4/2018	0.074 (J)	<0.1	<0.1						
6/5/2018				0.099 (J)			0.47	0.24 (J)	
6/6/2018				(0)	0.46	0.21 (J)			0.12 (J)
10/1/2018	<0.1	<0.1	<0.1			(-,			. (-)
10/2/2018				<0.1	0.51				0.031 (J)
10/3/2018						0.15 (J)		0.31	(0)
10/5/2018						(5)	0.77		
3/12/2019	0.29 (J)	0.072 (J)	0.038 (J)		0.58				
3/13/2019	(-)	(0)	(0)	0.12 (J)			0.78	0.51	0.14 (J)
3/14/2019				(-)		1.1			(-)
4/1/2019		0.029 (J)							
4/2/2019	0.1 (J)	(,,	0.071 (J)	0.097 (J)					
4/3/2019	. ,		()	· /	0.63	0.3 (J)		0.43	0.14 (J)
4/5/2019							0.83		(-)
9/23/2019	0.078 (J)	<0.1	<0.1						
9/24/2019	(,,				0.49				
9/25/2019				0.1 (J)					
9/26/2019				(-)			0.64		
9/27/2019						0.26 (J)		0.42	0.26 (J)
3/2/2020	0.076 (J)	<0.1	<0.1			. ,			()
3/3/2020	` '				0.45	0.21 (J)		0.24 (J)	
3/4/2020				0.077 (J)		• •	0.37	* *	0.08 (J)
3/25/2020	0.098 (J)	<0.1	<0.1	• /					.,
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)
4/1/2020									• *

	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		
8/2/2022	0.09 (J)	0.067 (J)	0.053 (J)						
8/3/2022				0.11	0.44	0.21	0.55	0.22	
8/4/2022									0.13
8/11/2022				0.11					
1/23/2023		0.061 (J)							
1/24/2023	0.089 (J)		0.053 (J)						
1/26/2023						0.21	0.4	0.2	0.11
1/27/2023				0.1					
2/1/2023					0.4				

		HGWC-10	HGWA-43D (bg)	HGWA-44D (bg)
5/19/2	2016		, ,	
5/20/2				
5/23/2	2016	0.0394 (J)		
7/11/2				
7/12/2		0.15 (J)		
8/30/2		. ,		
9/1/20		0.5		
	9/2016			
	0/2016			
	1/2016	0.06 (J)		
12/6/2				
12/7/2		0.44		
1/24/2				
1/25/2				
1/26/2	2017	0.29 (J)		
3/21/2				
3/22/2		0.34		
5/22/2	2017			
5/23/2	2017			
5/24/2	2017	0.13 (J)		
10/3/2	2017	0.46		
4/2/2	018			
4/3/20	018			
4/4/20	018	<0.1		
6/4/2	018			
6/5/20	018	<0.1		
6/6/20	018			
10/1/2	2018			
10/2/2	2018	0.17 (J)		
10/3/2				
10/5/2				
3/12/2				
3/13/2		0.17 (J)		
3/14/2				
4/1/20				
4/2/20				
4/3/20		0.082 (J)		
4/5/20				
9/23/2 9/24/2				
9/25/2				
9/26/2				
9/27/2		0.17 (J)		
3/2/2		J. 17 (J)		
3/3/2		0.11 (J)		
3/4/20		(-/		
3/25/2				
3/26/2				
3/27/2				
3/30/2				
3/31/2				
4/1/20		0.12 (J)		

	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		0.10	
2/1/2022	0.10	0.19	0.96
2/9/2022	0.12		
2/10/2022 8/2/2022		0.22	0.8
8/3/2022	0.13	0.22	v.o
8/4/2022	0.13		
8/11/2022			
1/23/2023			
1/24/2023		0.23	1.3
1/26/2023		5.25	
1/27/2023	0.16		
2/1/2023	55		
0_0			

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-13	HGWC-12	HGWC-10	HGWC-9
5/19/2016	7.27	7.45	5.81						
5/20/2016				7.14	6.99				
5/23/2016						7.14	7.15	6.83	7.23
7/11/2016	7.06		5.68						
7/12/2016		7.32		7.13	6.88	7.04	6.87	6.58	6.87
8/30/2016	7.28	7.43	5.63						
9/1/2016				7.29	6.73	7.24	7.2	6.54	7.15
10/19/2016	7.02	7.03	5.46						
10/20/2016				7.1	6.9				7.05
10/24/2016						6.9	7.1	6.59	
12/6/2016	7.09	7.08	5.38	7.15	6.98				7.15
12/7/2016						6.91	6.92	6.56	
1/24/2017	7.2	7.39	5.37						
1/25/2017				7.11	7.04				
1/26/2017						7.08	7.05	6.83	6.99
3/21/2017	7.01	6.83	4.9	7.12	6.87	7.10	7.00	0.00	7.00
3/22/2017	744	7.00	5.0			7.13	7.08	6.66	7.03
5/22/2017	7.11	7.02	5.2	7.00	0.07				7.05
5/23/2017				7.08	6.87	7.45	7.44	0.07	7.05
5/24/2017	7.04	7.47	5 2	7.04	0.70	7.15	7.11	6.67	7.07
10/3/2017	7.21	7.47	5.3	7.21	6.72	7.32	7.01	6.54	7.07
4/2/2018	7.1	7.20	5.4	7.14	6.07				6.99
4/3/2018		7.38		7.14	6.87	7 27	7 10	6.61	6.99
4/4/2018	7.06	7.20	5.27			7.27	7.12	6.61	
6/4/2018 6/5/2018	7.06	7.38	5.27	7.13		7.2		6.65	
6/6/2018				7.13	6.9	7.2	7.12	0.03	7.02
10/1/2018	7.09	7.13	5.31		0.5		7.12		7.02
10/1/2018	7.09	7.13	3.31	7.12	6.9			6.55	7.05
10/3/2018				7.12	0.5		7.08	0.55	7.00
10/5/2018						7.24	7.00		
3/12/2019	7.03	7.29	5.42		6.91	7.2.			
3/13/2019	7.00	7.20	02	7.27	0.01	7.24		6.7	7.06
3/14/2019						7.2.	7.09	···	7.00
4/1/2019		7.16							
4/2/2019	6.86		5.41	7.27					
4/3/2019					6.85		6.96	6.55	6.88
4/5/2019						7.24			
9/23/2019	7.02	7.3	5.33						
9/24/2019					6.95				
9/25/2019				7.11					
9/26/2019						6.94			
9/27/2019							7.07	6.64	7.01
3/2/2020	7.1	7.12	5.43						
3/3/2020					7.06		6.95	6.67	
3/4/2020				7.17		7.16			6.97
3/25/2020	6.95	7.4	5.36						
3/26/2020							6.99		
3/27/2020				7.05	6.95				
3/30/2020						6.91			
3/31/2020									7.07
4/1/2020								6.84	

6/16/2020	HGWA-1 (bg) 6.97 (D)	HGWA-3 (bg) 7.31 (D)	HGWA-2 (bg)	HGWC-7	HGWC-8 6.97 (D)	HGWC-13	HGWC-12	HGWC-10	HGWC-9
6/17/2020	0.97 (D)	7.51 (D)		7.2 (D)	0.97 (D)				
9/15/2020	7.15	7.29	5.22	7.2 (0)					
9/16/2020	7.10	7.20	0.22	7.3	6.92			6.66	
9/17/2020				7.0	0.02			0.00	6.99
9/18/2020							7.15		0.50
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		
2/15/2021								6.83	
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								6.76	
3/15/2021				7.19	7.09				
3/16/2021							7.15		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								6.75	7.1
8/18/2021					7.02		6.89		
8/19/2021						7.38			
2/1/2022	7.19	7.45	5.24						
2/9/2022							7.23	7	7.3
2/10/2022				7.22	6.99	7.54			
8/3/2022				6.93	6.84	7.09	7.13	6.73	
8/4/2022									7.03
8/11/2022				7.07					
1/23/2023		7.32							
1/24/2023	6.76		5.22						
1/26/2023						6.9	7.1		7.07
1/27/2023				7.25				6.89	
2/1/2023					6.6				

			Flant Hamilionu	Client. Southern Company	Data. Hammond AF-1		
	HGWC-11	HGWA-43D (bg)	HGWA-44D (bg)				
5/19/2016							
5/20/2016							
5/23/2016	6.22						
7/11/2016							
7/12/2016	6.04						
8/30/2016							
9/1/2016	6.26						
10/19/2016							
10/20/2016							
10/24/2016	6.46						
12/6/2016							
12/7/2016	6.29						
1/24/2017							
1/25/2017							
1/26/2017	6.46						
3/21/2017							
3/22/2017	5.81						
5/22/2017							
5/23/2017							
5/24/2017	6.51						
10/3/2017	6.25						
4/2/2018							
4/3/2018							
4/4/2018	5.86						
6/4/2018							
6/5/2018	6.27						
6/6/2018							
10/1/2018							
10/2/2018							
10/3/2018	5.97						
10/5/2018							
3/12/2019							
3/13/2019	5.92						
3/14/2019							
4/1/2019							
4/2/2019							
4/3/2019	5.69						
4/5/2019							
9/23/2019							
9/24/2019							
9/25/2019							
9/26/2019							
9/27/2019	5.75						
3/2/2020							
3/3/2020	5.95						
3/4/2020							
3/25/2020							
3/26/2020							
3/27/2020							
3/30/2020							
3/31/2020	5.7						
4/1/2020							

	HGWC-11	HGWA-43D (bg)	HGWA-44D (bg)
6/16/2020			
6/17/2020			
9/15/2020			
9/16/2020		7.52	7.83
9/17/2020			
9/18/2020	6.42		
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	7.27		
2/15/2021			
2/16/2021			
2/22/2021			
3/10/2021			7.92
3/11/2021		7.46	
3/12/2021			
3/15/2021			
3/16/2021	5.95		
3/17/2021			
8/11/2021		7.4	
8/12/2021			
8/13/2021			7.77
8/16/2021			
8/17/2021			
8/18/2021	6.1		
8/19/2021			
2/1/2022		7.52	8.25
2/9/2022	6.55		
2/10/2022			
8/3/2022	6.23		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		7.56	8.22
1/26/2023	6.23		
1/27/2023			
2/1/2023			

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
5/19/2016	66.9	42.3	48.6						
5/20/2016				96	219				
5/23/2016						260	215	175	207
7/11/2016	41		45						
7/12/2016		44		100	230	390	210	190	230
8/30/2016	36	40	42						
9/1/2016				100	230	240	190	190	230
10/19/2016	46	43	44						
10/20/2016				110	240				240
10/24/2016						370	180	190	
12/6/2016	59	43	44	110	250				240
12/7/2016						260	120	200	
1/24/2017	46	48	46						
1/25/2017				110	260				
1/26/2017						230	83	90	270
3/21/2017	63	45	46	110	240				
3/22/2017						330	100	170	240
5/22/2017	77	46	48						
5/23/2017				110	270				240
5/24/2017						230	110	190	
10/3/2017	42	48	47	120	230	230	67	200	240
6/4/2018	71.8	46.6	47.8						
6/5/2018				117		204	187	205	
6/6/2018					190				214
10/1/2018	49.1	48.6	48.1						
10/2/2018				120	193			178	218
10/3/2018						233			
10/5/2018							78.3		
4/1/2019		50.4							
4/2/2019	84.3		48.7	127					
4/3/2019	00				194	298		159	214
4/5/2019							105		
9/23/2019	70.2	43.9	47.2						
9/24/2019	70.2	10.0			133				
9/25/2019				109	100				
9/26/2019							444		
9/27/2019						<1		181	214
3/25/2020	85.9	50.5	46.3					101	217
3/26/2020	00.0	00.0	40.0						
3/27/2020				109	173				
3/30/2020				103	175		393		
3/31/2020						283	333		185
4/1/2020						200		59	100
6/16/2020	88.2	49.5			157			33	
	00.2	49.5		102	157				
6/17/2020	47.3	44.7	51.5	102					
9/15/2020	47.3	44.7	51.5	100	104			160	
9/16/2020				109	194			169	200
9/17/2020						272			209
9/18/2020						272	350		
9/21/2020							359		
11/10/2020									
12/15/2020									

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
1/19/2021									
3/10/2021	49.6								
3/11/2021		50.4	52.9						
3/12/2021								120	
3/15/2021				107	272				
3/16/2021						291			211
3/17/2021							384		
8/11/2021	48.9								
8/12/2021		38.6	47.4						
8/13/2021									
8/16/2021				98.1					
8/17/2021								156	207
8/18/2021					245	237			
8/19/2021							339		
2/1/2022	43.7	46	67.1						
2/9/2022						276		49.2	224
2/10/2022				97.5	224		371		
8/2/2022	58.1	43.5	86.9						
8/3/2022				105	241	254	451	119	
8/4/2022									243
8/11/2022				121					
1/23/2023		39.5							
1/24/2023	48.3		79.7						
1/26/2023						209	495		217
1/27/2023				119				37.3	
2/1/2023					179				

		HGWC-12	HGWA-44D (bg)	HGWA-43D (bg)
5	/19/2016			
5	/20/2016			
5	/23/2016	288		
	//11/2016			
	//12/2016	320		
	/30/2016			
	/1/2016	300		
	0/19/2016			
	0/20/2016			
	0/24/2016	270		
	2/6/2016			
1	2/7/2016	280		
	/24/2017			
	/25/2017			
	/26/2017	260		
	/21/2017			
	/22/2017	220		
5	/22/2017			
5	/23/2017			
5	/24/2017	210		
1	0/3/2017	190		
6	/4/2018			
6	5/5/2018			
6	6/6/2018	162		
1	0/1/2018			
1	0/2/2018			
1	0/3/2018	191		
1	0/5/2018			
4	/1/2019			
4	/2/2019			
4	/3/2019	176		
4	/5/2019			
	/23/2019			
	/24/2019			
	/25/2019			
	/26/2019			
	/27/2019	198		
	/25/2020			
	/26/2020	182		
	/27/2020			
	/30/2020			
	/31/2020			
	/1/2020			
	/16/2020			
	/17/2020			
	/15/2020		0.0	
	/16/2020		6.9	43
	/17/2020	266		
	/18/2020	266		
	/21/2020		6.2	20
	1/10/2020 2/15/2020		6.3 6.7	39 38.8
1	LI IJIZUZU		0.7	ou.u

		HGWC-12	HGWA-44D (bg)	HGWA-43D (bg)
	1/19/2021		7.4	37.3
3	3/10/2021		<1	
3	3/11/2021			38.6
3	3/12/2021			
3	3/15/2021			
3	3/16/2021	248		
3	3/17/2021			
8	3/11/2021			30.5
8	3/12/2021			
8	3/13/2021		56.1	
8	3/16/2021			
8	8/17/2021			
8	3/18/2021	226		
8	3/19/2021			
2	2/1/2022		56.3	37.5
2	2/9/2022	252		
2	2/10/2022			
8	3/2/2022		13.2	37
8	3/3/2022	236		
8	8/4/2022			
8	8/11/2022			
•	1/23/2023			
	1/24/2023		10.1	34.7
	1/26/2023	228		
	1/27/2023			
2	2/1/2023			

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
5/19/2016	421	267	143						
5/20/2016				427	711				
5/23/2016						564	683	629	984
7/11/2016	363		125						
7/12/2016		249		410	704	627	563	661	887
8/30/2016	330	254	168						
9/1/2016				484	763	656	702	769	956
10/19/2016	380	357	176						
10/20/2016				393	644				642
10/24/2016						836	647	643	
12/6/2016	377	285	145	492	733				899
12/7/2016						748	465	697	
1/24/2017	342	300	129						
1/25/2017				461	744				
1/26/2017						571	411	368	869
3/21/2017	340	288	103	415	818				
3/22/2017						597	427	683	936
5/22/2017	338	263	92						
5/23/2017				450	765				939
5/24/2017						566	377	696	
10/3/2017	343	300	127	464	812	443	268	746	1040
6/4/2018	415	266	140						
6/5/2018				459		489	528	679	
6/6/2018					611				810
10/1/2018	354	291	135						
10/2/2018				426	597			572	693
10/3/2018						449			
10/5/2018							322		
4/1/2019		284							
4/2/2019	452		133	428					
4/3/2019					543	483		525	673
4/5/2019							331		
9/23/2019	442	268	129						
9/24/2019					457				
9/25/2019				503					
9/26/2019							1010		
9/27/2019						528		624	730
3/25/2020	496	284	138						
3/26/2020									
3/27/2020				413	541				
3/30/2020							895		
3/31/2020						565			1010
4/1/2020								290	
6/16/2020	632	448			573				
6/17/2020				423					
9/15/2020	265	258	124						
9/16/2020				392	552			490	
9/17/2020									680
9/18/2020						626			
9/21/2020							732		
11/10/2020									
12/15/2020									

	HGWA-1 (bg)	HGWA-3 (bg)	HGWA-2 (bg)	HGWC-7	HGWC-8	HGWC-11	HGWC-13	HGWC-10	HGWC-9
1/19/2021									
3/10/2021	348								
3/11/2021		267	169						
3/12/2021								490 (H1)	
3/15/2021				370	614				
3/16/2021						558			672
3/17/2021							716		
8/11/2021	366								
8/12/2021		265	118						
8/13/2021									
8/16/2021				407					
8/17/2021								496	704
8/18/2021					620	566			
8/19/2021							726		
2/1/2022	270	350	156						
2/9/2022						544		250	756
2/10/2022				414	578		814		
8/2/2022	400	287	196						
8/3/2022				441	648	572	958	433	
8/4/2022									760
8/11/2022				445					
1/23/2023		293							
1/24/2023	369		164						
1/26/2023						429	962		745
1/27/2023				473				188	
2/1/2023					528				

		HGWC-12	HGWA-44D (bg)	HGWA-43D (bg)
5/19/20)16			
5/20/20				
5/23/20		1060		
7/11/20				
7/12/20		909		
8/30/20				
9/1/201		1480		
10/19/2				
10/20/2				
10/24/2		868		
12/6/20				
12/7/20	016	811		
1/24/20				
1/25/20	017			
1/26/20	017	846		
3/21/20				
3/22/20		804		
5/22/20)17			
5/23/20)17			
5/24/20)17	803		
10/3/20)17	608		
6/4/201	18			
6/5/201	18			
6/6/201	18	535		
10/1/20)18			
10/2/20)18			
10/3/20)18	607		
10/5/20)18			
4/1/201	19			
4/2/201	19			
4/3/201	19	462		
4/5/201				
9/23/20				
9/24/20				
9/25/20				
9/26/20				
9/27/20		653		
3/25/20				
3/26/20		533		
3/27/20				
3/30/20				
3/31/20				
4/1/202				
6/16/20				
6/17/20				
9/15/20			270	270
9/16/20 9/17/20			270	272
9/17/20		704		
9/21/20		7 U *1		
11/10/2			287	307
12/15/2			295	289
12/13/2	-020		200	

	HGWC-12	HGWA-44D (bg)	HGWA-43D (bg)
1/19/2021		278	270
3/10/2021		289	
3/11/2021			279
3/12/2021			
3/15/2021			
3/16/2021	614		
3/17/2021			
8/11/2021			277
8/12/2021			
8/13/2021		436	
8/16/2021			
8/17/2021			
8/18/2021	600		
8/19/2021			
2/1/2022		444	156
2/9/2022	678		
2/10/2022			
8/2/2022		311	278
8/3/2022	650		
8/4/2022			
8/11/2022			
1/23/2023			
1/24/2023		363	271
1/26/2023	624		
1/27/2023			
2/1/2023			

FIGURE E.

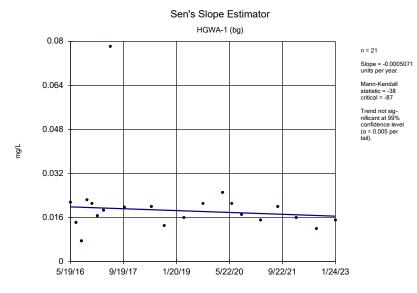
Appendix III Trend Tests - Significant Results Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:44 PM

	Plant Hammond Client: Southern Compa	ny Data: Har	nmond AP	-1 Printe	d 4/14	/2023, 1	12:44 PI	М			
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	<u>%NDs</u>	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	HGWA-2 (bg)	0.002417	122	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-12	-0.1782	-97	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-13	-0.246	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-7	0.04008	125	92	Yes	22	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.343	113	87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.1308	-102	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	8.893	28	25	Yes	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-8	-9.384	-113	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-9	-12.17	-134	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.847	118	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-2.015	-26	-25	Yes	9	0	n/a	n/a	0.01	NP

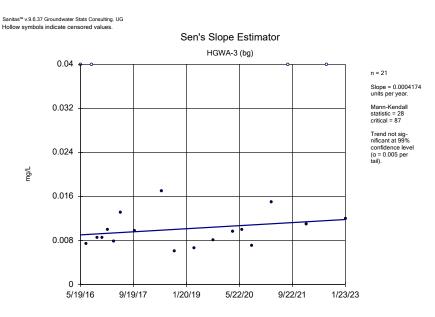
Appendix III Trend Tests - All Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:44 PM

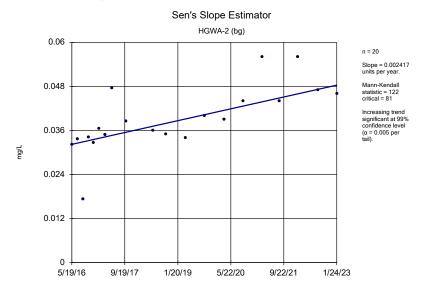
	Transfer Compa	any Data. He	illilliona A	-1 111110	cu 4/ 1-	*/2025,	12.77 1	IVI			
Constituent	Well	<u>Slope</u>	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	HGWA-1 (bg)	-0.0005071	-38	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-2 (bg)	0.002417	122	81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-3 (bg)	0.0004174	28	87	No	21	19.05	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-43D (bg)	-0.009889	-24	-25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWA-44D (bg)	0.06482	20	25	No	9	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-11	-0.1651	-74	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-12	-0.1782	-97	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-13	-0.246	-121	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-7	0.04008	125	92	Yes	22	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-8	-0.0007786	-3	-87	No	21	0	n/a	n/a	0.01	NP
Boron (mg/L)	HGWC-9	0.05878	64	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-1 (bg)	2.482	68	87	No	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-2 (bg)	0.8789	66	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-3 (bg)	2.343	113	87	Yes	21	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-43D (bg)	-3.051	-16	-25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWA-44D (bg)	-7.217	-20	-25	No	9	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-12	-4.398	-55	-81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-13	18.24	66	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	HGWC-9	0.9669	42	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-1 (bg)	0.6249	63	87	No	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-2 (bg)	-0.02813	-10	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-3 (bg)	-0.1308	-102	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-43D (bg)	0	-2	-25	No	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWA-44D (bg)	8.893	28	25	Yes	9	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-8	-9.384	-113	-87	Yes	21	0	n/a	n/a	0.01	NP
Chloride (mg/L)	HGWC-9	-12.17	-134	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-1 (bg)	1.051	29	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-2 (bg)	1.847	118	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-3 (bg)	0.5404	34	87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-43D (bg)	-2.015	-26	-25	Yes	9	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWA-44D (bg)	3.569	14	25	No	9	11.11	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-11	-8.003	-34	-81	No	20	5	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-12	-9.947	-60	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-13	45.96	62	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-7	0	12	92	No	22	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-8	-3.675	-27	-87	No	21	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	HGWC-9	-2.98	-41	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-1 (bg)	3.042	16	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-2 (bg)	2.559	17	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-3 (bg)	1.746	27	87	No	21	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-43D (bg)	-6.294	-12	-25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWA-44D (bg)	39.45	22	25	No	9	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-13	52.01	56	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	HGWC-9	-33.15	-52	-81	No	20	0	n/a	n/a	0.01	NP



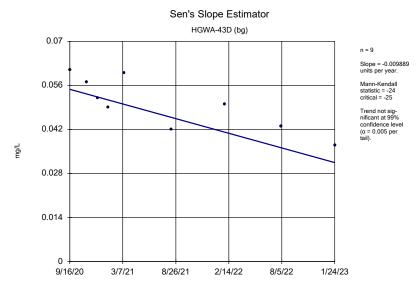
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Plant Hammond Client: Southern Company Data: Hammond AP-1



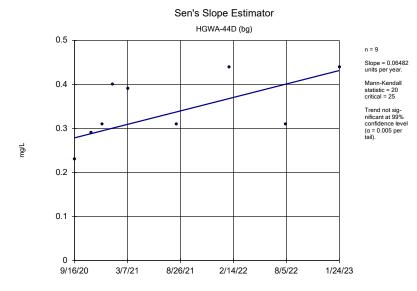
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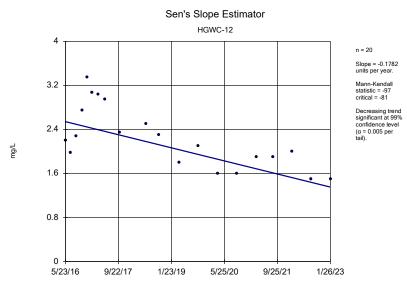
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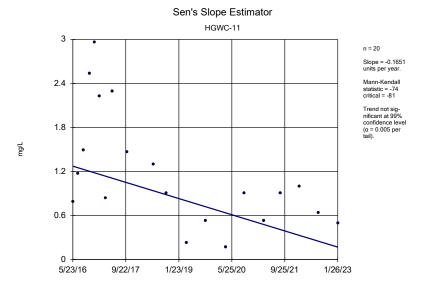
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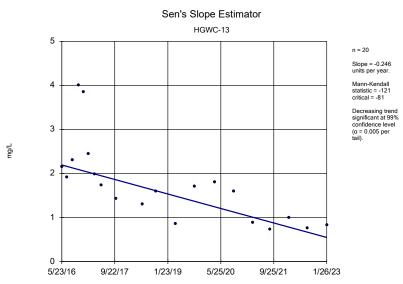
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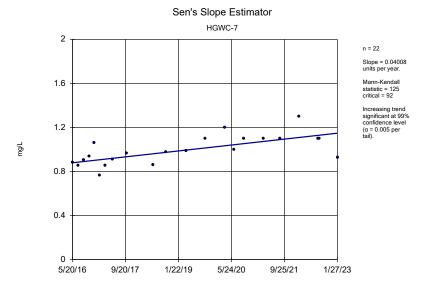
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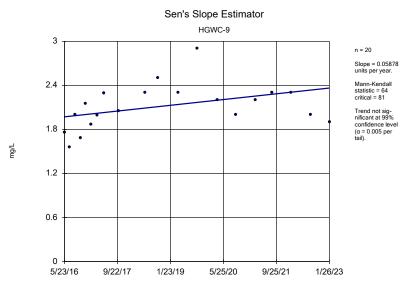
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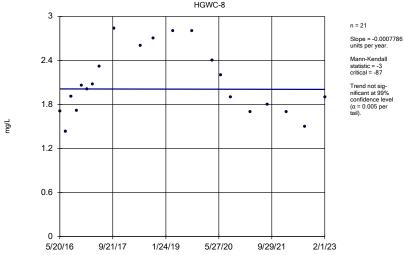


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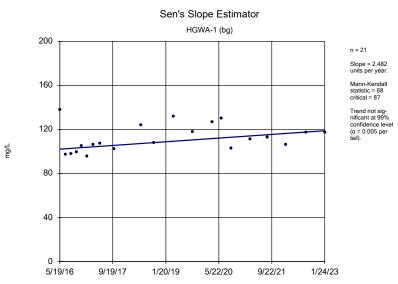


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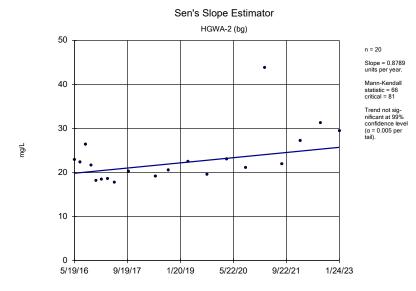




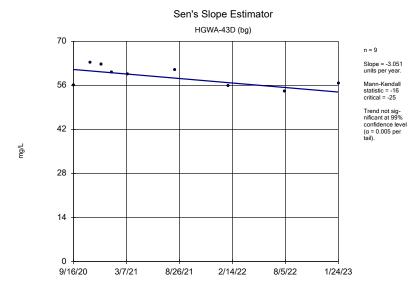
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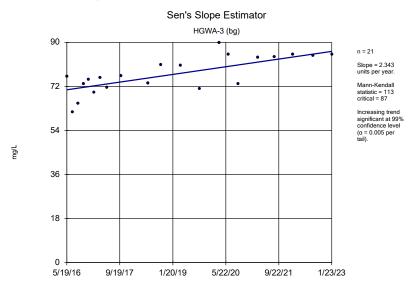
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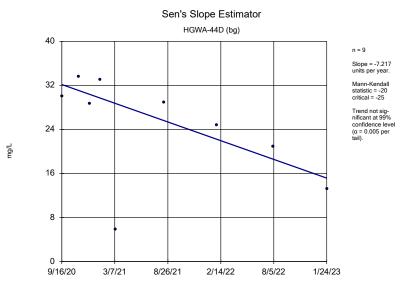
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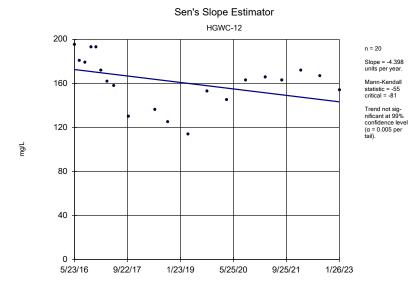
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Plant Hammond Client: Southern Company Data: Hammond AP-1



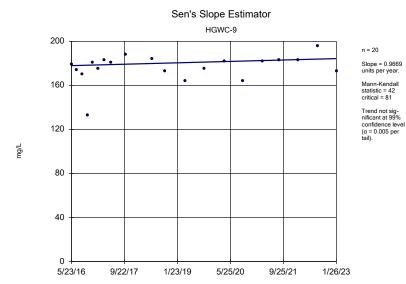
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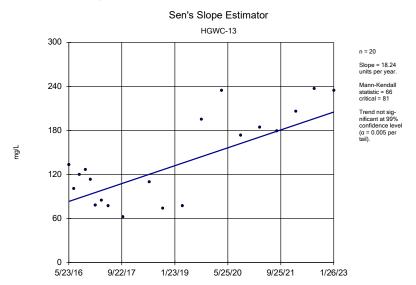
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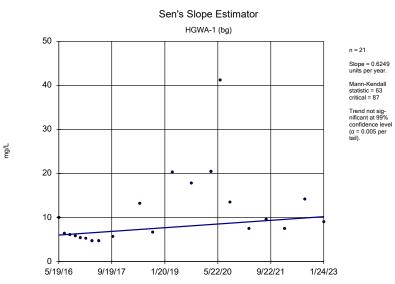
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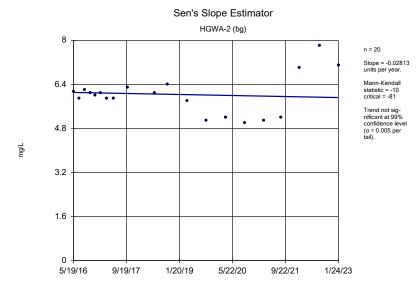
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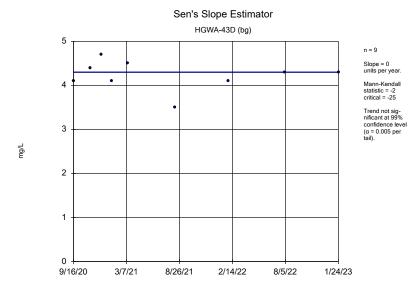
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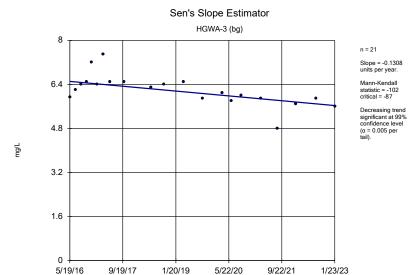
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Plant Hammond Client: Southern Company Data: Hammond AP-1



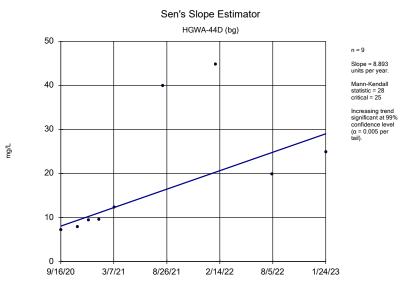
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Plant Hammond Client: Southern Company Data: Hammond AP-1



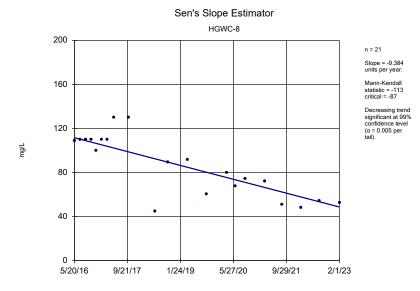
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Plant Hammond Client: Southern Company Data: Hammond AP-1



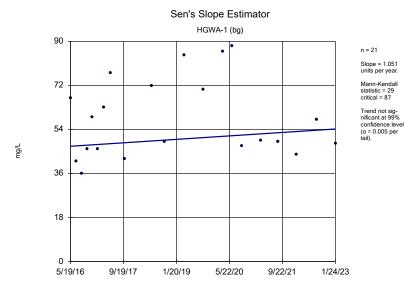
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Plant Hammond Client: Southern Company Data: Hammond AP-1



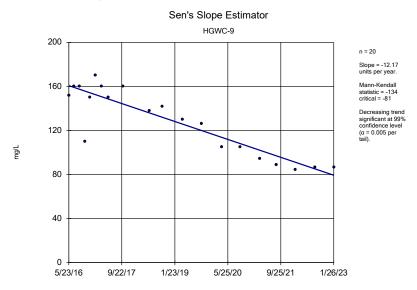
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Plant Hammond Client: Southern Company Data: Hammond AP-1



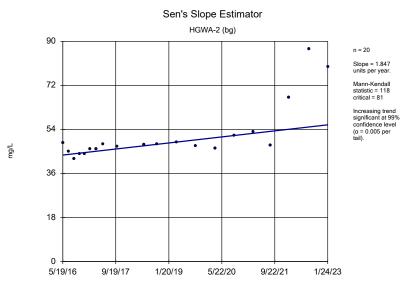
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Plant Hammond Client: Southern Company Data: Hammond AP-1



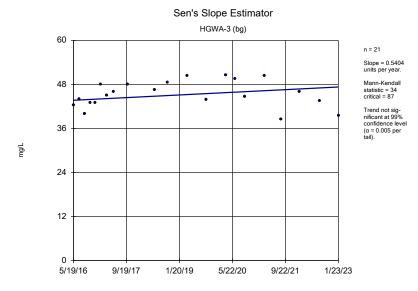
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Plant Hammond Client: Southern Company Data: Hammond AP-1



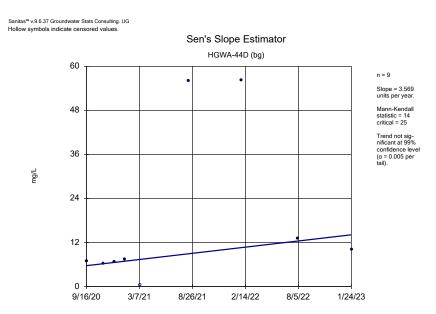
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Plant Hammond Client: Southern Company Data: Hammond AP-1



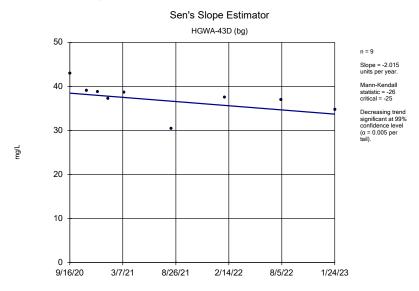
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Plant Hammond Client: Southern Company Data: Hammond AP-1

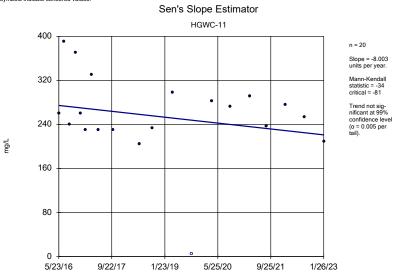


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Plant Hammond Client: Southern Company Data: Hammond AP-1

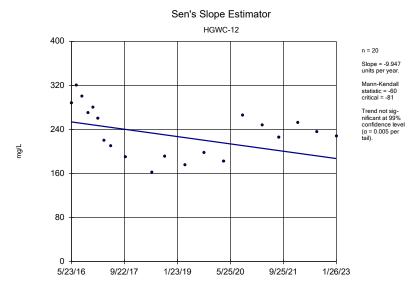


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Plant Hammond Client: Southern Company Data: Hammond AP-1

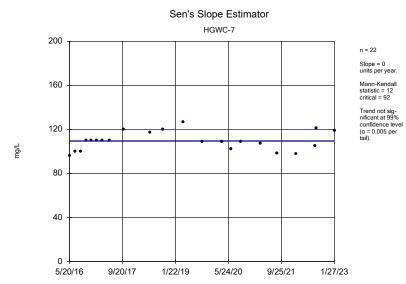




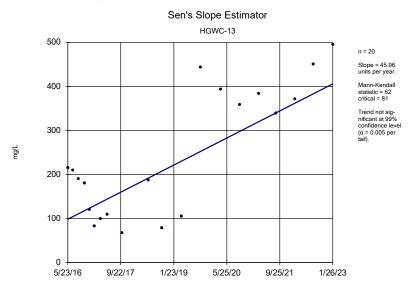
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Plant Hammond Client: Southern Company Data: Hammond AP-1



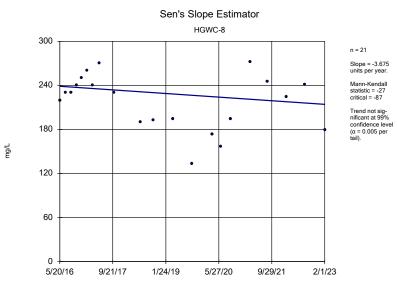
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Plant Hammond Client: Southern Company Data: Hammond AP-1



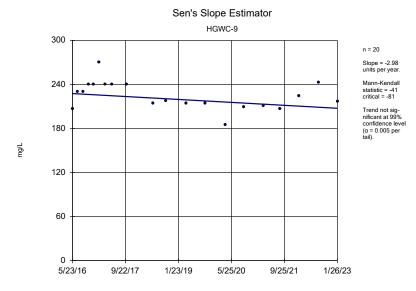
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Plant Hammond Client: Southern Company Data: Hammond AP-1



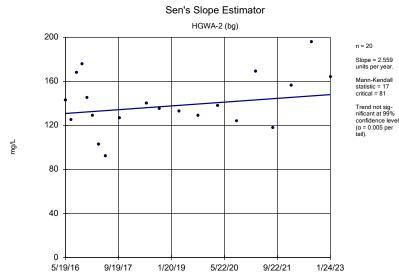
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Plant Hammond Client: Southern Company Data: Hammond AP-1



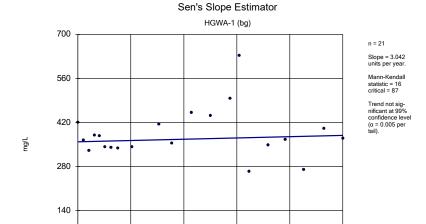
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Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Sulfate Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

5/22/20

9/22/21

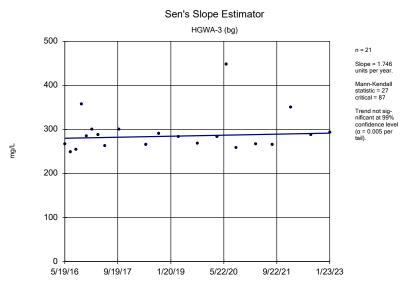
1/24/23

1/20/19

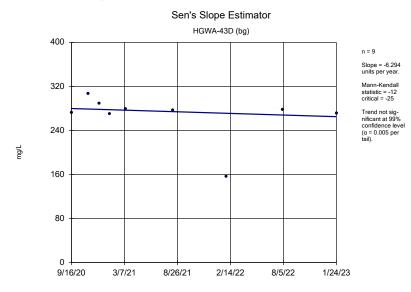
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

5/19/16

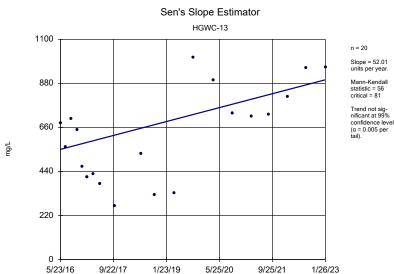
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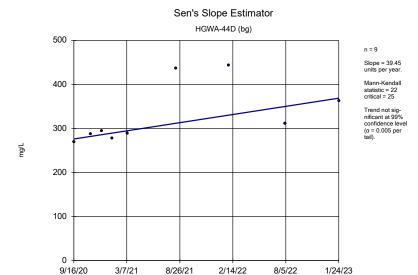
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Plant Hammond Client: Southern Company Data: Hammond AP-1



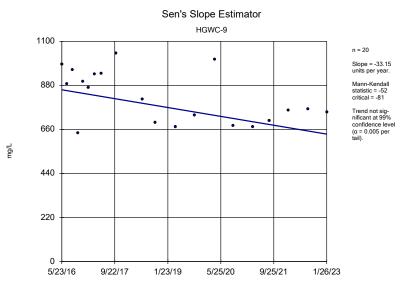
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Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Total Dissolved Solids Analysis Run 4/14/2023 12:41 PM View: Appendix III - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

FIGURE F.

Upper Tolerance Limits Summary Table

Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 12:49 PM %NDs ND Adj. Constituent <u>Well</u> Upper Lim. Lower Lim. <u>Date</u> Observ. Sig.Bg N Bg Mean Std. Dev. Transform Alpha Method 0.003 n/a 83 80.72 n/a 0.01416 NP Inter(NDs) Antimony (mg/L) n/a n/a n/a n/a n/a n/a n/a 0.005 n/a 89 66.29 n/a 0.01041 NP Inter(NDs) Arsenic (mg/L) n/a n/a n/a n/a n/a n/a n/a Barium (mg/L) 0.46 n/a 89 0 n/a 0.01041 NP Inter(normality) n/a n/a n/a n/a n/a n/a n/a Beryllium (mg/L) n/a 0.0005 n/a n/a n/a 83 78.31 n/a 0.01416 NP Inter(NDs) 0.0005 0.01416 NP Inter(NDs) Cadmium (mg/L) n/a n/a n/a n/a n/a 83 n/a n/a 85.54 n/a n/a 0.01416 NP Inter(NDs) Chromium (mg/L) n/a 0.0079 n/a n/a n/a 83 83.13 n/a n/a Cobalt (mg/L) 0.038 72.29 n/a 0.01416 NP Inter(NDs) n/a n/a n/a n/a 83 n/a n/a n/a n/a Combined Radium 226 + 228 (pCi/L) 4.36 n/a n/a 89 0.01041 NP Inter(normality) 0.008054 NP Inter(normality) Fluoride (mg/L) 1.3 28.72 n/a n/a n/a n/a n/a n/a 94 n/a n/a n/a Lead (mg/L) n/a 0.001 n/a 80 68.75 n/a 0.01652 NP Inter(NDs) 0.064 0.01041 NP Inter(normality) Lithium (mg/L) n/a 89 n/a 19.1 n/a n/a n/a n/a n/a n/a n/a Mercury (mg/L) 0.0002 n/a 61 96.72 n/a 0.04377 NP Inter(NDs) 0.009394 NP Inter(NDs) Molybdenum (mg/L) 0.01 78.02 n/a n/a n/a n/a n/a n/a 91 n/a n/a n/a Selenium (mg/L) n/a 0.005 n/a 89 97.75 n/a 0.01041 NP Inter(NDs) Thallium (mg/L) 0.001 98.88 n/a 0.01041 NP Inter(NDs) n/a n/a n/a n/a n/a 89 n/a n/a n/a

FIGURE G.

PLANT HAMMOND AP-1 GWPS										
		CCR-Rule	Background							
Constituent Name	MCL	Specified	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		1.3	4						
Lead, Total (mg/L)	n/a	0.015	0.001	0.015						
Lithium, Total (mg/L)	n/a	0.04	0.064	0.064						
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 indidcates background is higher than MCL or CCR-Rule

^{*}MCL = Maximum Contaminant Level

^{*}CCR = Coal Combustion Residuals

^{*}GWPS = Groundwater Protection Statard

FIGURE H.

Confidence Intervals - Significant Results

Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:13 PM Constituent Well Upper Lim. Lower Lim. Compliance Sig. N Mean Std. Dev. %NDs ND Adj. <u>Transform</u> <u>Alpha</u> <u>Method</u> Arsenic (mg/L) HGWC-13 0.4311 0.3628 0.01 Yes 23 0.397 0.06529 0 None No 0.01 Param. HGWC-8 0.4856 0.4241 0.1 0.06596 0 None Molybdenum (mg/L) Yes 24 0.4513 0.01 Param. x^2

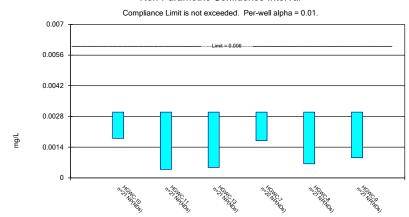
								1 (Court					
	Pla	nt Hammond	Client: Southerr	Company	Data:	Ham	mond AP-1	Printed 4/14/20)23, 1:13	3 PM			
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	HGWC-10	0.003	0.0018	0.006	No	21	0.002831	0.000564	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-11	0.003	0.00038	0.006	No	21	0.002875	0.0005717	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-13	0.003	0.00047	0.006	No	21	0.00213	0.001263	66.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-7	0.003	0.0017	0.006	No	22	0.00282	0.0006192	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-8	0.003	0.00064	0.006	No	21	0.002888	0.000515	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	HGWC-9	0.003	0.00092	0.006	No	21	0.002528	0.001002	80.95	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-24D	0.003	0.0017	0.006	No	12	0.002892	0.0003753	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-26D	0.003	0.002	0.006	No	12	0.002775	0.0005463	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-27D	0.003	0.0003	0.006	No	12	0.001652	0.001409	50	None	No	0.01	NP (normality)
Antimony (mg/L)	MW-28D	0.003	0.0019	0.006	No	12	0.002908	0.0003175	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-29	0.003	0.00094	0.006	No	12	0.002828	0.0005947	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-6	0.003	0.0014	0.006	No	12	0.002867	0.0004619	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	MW-7	0.003	0.00086	0.006	No	12	0.002398	0.0009593	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-11	0.005	0.0018	0.01	No	23	0.003554	0.001724	47.83	None	No	0.01	NP (normality)
Arsenic (mg/L)	HGWC-12	0.004183	0.002886	0.01	No	23	0.003535	0.00124	8.696	None	No	0.01	Param.
Arsenic (mg/L)	HGWC-13	0.4311	0.3628	0.01	Yes	23	0.397	0.06529	0	None	No	0.01	Param.
Arsenic (mg/L)	HGWC-7	0.005	0.0019	0.01	No	24	0.004871	0.0006328	95.83	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-8	0.005	0.002	0.01	No	23	0.00487	0.0006255	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	HGWC-9	0.005	0.0021	0.01	No	23	0.004305	0.001573	82.61	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-19	0.005	0.00045	0.01	No	12	0.004621	0.001313	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-20	0.005	0.00094	0.01	No	12	0.004052	0.001767	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-25D	0.005	0.001	0.01	No	12	0.003729	0.001895	66.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-26D	0.005	0.0008	0.01	No	12	0.004008	0.001811	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-27D	0.005	0.00069	0.01	No	12	0.003907	0.001984	75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-28D	0.005	0.0011	0.01	No	12	0.004675	0.001126	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-29	0.005	0.00037	0.01	No	12	0.004614	0.001337	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-5	0.005	0.0013	0.01	No	12	0.004692	0.001068	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	MW-6	0.005	0.0034	0.01	No	12	0.004867	0.0004619	91.67	None	No	0.01	NP (NDs)
Barium (mg/L)	HGWC-10	0.08399	0.06212	2	No	23	0.07306	0.02091	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-11	0.05051	0.03278	2	No	23	0.04283	0.01895	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	HGWC-12	0.123	0.083	2	No	23	0.09896	0.02104	0	None	No	0.01	NP (normality)
Barium (mg/L)	HGWC-13	0.08825	0.06754	2	No	23	0.0779	0.0198	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-7	0.07378	0.06797	2	No	24	0.07088	0.005696	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-8	0.07372	0.06219	2	No	23	0.06796	0.01102	0	None	No	0.01	Param.
Barium (mg/L)	HGWC-9	0.1187	0.1011	2	No	23	0.1099	0.01686	0	None	No	0.01	Param.
Barium (mg/L)	MW-19	0.06184	0.04583	2	No	12	0.05383	0.01021	0	None	No	0.01	Param.
Barium (mg/L)	MW-20	0.09568	0.08599	2	No	12	0.09083	0.006177	0	None	No	0.01	Param.
Barium (mg/L)	MW-24D	0.081	0.048	2	No	12	0.0605	0.02098	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-25D	0.596	0.4157	2	No	12	0.5058	0.1149	0	None	No	0.01	Param.
Barium (mg/L)	MW-26D	0.1217	0.07335	2	No	12	0.0975	0.03078	0	None	No	0.01	Param.
Barium (mg/L)	MW-27D	1.2	0.94	2	No	12	1.056	0.1609	0	None	No	0.01	NP (normality)
Barium (mg/L)	MW-28D	0.7309	0.3408	2	No	12	0.5358	0.2486	0	None	No	0.01	Param.
Barium (mg/L)	MW-29	0.08349	0.07551	2	No	12	0.0795	0.00509	0	None	No	0.01	Param.
Barium (mg/L)	MW-5	0.05211	0.04456	2	No	12	0.04833	0.004812	0	None	No	0.01	Param.
Barium (mg/L)	MW-6	0.09038	0.07995	2	No	12	0.08517	0.006645	0	None	No	0.01	Param.
Barium (mg/L)	MW-7	0.0617	0.04896	2	No	12	0.05533	0.008117	0	None	No	0.01	Param.
Beryllium (mg/L)	HGWC-11	0.0005	0.00012	0.004	No	21	0.0003713	0.0001875	66.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-13	0.0005	0.000097	0.004	No	21	0.0003254	0.0002069	57.14	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-7	0.0005	0.00019	0.004	No	22	0.0004476	0.0001363	86.36	None	No	0.01	NP (NDs)
Beryllium (mg/L)	HGWC-8	0.003	0.000074	0.004	No	21	0.001885	0.001456	61.9	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-19	0.0005	0.000058	0.004	No	12	0.0004632	0.0001276	91.67	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-28D	0.0005	0.000054	0.004	No	12	0.0003952	0.0001909	75	None	No	0.01	NP (NDs)
Beryllium (mg/L)	MW-7	0.0005	0.000051	0.004	No	12	0.0004626	0.0001296	91.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-10	0.0005	0.000115	0.005	No	21	0.0003721	0.0001864	66.67	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-11	0.0005	0.0001	0.005	No	21	0.0004427	0.0001439	85.71	None	No	0.01	NP (NDs)

Confidence intervals - All Nesults													
	PI	ant Hammond	Client: Souther	n Company	Data:	Han	nmond AP-1	Printed 4/14/2	023, 1:1:	3 PM			
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	Mean	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Cadmium (mg/L)	HGWC-12	0.0005	0.0003	0.005	No	21	0.00044	0.0001313	80.95	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-7	0.0005	0.0002	0.005	No	22	0.0004268	0.0001394	77.27	None	No	0.01	NP (NDs)
Cadmium (mg/L)	HGWC-8	0.0003	0.00017	0.005	No	21	0.0002924	0.0003358	4.762	None	No	0.01	NP (normality)
Cadmium (mg/L)	HGWC-9	0.0005	0.0002	0.005	No	21	0.0004462	0.0001368	85.71	None	No	0.01	NP (NDs)
Cadmium (mg/L)	MW-19	0.0003417	0.0001502	0.005	No	12	0.0003508	0.0002735	25	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	HGWC-10	0.02	0.0012	0.1	No	21	0.005348	0.00355	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-11	0.005	0.0012	0.1	No	21	0.004386	0.001547	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-12	0.005	0.0025	0.1	No	21	0.004467	0.001382	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-13	0.005	0.00059	0.1	No	21	0.00436	0.001608	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-7	0.005	0.0021	0.1	No	22	0.006984	0.0144	68.18	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-8	0.005	0.0015	0.1	No	21	0.004215	0.001666	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	HGWC-9	0.005	0.0013	0.1	No	21	0.004219	0.001657	80.95	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-19	0.005	0.00059	0.1	No	12	0.003035	0.002099	50	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-20	0.005	0.00068	0.1	No	12	0.003908	0.001975	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-24D	0.005	0.0017	0.1	No	12	0.004343	0.001558	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-25D	0.005	0.0012	0.1	No	12	0.004317	0.001599	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-26D	0.005	0.001	0.1	No	12	0.003505	0.001913	58.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-27D	0.005	0.00082	0.1	No		0.004293	0.001651	83.33		No	0.01	NP (NDs)
Chromium (mg/L)	MW-28D	0.005	0.00081	0.1	No		0.003137	0.002009	50	None	No	0.01	NP (normality)
Chromium (mg/L)	MW-29	0.005	0.001	0.1	No		0.004667	0.001155	91.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-5	0.003948	0.002236	0.1	No		0.003092	0.001091	0	None	No	0.01	Param.
Chromium (mg/L)	MW-6	0.005	0.00059	0.1	No		0.003952	0.001908	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	MW-7	0.005	0.0015	0.1	No		0.002292	0.001295	16.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-10	0.005	0.0009	0.038	No		0.00379	0.001963		None	No	0.01	NP (NDs)
Cobalt (mg/L)	HGWC-11	0.005	0.0014	0.038	No		0.003103	0.001799		None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-12	0.0018	0.0012	0.038	No		0.00151	0.0004265		None	No	0.01	NP (normality)
Cobalt (mg/L)	HGWC-13	0.004201	0.002611	0.038	No		0.003686	0.002213		None	ln(x)	0.01	Param.
Cobalt (mg/L)	HGWC-7	0.00147	0.0007471	0.038	No		0.001179	0.002216		None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	HGWC-8	0.002242	0.0007471	0.038	No		0.002094	0.0007410		None	No No	0.01	Param.
Cobalt (mg/L)	HGWC-9	0.002242	0.00051	0.038	No		0.002094	0.0002033		None	No	0.01	NP (normality)
Cobalt (mg/L)	MW-19	0.04167	0.0295	0.038	No		0.03558	0.007751	0	None	No	0.01	Param.
	MW-20	0.005	0.0293	0.038	No		0.003558	0.007731	91.67		No	0.01	NP (NDs)
Cobalt (mg/L)	MW-24D	0.005	0.00011	0.038	No		0.004675	0.001126	75	None		0.01	NP (NDs)
Cobalt (mg/L) Cobalt (mg/L)	MW-26D	0.005	0.00036	0.038	No		0.003909	0.001962		None	No No	0.01	NP (NDs) NP (normality)
									75				, .,
Cobalt (mg/L)	MW-27D	0.005	0.0004	0.038	No		0.003828	0.002121		None	No	0.01	NP (NDs)
Cobalt (mg/L)	MW-28D	0.005	0.00093	0.038	No		0.004661	0.001175		None	No No	0.01	NP (NDs)
Cobalt (mg/L)	MW-29	0.001228	0.0007098	0.038	No		0.0009692	0.0003305	0	None	No No	0.01	Param.
Cobalt (mg/L)	MW-6	0.005	0.00041	0.038	No		0.001263	0.001752	16.67		No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	HGWC-10	1.067	0.604	5	No		0.8353	0.4423	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-11	1.134	0.6526	5	No		0.8934	0.4603	0	None	No No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-12	1.031	0.5721	5	No		0.8014	0.4385	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-13	0.9792	0.5965	5	No		0.7879	0.3658	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-7	0.8409	0.4167	5	No		0.6782	0.4762	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-8	0.9538	0.656	5	No		0.8049	0.2847	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	HGWC-9	0.8913	0.5289	5	No		0.7101	0.3464	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-19	0.9587	0.412	5	No		0.6853	0.3484	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	1.002	0.3888	5	No		0.6953	0.3906	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24D	0.5788	0.1374	5	No		0.3767	0.3495	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25D	1.279	0.8145	5	No		1.047	0.296	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26D	0.9284	0.1186	5	No		0.5235	0.516	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-27D	1.544	0.8213	5	No		1.196	0.5082	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-28D	1.385	0.6077	5	No		0.9962	0.4951	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-29	0.9393	0.3837	5	No		0.6615	0.354	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5	0.9737	0.5478	5	No		0.7608	0.2714	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	1.015	0.4421	5	No	12	0.7613	0.4499	0	None	ln(x)	0.01	Param.

Comidence intervals - All Nesults													
	Pla	int Hammond	Client: Southerr	n Company	Data:	Han	nmond AP-1	Printed 4/14/20	023, 1:13	3 PM			
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	<u>N</u>	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Combined Radium 226 + 228 (pCi/L)	MW-7	1.18	0.5086	5	No	12	0.8444	0.428	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-10	0.1861	0.08031	4	No	24	0.174	0.1317	16.67	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	HGWC-11	0.3995	0.2471	4	No	24	0.3355	0.1595	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	HGWC-12	0.34	0.17	4	No	24	0.3084	0.2332	4.167	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-13	0.687	0.5004	4	No	24	0.5937	0.1829	0	None	No	0.01	Param.
Fluoride (mg/L)	HGWC-7	0.15	0.084	4	No	26	0.145	0.1052	7.692	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-8	0.63	0.45	4	No	25	0.556	0.1706	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	HGWC-9	0.2386	0.1022	4	No	24	0.1895	0.1498	8.333	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-19	0.2612	0.1025	4	No	12	0.1892	0.1289	0	None	x^(1/3)	0.01	Param.
Fluoride (mg/L)	MW-20	0.1	0.074	4	No	12	0.09392	0.01119	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-24D	0.09451	0.04923	4	No	12	0.0855	0.03602	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	MW-25D	1.7	1.4	4	No	12	1.625	0.2006	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-26D	0.1259	0.05694	4	No	12	0.09142	0.04394	8.333	None	No	0.01	Param.
Fluoride (mg/L)	MW-27D	0.3	0.22	4	No	12	0.2683	0.05219	0	None	No	0.01	NP (normality)
Fluoride (mg/L)	MW-28D	0.2415	0.1635	4	No	12	0.2025	0.04975	0	None	No	0.01	Param.
Fluoride (mg/L)	MW-29	0.18	0.068	4	No	12	0.09433	0.03293	58.33	None	No	0.01	NP (NDs)
Fluoride (mg/L)	MW-5	0.0865	0.05882	4	No	12	0.0795	0.01968	16.67	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	MW-6	0.1052	0.05616	4	No		0.09983	0.05	16.67	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	MW-7	0.17	0.069	4	No		0.09808	0.0268	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-10	0.001	0.00005	0.015	No		0.00095	0.0002179	94.74	•	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-11	0.001	0.00021	0.015	No		0.0007399	0.0003974		None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-12	0.001	0.000096	0.015	No		0.0007757	0.0003928		None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-13	0.001	0.00015	0.015	No		0.0007258	0.0004152		None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-7	0.001	0.0001	0.015	No		0.0006997	0.0004322	55	None	No	0.01	NP (NDs)
Lead (mg/L)	HGWC-8	0.001	0.0002	0.015	No		0.0008172	0.0003643	78.95		No	0.01	NP (NDs)
Lead (mg/L)	HGWC-9	0.001	0.00014	0.015	No		0.0006481	0.000426	57.89		No	0.01	NP (NDs)
Lead (mg/L)	MW-19	0.001	0.00017	0.015	No		0.0006304	0.0004775	60	None	No		NP (NDs)
Lead (mg/L)	MW-20	0.001	0.0001	0.015	No		0.0006439	0.0004773	60	None	No		NP (NDs)
Lead (mg/L)	MW-24D	0.001	0.0001	0.015	No		0.0005456	0.0004809	50	None	No		NP (normality)
Lead (mg/L)	MW-26D	0.001	0.0001	0.015	No		0.0003430	0.0003837	80	None	No		NP (NDs)
	MW-27D	0.001	0.0001	0.015	No		0.000818	0.0003837	80	None			NP (NDs)
Lead (mg/L)	MW-28D	0.001	0.00043	0.015	No		0.0007022	0.0003117	50	None	No		, ,
Lead (mg/L)			0.00018					0.0003965		None	No		NP (normality)
Lead (mg/L)	MW-29 MW-5	0.001 0.001	0.0009	0.015 0.015	No No		0.0007252 0.0009047	0.0004427	70 90	None	No No		NP (NDs) NP (NDs)
Lead (mg/L)			0.0001		No		0.0009047	0.0003014	60	None	No		, ,
Lead (mg/L)	MW-6	0.001		0.015									NP (NDs)
Lead (mg/L)	MW-7	0.001	0.001	0.015	No No		0.0009062	0.0002966	90	None	No		NP (NDs)
Lithium (mg/L)	HGWC-12	0.01048	0.008019	0.064	No		0.009248	0.00235	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-13	0.03735	0.03093	0.064	No		0.03414	0.006137	0	None	No	0.01	Param.
Lithium (mg/L)	HGWC-7	0.0026	0.002	0.064	No		0.002958	0.002614		None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-8	0.0029	0.0025	0.064	No		0.003196	0.002599		None	No	0.01	NP (normality)
Lithium (mg/L)	HGWC-9	0.0044	0.004	0.064	No		0.004596	0.002319		None	No	0.01	NP (normality)
Lithium (mg/L)	MW-19	0.01297	0.008428	0.064	No		0.01046	0.003347	0	None	x^2	0.01	Param.
Lithium (mg/L)	MW-20	0.03	0.00082	0.064	No		0.008322	0.01307	25	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-24D	0.002843	0.00254	0.064	No		0.002692	0.0001929	0	None	No	0.01	Param.
Lithium (mg/L)	MW-25D	0.0502	0.0428	0.064	No		0.0465	0.004719	0	None	No	0.01	Param.
Lithium (mg/L)	MW-26D	0.0041	0.0032	0.064	No		0.005775	0.007636	0	None	No	0.01	NP (normality)
Lithium (mg/L)	MW-27D	0.008546	0.006254	0.064	No		0.0074	0.00146	0	None	No	0.01	Param.
Lithium (mg/L)	MW-28D	0.01282	0.007277	0.064	No		0.01005	0.003534	0	None	No	0.01	Param.
Lithium (mg/L)	MW-29	0.002354	0.00203	0.064	No		0.002192	0.0002065	0	None	No	0.01	Param.
Mercury (mg/L)	HGWC-10	0.0002	0.00005	0.002	No		0.00019	0.00003873		None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-11	0.0002	0.00005	0.002	No		0.00019	0.00003873		None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-13	0.0002	0.00005	0.002	No		0.0001793	0.00005457		None	No	0.01	NP (NDs)
Mercury (mg/L)	HGWC-9	0.0002	0.00004	0.002	No		0.0001893	0.00004131		None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-10	0.01	0.0014	0.1	No	23	0.006591	0.004354	60.87	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	HGWC-11	0.02635	0.01705	0.1	No	23	0.0217	0.008891	0	None	No	0.01	Param.

	Pla	nt Hammond	Client: Southern	Company	Data: I	Ham	mond AP-1	Printed 4/14/20	23, 1:1:	3 PM			
Constituent	<u>Well</u>	Upper Lim.	Lower Lim.	Compliance	Sig.	N	<u>Mean</u>	Std. Dev.	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Molybdenum (mg/L)	HGWC-12	0.04914	0.04557	0.1	No	23	0.04735	0.003411	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-13	0.03523	0.03001	0.1	No	23	0.03262	0.004987	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-7	0.04271	0.03586	0.1	No	25	0.03928	0.006866	0	None	No	0.01	Param.
Molybdenum (mg/L)	HGWC-8	0.4856	0.4241	0.1	Yes	24	0.4513	0.06596	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	HGWC-9	0.033	0.0236	0.1	No	23	0.04746	0.09377	0	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-19	0.05279	0.02587	0.1	No	12	0.03933	0.01715	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24D	0.01	0.0008	0.1	No	12	0.00392	0.004496	33.33	None	No	0.01	NP (normality)
Molybdenum (mg/L)	MW-25D	0.01	0.0022	0.1	No	12	0.008595	0.003292	83.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	MW-26D	0.02425	0.01175	0.1	No	13	0.018	0.008412	7.692	None	No	0.01	Param.
Molybdenum (mg/L)	MW-27D	0.003636	0.001403	0.1	No	12	0.002583	0.001576	8.333	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MW-28D	0.01969	0.007547	0.1	No	12	0.01362	0.007735	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-29	0.003287	0.002479	0.1	No	12	0.002883	0.0005149	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.002699	0.002284	0.1	No	12	0.002492	0.0002644	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-7	0.01	0.0014	0.1	No	12	0.005283	0.004211	41.67	None	No	0.01	NP (normality)
Selenium (mg/L)	HGWC-10	0.005	0.0031	0.05	No	23	0.004174	0.001266	65.22	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-11	0.01395	0.006463	0.05	No	23	0.0102	0.007153	0	None	No	0.01	Param.
Selenium (mg/L)	HGWC-12	0.005	0.0011	0.05	No	23	0.00483	0.0008132	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-13	0.005	0.0016	0.05	No	23	0.004643	0.001203	91.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-8	0.005	0.0024	0.05	No	23	0.004887	0.0005421	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	HGWC-9	0.005	0.0037	0.05	No	23	0.004943	0.0002711	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	MW-19	0.00488	0.002282	0.05	No	12	0.00395	0.001709	16.67	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	MW-27D	0.005	0.00012	0.05	No	12	0.004593	0.001409	91.67	Kaplan-Meier	No	0.01	NP (NDs)
Selenium (mg/L)	MW-5	0.003736	0.002447	0.05	No	12	0.003092	0.0008218	0	None	No	0.01	Param.
Selenium (mg/L)	MW-7	0.005	0.0014	0.05	No	12	0.003383	0.00172	50	None	No	0.01	NP (normality)
Thallium (mg/L)	HGWC-11	0.001	0.00008	0.002	No	23	0.00092	0.0002651	91.3	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-12	0.001	0.0002	0.002	No	23	0.0007663	0.0004029	73.91	None	No	0.01	NP (NDs)
Thallium (mg/L)	HGWC-13	0.0004273	0.0003377	0.002	No	23	0.0003825	0.00008561	8.696	None	No	0.01	Param.
Thallium (mg/L)	HGWC-8	0.001	0.00011	0.002	No	23	0.0007247	0.0004261	69.57	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-19	0.001	0.00023	0.002	No	12	0.0005025	0.0003683	33.33	None	No	0.01	NP (normality)
Thallium (mg/L)	MW-28D	0.001	0.000092	0.002	No	12	0.0009243	0.0002621	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-29	0.001	0.000064	0.002	No	12	0.000922	0.0002702	91.67	None	No	0.01	NP (NDs)
Thallium (mg/L)	MW-6	0.001	0.000082	0.002	No	12	0.0009235	0.000265	91.67	None	No	0.01	NP (NDs)

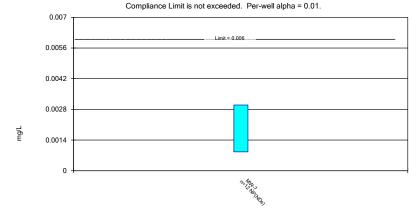
Non-Parametric Confidence Interval



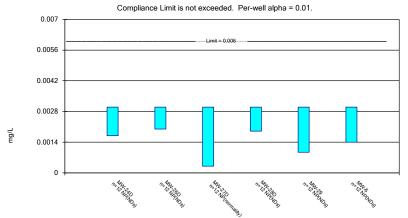
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Plant Hammond Client: Southern Company Data: Hammond AP-1

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Non-Parametric Confidence Interval



Non-Parametric Confidence Interval

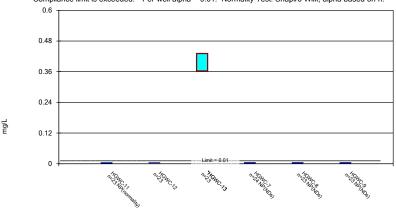


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Plant Hammond Client: Southern Company Data: Hammond AP-1

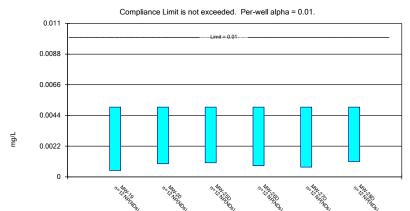
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Parametric and Non-Parametric (NP) Confidence Interval

Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



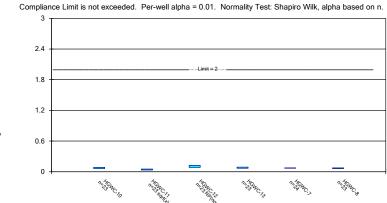
Non-Parametric Confidence Interval



Constituent: Arsenic Analysis Run 4/14/2023 1:07 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

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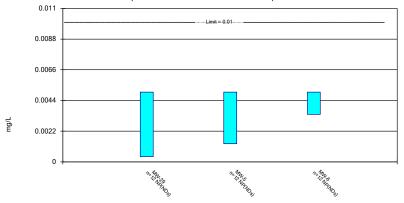
Parametric and Non-Parametric (NP) Confidence Interval



Constituent: Barium Analysis Run 4/14/2023 1:07 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

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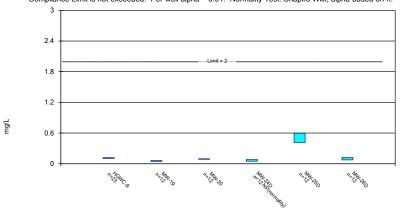


Constituent: Arsenic Analysis Run 4/14/2023 1:07 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

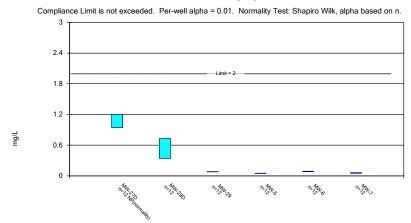
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

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.



Parametric and Non-Parametric (NP) Confidence Interval



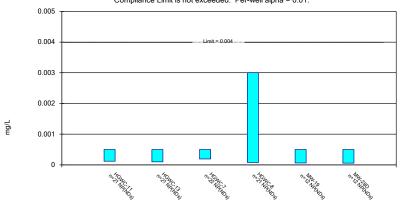
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Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval Compliance Limit is not exceeded. Per-well alpha = 0.01. 0.004 0.003 0.002 0.001

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

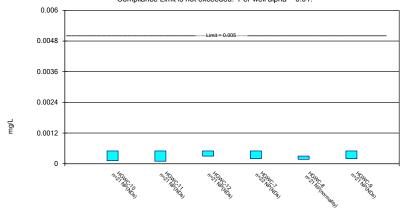


Constituent: Beryllium Analysis Run 4/14/2023 1:07 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

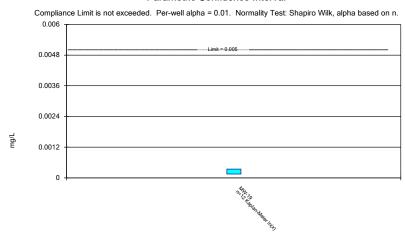
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



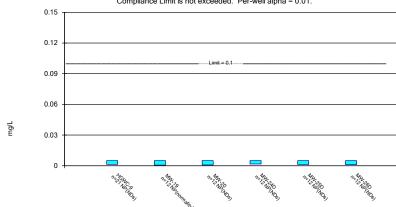
Parametric Confidence Interval



Constituent: Cadmium Analysis Run 4/14/2023 1:07 PM View: Appendix IV Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

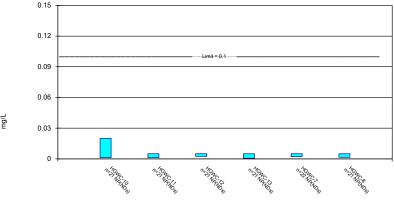
Non-Parametric Confidence Interval Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 4/14/2023 1:07 PM View: Appendix IV Plant Hammond Client: Southern Company Data: Hammond AP-1

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 4/14/2023 1:07 PM View: Appendix IV Plant Hammond Client: Southern Company Data: Hammond AP-1

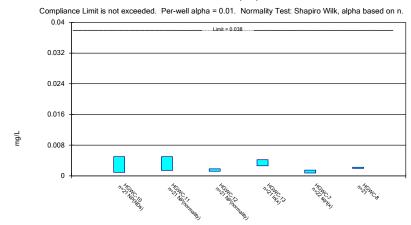
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

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. 0.12 0.09 0.06 0.03

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

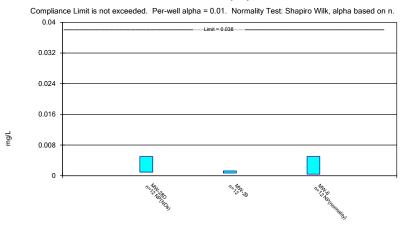
Parametric and Non-Parametric (NP) Confidence Interval



Constituent: Cobalt Analysis Run 4/14/2023 1:07 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

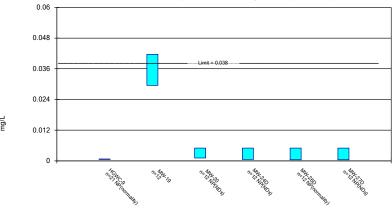
Parametric and Non-Parametric (NP) Confidence Interval



Constituent: Cobalt Analysis Run 4/14/2023 1:07 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

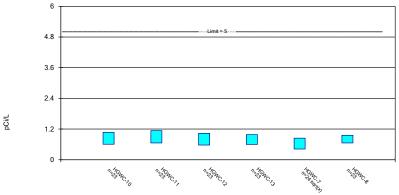


Constituent: Cobalt Analysis Run 4/14/2023 1:07 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



pCi/L

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

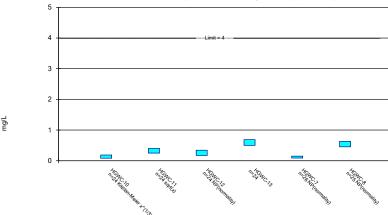
6
4.8
3.6
2.4

Constituent: Combined Radium 226 + 228 Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

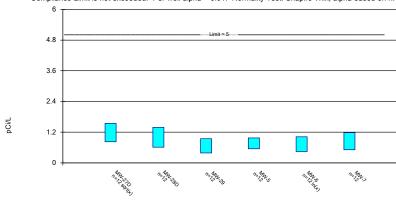
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/14/2023 1:08 PM 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.



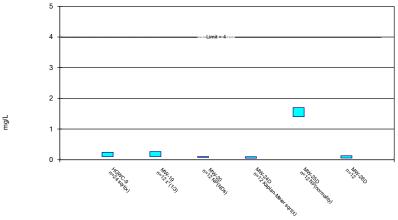
Constituent: Combined Radium 226 + 228 Analysis Run 4/14/2023 1:08 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

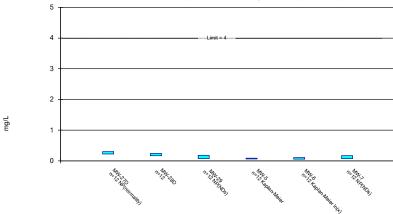
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



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.

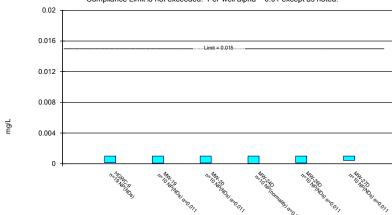


Constituent: Fluoride Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

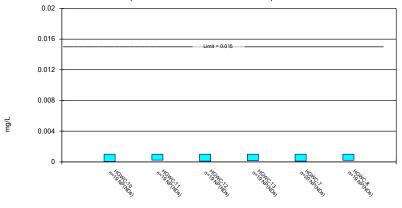
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 4/14/2023 1:08 PM 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.

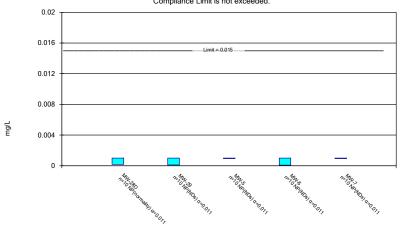


Constituent: Lead Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

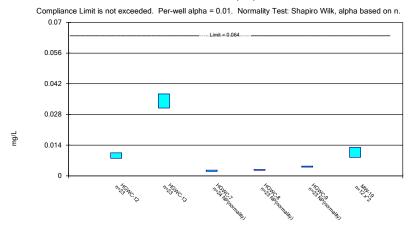
Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

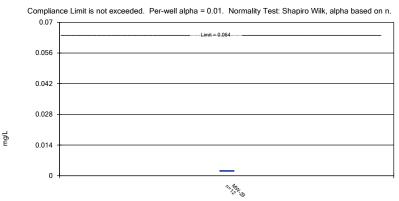
Parametric and Non-Parametric (NP) Confidence Interval



Constituent: Lithium Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

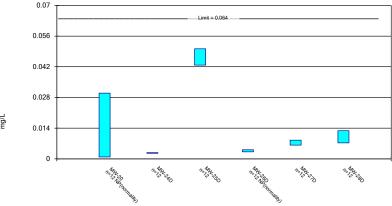
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric Confidence Interval



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.

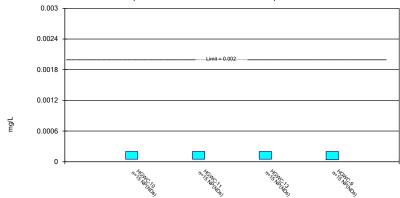


Constituent: Lithium Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

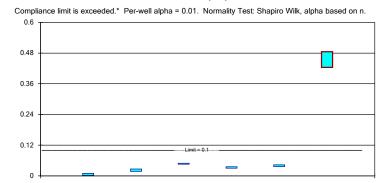
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



mg/L

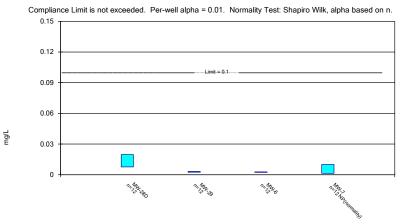
Parametric and Non-Parametric (NP) Confidence Interval



Constituent: Molybdenum Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

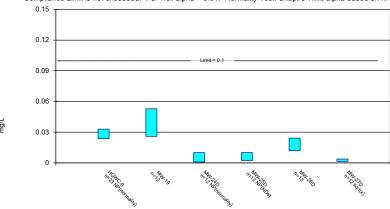
Parametric and Non-Parametric (NP) Confidence Interval



Constituent: Molybdenum Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Parametric and Non-Parametric (NP) Confidence Interval

 $\label{eq:compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.$

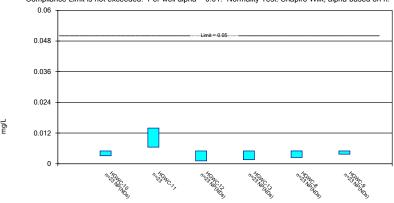


Constituent: Molybdenum Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

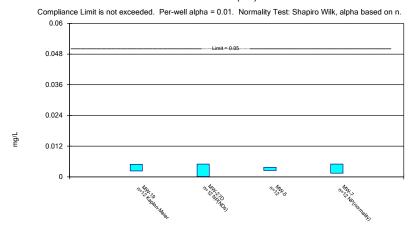
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

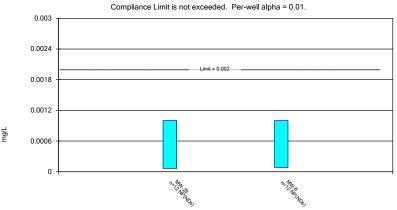
Parametric and Non-Parametric (NP) Confidence Interval



Constituent: Selenium Analysis Run 4/14/2023 1:08 PM View: Appendix IV
Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

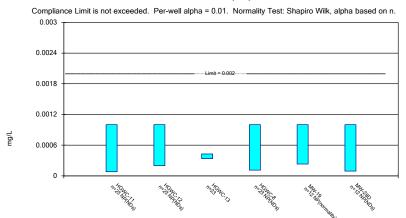


Constituent: Thallium Analysis Run 4/14/2023 1:08 PM View: Appendix IV

Plant Hammond Client: Southern Company Data: Hammond AP-1

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval



	HGWC-10	HGWC-11	HGWC-13	HGWC-7	HGWC-8	HGWC-9
5/20/2016				<0.003	<0.003	
5/23/2016	<0.003	<0.003	<0.003			<0.003
7/12/2016	<0.003	<0.003	0.0003 (J)	<0.003	<0.003	<0.003
9/1/2016	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
10/20/2016				<0.003	<0.003	<0.003
10/24/2016	<0.003	<0.003	<0.003			
12/6/2016				<0.003	<0.003	<0.003
12/7/2016	<0.003	<0.003	<0.003			
1/25/2017				<0.003	<0.003	
1/26/2017	<0.003	<0.003	<0.003			<0.003
3/21/2017				<0.003	<0.003	
3/22/2017	<0.003	<0.003	<0.003			<0.003
5/23/2017				<0.003	<0.003	<0.003
5/24/2017	<0.003	<0.003	<0.003			
4/3/2018				<0.003	<0.003	<0.003
4/4/2018	<0.003	<0.003	<0.003			
3/12/2019					<0.003	
3/13/2019	<0.003	<0.003	<0.003	<0.003		<0.003
4/2/2019				<0.003		
4/3/2019	<0.003	<0.003			<0.003	<0.003
4/5/2019			0.00021 (J)			
9/24/2019					<0.003	
9/25/2019				<0.003		
9/26/2019			<0.003			
9/27/2019	<0.003	<0.003				<0.003
3/3/2020	<0.003	<0.003			<0.003	
3/4/2020			0.00061 (J)	<0.003		0.00032 (J)
3/27/2020				<0.003	<0.003	
3/30/2020			0.00036 (J)			
3/31/2020		<0.003				0.00042 (J)
4/1/2020	<0.003					
9/16/2020	<0.003			0.00034 (J)	<0.003	
9/17/2020						<0.003
9/18/2020		0.00038 (J)				
9/21/2020			0.00029 (J)			
2/10/2021				<0.003		
2/12/2021		<0.003				
2/15/2021	0.00065 (J)					
2/16/2021					0.00064 (J)	0.00043 (J)
2/22/2021			0.00047 (J)			
3/12/2021	<0.003					
3/15/2021				<0.003	<0.003	
3/16/2021		<0.003				<0.003
3/17/2021			0.00049 (J)			
8/16/2021				0.0017 (J)		
8/17/2021	<0.003					<0.003
8/18/2021		<0.003			<0.003	
8/19/2021			<0.003			
2/9/2022	<0.003	<0.003				<0.003
2/10/2022			<0.003	<0.003	<0.003	
8/3/2022	0.0018 (J)	<0.003	<0.003	<0.003	<0.003	
8/4/2022						<0.003

	HGWC-10	HGWC-11	HGWC-13	HGWC-7	HGWC-8	HGWC-9
8/11/2022				<0.003		
1/26/2023		<0.003	<0.003			0.00092 (J)
1/27/2023	<0.003			<0.003		
2/1/2023					<0.003	
Mean	0.002831	0.002875	0.00213	0.00282	0.002888	0.002528
Std. Dev.	0.000564	0.0005717	0.001263	0.0006192	0.000515	0.001002
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0018	0.00038	0.00047	0.0017	0.00064	0.00092

	MW-24D	MW-26D	MW-27D	MW-28D	MW-29	MW-6
3/12/2019				<0.003	<0.003	
3/13/2019	<0.003	<0.003	<0.003			<0.003
4/2/2019				<0.003	<0.003	
4/3/2019		<0.003				<0.003
4/4/2019			0.00016 (J)			
4/8/2019	<0.003					
9/24/2019					<0.003	
9/26/2019	<0.003	<0.003	0.0003 (J)	<0.003		<0.003
3/2/2020					<0.003	
3/3/2020						<0.003
3/4/2020	0.0017 (J)	0.002 (J)	0.00037 (J)	<0.003		
3/27/2020				<0.003		<0.003
3/30/2020	<0.003				<0.003	
3/31/2020		0.0013 (J)				
4/2/2020			0.0003 (J)			
9/16/2020					<0.003	
9/17/2020		<0.003				
9/18/2020			0.00031 (J)			
9/21/2020	<0.003			<0.003		0.0014 (J)
2/10/2021				0.0019 (J)		
2/15/2021					0.00094 (J)	
2/16/2021	<0.003	<0.003	0.00038 (J)			<0.003
3/12/2021			<0.003			
3/15/2021				<0.003	<0.003	
3/16/2021						<0.003
3/17/2021	<0.003	<0.003				
8/16/2021					<0.003	
8/17/2021		<0.003	<0.003			<0.003
8/18/2021				<0.003		
8/19/2021	<0.003					
2/9/2022		<0.003				<0.003
2/10/2022	<0.003		<0.003	<0.003	<0.003	
8/3/2022	<0.003		<0.003		<0.003	<0.003
8/4/2022		<0.003		<0.003		
1/26/2023	<0.003	<0.003		<0.003	<0.003	<0.003
1/27/2023	0.00000	0.000775	<0.003	0.00000	0.00000	0.00007
Mean	0.002892	0.002775	0.001652	0.002908	0.002828	0.002867
Std. Dev.	0.0003753	0.0005463	0.001409	0.0003175	0.0005947	0.0004619
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.0017	0.002	0.0003	0.0019	0.00094	0.0014

	MW-7
3/13/2019	0.00086 (J)
4/3/2019	<0.003
9/26/2019	<0.003
3/3/2020	0.0013 (J)
3/30/2020	<0.003
9/21/2020	0.00051 (J)
2/15/2021	0.0021 (J)
3/15/2021	<0.003
8/17/2021	<0.003
2/8/2022	<0.003
8/4/2022	<0.003
1/26/2023	<0.003
Mean	0.002398
Std. Dev.	0.0009593
Upper Lim.	0.003
Lower Lim.	0.00086

	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)	0.00			<0.005
3/17/2021			0.39	-0.00E		
8/16/2021				<0.005		40.00E
8/17/2021	-0.00E	0.0028 (1)			-0.00E	<0.005
8/18/2021	<0.005	0.0028 (J)	0.21		<0.005	
8/19/2021			0.31			

	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9
2/9/2022	0.0047 (J)	0.0053				0.0021 (J)
2/10/2022			0.38	<0.005	0.002 (J)	
8/3/2022	<0.005	0.0023 (J)	0.4	<0.005	<0.005	
8/4/2022						<0.005
8/11/2022				<0.005		
1/26/2023	<0.005	0.0025 (J)	0.53			<0.005
1/27/2023				<0.005		
2/1/2023					<0.005	
Mean	0.003554	0.003535	0.397	0.004871	0.00487	0.004305
Std. Dev.	0.001724	0.00124	0.06529	0.0006328	0.0006255	0.001573
Upper Lim.	0.005	0.004183	0.4311	0.005	0.005	0.005
Lower Lim.	0.0018	0.002886	0.3628	0.0019	0.002	0.0021

	MW-19	MW-20	MW-25D	MW-26D	MW-27D	MW-28D
3/12/2019						<0.005
3/13/2019		0.0023 (J)		<0.005	<0.005	
3/14/2019	<0.005		0.0019 (J)			
4/2/2019		<0.005				<0.005
4/3/2019	<0.005		<0.005	<0.005		
4/4/2019					0.0002 (J)	
9/25/2019		<0.005				
9/26/2019				<0.005	<0.005	<0.005
9/27/2019	<0.005		0.0011 (J)			
3/2/2020		0.00038 (J)				
3/3/2020			0.001 (J)			
3/4/2020	0.00045 (J)			0.0006 (J)	0.00069 (J)	<0.005
3/26/2020	<0.005		0.00075 (J)			
3/27/2020		<0.005				<0.005
3/31/2020				<0.005		
4/2/2020					<0.005	
9/17/2020		<0.005		<0.005		
9/18/2020			<0.005		<0.005	
9/21/2020	<0.005					<0.005
2/10/2021						0.0011 (J)
2/11/2021		0.00094 (J)				
2/12/2021	<0.005		<0.005			
2/16/2021				0.0008 (J)	0.001 (J)	
3/12/2021					<0.005	
3/15/2021		<0.005				<0.005
3/16/2021			<0.005			
3/17/2021	<0.005			<0.005		
8/17/2021		<0.005		<0.005	<0.005	
8/18/2021	<0.005					<0.005
8/19/2021			<0.005			
2/9/2022	<0.005		<0.005	0.0017 (J)		
2/10/2022		<0.005			<0.005	<0.005
8/3/2022					<0.005	
8/4/2022	<0.005	<0.005	<0.005	<0.005		<0.005
1/26/2023	<0.005	<0.005	<0.005	<0.005		<0.005
1/27/2023					<0.005	
Mean	0.004621	0.004052	0.003729	0.004008	0.003907	0.004675
Std. Dev.	0.001313	0.001767	0.001895	0.001811	0.001984	0.001126
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.00045	0.00094	0.001	0.0008	0.00069	0.0011

	MW-29	MW-5	MW-6
3/12/2019	<0.005		
3/13/2019		<0.005	<0.005
4/2/2019	<0.005		
4/3/2019		<0.005	<0.005
9/24/2019	<0.005		
9/25/2019		<0.005	
9/26/2019			<0.005
3/2/2020	<0.005	<0.005	
3/3/2020			<0.005
3/26/2020		<0.005	
3/27/2020			<0.005
3/30/2020	0.00037 (J)		
9/16/2020	<0.005		
9/17/2020		<0.005	
9/21/2020			<0.005
2/15/2021	<0.005		
2/16/2021		<0.005	<0.005
3/15/2021	<0.005		
3/16/2021		<0.005	<0.005
8/16/2021	<0.005		
8/17/2021		<0.005	<0.005
2/9/2022		0.0013 (J)	0.0034 (J)
2/10/2022	<0.005		
8/3/2022	<0.005	<0.005	<0.005
1/26/2023	<0.005	<0.005	<0.005
Mean	0.004614	0.004692	0.004867
Std. Dev.	0.001337	0.001068	0.0004619
Upper Lim.	0.005	0.005	0.005
Lower Lim.	0.00037	0.0013	0.0034

	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	0.050	0.026					
4/1/2020	0.058						
9/16/2020	0.068				0.068	0.06	
9/18/2020		0.043	0.086	0.050			
9/21/2020				0.052	0.000		
2/10/2021		0.000	0.00		0.069		
2/12/2021	0.00	0.039	0.09				
2/15/2021	0.06					0.060	
2/16/2021				0.061		0.069	
2/22/2021	0.050			0.061			
3/12/2021	0.058				0.074	0.063	
3/15/2021 3/16/2021		0.035	0.084		0.074	0.063	
3/17/2021		0.000	0.004	0.056			
8/16/2021				0.000	0.068		
8/17/2021	0.055				0.000		
- ·	-						

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/18/2021		0.04	0.083			0.062
8/19/2021				0.049		
2/9/2022	0.042	0.042	0.075			
2/10/2022				0.053	0.063	0.056
8/3/2022	0.069	0.041	0.086	0.07	0.066	0.06
8/11/2022					0.071	
1/26/2023		0.031	0.076	0.079		
1/27/2023	0.041				0.065	
2/1/2023						0.058
Mean	0.07306	0.04283	0.09896	0.0779	0.07088	0.06796
Std. Dev.	0.02091	0.01895	0.02104	0.0198	0.005696	0.01102
Upper Lim.	0.08399	0.05051	0.123	0.08825	0.07378	0.07372
Lower Lim.	0.06212	0.03278	0.083	0.06754	0.06797	0.06219

					. ,	
	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	0.117					
7/12/2016	0.13					
9/1/2016	0.13					
10/20/2016	0.0806					
12/6/2016	0.128					
1/26/2017	0.142					
3/22/2017	0.122					
5/23/2017	0.127					
4/3/2018	0.1					
6/6/2018	0.11					
10/2/2018	0.11					
3/13/2019	0.1		0.087	0.053		0.099
3/14/2019		0.06			0.44	
4/2/2019			0.08			
4/3/2019	0.12	0.05			0.38	0.12
4/8/2019				0.043		
9/25/2019			0.085			
9/26/2019				0.12		0.12
9/27/2019	0.11	0.068			0.39	
3/2/2020			0.099			
3/3/2020					0.42	
3/4/2020	0.11	0.069		0.081		0.17
3/26/2020		0.067			0.45	
3/27/2020			0.093			
3/30/2020				0.056		
3/31/2020	0.11					0.11
9/17/2020	0.11		0.096			0.099
9/18/2020					0.44	
9/21/2020		0.056		0.053		
2/11/2021			0.093			
2/12/2021		0.051			0.46	
2/16/2021	0.11			0.062		0.093
3/15/2021			0.096			
3/16/2021	0.11				0.51	
3/17/2021		0.049		0.055		0.094
8/17/2021	0.095		0.089			0.072
8/18/2021		0.045				
8/19/2021				0.048	0.58	
2/9/2022	0.096	0.042			0.6	0.066
2/10/2022			0.082	0.048		
8/3/2022				0.053		
8/4/2022	0.091	0.05	0.093		0.75	0.062
1/26/2023	0.069	0.039	0.097	0.054	0.65	0.065
Mean	0.1099	0.05383	0.09083	0.0605	0.5058	0.0975
Std. Dev.	0.01686	0.01021	0.006177	0.02098	0.1149	0.03078
Upper Lim.	0.1187	0.06184	0.09568	0.081	0.596	0.1217
Lower Lim.	0.1011	0.04583	0.08599	0.048	0.4157	0.07335

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		0.82	0.089			
3/13/2019	1.5			0.056	0.1	0.063
4/2/2019		0.37	0.078			
4/3/2019				0.049	0.09	0.058
4/4/2019	1.2					
9/24/2019			0.081			
9/25/2019				0.046		
9/26/2019	0.95	0.15			0.089	0.066
3/2/2020			0.088	0.049		
3/3/2020					0.09	0.043
3/4/2020	0.95	0.77				
3/26/2020				0.046		
3/27/2020		0.64			0.086	
3/30/2020			0.08			0.05
4/2/2020	1					
9/16/2020			0.076			
9/17/2020				0.043		
9/18/2020	1					
9/21/2020		0.18			0.083	0.065
2/10/2021		0.26				
2/15/2021			0.081			0.048
2/16/2021	1			0.05	0.085	
3/12/2021	1.1					
3/15/2021		0.45	0.078			0.053
3/16/2021				0.046	0.081	
8/16/2021			0.074			
8/17/2021	1.1			0.045	0.081	0.057
8/18/2021		0.53				
2/8/2022						0.053
2/9/2022				0.042	0.074	
2/10/2022	0.99	0.76	0.072			
8/3/2022	0.94		0.081	0.058	0.084	
8/4/2022		0.7				0.064
1/26/2023		0.8	0.076	0.05	0.079	0.044
1/27/2023	0.94					
Mean	1.056	0.5358	0.0795	0.04833	0.08517	0.05533
Std. Dev.	0.1609	0.2486	0.00509	0.004812	0.006645	0.008117
Upper Lim.	1.2	0.7309	0.08349	0.05211	0.09038	0.0617
Lower Lim.	0.94	0.3408	0.07551	0.04456	0.07995	0.04896

	HGWC-11	HGWC-13	HGWC-7	HGWC-8	MW-19	MW-28D
5/20/2016			<0.0005	<0.003		
5/23/2016	<0.0005	<0.0005				
7/12/2016	<0.0005	<0.0005	<0.0005	<0.003		
9/1/2016	<0.0005	<0.0005	<0.0005	<0.003		
10/20/2016			<0.0005	<0.003		
10/24/2016	<0.0005	<0.0005				
12/6/2016			<0.0005	<0.003		
12/7/2016	<0.0005	<0.0005				
1/25/2017			<0.0005	<0.003		
1/26/2017	<0.0005	<0.0005				
3/21/2017			<0.0005	<0.003		
3/22/2017	9E-05 (J)	<0.0005				
5/23/2017	(-)		<0.0005	<0.003		
5/24/2017	<0.0005	<0.0005				
4/3/2018			<0.0005	<0.003		
4/4/2018	<0.0005	<0.0005	0.0000	0.000		
3/12/2019	-0.0000	-0.0000		<0.003		<0.0005
3/13/2019	0.0001 (J)	6.2E-05 (J)	<0.0005	-0.000		-0.0000
3/14/2019	0.0001 (0)	0.22 00 (0)	-0.0000		<0.0005	
4/2/2019			<0.0005		10.0003	<0.0005
4/3/2019	0.00017 (J)		10.0000	7.4E-05 (J)	<0.0005	10.0000
4/5/2019	0.00017 (3)	<0.0005		7.42-03 (0)	10.0003	
9/24/2019		~0.0003		<0.003		
9/25/2019			<0.0005	<0.003		
9/26/2019		0.00011 (1)	~0.0003			<0.0005
	9 6E 0E (I)	0.00011 (J)			<0.0005	\0.0005
9/27/2019	8.6E-05 (J) 0.00012 (J)			<0.003	<0.0005	
3/3/2020 3/4/2020	0.00012 (3)	0.25 05 (1)	7.75.05 (1)	<0.003	<0.0005	0.00014 (1)
3/26/2020		9.3E-05 (J)	7.7E-05 (J)		<0.0005	0.00014 (J)
3/27/2020			<0.000E	<0.003	<0.0005	<0.0005
3/30/2020		9.9E-05 (J)	<0.0005	<0.003		\0.0005
3/31/2020	0.00015 (J)	9.9L-03 (3)				
9/16/2020	0.00013 (3)		<0.0005	0.0001 (J)		
9/18/2020	<0.0005		~0.0003	0.0001 (3)		
9/21/2020	~0.0003	0.00011 (J)			<0.0005	<0.0005
2/10/2021		0.00011(3)	8.1E-05 (J)		~0.0003	5.4E-05 (J)
2/12/2021	<0.0005		6.1L-03 (3)		<0.0005	3.4L-03 (0)
2/16/2021	~0.0003			7 15 05 (1)	~0.0003	
2/22/2021		9.7E-05 (J)		7.1E-05 (J)		
3/15/2021		9.712-03 (3)	0.00019 (J)	7.8E-05 (J)		4.8E-05 (J)
	9.15.05 (1)		0.00019 (3)	7.8E-03 (3)		4.6E-03 (3)
3/16/2021	8.1E-05 (J)	05.05.(1)			<0.0005	
3/17/2021		9E-05 (J)	<0.0005		<0.0003	
8/16/2021	<0.0005		<0.0005	9.7E.0E.(1)	E 8E 0E (I)	<0.000E
8/18/2021	<0.0005	7.25 05 (1)		8.7E-05 (J)	5.8E-05 (J)	<0.0005
8/19/2021	-0.0005	7.3E-05 (J)			-0.0005	
2/9/2022	<0.0005	-0.0005	-0.0005	7.45.05 (1)	<0.0005	-0.0005
2/10/2022	~0.000E	<0.0005	<0.0005	7.1E-05 (J)		<0.0005
8/3/2022	<0.0005	<0.0005	<0.0005	5.6E-05 (J)	<0.0005	<0.0005
8/4/2022			<0.0005		~U.UUU	<0.0005
8/11/2022	~0.000E	0.05.05.71	<0.0005		<0.000E	<0.000E
1/26/2023	<0.0005	9.9E-05 (J)	<0.0005		<0.0005	<0.0005
1/27/2023			<0.0005			

	HGWC-11	HGWC-13	HGWC-7	HGWC-8	MW-19	MW-28D
2/1/2023				5.6E-05 (J)		
Mean	0.0003713	0.0003254	0.0004476	0.001885	0.0004632	0.0003952
Std. Dev.	0.0001875	0.0002069	0.0001363	0.001456	0.0001276	0.0001909
Upper Lim.	0.0005	0.0005	0.0005	0.003	0.0005	0.0005
Lower Lim.	0.00012	9.7E-05	0.00019	7.4E-05	5.8E-05	5.4E-05

	MW-7
3/13/2019	<0.0005
4/3/2019	5.1E-05 (J)
9/26/2019	<0.0005
3/3/2020	<0.0005
3/30/2020	<0.0005
9/21/2020	<0.0005
2/15/2021	<0.0005
3/15/2021	<0.0005
8/17/2021	<0.0005
2/8/2022	<0.0005
8/4/2022	<0.0005
1/26/2023	<0.0005
Mean	0.0004626
Std. Dev.	0.0001296
Upper Lim.	0.0005
Lower Lim.	5.1E-05

	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	<0.001	<0.0005
4/4/2018	<0.0005	<0.0005	<0.0005			
3/12/2019					0.0002 (J)	
3/13/2019	<0.0005	<0.0005		<0.0005		<0.0005
3/14/2019			<0.0005			
4/2/2019				<0.0005		
4/3/2019	0.0001 (J)	9.6E-05 (J)	<0.0005		0.00032 (J)	<0.0005
9/24/2019					0.0002 (J)	
9/25/2019				<0.0005		
9/27/2019	<0.0005	<0.0005	<0.0005			<0.0005
3/3/2020	<0.0005	<0.0005	0.00015 (J)		0.00017 (J)	
3/4/2020				<0.0005		<0.0005
3/26/2020			<0.0005			
3/27/2020				<0.0005	0.00014 (J)	
3/31/2020		<0.0005				<0.0005
4/1/2020	<0.0005					
9/16/2020	<0.0005			<0.0005	0.00023 (J)	
9/17/2020						<0.0005
9/18/2020		<0.0005	<0.0005			
2/10/2021				<0.0005		
2/12/2021		<0.0005	<0.0005			
2/15/2021	<0.0005					
2/16/2021					0.00037 (J)	<0.0005
3/12/2021	<0.0005					
3/15/2021				<0.0005	0.00017 (J)	
3/16/2021		<0.0005	<0.0005			<0.0005
8/16/2021				<0.0005		
8/17/2021	<0.0005					<0.0005
8/18/2021		<0.0005	<0.0005		0.0002 (J)	
2/9/2022	<0.0005	<0.0005	<0.0005			<0.0005
2/10/2022				<0.0005	0.00029 (J)	
8/3/2022	<0.0005	<0.0005	<0.0005	<0.0005	0.00017 (J)	
8/4/2022						<0.0005
8/11/2022				<0.0005		
1/26/2023		<0.0005	<0.0005			<0.0005
1/27/2023	<0.0005			0.00019 (J)		
2/1/2023					0.00014 (J)	
Mean	0.0003721	0.0004427	0.00044	0.0004268	0.0002924	0.0004462

	HGWC-10	HGWC-11	HGWC-12	HGWC-7	HGWC-8	HGWC-9
Std. Dev.	0.0001864	0.0001439	0.0001313	0.0001394	0.0003358	0.0001368
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0003	0.0005
Lower Lim.	0.000115	0.0001	0.0003	0.0002	0.00017	0.0002

3/14/2019 <0.	.0005
4/3/2019 <0.	.0005
9/27/2019 0.0	0013 (J)
3/4/2020 0.0	0026 (J)
3/26/2020 0.0	0019 (J)
9/21/2020 0.0	0018 (J)
2/12/2021 0.0	002 (J)
3/17/2021 0.0	0016 (J)
8/18/2021 0.0	0027 (J)
2/9/2022 0.0	011
8/4/2022 0.0	0022 (J)
1/26/2023 <0.	.0005
Mean 0.0	003508
Std. Dev. 0.0	002735
Upper Lim. 0.0	003417
Lower Lim. 0.0	001502

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					<0.005	<0.005
5/23/2016	<0.005	<0.005	<0.005	<0.005		
7/12/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
9/1/2016	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
10/20/2016					<0.005	<0.005
10/24/2016	<0.005	<0.005	<0.005	<0.005		
12/6/2016					<0.005	<0.005
12/7/2016	<0.005	<0.005	<0.005	<0.005		
1/25/2017					<0.005	<0.005
1/26/2017	<0.005	<0.005	<0.005	<0.005		
3/21/2017					<0.005	0.0005 (J)
3/22/2017	<0.005	0.0003 (J)	0.0004 (J)	0.0004 (J)		
5/23/2017					<0.005	<0.005
5/24/2017	<0.005	<0.005	<0.005	<0.005		
4/3/2018					<0.005	<0.005
4/4/2018	<0.005	<0.005	<0.005	<0.005		
3/12/2019						<0.005
3/13/2019	<0.005	<0.005		<0.005	<0.005	
3/14/2019			0.0025 (J)			
4/2/2019					<0.005	
4/3/2019	0.02	<0.005	<0.005			<0.005
4/5/2019				<0.005		
9/24/2019						<0.005
9/25/2019					0.071	
9/26/2019				<0.005		
9/27/2019	<0.005	<0.005	<0.005			
3/3/2020	<0.005	0.00061 (J)	<0.005			0.0007 (J)
3/4/2020				<0.005	0.0016 (J)	
3/26/2020			<0.005			
3/27/2020					0.0004 (J)	<0.005
3/30/2020				0.00059 (J)		
3/31/2020		<0.005				
4/1/2020	<0.005					
9/16/2020	<0.005				0.00074 (J)	0.0015 (J)
9/18/2020		<0.005	0.00091 (J)			
9/21/2020				0.00056 (J)		
2/10/2021					0.0014 (J)	
2/12/2021		<0.005	<0.005			
2/15/2021	<0.005					
2/16/2021						<0.005
2/22/2021				<0.005		
3/12/2021	<0.005					
3/15/2021					0.0021 (J)	0.00082 (J)
3/16/2021		<0.005	<0.005			
3/17/2021				<0.005		
8/16/2021					<0.005	
8/17/2021	<0.005					
8/18/2021		<0.005	<0.005			<0.005
8/19/2021				<0.005		
2/9/2022	0.0011 (J)	<0.005	<0.005			
2/10/2022				<0.005	<0.005	<0.005
8/3/2022	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/11/2022					<0.005	
1/26/2023		0.0012 (J)	<0.005	<0.005		
1/27/2023	0.0012 (J)				0.0014 (J)	
2/1/2023						<0.005
Mean	0.005348	0.004386	0.004467	0.00436	0.006984	0.004215
Std. Dev.	0.00355	0.001547	0.001382	0.001608	0.0144	0.001666
Upper Lim.	0.02	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0012	0.0012	0.0025	0.00059	0.0021	0.0015

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	<0.005					
7/12/2016	<0.005					
9/1/2016	<0.005					
10/20/2016	<0.005					
12/6/2016	<0.005					
1/26/2017	<0.005					
3/22/2017	<0.005					
5/23/2017	<0.005					
4/3/2018	<0.005					
3/13/2019	<0.005		<0.005	<0.005		<0.005
3/14/2019		<0.005			<0.005	
4/2/2019			<0.005			
4/3/2019	<0.005	<0.005			<0.005	<0.005
4/8/2019				<0.005		
9/25/2019			<0.005			
9/26/2019				0.00042 (J)		0.00076 (J)
9/27/2019	<0.005	<0.005			<0.005	
3/2/2020			0.00071 (J)			
3/3/2020					<0.005	
3/4/2020	<0.005	0.00066 (J)		<0.005		0.0028 (J)
3/26/2020		0.00047 (J)			0.00061 (J)	
3/27/2020			0.00051 (J)			
3/30/2020				<0.005		
3/31/2020	0.00052 (J)					0.001 (J)
9/17/2020	<0.005		<0.005			<0.005
9/18/2020					<0.005	
9/21/2020		0.0014 (J)		<0.005		
2/11/2021			<0.005			
2/12/2021		0.00059 (J)			<0.005	
2/16/2021	0.00067 (J)			<0.005		0.001 (J)
3/15/2021			0.00068 (J)			
3/16/2021	<0.005				<0.005	
3/17/2021		0.0022 (J)		0.0017 (J)		0.0015 (J)
8/17/2021	<0.005		<0.005			<0.005
8/18/2021		<0.005				
8/19/2021				<0.005	<0.005	
2/9/2022	0.0011 (J)	<0.005			<0.005	<0.005
2/10/2022			<0.005	<0.005		
8/3/2022				<0.005		
8/4/2022	<0.005	<0.005	<0.005		<0.005	<0.005
1/26/2023	0.0013 (J)	0.0011 (J)	<0.005	<0.005	0.0012 (J)	<0.005
Mean	0.004219	0.003035	0.003908	0.004343	0.004317	0.003505
Std. Dev.	0.001657	0.002099	0.001975	0.001558	0.001599	0.001913
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0013	0.00059	0.00068	0.0017	0.0012	0.001

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		<0.005	<0.005			
3/13/2019	<0.005			0.003 (J)	<0.005	<0.005
4/2/2019		<0.005	<0.005			
4/3/2019				0.003 (J)	<0.005	0.0023 (J)
4/4/2019	<0.005					
9/24/2019			<0.005			
9/25/2019				0.0052 (J)		
9/26/2019	<0.005	0.00081 (J)			<0.005	0.0013 (J)
3/2/2020			<0.005	0.0042 (J)		
3/3/2020					0.00044 (J)	0.0015 (J)
3/4/2020	<0.005	0.0027 (J)				
3/26/2020				0.0044 (J)		
3/27/2020		<0.005			0.00059 (J)	
3/30/2020			0.001 (J)			0.0021 (J)
4/2/2020	<0.005					
9/16/2020			<0.005			
9/17/2020				0.0021 (J)		
9/18/2020	0.0007 (J)					
9/21/2020		0.00085 (J)			<0.005	0.0017 (J)
2/10/2021		0.0014 (J)				
2/15/2021			<0.005			0.0015 (J)
2/16/2021	0.00082 (J)			0.0032 (J)	<0.005	
3/12/2021	<0.005					
3/15/2021		0.00078 (J)	<0.005			0.0018 (J)
3/16/2021				0.0024 (J)	<0.005	
8/16/2021			<0.005			
8/17/2021	<0.005			0.0018 (J)	<0.005	<0.005
8/18/2021		<0.005				
2/8/2022						0.0016 (J)
2/9/2022				0.0031 (J)	<0.005	
2/10/2022	<0.005	0.0011 (J)	<0.005			
8/3/2022	<0.005		<0.005	0.0015 (J)	<0.005	
8/4/2022		<0.005				0.002 (J)
1/26/2023		<0.005	<0.005	0.0032 (J)	0.0014 (J)	0.0017 (J)
1/27/2023	<0.005					
Mean	0.004293	0.003137	0.004667	0.003092	0.003952	0.002292
Std. Dev.	0.001651	0.002009	0.001155	0.001091	0.001908	0.001295
Upper Lim.	0.005	0.005	0.005	0.003948	0.005	0.005
Lower Lim.	0.00082	0.00081	0.001	0.002236	0.00059	0.0015

	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)	0.00004 (1)		
2/10/2021		-0.005	0.0010 (1)		0.00081 (J)		
2/12/2021	-0.005	<0.005	0.0012 (J)				
2/15/2021	<0.005					0.002 (1)	
2/16/2021				0.002 (1)		0.002 (J)	
2/22/2021	<0.005			0.003 (J)			
3/12/2021 3/15/2021	<0.005				0.001471)	0.0010 (1)	
3/16/2021		<0.005	0.0012 (1)		0.0014 (J)	0.0019 (J)	
3/17/2021		<0.005	0.0012 (J)	0.0029 (J)			
				0.0029 (3)	0.0012 (1)		
8/16/2021	<0.00E				0.0012 (J)		
8/17/2021	<0.005	<0.005	0.001271			0.00271	
8/18/2021 8/19/2021		<0.005	0.0012 (J)	0.002471		0.002 (J)	
2/9/2022	<0.005	<0.005	0.0013 (J)	0.0024 (J)			
2/9/2022	-0.000	~0.00J	0.0013 (3)	0.0026717	0.0011 (J)	0.002171	
8/3/2022	<0.005	<0.005	0.0012 (J)	0.0026 (J) 0.0041 (J)	0.0011 (J) 0.0015 (J)	0.0021 (J) 0.0024 (J)	
0/3/2022	×0.000	-0.003	0.0012 (0)	0.0041 (0)	0.0013 (0)	0.0024 (0)	

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/11/2022					0.0018 (J)	
1/26/2023		<0.005	0.0012 (J)	0.012		
1/27/2023	<0.005				0.00067 (J)	
2/1/2023						<0.005
Mean	0.00379	0.003103	0.00151	0.003686	0.001179	0.002094
Std. Dev.	0.001963	0.001799	0.0004265	0.002213	0.0007416	0.0002693
Upper Lim.	0.005	0.005	0.0018	0.004201	0.00147	0.002242
Lower Lim.	0.0009	0.0014	0.0012	0.002611	0.0007471	0.001945

New
1712/2015 0.0006 (/) 1712/2015 0.0007 (/) 1712/2015 0.0002 (/) 1712/2015 0.0002 (/) 1712/2017 0.0005 (/) 1712/2017 0.0005 (/) 1712/2017 0.0005 (/) 1712/2017 0.0005 (/) 1712/2017 0.0005 (/) 1712/2018 0.0005 (/)
P112016 0.0007 (J)
10002016 0.002 (J) 126/2016 0.0011 (J) 126/2017 0.0006 (J) 126/2017 0.0006 (J) 126/2017 0.0006 (J) 126/2017 0.0006 (J) 126/2017 0.0006 (J) 126/2017 0.0006 (J) 126/2017 0.0006 (J) 126/2017 0.0006 (J) 126/2017 0.0006 (J) 126/2017 0.0005 (J) 126/2017 0.0005 (J) 0.005 (J) 0.005 (J) 0.005 (J) 0.005 (J) 0.005 (J) 0.005 (J) 0.005 (J) 0.005 (J) 0.006
126/2016 0.0011 (J) 126/2017 0.0006 (J) 3.0006
1/26/2017 0.0006 (J)
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Africant Africant
3/13/2019 0.00065 (.) 0.025 0.005 0.
3/14/2019
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9/17/2020 0.0007 (J) < <0.005 < <0.005 < <0.005
9/18/2020
9/21/2020
2/11/2021
2/12/2021 0.00061 (J) < 0.005
2/16/2021 0.00061 (J) < < < < 0.005 0.00045 (J) 0.0004 (J) 3/12/2021
3/12/2021
3/16/2021 0.00069 (J) 3/17/2021 0.0037 <0.005 0.00044 (J) 8/17/2021 0.00045 (J) <0.005 0.00045 (J) <0.005 8/18/2021 0.0039 8/19/2021 <0.0051 (J) 0.03
3/16/2021 0.00069 (J) 3/17/2021 0.0037 <0.005 0.00044 (J) 8/17/2021 0.00045 (J) <0.005 0.00045 (J) <0.005 8/18/2021 0.0039 8/19/2021 <0.0051 (J) 0.03
3/17/2021 0.0037 <0.005
8/18/2021 0.039 8/19/2021 <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
2/10/2022 <0.005
8/3/2022 <0.005
8/3/2022 <
8/4/2022 0.00046 (J) 0.043 <0.005 0.00048 (J) 1/26/2023 0.00068 (J) 0.022 <0.005 <0.005 0.00051 (J) 1/27/2023 <0.005
1/26/2023 0.00068 (J) 0.022 <0.005 <0.005 0.00051 (J) 1/27/2023 <0.005
1/27/2023 <0.005
Mean 0.0008643 0.03558 0.004675 0.003909 0.001979 0.003828
Std. Dev. 0.0006357 0.007751 0.001126 0.001982 0.002232 0.002121
Upper Lim. 0.0007 0.04167 0.005 0.005 0.005 0.005
Upper Lim. 0.0007 0.04167 0.005 0.005 0.005 0.005 Lower Lim. 0.00051 0.0295 0.0011 0.00056 0.00044 0.0004

	MW-28D	MW-29	MW-6
3/12/2019	<0.005	0.00057 (J)	
3/13/2019			0.00055 (J)
4/2/2019	<0.005	0.00084 (J)	
4/3/2019			<0.005
9/24/2019		0.0015 (J)	
9/26/2019	<0.005		0.00036 (J)
3/2/2020		0.00067 (J)	
3/3/2020			0.00094 (J)
3/4/2020	0.00093 (J)		
3/27/2020	<0.005		0.00059 (J)
3/30/2020		0.00063 (J)	
9/16/2020		0.0013 (J)	
9/21/2020	<0.005		0.00041 (J)
2/10/2021	<0.005		
2/15/2021		0.00097 (J)	
2/16/2021			0.00045 (J)
3/15/2021	<0.005	0.0011 (J)	
3/16/2021			0.00042 (J)
8/16/2021		0.0014 (J)	
8/17/2021			<0.005
8/18/2021	<0.005		
2/9/2022			0.00059 (J)
2/10/2022	<0.005	0.00089 (J)	
8/3/2022		0.0012 (J)	0.00041 (J)
8/4/2022	<0.005		
1/26/2023	<0.005	0.00056 (J)	0.00044 (J)
Mean	0.004661	0.0009692	0.001263
Std. Dev.	0.001175	0.0003305	0.001752
Upper Lim.	0.005	0.001228	0.005
Lower Lim.	0.00093	0.0007098	0.00041

	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)					

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/18/2021		0.919 (U)	0.919 (U)			1.02 (U)
8/19/2021				0.764 (U)		
2/9/2022	0.49 (U)	0.444 (U)	0.564 (U)			
2/10/2022				0.442 (U)	0.175 (U)	0.945 (U)
8/3/2022	0.454 (U)	0.823 (U)	0.418 (U)	0.54 (U)	0.42 (U)	0.455 (U)
8/11/2022					0.461 (U)	
1/26/2023		0.441 (U)	0.877	0.719		
1/27/2023	1.2				0.45 (U)	
2/1/2023						0.241 (U)
Mean	0.8353	0.8934	0.8014	0.7879	0.6782	0.8049
Std. Dev.	0.4423	0.4603	0.4385	0.3658	0.4762	0.2847
Upper Lim.	1.067	1.134	1.031	0.9792	0.8409	0.9538
Lower Lim.	0.604	0.6526	0.5721	0.5965	0.4167	0.656

	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D
5/23/2016	0.826 (U)					
7/12/2016	0.511 (U)					
9/1/2016	0.762 (U)					
10/20/2016	1.17					
12/6/2016	0.126 (U)					
1/26/2017	0.515 (U)					
3/22/2017	0.451 (U)					
5/23/2017	0.924 (U)					
4/3/2018	0.732 (U)					
6/6/2018	0.813 (U)					
10/2/2018	0.61 (U)					
3/13/2019	1 (U)		0.538 (U)	0.311 (U)		0.627 (U)
3/14/2019		0.347 (U)			1.28 (U)	
4/2/2019			1.02 (U)			
4/3/2019	0.156 (U)	0.884 (U)			0.662 (U)	0.205 (U)
4/8/2019				0.573 (U)		
9/25/2019			1.35 (U)			
9/26/2019				0.878 (U)		0.912 (U)
9/27/2019	0.428 (U)	0.534 (U)			0.945 (U)	
3/2/2020			0.653 (U)			
3/3/2020					1.36	
3/4/2020	1.03	1.04		0.333 (U)		1.27 (U)
3/26/2020		1.1 (U)			0.793 (U)	
3/27/2020			0.1 (U)			
3/30/2020				0.107 (U)		
3/31/2020	1.2 (U)					1.65
9/17/2020	1.38 (U)		0.469 (U)			0.42 (U)
9/18/2020					1.17 (U)	
9/21/2020		1.36 (U)		1.23 (U)		
2/11/2021			0.334 (U)			
2/12/2021		0.764 (U)			1.17	
2/16/2021	1.17 (U)			0.156 (U)		0.505 (U)
3/15/2021			1.24 (U)			
3/16/2021	0.446 (U)				0.742 (U)	
3/17/2021		0.466 (U)		0.174 (U)		0.165 (U)
8/17/2021	0.771 (U)		0.709 (U)			0.0468 (U)
8/18/2021		0.642 (U)				
8/19/2021				0.227 (U)	0.935 (U)	
2/9/2022	0.198 (U)	0.245 (U)			0.754 (U)	0.0677 (U)
2/10/2022			0.32 (U)	0.178 (U)		
8/3/2022				0.263 (U)		
8/4/2022	0.597 (U)	0.509 (U)	1.05 (U)		1.65	0.0273 (U)
1/26/2023	0.516 (U)	0.333 (U)	0.561 (U)	0.0906 (U)	1.1	0.386 (U)
Mean	0.7101	0.6853	0.6953	0.3767	1.047	0.5235
Std. Dev.	0.3464	0.3484	0.3906	0.3495	0.296	0.516
Upper Lim.	0.8913	0.9587	1.002	0.5788	1.279	0.9284
Lower Lim.	0.5289	0.412	0.3888	0.1374	0.8145	0.1186

	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)			A (AA (II)
8/17/2021	1.06 (U)			0.304 (U)	0.557 (U)	0.183 (U)
8/18/2021		0.876 (U)				A 447 (1)
2/8/2022				0.507.415	0.040.445	0.417 (U)
2/9/2022	0.000 (1)	1.00 (1.1)	0.504.(1.)	0.567 (U)	0.619 (U)	
2/10/2022	0.809 (U)	1.96 (U)	0.594 (U)	0.62 (1)	0.540.(1.)	
8/3/2022	0.685 (U)	0.04 (11)	0.581 (U)	0.63 (U)	0.543 (U)	4.40 (1)
8/4/2022		0.84 (U)	0.702 (11)	0.000	0.402 (11)	1.18 (U)
1/26/2023	4.4	0.821	0.793 (U)	0.909	0.493 (U)	0.318 (U)
1/27/2023	1.1	0.0063	0.6615	0.7608	0.7612	0.0444
Mean Std. Day	1.196	0.9962	0.6615	0.7608	0.7613	0.8444
Std. Dev. Upper Lim.	0.5082 1.544	0.4951 1.385	0.354 0.9393	0.2714 0.9737	0.4499 1.015	0.428 1.18
Lower Lim.	0.8213	0.6077	0.3837	0.5478	0.4421	0.5086
LOWEI LIIII.	0.0213	0.0077	0.3637	0.5476	U. 44 2 I	0.5000

	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					<0.3	0.39
4/4/2018	<0.1	0.39	<0.3	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)				<0.3	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			

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
3/17/2021				0.65		
8/16/2021					0.084 (J)	
8/17/2021	<0.1					
8/18/2021		0.21	0.15			0.41
8/19/2021				0.53		
2/9/2022	0.12	0.2	0.2			
2/10/2022				0.53	0.083 (J)	0.42
8/3/2022	0.13	0.22	0.21	0.55	0.11	0.44
8/11/2022					0.11	
1/26/2023		0.2	0.21	0.4		
1/27/2023	0.16				0.1	
2/1/2023						0.4
Mean	0.174	0.3355	0.3084	0.5937	0.145	0.556
Std. Dev.	0.1317	0.1595	0.2332	0.1829	0.1052	0.1706
Upper Lim.	0.1861	0.3995	0.34	0.687	0.15	0.63
Lower Lim.	0.08031	0.2471	0.17	0.5004	0.084	0.45

					<u> </u>	,	
	HGWC-9	MW-19	MW-20	MW-24D	MW-25D	MW-26D	
5/23/2016	<0.3						
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	<0.3						
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)					<0.3	
9/17/2020	0.1		<0.1			0.069 (J)	
9/18/2020					1.6		
9/21/2020		0.17		<0.1			
2/11/2021			<0.1				
2/12/2021		0.16			1.6		
2/16/2021	0.096 (J)			<0.1		0.071 (J)	
3/15/2021			<0.1				
3/16/2021	0.098 (J)				1.7		
3/17/2021		0.18		<0.1		0.072 (J)	
8/17/2021	0.095 (J)		<0.1			0.075 (J)	
8/18/2021		0.12					
8/19/2021				<0.1	1.5		
2/9/2022	0.1	0.076 (J)			1.7	0.092 (J)	
2/10/2022		. ,	<0.1	0.051 (J)		,,	
8/3/2022				0.075 (J)			
8/4/2022	0.13	0.18	0.074 (J)	,	1.5	0.12	
1/26/2023	0.11	0.098 (J)	0.081 (J)	0.083 (J)	1.6	0.11	
Mean	0.1895	0.1892	0.09392	0.0855	1.625	0.09142	
Std. Dev.	0.1498	0.1289	0.01119	0.03602	0.2006	0.04394	
	-		-				
Upper Lim.	0.2386	0.2612	0.1	0.09451	1.7	0.1259	

	MW-27D	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019		0.24 (J)	0.07 (J)			
3/13/2019	0.28 (J)			0.1 (J)	0.19 (J)	0.069 (J)
4/2/2019		0.18 (J)	0.045 (J)			
4/3/2019				0.049 (J)	0.15 (J)	<0.1
4/4/2019	0.26 (J)					
9/24/2019			0.18 (J)			
9/25/2019				0.076 (J)		
9/26/2019	0.42	0.22 (J)			0.19 (J)	0.17 (J)
3/2/2020			<0.1	0.065 (J)		
3/3/2020					0.062 (J)	<0.1
3/4/2020	0.25 (J)	0.26 (J)				
3/26/2020				0.082 (J)		
3/27/2020		0.26 (J)			<0.1	
3/30/2020			<0.1			<0.1
4/2/2020	0.24 (J)					
9/16/2020			<0.1			
9/17/2020				0.094 (J)		
9/18/2020	0.22					
9/21/2020		0.1			<0.1	<0.1
2/10/2021		0.16				
2/15/2021			<0.1			<0.1
2/16/2021	0.25			0.051 (J)	0.059 (J)	
3/12/2021	0.24					
3/15/2021		0.24	<0.1			<0.1
3/16/2021				<0.1	0.06 (J)	
8/16/2021			<0.1			
8/17/2021	0.24			<0.1	0.055 (J)	<0.1
8/18/2021		0.14				
2/8/2022						<0.1
2/9/2022				0.056 (J)	0.059 (J)	
2/10/2022	0.25	0.22	<0.1			
8/3/2022	0.27		0.069 (J)	0.094 (J)	0.085 (J)	
8/4/2022		0.19				0.078 (J)
1/26/2023		0.22	0.068 (J)	0.087 (J)	0.088 (J)	0.06 (J)
1/27/2023	0.3					
Mean	0.2683	0.2025	0.09433	0.0795	0.09983	0.09808
Std. Dev.	0.05219	0.04975	0.03293	0.01968	0.05	0.0268
Upper Lim.	0.3	0.2415	0.18	0.0865	0.1052	0.17
Lower Lim.	0.22	0.1635	0.068	0.05882	0.05616	0.069

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
5/20/2016					<0.001	<0.001
5/23/2016	<0.001	<0.001	<0.001	<0.001		
7/12/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/1/2016	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/20/2016					<0.001	<0.001
10/24/2016	<0.001	<0.001	<0.001	<0.001		
12/6/2016					0.0001 (J)	<0.001
12/7/2016	<0.001	<0.001	<0.001	<0.001		
1/25/2017					0.0001 (J)	<0.001
1/26/2017	<0.001	<0.001	<0.001	<0.001		
3/21/2017					9E-05 (J)	<0.001
3/22/2017	<0.001	0.0003 (J)	<0.001	7E-05 (J)		
5/23/2017					8E-05 (J)	<0.001
5/24/2017	<0.001	9E-05 (J)	<0.001	<0.001		
4/3/2018					<0.001	<0.001
4/4/2018	<0.001	<0.001	<0.001	<0.001		
3/12/2019						<0.001
3/13/2019	<0.001	<0.001		<0.001	<0.001	
3/14/2019			<0.001			
3/3/2020	<0.001	0.00021 (J)	5.6E-05 (J)			0.00013 (J)
3/4/2020				0.00014 (J)	0.00051 (J)	
3/26/2020			0.00043 (J)			
3/27/2020					5.4E-05 (J)	<0.001
3/30/2020				0.0001 (J)		
3/31/2020		0.0003 (J)				
4/1/2020	5E-05 (J)					
9/16/2020	<0.001				0.0002 (J)	0.0002 (J)
9/18/2020		6E-05 (J)	9.6E-05 (J)			
9/21/2020				0.00015 (J)		
2/10/2021					0.00056 (J)	
2/12/2021		<0.001	6.7E-05 (J)			
2/15/2021	<0.001					
2/16/2021						8.6E-05 (J)
2/22/2021				0.00018 (J)		
3/12/2021	<0.001					
3/15/2021					0.0013	0.00011 (J)
3/16/2021		9.9E-05 (J)	8.9E-05 (J)			
3/17/2021				0.00015 (J)		
8/16/2021					<0.001	
8/17/2021	<0.001					
8/18/2021		<0.001	<0.001			<0.001
8/19/2021				<0.001		
2/9/2022	<0.001	<0.001	<0.001			
2/10/2022				<0.001	<0.001	<0.001
8/3/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/11/2022					<0.001	
1/26/2023		<0.001	<0.001	<0.001		
1/27/2023	<0.001				<0.001	
2/1/2023						<0.001
Mean	0.00095	0.0007399	0.0007757	0.0007258	0.0006997	0.0008172
Std. Dev.	0.0002179	0.0003974	0.0003928	0.0004152	0.0004322	0.0003643
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
Lower Lim.	5E-05	0.00021	9.6E-05	0.00015	0.0001	0.0002

	HGWC-9	MW-19	MW-20	MW-24D	MW-26D	MW-27D
5/23/2016	<0.001					
7/12/2016	<0.001					
9/1/2016	<0.001					
10/20/2016	<0.001					
12/6/2016	0.0002 (J)					
1/26/2017	0.0001 (J)					
3/22/2017	<0.001					
5/23/2017	0.0001 (J)					
4/3/2018	<0.001					
3/13/2019	<0.001		<0.001	<0.001	<0.001	<0.001
3/14/2019		<0.001				
3/2/2020			0.00017 (J)			
3/4/2020	8.4E-05 (J)	0.00011 (J)		0.00019 (J)	<0.001	<0.001
3/26/2020		<0.001				
3/27/2020			0.00013 (J)			
3/30/2020				6.4E-05 (J)		
3/31/2020	0.00014 (J)				0.0001 (J)	
4/2/2020						0.00013 (J)
9/17/2020	0.00022 (J)		<0.001		<0.001	
9/18/2020						<0.001
9/21/2020		8.5E-05 (J)		4.2E-05 (J)		
2/11/2021			3.9E-05 (J)			
2/12/2021		7.1E-05 (J)				
2/16/2021	0.0002 (J)			0.00012 (J)	8E-05 (J)	0.00043 (J)
3/12/2021						<0.001
3/15/2021			0.0001 (J)			
3/16/2021	0.00027 (J)					
3/17/2021		3.8E-05 (J)		4E-05 (J)	<0.001	
8/17/2021	<0.001		<0.001		<0.001	<0.001
8/18/2021		<0.001				
8/19/2021				<0.001		
2/9/2022	<0.001	<0.001			<0.001	
2/10/2022			<0.001	<0.001		<0.001
8/3/2022				<0.001		<0.001
8/4/2022	<0.001	<0.001	<0.001		<0.001	
1/26/2023	<0.001	<0.001	<0.001	<0.001	<0.001	
1/27/2023						<0.001
Mean	0.0006481	0.0006304	0.0006439	0.0005456	0.000818	0.000856
Std. Dev.	0.000426	0.0004775	0.0004608	0.0004809	0.0003837	0.0003117
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00014	7.1E-05	0.0001	4.2E-05	0.0001	0.00043

	MW-28D	MW-29	MW-5	MW-6	MW-7
3/12/2019	<0.001	<0.001			
3/13/2019			<0.001	<0.001	<0.001
3/2/2020		9E-05 (J)	4.7E-05 (J)		
3/3/2020				0.00013 (J)	6.2E-05 (J)
3/4/2020	0.001 (J)				
3/26/2020			<0.001		
3/27/2020	6.2E-05 (J)			<0.001	
3/30/2020		0.00011 (J)			<0.001
9/16/2020		<0.001			
9/17/2020			<0.001		
9/21/2020	0.00018 (J)			0.00026 (J)	<0.001
2/10/2021	0.00044 (J)				
2/15/2021		5.2E-05 (J)			<0.001
2/16/2021			<0.001	8.4E-05 (J)	
3/15/2021	0.00034 (J)	<0.001			<0.001
3/16/2021			<0.001	3.6E-05 (J)	
8/16/2021		<0.001			
8/17/2021			<0.001	<0.001	<0.001
8/18/2021	<0.001				
2/8/2022					<0.001
2/9/2022			<0.001	<0.001	
2/10/2022	<0.001	<0.001			
8/3/2022		<0.001	<0.001	<0.001	
8/4/2022	<0.001				<0.001
1/26/2023	<0.001	<0.001	<0.001	<0.001	<0.001
Mean	0.0007022	0.0007252	0.0009047	0.000651	0.0009062
Std. Dev.	0.0003965	0.0004427	0.0003014	0.000454	0.0002966
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.00018	9E-05	0.001	8.4E-05	0.001

					, ,	
	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)	0.0024 (J)	0.0026 (J)		
1/26/2017	0.0099 (J)	0.0342 (J)			0.0042 (J)	
3/21/2017	(0)	(0)	0.0026 (J)	0.0029 (J)	(0)	
3/22/2017	0.0098 (J)	0.0353 (J)	0.0020 (0)	0.0020 (0)	0.0043 (J)	
5/23/2017	0.0030 (3)	0.0333 (0)	0.0026 (J)	0.0029 (J)	0.0043 (J)	
5/24/2017	0.0105 (1)	0.0317 / 1\	0.0020 (0)	0.0023 (0)	0.00+0 (0)	
	0.0105 (J)	0.0317 (J)	0.0022 (1)	0.0035 (1)	0.004271	
4/3/2018	0.000 (1)	0.024 (!)	0.0023 (J)	0.0025 (J)	0.0043 (J)	
4/4/2018	0.008 (J)	0.031 (J)	0.0000 (1)			
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)		(0)	0.013 (J)
3/27/2020	0.0000 (0)		0.002 (J)	0.0026 (J)		0.0.0 (0)
3/30/2020		0.038	0.002 (0)	0.0020 (0)		
3/31/2020		0.000			0.0043 (J)	
			0.0026 (J)	0.0033 (1)	0.0043 (J)	
9/16/2020			0.0020 (J)	0.0033 (J)	0.00471	
9/17/2020	0.0175				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)				
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	HGWC-12	HGWC-13	HGWC-7	HGWC-8	HGWC-9	MW-19
2/9/2022	0.01 (J)				0.0041 (J)	0.0067 (J)
2/10/2022		0.031	0.0022 (J)	0.003 (J)		
8/3/2022	0.0068 (J)	0.029 (J)	0.0019 (J)	0.0026 (J)		
8/4/2022					0.0036 (J)	0.013 (J)
8/11/2022			0.0019 (J)			
1/26/2023	0.0058 (J)	0.04			0.0032 (J)	0.0038 (J)
1/27/2023			0.0018 (J)			
2/1/2023				0.0015 (J)		
Mean	0.009248	0.03414	0.002958	0.003196	0.004596	0.01046
Std. Dev.	0.00235	0.006137	0.002614	0.002599	0.002319	0.003347
Upper Lim.	0.01048	0.03735	0.0026	0.0029	0.0044	0.01297
Lower Lim.	0.008019	0.03093	0.002	0.0025	0.004	0.008428

	MW-20	MW-24D	MW-25D	MW-26D	MW-27D	MW-28D
3/12/2019						0.011 (J)
3/13/2019	0.0016 (J)	0.0029 (J)		0.0033 (J)	0.0097 (J)	
3/14/2019			0.05			
4/2/2019	0.0015 (J)					0.0052 (J)
4/3/2019			0.047 (J)	0.0034 (J)		
4/4/2019					0.0069 (J)	
4/8/2019		0.0027 (J)				
9/25/2019	<0.03					
9/26/2019		0.003 (J)		0.0041 (J)	0.0055 (J)	0.0055 (J)
9/27/2019			0.047			
3/2/2020	0.00082 (J)					
3/3/2020			0.05			
3/4/2020		0.0026 (J)		0.03 (J)	0.0047 (J)	0.015 (J)
3/26/2020			0.054			
3/27/2020	0.0012 (J)					0.014 (J)
3/30/2020		0.0027 (J)				
3/31/2020				0.0036 (J)		
4/2/2020					0.0068 (J)	
9/17/2020	<0.03			0.0032 (J)		
9/18/2020			0.046		0.0084 (J)	
9/21/2020		0.0024 (J)				0.0053 (J)
2/10/2021						0.0092 (J)
2/11/2021	0.001 (J)					
2/12/2021			0.045			
2/16/2021		0.0028 (J)		0.0038 (J)	0.0078 (J)	
3/12/2021					0.009 (J)	
3/15/2021	0.0011 (J)					0.013 (J)
3/16/2021			0.049			
3/17/2021		0.0027 (J)		0.004 (J)		
8/17/2021	0.00091 (J)			0.0036 (J)	0.0079 (J)	
8/18/2021						0.0086 (J)
8/19/2021		0.0027 (J)	0.046			
2/9/2022			0.048	0.0039 (J)		
2/10/2022	0.00099 (J)	0.0029 (J)			0.0086 (J)	0.014 (J)
8/3/2022		0.0024 (J)			0.0063 (J)	
8/4/2022	0.00075 (J)		0.04	0.0033 (J)		0.0088 (J)
1/26/2023	<0.03	0.0025 (J)	0.036	0.0031 (J)		0.011 (J)
1/27/2023					0.0072 (J)	
Mean	0.008322	0.002692	0.0465	0.005775	0.0074	0.01005
Std. Dev.	0.01307	0.0001929	0.004719	0.007636	0.00146	0.003534
Upper Lim.	0.03	0.002843	0.0502	0.0041	0.008546	0.01282
Lower Lim.	0.00082	0.00254	0.0428	0.0032	0.006254	0.007277

	MW-29
3/12/2019	0.0024 (J)
4/2/2019	0.0021 (J)
9/24/2019	0.0022 (J)
3/2/2020	0.0025 (J)
3/30/2020	0.0023 (J)
9/16/2020	0.0021 (J)
2/15/2021	0.0024 (J)
3/15/2021	0.0022 (J)
8/16/2021	0.0021 (J)
2/10/2022	0.0023 (J)
8/3/2022	0.0018 (J)
1/26/2023	0.0019 (J)
Mean	0.002192
Std. Dev.	0.0002065
Upper Lim.	0.002354
Lower Lim.	0.00203

	HGWC-10	HGWC-11	HGWC-13	HGWC-9
5/23/2016	<0.0002	<0.0002	<0.0002	<0.0002
7/12/2016	<0.0002	<0.0002	<0.0002	<0.0002
9/1/2016	<0.0002	<0.0002	<0.0002	<0.0002
10/20/2016				<0.0002
10/24/2016	<0.0002	<0.0002	<0.0002	
12/6/2016				<0.0002
12/7/2016	<0.0002	<0.0002	<0.0002	
1/26/2017	5E-05 (J)	5E-05 (J)	4E-05 (J)	4E-05 (J)
3/22/2017	<0.0002	<0.0002	<0.0002	<0.0002
5/23/2017				<0.0002
5/24/2017	<0.0002	<0.0002	5E-05 (J)	
4/3/2018				<0.0002
4/4/2018	<0.0002	<0.0002	<0.0002	
3/13/2019	<0.0002	<0.0002	<0.0002	<0.0002
3/3/2020	<0.0002	<0.0002		
3/4/2020			<0.0002	<0.0002
2/12/2021		<0.0002		
2/15/2021	<0.0002			
2/16/2021				<0.0002
2/22/2021			<0.0002	
2/9/2022	<0.0002	<0.0002		<0.0002
2/10/2022			<0.0002	
8/3/2022	<0.0002	<0.0002	<0.0002	
8/4/2022				<0.0002
1/26/2023		<0.0002	<0.0002	<0.0002
1/27/2023	<0.0002			
Mean	0.00019	0.00019	0.0001793	0.0001893
Std. Dev.	3.873E-05	3.873E-05	5.457E-05	4.131E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5E-05	5E-05	5E-05	4E-05

	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		

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-7	HGWC-8
8/16/2021					0.045	
8/17/2021	0.0012 (J)					
8/18/2021		0.038	0.045			0.48
8/19/2021				0.032		
2/9/2022	<0.01	0.03	0.042			
2/10/2022				0.033	0.045	0.34
8/3/2022	0.00079 (J)	0.027	0.047	0.035	0.038	0.29
8/11/2022					0.044	
1/26/2023		0.022	0.048	0.023		
1/27/2023	<0.01				0.039	
2/1/2023						0.29
Mean	0.006591	0.0217	0.04735	0.03262	0.03928	0.4513
Std. Dev.	0.004354	0.008891	0.003411	0.004987	0.006866	0.06596
Upper Lim.	0.01	0.02635	0.04914	0.03523	0.04271	0.4856
Lower Lim.	0.0014	0.01705	0.04557	0.03001	0.03586	0.4241

	HGWC-9	MW-19	MW-24D	MW-25D	MW-26D	MW-27D
5/23/2016	0.0187					
7/12/2016	0.0229					
9/1/2016	0.0239					
10/20/2016	0.477					
12/6/2016	0.0236					
1/26/2017	0.0234					
3/22/2017	0.0219					
5/23/2017	0.0242					
4/3/2018	0.025					
6/6/2018	0.027					
10/2/2018	0.028					
3/13/2019	0.028		<0.01		<0.01	<0.01
3/14/2019		0.057		0.0022 (J)		
4/3/2019	0.03	0.04		<0.01	0.0083 (J)	
4/4/2019						0.0018 (J)
4/8/2019			0.00027 (J)			
9/26/2019			<0.01		0.017	0.0042 (J)
9/27/2019	0.033	0.063		<0.01		
11/25/2019					0.02	
3/3/2020				<0.01		
3/4/2020	0.031	0.032	<0.01		0.0074 (J)	0.0058 (J)
3/26/2020		0.033		<0.01		
3/30/2020			<0.01			
3/31/2020	0.031				0.0093 (J)	
4/2/2020						0.003 (J)
9/17/2020	0.03				0.014	
9/18/2020				0.00094 (J)		0.0018 (J)
9/21/2020		0.064	0.00099 (J)			
2/12/2021		0.046		<0.01		
2/16/2021	0.035		0.00096 (J)		0.022	0.0019 (J)
3/12/2021						0.0008 (J)
3/16/2021	0.035			<0.01		
3/17/2021		0.043	0.001 (J)		0.023	
8/17/2021	0.035				0.024	0.0016 (J)
8/18/2021		0.032				
8/19/2021			0.00087 (J)	<0.01		
2/9/2022	0.034	0.011		<0.01	0.028	
2/10/2022			0.0008 (J)			0.0017 (J)
8/3/2022			0.00095 (J)			0.002 (J)
8/4/2022	0.033	0.039		<0.01	0.028	
1/26/2023	0.021	0.012	0.0012 (J)	<0.01	0.028	
1/27/2023						0.0014 (J)
Mean	0.04746	0.03933	0.00392	0.008595	0.018	0.002583
Std. Dev.	0.09377	0.01715	0.004496	0.003292	0.008412	0.001576
Upper Lim.	0.033	0.05279	0.01	0.01	0.02425	0.003636
Lower Lim.	0.0236	0.02587	0.0008	0.0022	0.01175	0.001403

	MW-28D	MW-29	MW-6	MW-7
3/12/2019	0.013	0.0038 (J)		
3/13/2019			0.0021 (J)	<0.01
4/2/2019	0.028	0.0028 (J)		
4/3/2019			0.0021 (J)	<0.01
9/24/2019		0.0021 (J)		
9/26/2019	0.017		0.0026 (J)	0.0033 (J)
3/2/2020		0.0025 (J)		
3/3/2020			0.0022 (J)	<0.01
3/4/2020	0.009 (J)			
3/27/2020	0.0068 (J)		0.0026 (J)	
3/30/2020		0.0029 (J)		<0.01
9/16/2020		0.0021 (J)		
9/21/2020	0.018		0.0025 (J)	0.0015 (J)
2/10/2021	0.02			
2/15/2021		0.0029 (J)		0.0015 (J)
2/16/2021			0.0025 (J)	
3/15/2021	0.013	0.0031 (J)		0.0015 (J)
3/16/2021			0.0023 (J)	
8/16/2021		0.0027 (J)		
8/17/2021			0.0027 (J)	0.003 (J)
8/18/2021	0.022			
2/8/2022				0.0012 (J)
2/9/2022			0.0026 (J)	
2/10/2022	0.0031 (J)	0.0036 (J)		
8/3/2022		0.0032 (J)	0.0028 (J)	
8/4/2022	0.011			0.0014 (J)
1/26/2023	0.0025 (J)	0.0029 (J)	0.0029 (J)	<0.01
Mean	0.01362	0.002883	0.002492	0.005283
Std. Dev.	0.007735	0.0005149	0.0002644	0.004211
Upper Lim.	0.01969	0.003287	0.002699	0.01
Lower Lim.	0.007547	0.002479	0.002284	0.0014

	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	<0.005	.0.005	
3/4/2020			-0.005	<0.005		<0.005	
3/26/2020			<0.005		.0.005		
3/27/2020				.0.005	<0.005		
3/30/2020		0.010		<0.005		-0.005	
3/31/2020	0.000 (1)	0.019				<0.005	
4/1/2020	0.002 (J) <0.005				<0.005		
9/16/2020	<0.005				<0.005	<0.005	
9/17/2020 9/18/2020		0.0042 (1)	<0.005			<0.005	
9/21/2020		0.0042 (J)	<0.005	0.0016 (J)			
2/12/2021		0.0079 (J)	<0.005	0.0010 (3)			
2/12/2021	0.0028 (J)	0.0079 (3)	<0.005				
2/16/2021	0.0028 (3)				<0.005	<0.005	
2/22/2021				<0.005	~ 0.003	~0.003	
3/12/2021	<0.005			<0.005			
3/15/2021	10.000				<0.005		
3/16/2021		0.015	<0.005		-0.000	<0.005	
3/17/2021		0.0.0	0.000	<0.005		0.000	
8/17/2021	<0.005			3.550		<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	
		. ,					

	HGWC-10	HGWC-11	HGWC-12	HGWC-13	HGWC-8	HGWC-9
2/10/2022				<0.005	<0.005	
8/3/2022	0.0017 (J)	0.0057	<0.005	<0.005	<0.005	
8/4/2022						<0.005
1/26/2023		0.01	<0.005	<0.005		<0.005
1/27/2023	0.0035 (J)					
2/1/2023					<0.005	
Mean	0.004174	0.0102	0.00483	0.004643	0.004887	0.004943
Std. Dev.	0.001266	0.007153	0.0008132	0.001203	0.0005421	0.0002711
Upper Lim.	0.005	0.01395	0.005	0.005	0.005	0.005
Lower Lim.	0.0031	0.006463	0.0011	0.0016	0.0024	0.0037

	MW-19	MW-27D	MW-5	MW-7
3/13/2019		<0.005	0.0033 (J)	0.0016 (J)
3/14/2019	<0.005			
4/3/2019	0.007 (J)		0.0027 (J)	<0.005
4/4/2019		0.00012 (J)		
9/25/2019			0.0021 (J)	
9/26/2019		<0.005		0.0014 (J)
9/27/2019	0.0013 (J)			
3/2/2020			0.0041 (J)	
3/3/2020				<0.005
3/4/2020	0.0044 (J)	<0.005		
3/26/2020	0.0053 (J)		0.0039 (J)	
3/30/2020				0.0014 (J)
4/2/2020		<0.005		
9/17/2020			0.0028 (J)	
9/18/2020		<0.005		
9/21/2020	0.0033 (J)			0.0026 (J)
2/12/2021	0.0021 (J)			
2/15/2021				<0.005
2/16/2021		<0.005	0.0035 (J)	
3/12/2021		<0.005		
3/15/2021				0.0021 (J)
3/16/2021			0.0026 (J)	
3/17/2021	<0.005			
8/17/2021		<0.005	0.0017 (J)	<0.005
8/18/2021	0.0026 (J)			
2/8/2022				0.0015 (J)
2/9/2022	0.0036 (J)		0.0027 (J)	
2/10/2022		<0.005		
8/3/2022		<0.005	0.0032 (J)	
8/4/2022	0.0022 (J)			<0.005
1/26/2023	0.0056		0.0045 (J)	<0.005
1/27/2023		<0.005		
Mean	0.00395	0.004593	0.003092	0.003383
Std. Dev.	0.001709	0.001409	0.0008218	0.00172
Upper Lim.	0.00488	0.005	0.003736	0.005
Lower Lim.	0.002282	0.00012	0.002447	0.0014

			Fidiliti	ammond Chem.	Southern Company	Data: Hallilloliu AF-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		(1)	(1)	8E-05 (J)		
5/24/2017	8E-05 (J)	9E-05 (J)	0.0003 (J)	(-)		
4/3/2018	02 00 (0)	02 00 (0)	0.0000 (0)	<0.001		
4/4/2018	<0.001	<0.001	0.00032 (J)	-0.001		
6/5/2018	<0.001	40.001	0.00032 (J) 0.00035 (J)			
	<0.001	~0.001	0.00033 (3)	<0.001		
6/6/2018		<0.001		<0.001		
10/2/2018	-0.001	-0.001		<0.001		
10/3/2018	<0.001	<0.001	0.00005 (1)			
10/5/2018			0.00025 (J)			•••
3/12/2019				<0.001		<0.001
3/13/2019	<0.001		0.00039 (J)			
3/14/2019		<0.001			<0.001	
4/2/2019						<0.001
4/3/2019	<0.001	<0.001		<0.001	<0.001	
4/5/2019			0.00034 (J)			
9/24/2019				0.00011 (J)		
9/26/2019			0.00039 (J)			<0.001
9/27/2019	<0.001	8.8E-05 (J)			0.00027 (J)	
3/3/2020	<0.001	6.6E-05 (J)		6.1E-05 (J)		
3/4/2020			0.00056 (J)		0.00026 (J)	9.2E-05 (J)
3/26/2020		8E-05 (J)			0.00026 (J)	
3/27/2020				7.7E-05 (J)		<0.001
3/30/2020			0.00048 (J)			
3/31/2020	<0.001					
9/16/2020				<0.001		
9/18/2020	<0.001	<0.001				
9/21/2020			0.00036 (J)		0.0003 (J)	<0.001
2/10/2021						<0.001
2/12/2021	<0.001	<0.001			0.00019 (J)	
2/16/2021				<0.001		
2/22/2021			0.0003 (J)			
3/15/2021				<0.001		<0.001
3/16/2021	<0.001	<0.001				
3/17/2021			0.00037 (J)		0.00026 (J)	
8/18/2021	<0.001	<0.001		<0.001	0.00023 (J)	<0.001
8/19/2021			0.0002 (J)			
2/9/2022	<0.001	<0.001			<0.001	
2/10/2022			<0.001	<0.001		<0.001
8/3/2022	<0.001	<0.001	<0.001	0.00018 (J)		
8/4/2022					0.00026 (J)	<0.001

	HGWC-11	HGWC-12	HGWC-13	HGWC-8	MW-19	MW-28D
1/26/2023	<0.001	<0.001	0.00031 (J)		<0.001	<0.001
2/1/2023				<0.001		
Mean	0.00092	0.0007663	0.0003825	0.0007247	0.0005025	0.0009243
Std. Dev.	0.0002651	0.0004029	8.561E-05	0.0004261	0.0003683	0.0002621
Upper Lim.	0.001	0.001	0.0004273	0.001	0.001	0.001
Lower Lim.	8E-05	0.0002	0.0003377	0.00011	0.00023	9.2E-05

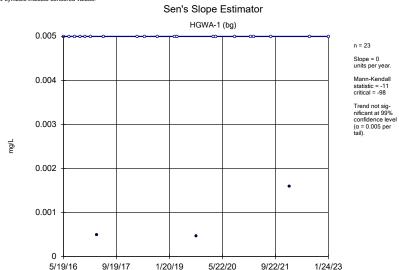
	MW-29	MW-6
3/12/2019	<0.001	
3/13/2019		<0.001
4/2/2019	<0.001	
4/3/2019		<0.001
9/24/2019	6.4E-05 (J)	
9/26/2019		<0.001
3/2/2020	<0.001	
3/3/2020		8.2E-05 (J)
3/27/2020		<0.001
3/30/2020	<0.001	
9/16/2020	<0.001	
9/21/2020		<0.001
2/15/2021	<0.001	
2/16/2021		<0.001
3/15/2021	<0.001	
3/16/2021		<0.001
8/16/2021	<0.001	
8/17/2021		<0.001
2/9/2022		<0.001
2/10/2022	<0.001	
8/3/2022	<0.001	<0.001
1/26/2023	<0.001	<0.001
Mean	0.000922	0.0009235
Std. Dev.	0.0002702	0.000265
Upper Lim.	0.001	0.001
Lower Lim.	6.4E-05	8.2E-05

FIGURE I.

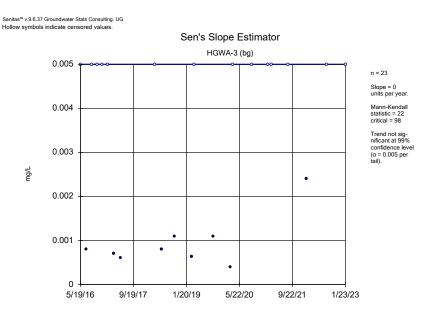
Appendix IV Trend Tests - All Results (No Significant)

	Plant Hammond Client: Southern Company Data: Hammond AP-1 Printed 4/14/2023, 1:16 PM										
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Arsenic (mg/L)	HGWA-1 (bg)	0	-11	-98	No	23	86.96	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-2 (bg)	0	34	98	No	23	60.87	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-3 (bg)	0	22	98	No	23	60.87	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-43D (bg)	0	5	30	No	10	40	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWA-44D (bg)	0	-10	-30	No	10	70	n/a	n/a	0.01	NP
Arsenic (mg/L)	HGWC-13	0.01498	85	98	No	23	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-1 (bg)	0	0	105	No	24	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-2 (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-3 (bg)	0	0	105	No	24	100	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-43D (bg)	-0.0007215	-20	-30	No	10	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWA-44D (bg)	0.000373	20	30	No	10	0	n/a	n/a	0.01	NP
Molybdenum (mg/L)	HGWC-8	-0.01469	-99	-105	No	24	0	n/a	n/a	0.01	NP

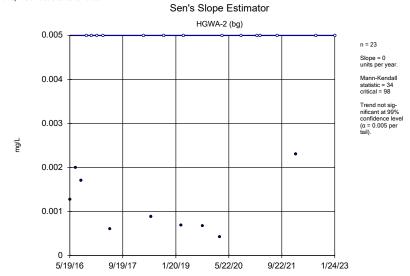
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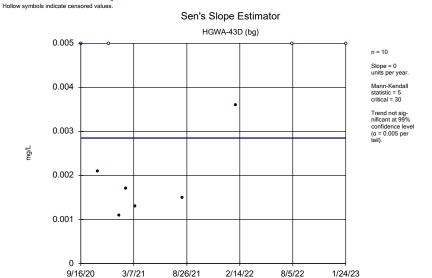
Constituent: Arsenic Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Arsenic Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

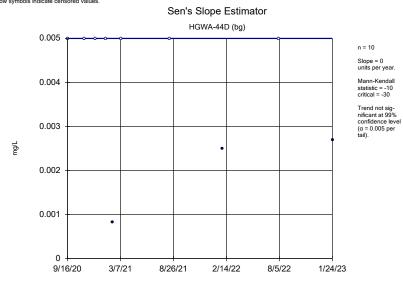


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Plant Hammond Client: Southern Company Data: Hammond AP-1

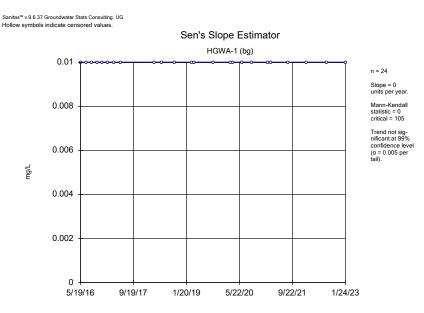


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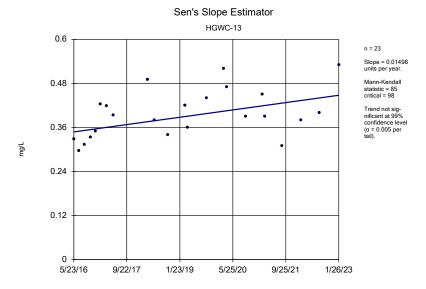
Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Arsenic Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

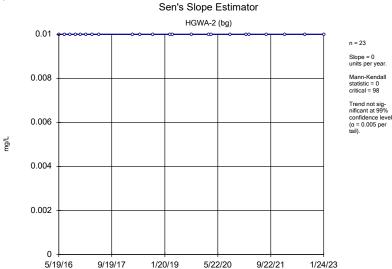


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Plant Hammond Client: Southern Company Data: Hammond AP-1

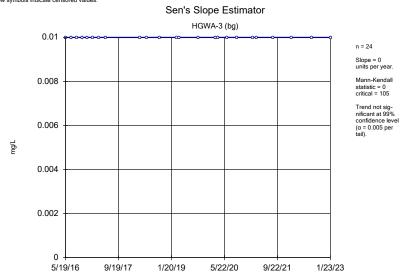


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Plant Hammond Client: Southern Company Data: Hammond AP-1



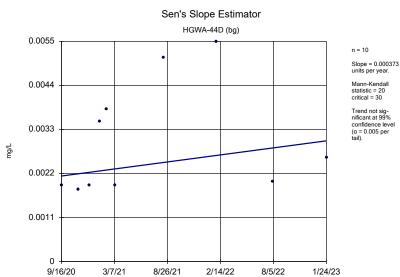


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Plant Hammond Client: Southern Company Data: Hammond AP-1

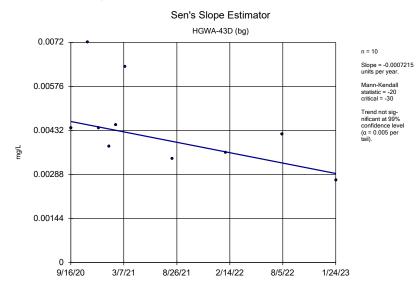


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Plant Hammond Client: Southern Company Data: Hammond AP-1



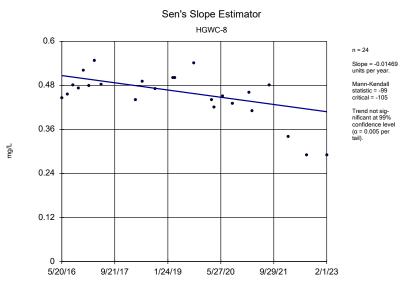


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Plant Hammond Client: Southern Company Data: Hammond AP-1



Constituent: Molybdenum Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1

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Constituent: Molybdenum Analysis Run 4/14/2023 1:14 PM View: Appendix IV - Trend Tests
Plant Hammond Client: Southern Company Data: Hammond AP-1