



2023 ANNUAL GROUNDWATER MONITORING REPORT

Former Charles R. Lowman Power
Plant Leroy, Washington County,
Alabama



PREPARED FOR:

PowerSouth Energy Cooperative
Andalusia, Alabama

DATE

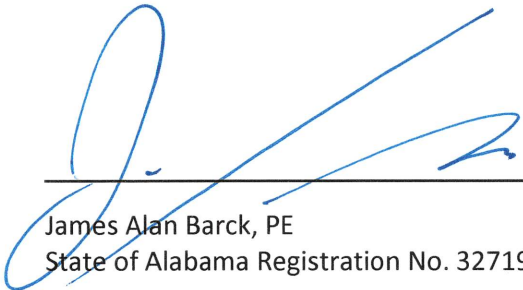
January 2024

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CERTIFICATION STATEMENT

"I certify under penalty of law that I am a registered professional engineer familiar with the design and operation of the CCR waste Management Unit at the Charles R. Lowman Power Plant. The activities and procedures discussed in the following Annual Groundwater Monitoring Report, in my opinion, meet the regulatory requirements under 40 CFR 257.70 and ADEM 335-13-15-.04 as they apply to the Charles R. Lowman Power Plant facility. The information submitted herein, to the best of my knowledge and belief, is true, accurate, and complete. I am aware that there are significant penalties for submitting false information."


James Alan Barck, PE
State of Alabama Registration No. 32719



1-28-24
Date

EXECUTIVE SUMMARY

The following report provides a summary of the activities undertaken at the PowerSouth Charles R. Lowman generating facility related to the groundwater monitoring requirements for Coal Combustion Residuals (CCR) management units found in 40 CFR 257.90 and ADEM Admin. Code r. 335-13-15-06(1). This report provides documentation of the results of compliance groundwater monitoring activities completed at the Lowman facility between January 1, 2023 and December 31, 2023 including activities conducted in response to an Administrative Order (AO) No. 18-099-GW issued to PowerSouth by ADEM on August 15, 2018.

Detection Monitoring activities were initiated at the Lowman Power Plant in October 2017. Assessment Groundwater Monitoring in accordance with the requirements of 40 CFR 257, and subsequently ADEM Admin. Code r. 335-13-15, was initiated at the Lowman facility in April 2018. For the current period, Assessment Groundwater Monitoring activities were conducted during April and October 2023. Based on the groundwater monitoring results, concentrations of arsenic, cobalt, and lithium are indicated to be present at statistically significant levels (SSLs) above the Groundwater Protection Standards established for these constituents.

SSLs currently are indicated for these constituents in the corresponding wells below:

Arsenic	MW-17, MW-20, and MW-23
Cobalt	MW-3, MW-4, MW-5, MW-14, MW-14A, and MW-17
Lithium	MW-5A, MW-7, MW-11, MW-14B, MW-17, MW-23, MW-24, and MW-25

SSLs have previously been indicated for these constituents during prior sampling events.

In response to the indicated SSLs, PowerSouth has undertaken the performance of an Assessment of Corrective Measures (ACM) in accordance with the requirements of 40 CFR 257.96 and ADEM Admin. Code r. 335-13-15-.06(7) to determine the appropriate course of corrective action for addressing the observed concentrations. Semi-annual Assessment Monitoring and reporting will continue to be conducted at the Lowman Facility.



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1.0 INTRODUCTION

The following report provides a summary of the activities undertaken at the PowerSouth Charles R. Lowman generating facility related to the groundwater monitoring requirements for Coal Combustion Residuals (CCR) management units found in 40 CFR 257.90 and ADEM Administrative Code 335-13-15-06(1). This report provides documentation of the activities completed at the Lowman facility between January 1, 2023 and December 31, 2023 including activities conducted in response to an Administrative Order (AO) No. 18-099-GW issued to PowerSouth by ADEM on August 15, 2018.

2.0 SITE DETAILS

The Charles R. Lowman Power Plant was a coal fired generating facility located along the west bank of the Tombigbee River near the community of Leroy in Washington County, Alabama (Figure 1). The former coal-fired power plant consisted of three generating units, coal off-loading and storage facilities, and on-site coal ash and process waste storage units (Figure 2). Coal-fired generating operations at the Lowman facility ceased in October 2020. The regulated CCR management unit remaining at the Lowman facility consists of the Unit #1 Ash Pond, the Unit #2/3 Ash Pond, and the Flue-Gas Desulfurization (FGD) pond as shown in Figure 2.

3.0 SITE PHYSICAL SETTING

The Lowman facility is located within the Alluvial-Deltaic Plain district which is characterized by broad, flat flood plain and terraces within the valleys of the Tombigbee and Alabama River systems. The topography in the area surrounding the site is relatively flat with a maximum relief of less than 20 feet. The facility is located at an elevation of approximately 45 feet above mean sea level (amsl) and about 40 feet above the base-flow level of the Tombigbee River.

3.1 Site Geology

The surficial geology of Washington County, Alabama is characterized by Tertiary aged sedimentary units which strike to the northwest and dip to the southwest. Along the major stream valleys of the Alabama and Tombigbee rivers the localized surficial geology is

dominated by Quaternary age alluvial sediments and stream terrace deposits.

The Lowman facility is located within the alluvial valley along the west bank of the Tombigbee River. The site geology is dominated by Quaternary fluvial channel and terrace deposits. The sedimentary units beneath the main generating facility consist of interbedded clays, clayey sand and sand to a depth of approximately 90 to 100 feet. These units overlie bedrock comprised of weathered limestone most likely attributable to the Marianna Limestone of the Oligocene Series of the Coastal Plain Province.

3.2 Site Hydrology

The hydrology of the shallow aquifer beneath the Lowman facility has been characterized through the installation of a network of piezometers and monitoring wells. The current CCR monitoring network at the facility consists of 31 monitoring wells and 2 piezometers. The locations of these monitoring points are shown in Figure 2. The uppermost aquifer beneath the facility ranges from approximately 5 to 30 feet below ground surface across the facility with seasonal groundwater levels fluctuating over a range of up to 28 feet.

4.0 SUMMARY OF CURRENT SITE ACTIVITIES

During the period of January 2023 through December 2023, semi-annual groundwater monitoring events were conducted at the Lowman Power Plant in accordance with the requirements of 40 CFR 257 and ADEM 335-13-15. Other activities completed during 2023 have included the installation of an additional down gradient well (TW-1) to help define the extent of the cobalt concentrations observed in monitoring well MW-3, and the relocation of monitoring wells MW-2 and MW-4 due to conflicts with redevelopment activities at Lowman Energy Center. PowerSouth also continues the evaluation of soil and groundwater data necessary to support the demonstration of monitored natural attenuation (MNA) as the selected remedy for the facility. These activities were performed as part of the Assessment of Corrective Measures (ACM) being conducted in response to indicated exceedances of the established groundwater protection standards at the facility.

4.1 Groundwater Sampling

Groundwater samples were collected from the facility's multi-unit monitoring well network following the procedures detailed in the revised Groundwater Sampling and Analysis Plan (CDG, 2023). The results of these activities are detailed in the following sections.

4.2 MW-3 Area Hydraulic Control System Conceptual Design

In response to elevated levels of cobalt indicated in monitoring well MW-3, PowerSouth completed the conceptual design for a hydraulic control system to be implemented in the area upgradient of MW-3. A detailed discussion of this system design was provided in the MW-3 Area Hydraulic Control System Remedial Design Workplan (B&V, 2022) which was submitted to ADEM in January 2022. Since that time, PowerSouth has installed a temporary down gradient well (TW-1) at the property boundary beyond MW-3. The results of the first two groundwater samples collected from TW-1 do not indicate the presence of cobalt or other constituents of concern at levels above the established GWPS. Details of the well installation and sampling activities are provided in PowerSouth's response to comments provided to ADEM on May 8, 2023, and a summary of the current data from TW-1 is provided in Appendix H. Implementation of the measures detailed in the hydraulic control plan have been suspended pending the collection and evaluation of additional groundwater data from the new down gradient well.

4.3 Relocation of Monitoring Wells MW-2 and MW-4

As part of the redevelopment of the Lowman Power Plant property, it was determined necessary, for structural safety concerns, to replace the current bridge spanning a lowland area on PowerSouth property along the approach to the new Lowman Energy Center facility. The new bridge is being constructed immediately adjacent to the existing span. The locations of the existing monitoring wells MW-2 and MW-4 were found to conflict with the limited area available for the routing of the new bridge. To alleviate these conflicts, it was proposed to relocate these two monitoring wells outside of the bridge construction area. This involve abandoning the existing monitoring wells MW-2 and MW-4 and re-installing replacement wells MW-2R and MW-4R as near as feasible to these well locations.

These activities were detailed in the Monitoring Well Abandonment and Reinstallation Plan (CDG, 2023) submitted to ADEM in May 2023 and approved on June 29, 2023. Activities associated with the well relocation were completed in July 2023. The abandonment and reinstallation activities were detailed in the Well Abandonment and Reinstallation Report prepared in October 2023. A copy of the report is included as Appendix I.

5.0 GROUNDWATER MONITORING PROGRAM

Groundwater sampling activities using the established multi-unit groundwater monitoring network at the Lowman facility have been on-going since March 2016. Eight independent background sampling events were conducted at the facility prior to the initiation of Detection Monitoring in October 2017. A detailed discussion of the sampling procedures used for collecting represented groundwater samples at the Lowman facility can be found in the revised Groundwater Sampling and Analysis Plan (CDG, 2023).

5.1 Detection Monitoring

In accordance with the requirements of 40 CFR 257, and subsequently ADEM 335-13-15, Detection Monitoring activities were initiated at the Lowman Power Plant in October 2017. During each semi-annual event groundwater samples are collected and submitted for laboratory analysis for the constituents included in Appendix III of 40 CFR Part 257 and Appendix III of ADEM 335-13-15. The Appendix III constituents include:

- Boron
- Calcium
- Chloride
- Fluoride
- Sulfate
- Total Dissolved Solids
- pH

As required under 40 CFR 257.93 and under ADEM 335-13-15-.06(4), Appendix III concentrations in wells down gradient of the CCR management units at the facility are compared to the concentrations of these constituents in the background monitoring wells

MW-1, MW-2, and MW-2R using the statistical procedures detailed in the revised Lowman Power Plant Statistical Analysis Plan (GSC, 2023).

As first discussed in the 2017 Annual Groundwater Monitoring Report (CDG, 2018), the results of the statistical evaluation conducted on the initial October 2017 Detection Groundwater Monitoring data indicated statistically significant increase (SSIs) above background levels for several of the Appendix III constituents in one or more of the down gradient wells. Confirmation sampling activities were conducted at the Lowman facility in December 2017 with those results confirming the indicated presence of SSIs.

In response to the indicated presence of SSIs for one or more of the Appendix III constituent concentrations, Assessment Groundwater Monitoring in accordance with the requirements of 40 CFR Part 257.95 and subsequently ADEM 335-13-15-.06(6) was initiated at the Lowman facility in April 2018.

5.2 Assessment Groundwater Monitoring

The on-going Assessment Monitoring at the Lowman Facility includes the collection and analysis of groundwater samples for the constituents listed in Appendix III and Appendix IV of 40 CFR Part 257 and Appendix IV of ADEM 335-13-15. The Appendix IV constituents include:

- | | |
|-------------|--------------------|
| - Antimony | - Lead |
| - Arsenic | - Lithium |
| - Barium | - Mercury |
| - Beryllium | - Molybdenum |
| - Cadmium | - Selenium |
| - Chromium | - Thallium |
| - Cobalt | - Combined Radium- |
| - Flouride | 226 & Radium-228 |

5.3 Establishment of GWPSs

As required under 40 CFR 257.95(h) and ADEM 335-13-15-.06(6)(h) GWPS have been established for each of the Appendix IV constituents. The GWPS have been developed

taking into account the observed range of concentrations within the background data set. The statistical methods used for establishing background are detailed in the revised Lowman Power Plant Statistical Analysis Plan. (GSC, 2023). The results of the current background calculations are included in Appendix G.

The calculated upper tolerance limit (UTL) for each of the Appendix IV constituents was compared to the published maximum contaminant levels (MCLs) for each of these constituents. The GWPS for each constituent was established based on the higher of either the background UTL or the published MCL. Table 3 summarizes these values and lists the established GWPS for each of the Appendix IV constituents. The MCLs for the constituents, cobalt, lead, lithium, and molybdenum, are based on the limits listed under 40 CFR 257.95(h)(2) and incorporated into ADEM 335-13-15-.06(6)(h)2 in October 2021. The GWPS for the Lowman Facility listed in Table 3 reflects these limits.

In accordance with the procedures outlined in Section 2.2 of the Revised Facility Statistical Analysis Plan. (GSC, 2023) background interwell UTLs are updated every two years by incorporating the recent screened data from the background wells into the existing background data set. The updated background UTLs for the Appendix IV constituents as of October 2023 are reflected in Table 3.

As shown in Table 3, cobalt was found to have a background UTL (0.013 mg/L) which is higher than the published limit of 0.006 mg/L. The GWPS for cobalt has therefore been established at the updated background limit of 0.013 mg/L.

6.0 GROUNDWATER MONITORING ACTIVITIES

Under the current Assessment Groundwater Monitoring program, the semi-annual sampling events were conducted at the Lowman facility during April and October 2023. Sampling activities during the April 2023 Semi-Annual event were delayed due to high level stage conditions being experienced along the Tombigbee River preventing access to many of the monitoring wells. Static water level measurements were taken within each monitoring well on April 18, 2023, and October 16, 2023. The depth to the static water level within each well was measured relative to the top of the casing using an electronic water

level indicator. Using the established top of casing elevations, groundwater levels relative to MSL were then calculated for each well. The water level measurements and calculated groundwater elevations are summarized in Table 1. Interpreted potentiometric surfaces for the shallow alluvial aquifer beneath the facility, based on the water level measurements taken on April 18 and October 16, 2023, are shown in Figure 3A and Figure 3B.

During the semi-annual events, groundwater samples were collected from each of the site monitoring wells. Prior to sample collection, each well was properly purged using low-flow methods until the field parameters of pH, conductivity, oxidation-reduction potential, and dissolved oxygen had stabilized, and the turbidity of the purged water was indicated to be below 5 NTUs. Well purging and sampling was conducted using the dedicated bladder pumps installed in each well and the field parameters were monitored during purging using a flow-thru cell equipped with a YSI multi-probe sonde and meter. Periodic measurements of flow rate, groundwater physical characteristics and parameters were recorded on the field sampling log for each well. Copies of the field sampling logs are included in Appendix C. A summary of the current and historical stabilized groundwater field parameters for each well is provided in Table 2 and Appendix B.

Following purging, groundwater samples were collected in laboratory-supplied, pre-preserved containers where appropriate and subsequently transported to the analytical laboratory under proper chain of custody and sample handling protocols. The laboratory results for the groundwater samples submitted during the 2023 semi-annual events are summarized in Table 2 and the analytical laboratory reports for the 2023 semi-annual events are included in Appendix E and Appendix F. As shown in Table 2, the analyses indicated detectable concentrations of each of the Appendix IV constituents in one or more of the groundwater samples submitted from the 2023 events. The reported concentrations of the Appendix IV constituents (arsenic, cobalt, and lithium) detected in each of the site monitoring wells based on the April and October 2023 semi-annual sampling events are illustrated in Figures 4A through 4F.

7.0 ASSESSMENT MONITORING RESULTS

7.1 Groundwater Movement

Based on water level measurements taken on April 18, 2023 and October 16, 2023 interpreted potentiometric surface maps for the alluvial aquifer beneath the Lowman facility were constructed and are illustrated in Figure 3A and Figure 3B. As can be seen in these figures, the predominant hydraulic gradient beneath the facility is to the east with minor components toward the south and southeast. This is consistent with the previously developed conceptual hydraulic model for the site.

7.2 Plume Delineation

The analytical results from the April and October 2023 semi-annual Assessment Monitoring events were evaluated to identify the presence and define the limit of potential groundwater impacts related to CCR management at the Lowman facility. The distribution of the key Appendix IV constituents arsenic, cobalt and lithium in groundwater across the site based on the October 2023 sampling results are illustrated in Figures 4A through 4C. As shown in these figures, it is difficult to discern a distinct plume with respect to any of these constituents in relation to the CCR management units.

7.3 SSL Determination

As required under 40 CFR 257.95(g) and ADEM Code 335-13-15-.06(6)(g) an evaluation of the Appendix IV constituent concentrations detected in the down gradient monitoring wells has been conducted with respect to the established GWPS. The evaluation of the down gradient groundwater concentrations was performed by Groundwater Stats Consulting (GSC) in accordance with the methods detailed in the Revised Lowman Power Plant Statistical Analysis Plan (GSC, 2023). The evaluation conducted by GSC involved constructing 95% confidence intervals based on the observed concentrations of each of the Appendix IV constituents in each of the down gradient wells. A statistically significant level (SSL) is indicated if the limits of the confidence interval constructed for each well/constituent pair falls entirely above the established GWPS. A copy of the evaluation provided by GSC which includes a detailed discussion of the statistical approach is included as Appendix G.

Based on this evaluation, and as summarized in Table 4, it has been determined that SSLs with respect to the GWPS exist for the following constituents in the corresponding wells:

Arsenic	MW-17, MW-20, and MW-23
Cobalt	MW-3, MW-4, MW-5, MW-14, MW-14A and MW-17
Lithium	MW-5A, MW-7, MW-11, MW-14B, MW-17, MW-23, MW-24, and MW-25

SSLs have previously been indicated for these constituents within each of these wells during prior sampling events.

8.0 SUMMARY AND CONCLUSIONS

A groundwater monitoring program continues to be implemented at the Charles R. Lowman Generating facility in accordance with the requirements of 40 CFR 257.90 and ADEM 335-13-15-.06(1) related to the CCR management units. Due to indicated SSIs in the concentrations of Appendix III constituents following the October 2017 Detection Monitoring event, Assessment Groundwater Monitoring was initiated at the Lowman facility in April 2018.

As required under 40 CFR 257.95(h) and ADEM Admin. Code r. 335-13-15-.06(6)(h), GWPS have been established for each of the Appendix IV constituents. The results of the Assessment Monitoring sample analyses from the eight completed semi-annual events indicate the presence of SSLs for several of the Appendix IV constituents at concentrations above the established GWPS. In response to the indicated SSLs, PowerSouth has implemented an Assessment of Corrective Measures (ACM) in accordance with the requirements of 40 CFR 257.96 and ADEM Admin. Code r. 335-13-15-.06(7) to determine the appropriate course of corrective action for addressing the observed concentrations.

Based on the historical groundwater monitoring data and the results of the 2023 semi-annual sampling events, concentrations of the Appendix IV constituents arsenic, cobalt, and lithium are indicated to be present at levels representing SSLs above the GWPS for these

constituents. Arsenic and cobalt have been determined to be present at concentrations exceeding the established GWPS near the down gradient property boundary.

9.0 RECOMMENDATIONS

All of the constituents included under Appendix III and Appendix IV are naturally occurring and would therefore be expected to be present at varying concentrations within the shallow aquifer beneath the facility under ambient conditions. As discussed in more detail within the 2019 Annual Groundwater Monitoring Report (CDG, 2019b), there is reasonable evidence to support a conclusion that the detected concentrations within many of the site wells could be attributable to natural occurrence rather than solely related to the CCR waste management activities at the facility. PowerSouth is continuing to conduct investigative activities to support this conclusion as well as to demonstrate that any residual groundwater impacts related to the CCR management activities could be readily addressed through natural attenuation processes occurring beneath and within the boundaries of the Lowman facility.

At the present time, it has yet to be determined to what extent the concentrations occurring within groundwater beneath the Lowman facility are attributable to the site activities versus the naturally occurring levels of these constituents. PowerSouth will continue to investigate the nature and monitor the extent of the observed groundwater concentrations.

PowerSouth has provided notification to the owner of the property to the south of the Lowman facility concerning the indicated presence of a statistically significant level of cobalt in monitoring well MW-3. PowerSouth has pursued an access agreement to install an off-site delineation well on the adjacent property to the south of the Lowman facility. The negotiations with the adjacent property owner were unsuccessful.

In April 2023 PowerSouth installed a temporary monitoring well (TW-1) along the property boundary to the south of MW-3. The analytical results from the initial two groundwater samples collected from this location indicated that the concentrations of all the Appendix IV constituents, including cobalt, were below the GWPS established for the site. Additional

sampling data will be necessary from this location in order to make a final determination, however the current data would support a conclusion that the extent of any groundwater impacts from the CCR management unit in this area are contained within the Lowman site boundaries.

In accordance with the requirements of 40 CFR §257.95(g)(2) and ADEM Admin. Code. 335-13-15.06(6)(g)3, PowerSouth will continue to investigate and implement corrective measures as necessary to protect human health and alleviate any potential environmental impacts.

It is recommended that groundwater Assessment Monitoring activities, as required under 40 CFR 257.95 and ADEM 335-13-15-.06(6), continue at the Lowman Facility along with implementation of the corrective action approach developed in accordance with the requirements of 40 CFR 257.96, ADEM 335-13-15-.06(7) and detailed in the submitted Revised ACM.

10.0 REFERENCES

B&V, 2022. MW-3 Area Hydraulic Control System Remedial Design Workplan; Black & Veatch; 48 pp.

CDG, 2019a. Comprehensive Investigation Report – Charles R. Lowman Power Plant, Leroy, Washington County, Alabama; CDG Engineers and Associates, Inc.; 93 pp.

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CDG, 2023. Monitoring Well Abandonment and Reinstallation Plan – Charles R. Lowman Power Plant, Leroy, Washington County Alabama; CDG, Inc.; 13 pp.

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GSC, 2023. Revised PowerSouth Energy Cooperative Lowman Power Plant Statistical Analysis Plan, Groundwater Stats Consulting, LLC; 122 pp.

TABLES



TABLE 1
2023 Annual Groundwater Monitoring Data
Charles R. Lowman Power Plant
Leroy, Alabama

Well/ Piezometer Number	Casing Elevation ft-amsl	Total Depth ft - btc	Bottom Elevation ft-amsl	Water Level Measurements			
				4/18/2023		10/16/2023	
				ft - btc	ft-amsl	ft - btc	ft-amsl
MW-1 (BG)	29.17	24.30	4.87	6.20	22.97	11.06	18.11
MW-2 (BG)	38.18	36.47	1.71	17.37	20.81	Abandoned	
MW-2R (BG)	30.10	34.85	-4.75			17.81	12.29
MW-3	28.55	24.58	3.97	6.69	21.86	15.61	12.94
MW-4	36.40	28.32	8.08	15.85	20.55	Abandoned	
MW-4R	32.56	29.40	3.16			14.45	18.11
MW-5	37.41	29.35	8.06	16.29	21.12	BTP	
MW-5A	37.23	39.02	-1.79	16.11	21.12	30.15	7.08
PZ-6	49.30	44.30	5.00	27.20	22.10	41.70	7.60
MW-6	30.14	29.26	0.88	9.45	20.69	21.15	8.99
MW-7	34.20	32.65	1.55	12.40	21.80	25.83	8.37
MW-8	32.91	37.68	-4.77	11.09	21.82	29.95	2.96
MW-9	32.63	29.01	3.62	5.91	26.72	12.02	20.61
MW-10	34.14	41.46	-7.32	14.61	19.53	32.15	1.99
PZ-13	34.56	37.45	-2.89	12.38	22.18	26.04	8.52
MW-11	45.29	43.10	2.19	22.81	22.48	33.50	11.79
MW-12	43.31	38.42	4.89	21.21	22.10	BTP	
MW-12A	43.39	46.31	-2.92	21.46	21.93	37.45	5.94
MW-13	42.26	29.25	13.01	12.43	29.83	19.06	23.20
MW-13A	41.61	62.90	-21.29	20.82	20.79	29.80	11.81
MW-14	38.56	29.48	9.08	17.43	21.13	BTP	
MW-14A	38.50	38.98	-0.48	17.14	21.36	31.18	7.32
MW-14B	38.64	64.00	-25.36	17.58	21.06	31.60	7.04
MW-15	31.51	33.18	-1.67	10.55	20.96	24.82	6.69
MW-16	34.70	42.23	-7.53	13.50	21.20	27.64	7.06
MW-17	36.23	41.70	-5.47	15.01	21.22	29.08	7.15
MW-18	32.64	53.03	-20.39	14.31	18.33	28.33	4.31
MW-19	50.76	53.13	-2.37	29.81	20.95	44.72	6.04
MW-20	30.01	33.41	-3.40	11.28	18.73	27.81	2.20
MW-21	30.00	36.45	-6.45	9.50	20.50	26.69	3.31
MW-22	30.24	33.55	-3.31	10.48	19.76	27.04	3.20
MW-23	38.86	43.85	-4.99	17.66	21.20	32.00	6.86
MW-24	40.84	53.08	-12.24	18.46	22.38	32.90	7.94
MW-25	39.65	51.12	-11.47	18.42	21.23	32.76	6.89
MW-26	33.94	42.35	-8.41	12.58	21.36	27.91	6.03
River Stage					17.80		1.29

BG - Monitoring Wells MW-1, MW-2, MW-2R are the designated background groundwater monitoring locations.

TABLE 2
2023 Groundwater Monitoring Results and Field Parameters
Charles R. Lowman Power Plant
Leroy, Alabama

	Sample Date		MW-1		MW-2 / MW-2R		MW-3		MW-4 / MW-4R	
			4/11/2023	10/25/2023	4/11/2023	10/25/2023	4/10/2023	10/24/2023	4/10/2023	10/25/2023
Field Parameters	Units	GWPS								
pH	Std. Units	-	5.56	5.84	4.57	5.35	4.75	4.94	5.58	6.35
Temperature	C°	-	18.9	22.3	21.5	19.9	17.4	21.6	20.4	24.1
Conductivity	µS/Cm	-	235	195	55	224	64	55	1421	815
Dissolved Oxygen	mg/L	-	0.43	0.41	0.40	0.6	0.46	0.98	0.42	1.29
Turbidity	NTUs	-	3.9	0.7	4.6	4.1	3.8	0.1	2.0	4.1
ORP	Mv	-	57.6	43.7	246.0	124.6	104.1	19.8	-38.7	-25.2
Appendix III										
Boron	mg/L	-	0.019	0.018	0.018	0.015	0.019	0.036	2.04	2.14
Calcium	mg/L	-	33.2	26.9	3.41	17.2	6.57	3.92	210	98.6
Chloride	mg/L	250	1.87	2.13	1.14	10.8	1.68	1.52	397	100
Sulfate	mg/L	250	29.9	21.9	20.9	46.2	26.4	19.4	678	250
TDS	mg/L	500	188	118	58.4	150	<25.2	<25.0	1600	610
Appendix IV										
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0012	0.0031	<0.0010	0.0085	<0.0010	<0.0010	0.0212	0.0040
Barium	mg/L	2.0	0.117	0.1310	0.064	0.0750	0.092	0.0890	0.05	0.1300
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0033	<0.0010
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.007	0.0070	0.01	0.0190	0.021	0.0220	0.58	0.0160
Fluoride	mg/L	4	<0.125	0.1620	<0.125	<0.125	<0.125	0.1570	0.4	0.1360
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0013	<0.0010
Lithium	mg/L	0.040	<0.008	<0.0040	<0.008	<0.0040	<0.008	<0.0040	<0.008	<0.0040
Mercury	mg/L	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.0020
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.001
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium-226	pCi/L	-	0.249	-0.337	0.3620	-0.263	0.1950	-0.172	0.0690	-0.114
Radium-228	pCi/L	-	0.578	0.840	0.273	0.432	0.483	0.229	1.47	0.926
Combined Radium	pCi/L	5	0.827	0.840	0.635	0.432	0.678	0.229	1.54	0.926

TABLE 2
2023 Groundwater Monitoring Results and Field Parameters
Charles R. Lowman Power Plant
Leroy, Alabama

	Sample Date		MW-5		MW-5A		MW-6		MW-7	
			4/18/2023	10/24/2023	4/18/2023	10/24/2023	4/12/2023	10/17/2023	4/12/2023	10/18/2023
Field Parameters	Units	GWPS								
pH	Std. Units	-	6.09	Dry	5.93	6.36	5.68	6.21	6.05	5.96
Temperature	C°	-	21.4	-	21.9	22.4	18.5	19.1	20.4	20.1
Conductivity	µS/Cm	-	770	-	781	771	401	710	357	424
Dissolved Oxygen	mg/L	-	0.35	-	0.38	0.44	0.62	0.49	0.75	0.7
Turbidity	NTUs	-	3.7	-	0.4	4	4.3	4.4	2.1	1.9
ORP	Mv	-	-65.3	-	0.6	55	147.7	-81.7	106.9	205.5
Appendix III										
Boron	mg/L	-	0.468	-	1.67	2.12	0.166	0.296	0.83	0.938
Calcium	mg/L	-	90.6	-	102	131	75.5	74.6	65	58.6
Chloride	mg/L	250	20.4	-	95.5	85.5	9.31	8.26	3.03	2.53
Sulfate	mg/L	250	38.4	-	114	206	123	54.1	50	37.7
TDS	mg/L	500	645	-	524	582	357	310	278	236
Appendix IV										
Antimony	mg/L	0.006	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0197	-	0.0037	0.0023	<0.0010	0.0204	<0.0010	<0.0010
Barium	mg/L	2.0	0.172	-	0.078	0.09	0.045	0.092	0.084	0.085
Beryllium	mg/L	0.004	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	mg/L	0.005	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	mg/L	0.100	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.013	-	0.014	0.021	0.001	0.012	<0.001	0.001
Fluoride	mg/L	4	<1.25	-	1.27	1.3	<0.125	<1.25	1.98	2.46
Lead	mg/L	0.015	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	<0.008	-	0.053	0.0506	<0.008	0.00564	0.0784	0.087
Mercury	mg/L	0.002	<0.00020	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	0.001	-	0.085	0.064	<0.001	0.002	0.012	0.019
Selenium	mg/L	0.050	0.003	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	mg/L	0.002	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium-226	pCi/L	-	0.443	-	0.449	0.181	0.294	0.727	0.234	-0.166
Radium-228	pCi/L	-	1.04	-	0.847	0.827	0.413	0.239	1.08	0.533
Combined Radium	pCi/L	5	1.48	-	1.30	1.01	0.707	0.966	1.31	0.533

TABLE 2
2023 Groundwater Monitoring Results and Field Parameters
Charles R. Lowman Power Plant
Leroy, Alabama

	Sample Date		MW-8		MW-9		MW-10		MW-11	
			4/12/2023	10/23/2024	4/11/2023	10/19/2023	4/12/2023	10/18/2023	4/12/2023	10/18/2023
Field Parameters	Units	GWPS								
pH	Std. Units	-	6.53	6.94	6.08	6.15	4.55	4.7	6.80	6.76
Temperature	C°	-	20.4	21.9	18.3	21.5	20.9	22.6	21.2	26.9
Conductivity	µS/Cm	-	322	482	1238	1642	611	669	736	899
Dissolved Oxygen	mg/L	-	0.38	0.38	0.41	2.31	0.76	2.17	0.47	0.41
Turbidity	NTUs	-	2.0	0.1	3.0	3.8	3.1	3.4	1.3	1.5
ORP	Mv	-	-137.8	-135	-27.1	-41.1	229.3	260	-12.1	-101
Appendix III										
Boron	mg/L	-	0.26	0.123	5.04	6.61	0.537	0.355	1.05	3.31
Calcium	mg/L	-	50	69.1	132	253	90.9	67.7	185	131
Chloride	mg/L	250	13.8	23.8	131	135	83.4	60.9	33.8	14.8
Sulfate	mg/L	250	<1.00	<1.00	602	411	296	197	260	169
TDS	mg/L	500	198	234	1200	1130	563	378	634	516
Appendix IV										
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0125	0.036	0.0011	0.0035	<0.0010	<0.0010	0.0028	0.0022
Barium	mg/L	2.0	0.072	0.098	0.049	0.136	0.03	0.035	0.036	0.045
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	<0.001	<0.001	<0.001	<0.001	0.004	0.002	<0.001	<0.001
Fluoride	mg/L	4	0.225	0.206	0.14	<1.25	<0.125	<0.125	1.74	1.93
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	<0.008	<0.0040	<0.008	<0.0040	0.016	0.0156	0.043	0.0567
Mercury	mg/L	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.092	0.092
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001	0.001	0.001	<0.001	<0.001
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium-226	pCi/L	-	-0.0711	0.117	0.605	2.65	0.450	2.89	0.325	-0.232
Radium-228	pCi/L	-	0.310	0.690	0.755	0.800	0.533	0.421	1.53	1.23
Combined Radium	pCi/L	5	0.310	0.807	1.36	3.45	0.983	3.31	1.86	1.23

TABLE 2
2023 Groundwater Monitoring Results and Field Parameters
Charles R. Lowman Power Plant
Leroy, Alabama

	Sample Date		MW-12		MW-12A		MW-13		MW-13A	
			4/18/2023	10/24/2023	4/18/2023	10/17/2023	4/10/2023	10/24/2023	4/11/2023	10/17/2023
Field Parameters	Units	GWPS								
pH	Std. Units	-	6.10	Dry	5.69	5.54	6.81	Dry	5.30	5.33
Temperature	C°	-	21.2	-	21.7	19.8	20.4	-	20.8	22.9
Conductivity	µS/Cm	-	831	-	700	889	317	-	411	590
Dissolved Oxygen	mg/L	-	3.91	-	0.47	2.29	8.42	-	0.46	0.47
Turbidity	NTUs	-	1.4	-	0.4	0.2	4.0	-	3.8	1.1
ORP	Mv	-	183.0	-	157.1	316.3	-93.1	-	84.1	81.2
Appendix III										
Boron	mg/L	-	0.572	-	0.414	0.57	0.204	-	0.068	0.123
Calcium	mg/L	-	139	-	90.5	105	53.8	-	27.6	30.8
Chloride	mg/L	250	26.6	-	58	48.5	1.94	-		75.4
Sulfate	mg/L	250	297	-	211	247	27.9	-	91.3	92.7
TDS	mg/L	500	606	-	447	518	228	-		314
Appendix IV										
Antimony	mg/L	0.006	<0.0010	-	<0.0010	<0.0010	<0.0010	-	<0.0010	<0.0010
Arsenic	mg/L	0.010	<0.0010	-	<0.0010	<0.0010	0.0098	-	0.0081	0.0081
Barium	mg/L	2.0	0.035	-	0.028	0.03	0.096	-	0.151	0.172
Beryllium	mg/L	0.004	<0.0010	-	<0.0010	<0.0010	<0.0010	-	<0.0010	<0.0010
Cadmium	mg/L	0.005	<0.0010	-	<0.0010	<0.0010	<0.0010	-	<0.0010	<0.0010
Chromium	mg/L	0.100	0.001	-	<0.001	0.001	<0.001	-	<0.001	<0.001
Cobalt	mg/L	0.013	<0.001	-	<0.001	<0.001	0.002	-	0.011	0.012
Fluoride	mg/L	4	<0.125	-	<0.125	<0.125	0.13	-	<0.125	<0.125
Lead	mg/L	0.015	<0.0010	-	<0.0010	<0.0010	<0.0010	-	<0.0010	<0.0010
Lithium	mg/L	0.040	<0.008	-	<0.008	0.005	<0.008	-	0.00949	0.0079
Mercury	mg/L	0.002	<0.00020	-	<0.00020	<0.00020	<0.00020	-	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.001	-	<0.001	<0.001	<0.001	-	<0.001	<0.001
Selenium	mg/L	0.050	0.008	-	0.001	0.005	<0.001	-	<0.001	<0.001
Thallium	mg/L	0.002	<0.0010	-	<0.0010	<0.0010	<0.0010	-	<0.0010	<0.0010
Radium-226	pCi/L	-	0.171	-	0.797	-0.191	0.464	-	0.485	1.01
Radium-228	pCi/L	-	0.234	-	0.623	0.290	0.772	-	0.740	0.785
Combined Radium	pCi/L	5	0.405	-	1.42	0.290	1.24	-	1.23	1.80

TABLE 2
2023 Groundwater Monitoring Results and Field Parameters
Charles R. Lowman Power Plant
Leroy, Alabama

	Sample Date		MW-14		MW-14A		MW-14B		MW-15	
			4/13/2023	10/24/2023	4/13/2023	10/24/2023	4/13/2023	10/18/2023	4/10/2023	10/17/2023
Field Parameters	Units	GWPS								
pH	Std. Units	-	5.69	Dry	5.62	6.07	5.82	6.31	5.14	5.34
Temperature	C°	-	21.1	-	21.2	23.5	19.6	21.9	18.2	19.9
Conductivity	µS/Cm	-	694	-	526	631	470	340	84	102
Dissolved Oxygen	mg/L	-	0.37	-	0.36	0.87	0.69	0.49	1.87	0.67
Turbidity	NTUs	-	4.4	-	2.1	4.7	4.6	0.2	2.5	4.7
ORP	Mv	-	-22.8	-	21.5	51.7	-20.2	42.9	221.0	198.7
Appendix III										
Boron	mg/L	-	1.12	-	0.851	0.953	0.338	1.44	0.026	0.035
Calcium	mg/L	-	102	-	97	81.1	48.3	95.6	9.78	8.15
Chloride	mg/L	250	78.1	-	46.3	63.9	63.1	108	4.91	4.03
Sulfate	mg/L	250	214	-	91	127	73.6	196	23.1	18.5
TDS	mg/L	500	466	-	392	350	294	633	70	68
Appendix IV										
Antimony	mg/L	0.006	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.014	-	0.0067	0.0066	0.001	0.0016	<0.0010	<0.0010
Barium	mg/L	2.0	0.111	-	0.055	0.076	0.069	0.152	0.048	0.045
Beryllium	mg/L	0.004	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	mg/L	0.005	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	mg/L	0.100	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.059	-	0.035	0.047	<0.001	<0.001	<0.001	<0.001
Fluoride	mg/L	4	<0.125	-	<0.125	0.137	<0.125	<1.25	<0.125	<0.125
Lead	mg/L	0.015	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	<0.008	-	0.0118	0.00709	0.0834	0.141	<0.008	<0.004
Mercury	mg/L	0.002	<0.00020	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.001	-	<0.001	<0.001	0.023	0.045	<0.001	<0.001
Selenium	mg/L	0.050	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	mg/L	0.002	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium-226	pCi/L	-	0.0730	-	0.703	0.487	0.148	1.11	0.0686	-0.253
Radium-228	pCi/L	-	0.258	-	0.613	1.96	1.18	1.52	0.622	0.828
Combined Radium	pCi/L	5	0.331	-	1.32	2.45	1.33	2.63	0.691	0.828

TABLE 2
2023 Groundwater Monitoring Results and Field Parameters
Charles R. Lowman Power Plant
Leroy, Alabama

	Sample Date		MW-16		MW-17		MW-18		MW-19	
			4/12/2023	10/17/2023	4/12/2023	10/23/2023	4/12/2023	10/19/2023	4/13/2023	10/17/2023
Field Parameters	Units	GWPS								
pH	Std. Units	-	5.70	5.76	6.00	6.23	6.04	5.9	5.33	4.99
Temperature	C°	-	20.3	21.5	21.1	23.1	19.6	19.8	19.8	20.4
Conductivity	µS/Cm	-	418	718	788	738	383	337	193	320
Dissolved Oxygen	mg/L	-	0.41	0.42	0.39	0.44	0.40	0.44	0.46	0.63
Turbidity	NTUs	-	3.2	4.9	3.7	4.2	3.9	4.0	0.9	2.0
ORP	Mv	-	99.1	38.5	13.0	45.1	-81.9	-25.9	161.2	236.8
Appendix III										
Boron	mg/L	-	0.55	0.75	2.33	2.28	0.098	0.117	0.186	0.215
Calcium	mg/L	-	59.3	74.2	115	108	43.9	32.3	26.5	30.9
Chloride	mg/L	250	32.2	41.5	102	98	12.4	9.71	11.2	18.9
Sulfate	mg/L	250	52.1	77	157	123	2.04	18.2	63.4	66.9
TDS	mg/L	500	322	376	603	526	208	148	126	226
Appendix IV										
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	0.0015	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0014	0.0031	0.0569	0.0177	0.0109	<0.0010	<0.0010	<0.0010
Barium	mg/L	2.0	0.092	0.175	0.054	0.075	0.186	0.141	0.052	0.074
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Chromium	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.006	0.015	0.016	0.025	<0.001	<0.001	0.001	0.004
Fluoride	mg/L	4	<0.125	<0.125	1.43	0.94	<0.125	<0.125	<0.125	<0.125
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.0344	0.0337	0.0992	0.0652	<0.008	<0.0040	0.0134	0.00904
Mercury	mg/L	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.001	<0.001	0.089	0.044	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Radium-226	pCi/L	-	0.425	0.385	-0.254	0.493	-0.551	0.270	0.276	0.0860
Radium-228	pCi/L	-	0.561	0.633	0.0709	1.20	0.809	0.438	0.321	0.123
Combined Radium	pCi/L	5	0.986	1.02	0.0709	1.69	0.809	0.708	0.597	0.209

TABLE 2
2023 Groundwater Monitoring Results and Field Parameters
Charles R. Lowman Power Plant
Leroy, Alabama

	Sample Date		MW-20		MW-21		MW-22		MW-23	
			4/11/2023	10/24/2023	4/11/2023	10/24/2023	4/12/2023	10/24/2023	4/18/2023	10/25/2023
Field Parameters	Units	GWPS								
pH	Std. Units	-	6.06	6.54	6.24	6.84	6.20	6.51	6.61	6.77
Temperature	C°	-	19.6	19.2	19.50	20.8	21.3	21.5	24.0	24.6
Conductivity	µS/Cm	-	418	357	454	438	573	573	2071	1555
Dissolved Oxygen	mg/L	-	0.39	0.41	0.40	0.97	0.38	0.46	0.38	0.38
Turbidity	NTUs	-	4.2	3.9	4.8	4.6	2.2	1.7	4.6	1.7
ORP	Mv	-	-110.0	-129	-88.3	-86.8	-90.0	-99.7	-93.1	-76.1
Appendix III										
Boron	mg/L	-	0.064	0.087	0.276	0.291	0.099	0.102	8.68	7.12
Calcium	mg/L	-	47	42.8	80.1	74.8	124	113	396	344
Chloride	mg/L	250	5.15	4.92	19.9	19.8	11.6	9.93	299	211
Sulfate	mg/L	250	14.5	<1.00	38.9	19.4	1.42	<0.001	983	768
TDS	mg/L	500	210	128	312	252	402	338	1950	1620
Appendix IV										
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0100	<0.0100
Arsenic	mg/L	0.010	0.0259	0.0242	0.0055	0.0041	0.0024	0.0036	0.186	0.13
Barium	mg/L	2.0	0.122	0.102	0.09	0.095	0.139	0.137	0.042	0.034
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0100	<0.0100
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0100	<0.0100
Chromium	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010
Cobalt	mg/L	0.013	0.003	<0.001	0.001	<0.001	<0.001	<0.001	<0.010	<0.010
Fluoride	mg/L	4	<0.125	0.163	<1.25	0.129	<0.125	<0.125	2.020	0.367
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0100	<0.0100
Lithium	mg/L	0.040	<0.008	<0.0040	<0.008	<0.0040	<0.008	<0.0040	0.165	0.128
Mercury	mg/L	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	0.123	0.147
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0100	<0.0100
Radium-226	pCi/L	-	0.116	0.121	0.393	0.0520	0.510	0.000	0.551	0.173
Radium-228	pCi/L	-	0.0930	1.12	0.382	0.741	0.496	0.229	0.721	0.773
Combined Radium	pCi/L	5	0.209	1.24	0.775	0.793	1.01	0.229	1.27	0.946

TABLE 2
2023 Groundwater Monitoring Results and Field Parameters
Charles R. Lowman Power Plant
Leroy, Alabama

	Sample Date		MW-24		MW-25		MW-26	
			4/13/2023	10/26/2023	4/13/2023	10/26/2023	4/18/2023	10/26/2023
Field Parameters	Units	GWPS						
pH	Std. Units	-	6.26	6.53	5.91	6.12	6.50	6.3
Temperature	C°	-	20.4	24.1	22.2	22.3	21	20.8
Conductivity	µS/Cm	-	678	981	1310	2223	405	412
Dissolved Oxygen	mg/L	-	0.43	0.44	0.39	0.51	8.38	2.67
Turbidity	NTUs	-	2.2	4.0	4.2	4.0	4.2	3.8
ORP	Mv	-	-58.6	-76.9	-57.1	-9.2	204.7	-19.2
Appendix III								
Boron	mg/L	-	1.83	3.11	9.05	13.5	0.265	0.443
Calcium	mg/L	-	122	170	261	514	61.6	68.4
Chloride	mg/L	250	75.4	95.2	232	246	3.19	21.6
Sulfate	mg/L	250	214	372	708	1220	44	92.8
TDS	mg/L	500	543	853	1360	2750	263	304
Appendix IV								
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0100	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0033	0.002	0.0146	<0.0100	0.0011	<0.0010
Barium	mg/L	2.0	0.121	0.128	0.036	0.049	0.096	0.115
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0100	<0.0010	<0.0010
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0100	<0.0010	<0.0010
Chromium	mg/L	0.100	<0.001	<0.001	<0.001	<0.010	0.001	<0.001
Cobalt	mg/L	0.013	0.004	0.001	0.001	0.011	<0.001	<0.001
Fluoride	mg/L	4	1.11	1.55	0.719	0.365	0.144	0.161
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0100	<0.0010	<0.0010
Lithium	mg/L	0.040	0.0744	0.0709	0.127	0.139	<0.008	<0.004
Mercury	mg/L	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	0.008	0.014	0.093	0.081	0.006	0.004
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.010	0.014	0.004
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0100	<0.0010	<0.0010
Radium-226	pCi/L	-	0.0634	0.297	0.204	-0.124	0.284	0.000
Radium-228	pCi/L	-	0.700	0.892	1.31	1.21	0.559	0.418
Combined Radium	pCi/L	5	0.763	1.19	1.51	1.21	0.843	0.418

TABLE 3
SUMMARY OF ESTABLISHED GROUNDWATER PROTECTION STANDARDS
Charles R. Lowman Power Plant
Leroy, Alabama

Appendix IV Constituent	MCL	Background Limit	Established GWPS
	(mg/L)	(mg/L)	(mg/L)
Antimony	0.006	0.001	0.006
Arsenic	0.01	0.0031	0.010
Barium, Total	2	0.15	2.000
Beryllium	0.004	0.001	0.004
Cadmium	0.005	0.001	0.005
Chromium	0.1	0.001	0.100
Cobalt	0.006	0.013	0.013
Fluoride	4	0.16	4.000
Lead	0.015	0.001	0.015
Lithium	0.04	0.004	0.040
Mercury	0.002	0.0002	0.002
Molybdenum	0.1	0.001	0.100
Selenium	0.05	0.001	0.050
Thallium	0.002	0.001	0.002
Combined Radium (pCi/L)	5	1.31	5.000

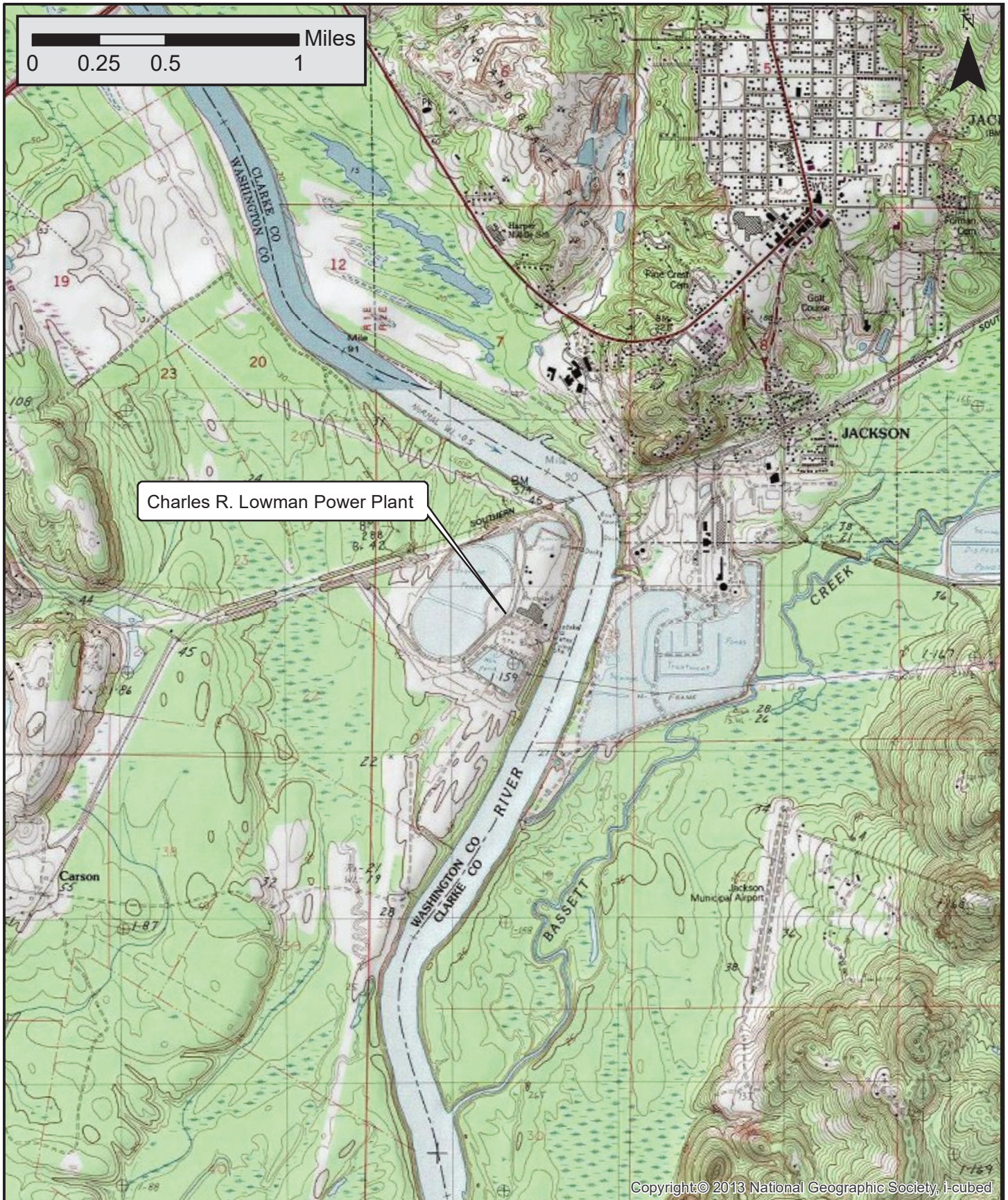
**MCL = Maximum Contaminant Level*

Table 4
Summary of Appendix IV Statistically Significant Results
Charles R. Lowman Power Plant
Leroy, Alabama

Constituent	Well No.	GWPS mg/L	Confidence Interval		Sample Size	α	Confidence Level
			Lower mg/L	Upper mg/L			
Arsenic							
	MW-17	0.010	0.0218	0.05773	8	0.01	0.990
	MW-20	0.010	0.02344	0.03771	8	0.01	0.990
	MW-23	0.010	0.1377	0.2835	8	0.01	0.990
Cobalt							
	MW-3	0.013	0.01996	0.02929	8	0.01	0.990
	MW-4	0.013	0.7223	0.9472	8	0.01	0.990
	MW-5	0.013	0.01317	0.02768	8	0.01	0.990
	MW-14	0.013	0.0149	0.08909	8	0.01	0.990
	MW-14A	0.013	0.03335	0.06395	8	0.01	0.990
	MW-17	0.013	0.015	0.03	8	0.004	0.996
Lithium							
	MW-5A	0.040	0.05027	0.06508	8	0.01	0.990
	MW-7	0.040	0.07133	0.0925	8	0.01	0.990
	MW-11	0.040	0.04369	0.06038	8	0.01	0.990
	MW-14B	0.040	0.0558	0.2199	8	0.01	0.990
	MW-17	0.040	0.05648	0.1088	8	0.01	0.990
	MW-23	0.040	0.1329	0.1733	8	0.01	0.990
	MW-24	0.040	0.05366	0.2208	8	0.01	0.990
	MW-25	0.040	0.1073	0.1763	8	0.01	0.990

FIGURES





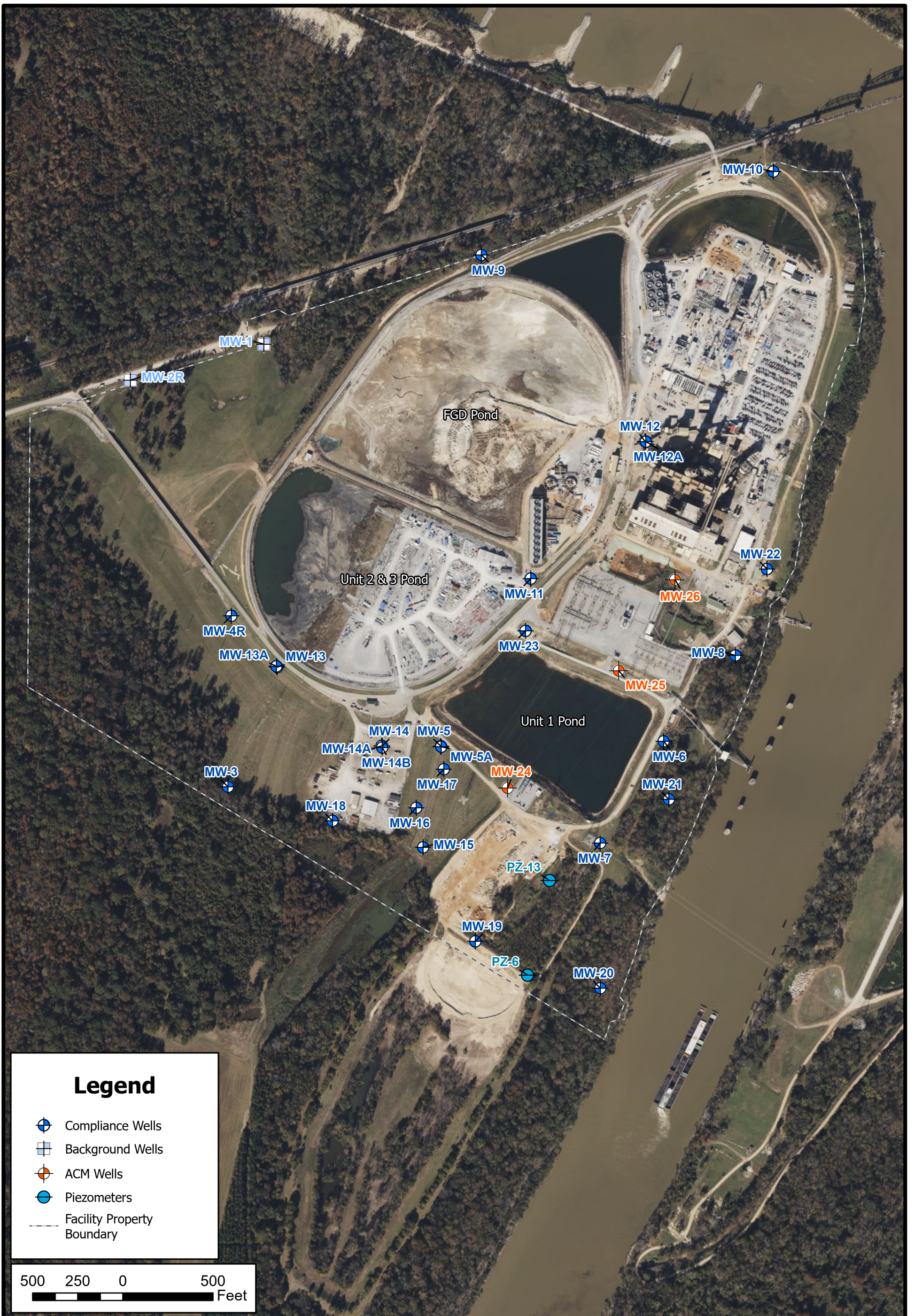
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FIGURE 1 - SITE LOCATION MAP

**Charles R. Lowman Power Plant
 PowerSouth Energy Cooperative
 Leroy, AL**

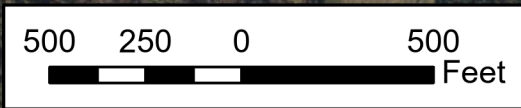


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Legend

- Compliance Wells
- Background Wells
- ACM Wells
- Piezometers
- Facility Property Boundary



**Figure 2 - Site Map:
Monitoring Well Locations**

Charles R. Lowman Power Plant
Leroy, AL



Drawn By:	GAM
Checked by:	JAB
Date:	Jan 2024

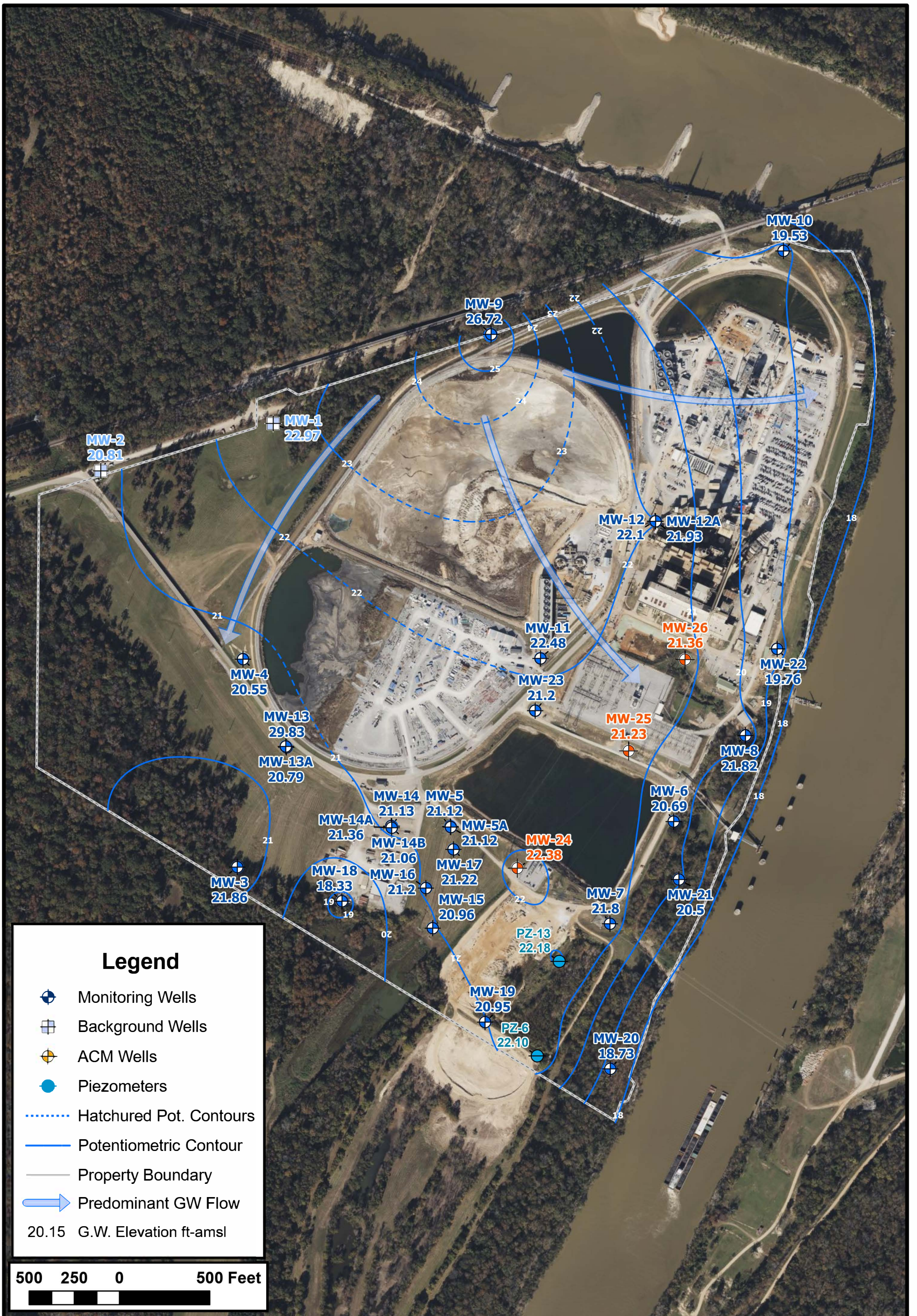


Figure 3A: Potentiometric Surface - April 18, 2023

Charles R. Lowman Power Plant
Leroy, AL



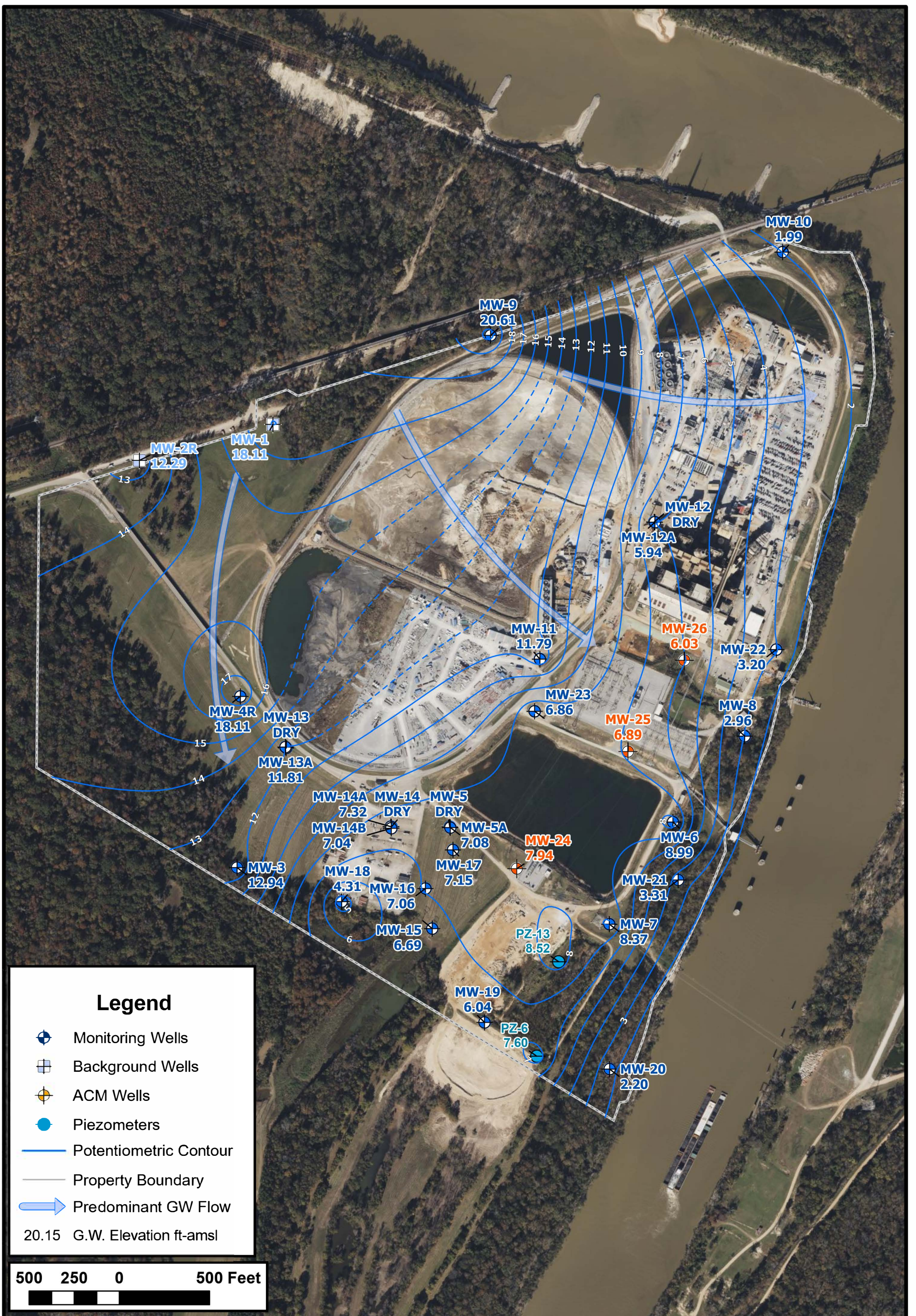
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Drawn By: GAM

Checked by: JAB

Date: June 2023



Legend

- Monitoring Wells
- Background Wells
- ACM Wells
- Piezometers
- Potentiometric Contour
- Property Boundary
- Predominant GW Flow

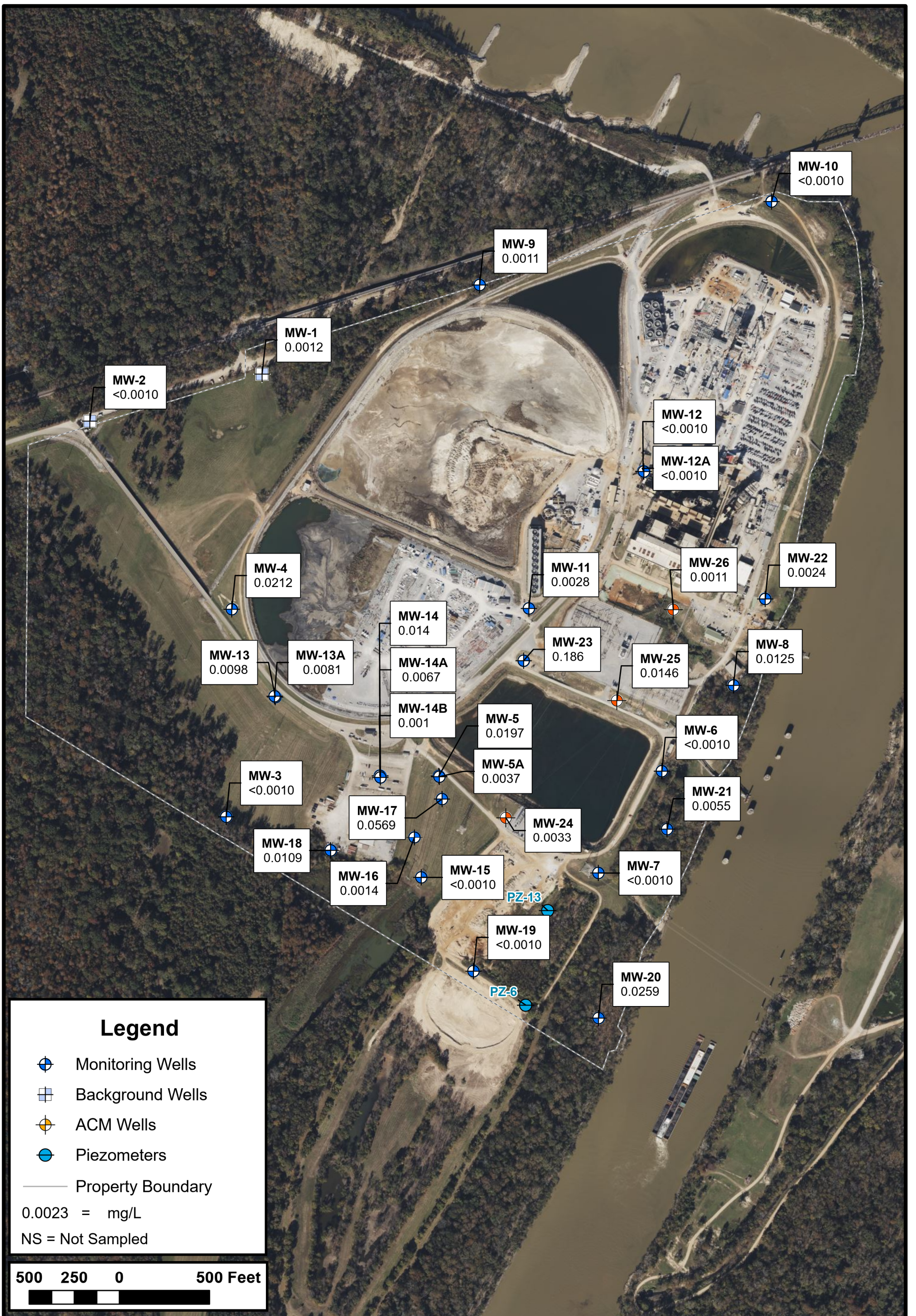
20.15 G.W. Elevation ft-amsl



Figure 3B: Potentiometric Surface Oct. 16, 2023
 Charles R. Lowman Power Plant
 Leroy, AL



Drawn By:	GAM
Checked by:	JAB
Date:	Jan 2024



Legend

- Monitoring Wells
- Background Wells
- ACM Wells
- Piezometers
- Property Boundary

0.0023 = mg/L
NS = Not Sampled

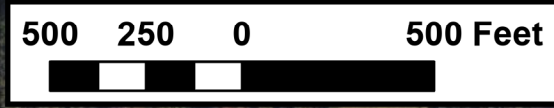
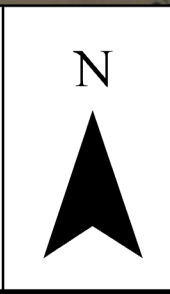
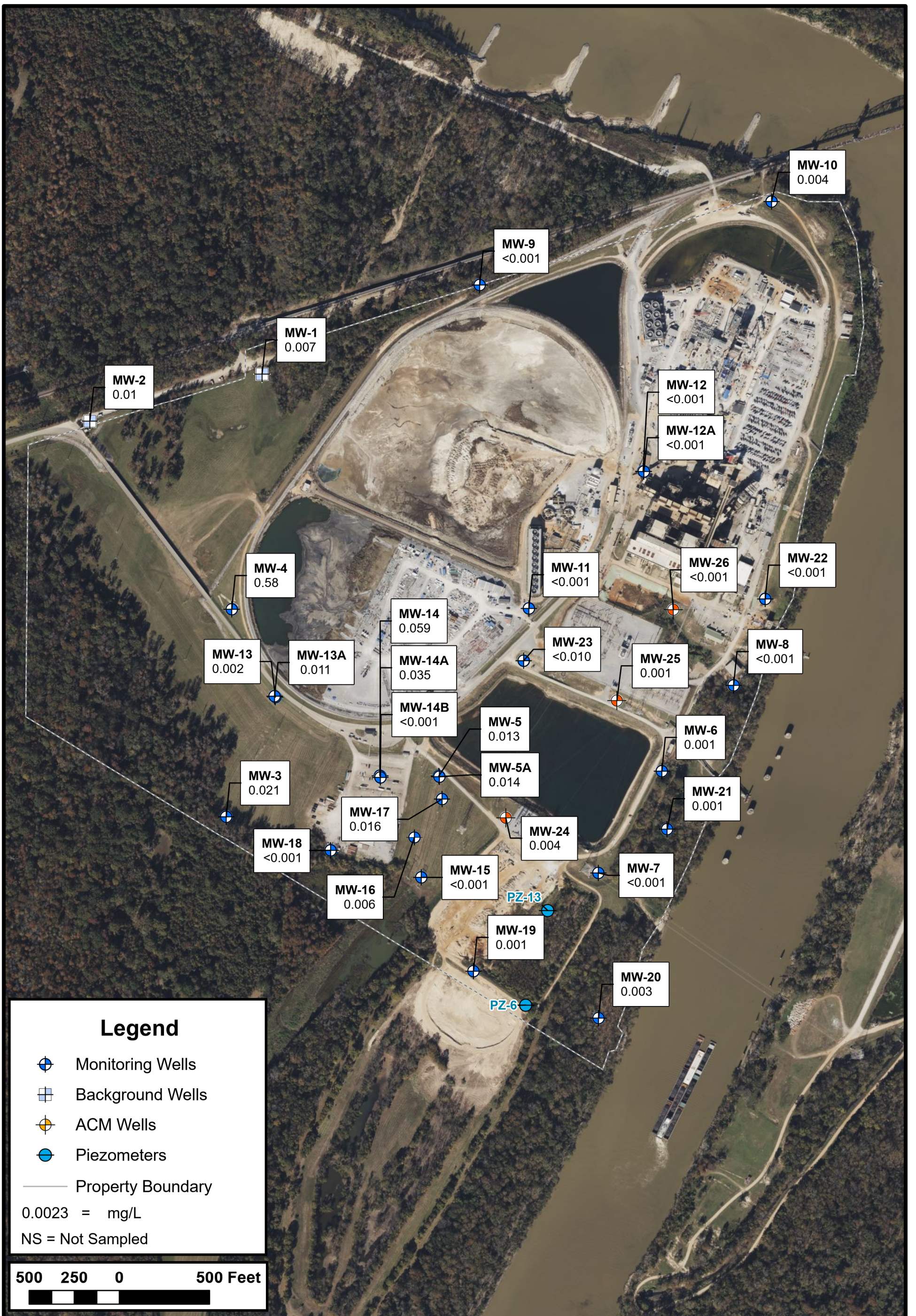


Figure 4A: Arsenic Concentrations Spring 2023
Charles R. Lowman Power Plant
Leroy, AL



Drawn By:	GAM
Checked by:	JAB
Date:	June 2023



Legend

- Monitoring Wells
- Background Wells
- ACM Wells
- Piezometers
- Property Boundary

0.0023 = mg/L
NS = Not Sampled

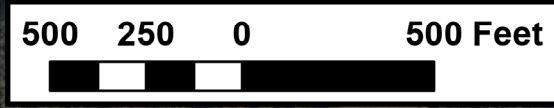
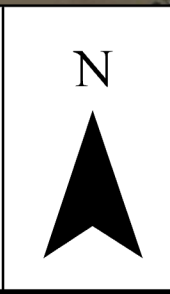
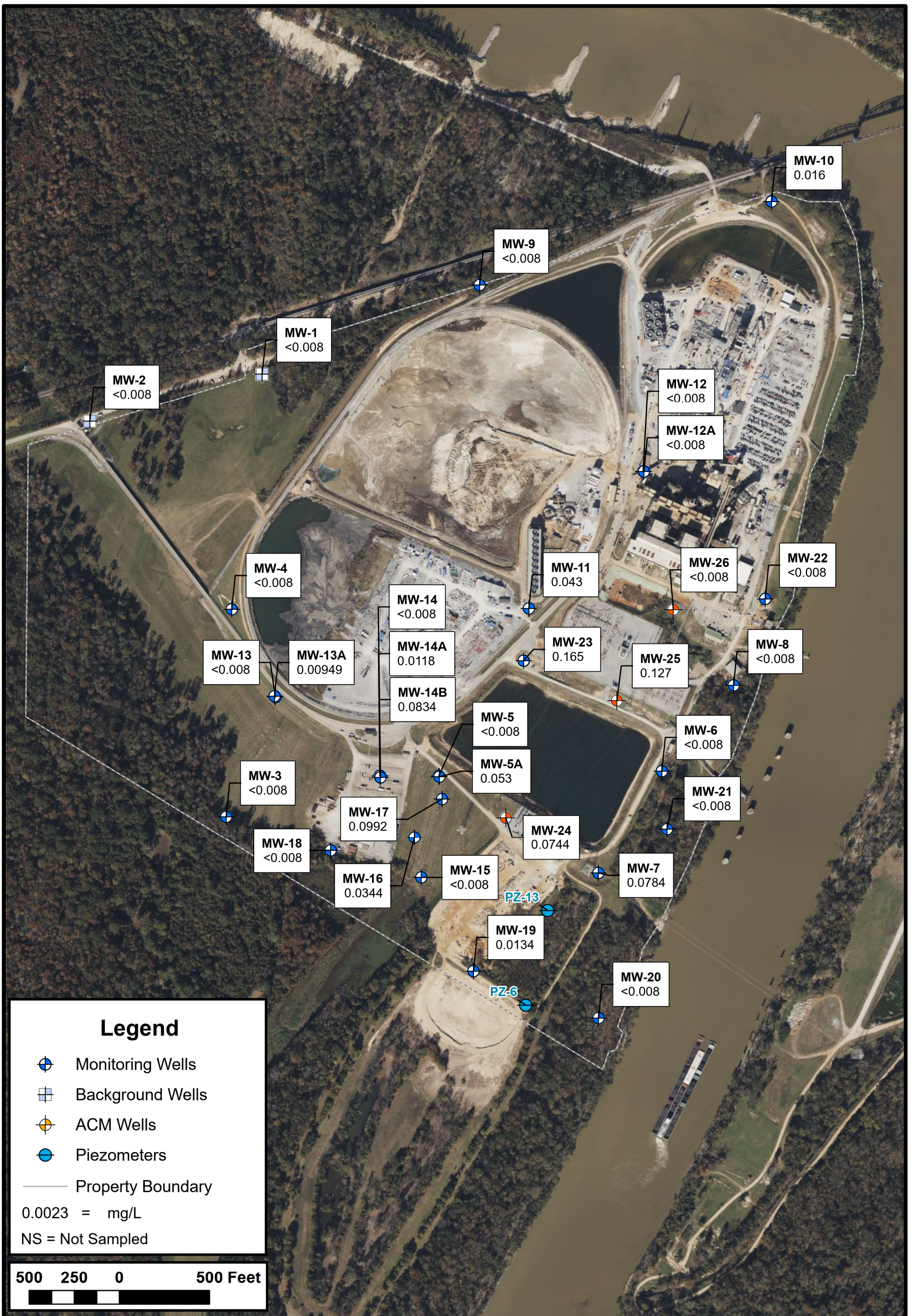


Figure 4B: Cobalt Concentrations Spring 2023
Charles R. Lowman Power Plant
Leroy, AL



Drawn By:	GAM
Checked by:	JAB
Date:	June 2023



Legend

- Monitoring Wells
- Background Wells
- ACM Wells
- Piezometers
- Property Boundary

0.0023 = mg/L
NS = Not Sampled

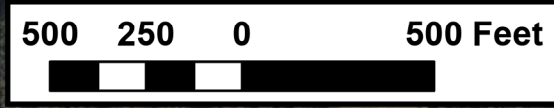
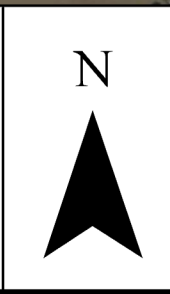
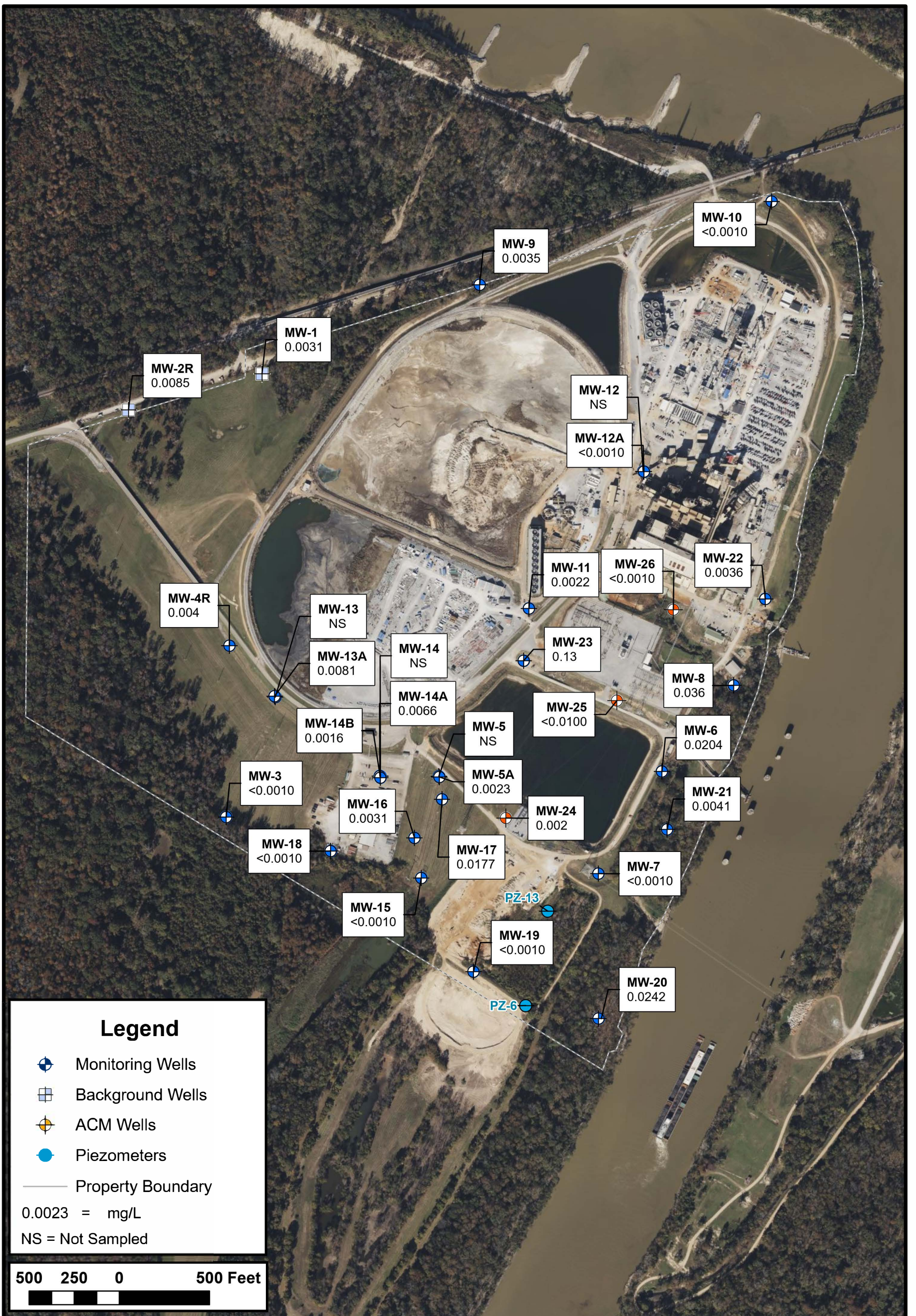


Figure 4C: Lithium Concentrations Spring 2023
Charles R. Lowman Power Plant
Leroy, AL



Drawn By:	GAM
Checked by:	JAB
Date:	June 2023



Legend

- Monitoring Wells
- Background Wells
- ACM Wells
- Piezometers
- Property Boundary

0.0023 = mg/L
NS = Not Sampled

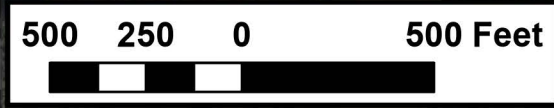
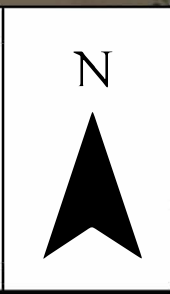
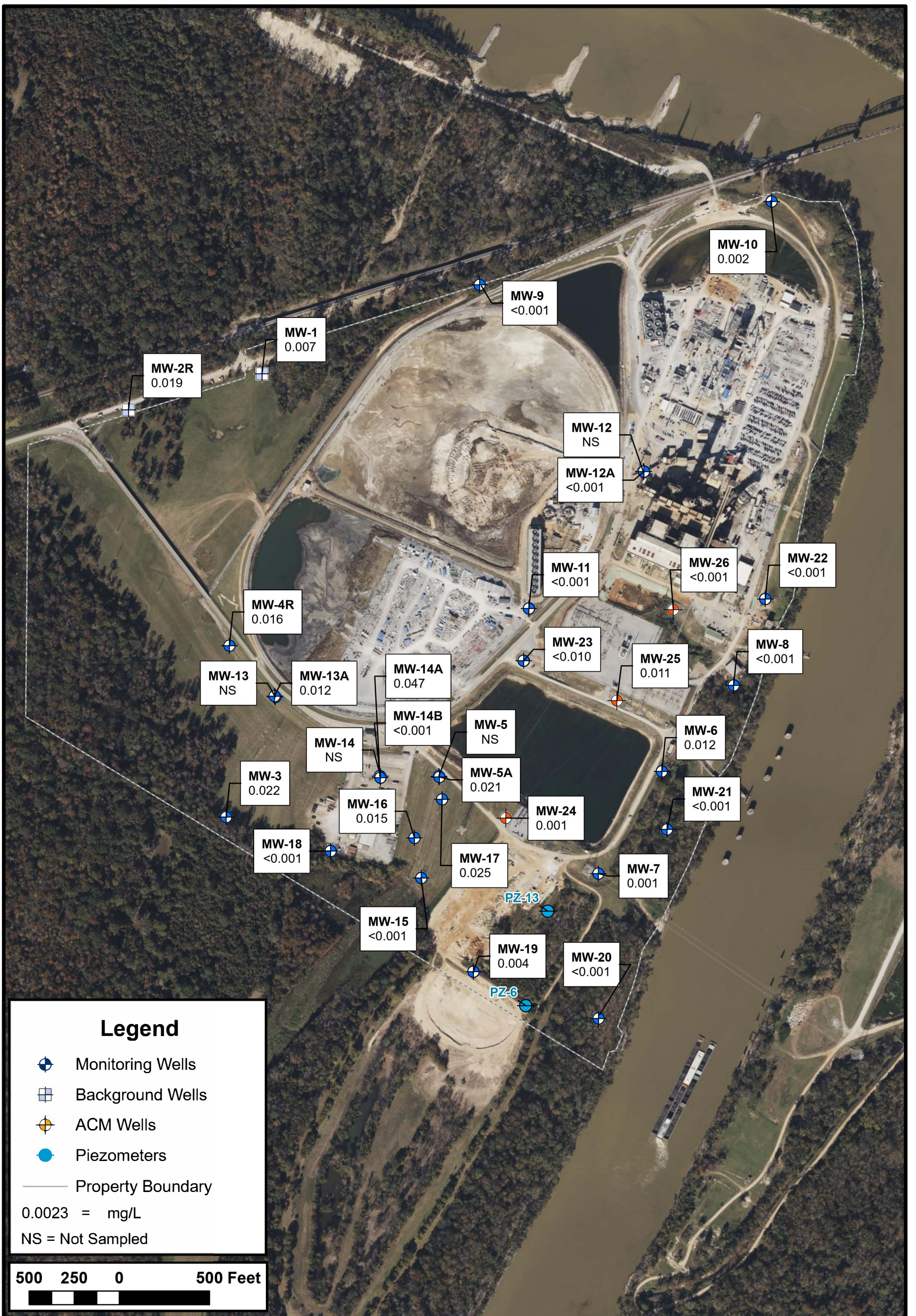


Figure 4D: Arsenic Concentrations Fall 2023
Charles R. Lowman Power Plant
Leroy, AL



Drawn By:	GAM
Checked by:	JAB
Date:	Jan 2024



Legend

- Monitoring Wells
- Background Wells
- ACM Wells
- Piezometers
- Property Boundary

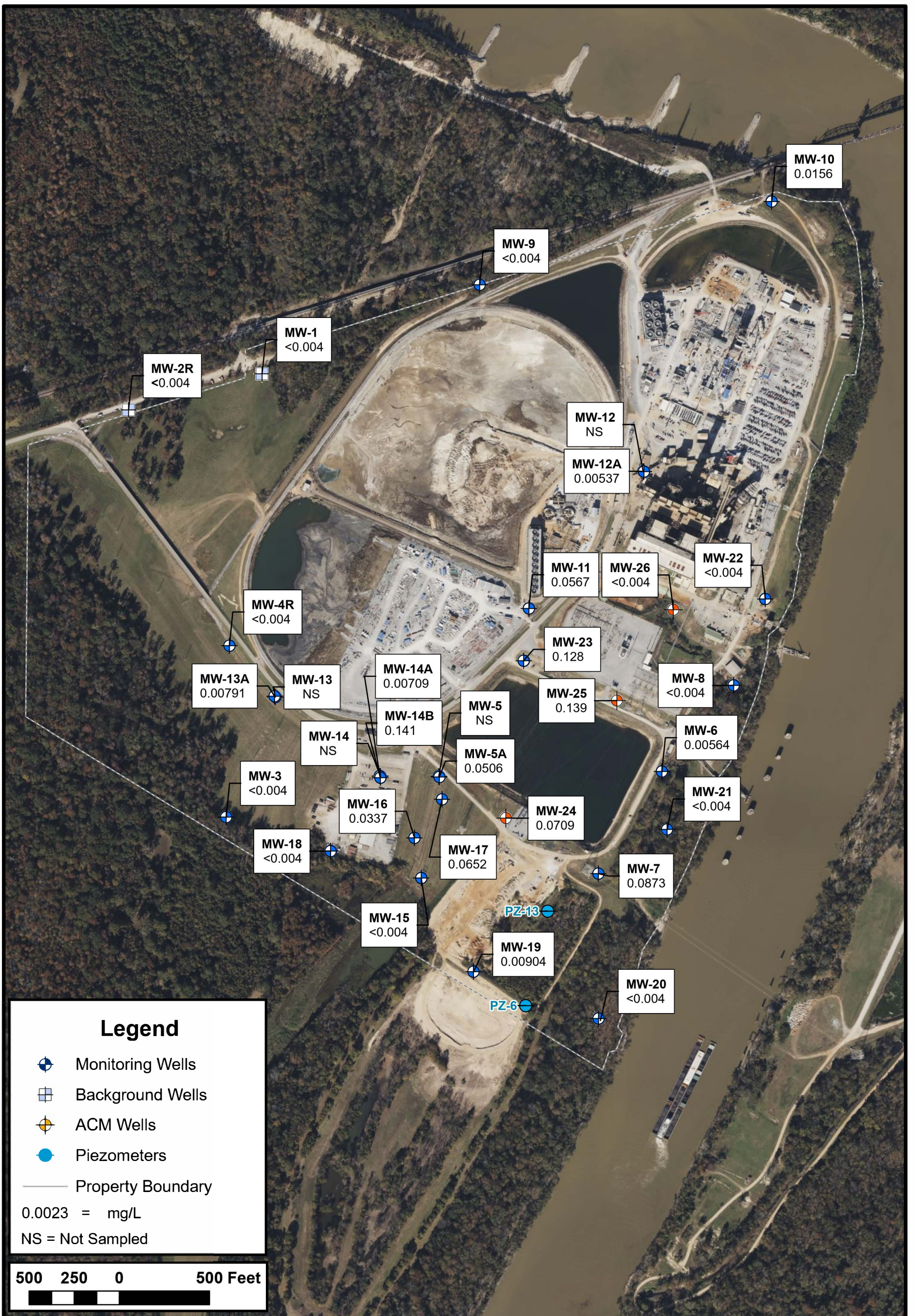
0.0023 = mg/L
NS = Not Sampled



Figure 4E: Cobalt Concentrations Fall 2023
Charles R. Lowman Power Plant
Leroy, AL



Drawn By:	GAM
Checked by:	JAB
Date:	Jan 2024



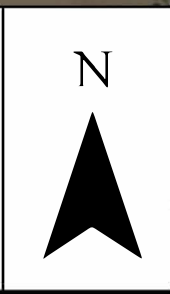
Legend

- Monitoring Wells
- Background Wells
- ACM Wells
- Piezometers
- Property Boundary

0.0023 = mg/L
NS = Not Sampled



Figure 4F: Lithium Concentrations Fall 2023
Charles R. Lowman Power Plant
Leroy, AL



Drawn By:	GAM
Checked by:	JAB
Date:	Jan 2024

APPENDIX A

HISTORICAL GROUNDWATER ELEVATION DATA

SUMMARY

APPENDIX B

HISTORICAL GROUNDWATER FIELD PARAMETER

SUMMARY

APPENDIX B
HISTORICAL GROUNDWATER FIELD DATA SUMMARY
Charles R. Lowman Power Plant
Leroy, Alabama

Monitoring Well	Date	Temperature C°	Dissolved Oxygen mg/L	Conductivity µS/Cm	pH Standard Units	ORP Mv	Turbidity NTUs
MW-1	03/29/2016	17.7	0.17	201	5.46	-	1.0
	05/18/2016	19.8	0.19	201	5.52	1.4	0.9
	07/19/2016	21.5	0.11	168	5.31	-23.2	0.5
	09/19/2016	22.8	0.15	162	5.21	-16.5	3.5
	11/29/2016	22.0	0.16	139	5.30	176.2	1.6
	01/31/2017	18.8	0.17	194	5.34	-33.6	1.9
	03/28/2017	19.4	0.17	214	5.35	-5.5	1.9
	05/23/2017	20.5	0.21	206	5.28	-95.0	1.8
	10/09/2017	22.6	0.19	210	4.70	9.7	2.5
	04/17/2018	18.2	0.22	368	5.80	16.0	3.3
	08/14/2018	21.6	0.27	201	5.36	-42.0	2.5
	04/10/2019	17.9	0.27	298	5.46	55.0	3.1
	05/21/2019	19.8	0.35	213	5.66	81.1	10.4
	09/24/2019	22.2	0.29	183	-	-	1.5
	03/26/2020	17.6	0.38	265	5.80	43.8	4.4
	09/23/2020	22.1	0.36	246	5.33	59.2	2.4
	04/22/2021	16.5	0.36	557	4.48	-21.9	1.7
	09/30/2021	21.9	0.36	323	5.80	-81.5	0.6
	05/02/2022	19.3	0.34	608	5.82	222.0	2.9
10/11/2022	21.4	0.37	221	5.81	236.0	2.5	
04/11/2023	18.9	0.43	235	5.56	57.6	3.9	
10/23/2023	22.3	0.41	195	5.84	43.7	0.7	
MW-2	03/29/2016	21.0	0.09	71	4.70	214.4	1.7
	05/18/2016	21.2	0.08	72	4.74	227.8	1.5
	07/19/2016	22.0	0.10	71	4.71	199.0	3.3
	09/19/2016	21.9	0.16	71	4.59	188.0	1.1
	11/29/2016	21.7	0.16	69	4.82	246.2	2.0
	01/31/2017	21.5	0.17	68	4.51	223.3	3.0
	03/28/2017	21.9	0.17	71	4.54	230.2	2.8
	05/23/2017	21.4	0.17	71	4.45	239.2	2.6
	10/10/2017	22.1	0.19	70	4.33	234.4	3.1
	04/17/2018	21.2	0.26	89	4.76	235.0	3.7
	08/14/2018	22.6	0.24	62	4.48	230.5	3.9
	04/10/2019	21.4	0.34	80	4.54	256.0	4.5
	05/21/2019	21.3	0.26	57	4.71	279.7	11.2
	09/24/2019	21.3	0.31	55	-	-	3.3
	03/26/2020	21.1	0.31	64	4.81	247.9	3.8
	09/23/2020	21.3	0.35	72	4.42	247.0	3.3
	04/22/2021	20.6	0.48	120	3.22	160.0	3.0
	09/30/2021	21.4	0.34	86	4.82	81.2	3.9
	05/02/2022	21.7	0.48	147	4.83	222.0	4.8
	10/11/2022	21.6	0.37	56	4.91	236.5	5.5
	04/11/2023	21.5	0.40	55	4.57	246.0	4.6
MW-2R	10/25/2023	19.9	0.60	224	5.35	124.6	4.1
MW-3	04/06/2019	17.8	0.58	78	4.53	156.0	3.4
	05/22/2019	18.5	0.41	65	4.65	105.5	3.5
	09/24/2019	21.0	0.62	60	4.75	-	2.7
	11/18/2019	20.4	0.39	84	4.59	128.5	2.7
	01/29/2020	17.1	0.31	113	4.96	111.9	4.8
	03/26/2020	18	0.32	94	5.14	63.4	3.0
	06/23/2020	19.3	0.37	74	4.73	-31.6	1.5
	09/22/2020	20.8	0.40	75	4.37	126.0	0.4
	04/22/2021	16.5	0.41	172	3.90	35.9	1.7
	09/29/2021	21.6	0.43	100	5.21	9.1	0.0
	05/03/2022	18.1	0.43	177	5.08	222.0	0.4
	10/11/2022	21	0.48	61	4.87	236.4	1.6
	04/10/2023	17.4	0.46	64	4.75	104.1	3.8
	10/23/2023	21.6	0.98	55	4.94	19.8	0.1
	MW-4	03/29/2016	20.8	0.07	2373	4.52	-
05/18/2016		20.8	0.11	2423	4.45	183.7	1.1
07/19/2016		21.1	0.09	2413	4.55	143.0	0.2
09/19/2016		21.4	0.16	2484	4.57	130.0	1.5
11/29/2016		22.4	0.15	2756	4.06	250.3	0.4
01/31/2017		21.5	0.14	2477	4.55	135.1	1.4
03/28/2017		21.6	0.16	2513	4.53	150.5	1.4
05/23/2017		21.1	0.16	2557	4.40	156.0	1.7
10/10/2017		22.1	0.17	2401	4.63	107.8	2.9
12/11/2018		21.4	0.23	3378	8.28	102.9	3.0
04/17/2018		20.6	0.21	2903	4.71	135.7	1.1
08/14/2018		22	0.20	2207	4.82	74.6	2.9
04/10/2019		20.7	0.26	2811	4.87	147.0	2.2
05/22/2019		20.6	0.26	2162	5.17	75.1	3.7
09/24/2019		21.7	0.27	2011	-	-	1.9
03/26/2020		20.7	0.29	2184	5.12	75.0	2.6
09/23/2020		22	0.32	2259	4.94	96.1	2.3
04/21/2021		20.2	0.34	2039	6.04	132.0	1.8
09/28/2021		21.6	0.32	2408	5.03	67.5	1.9
05/03/2022		20.9	0.33	3636	4.86	222.0	0.6
10/11/2022		22.2	0.36	1656	5.11	236.4	1.7
04/10/2023		20.4	0.42	1421	5.58	-38.7	2.0
MW-4R		10/25/2023	24.1	1.29	815	6.35	-25.2
MW-5	03/29/2016	22.4	0.07	1061	5.96	-	3.4
	05/18/2016	22.6	0.06	1022	6.03	-74.9	2.9
	07/19/2016	Dry	Dry	Dry	Dry	Dry	Dry
	09/19/2016	Dry	Dry	Dry	Dry	Dry	Dry
	11/29/2016	Dry	Dry	Dry	Dry	Dry	Dry
	01/31/2017	22.81	0.23	1550	5.08	239.7	4.4
	03/28/2017	23.7	0.18	1474	5.23	86.8	3.4
	05/24/2017	22.5	0.41	1112	5.50	41.9	3.3
	10/10/2017	Dry	Dry	Dry	Dry	Dry	Dry
	04/17/2018	21.7	0.21	1180	5.97	-50.6	3.1
	08/14/2018	Dry	Dry	Dry	Dry	Dry	Dry
	04/09/2019	21.50	0.22	1076	6.04	-51.20	1.8
	05/21/2019	22.00	0.24	974	6.34	-97.10	3.3
	09/26/2019	Dry	Dry	Dry	Dry	Dry	Dry
	03/24/2020	21.3	0.31	685	6.08	-40.5	4.0
	09/22/2020	Dry	Dry	Dry	Dry	Dry	Dry
	04/19/2021	21.0	0.29	814	6.40	-50.5	4.2
	09/28/2021	22.0	0.30	1224	5.66	-84.1	0.7
	04/26/2022	20.7	0.34	1079	6.32	228.0	4.8
	10/11/2022	Dry	Dry	Dry	Dry	Dry	Dry
	04/18/2023	21.4	0.35	770	6.1	-65.3	3.7
10/24/2023	Dry	Dry	Dry	Dry	Dry	Dry	

**APPENDIX B
HISTORICAL GROUNDWATER FIELD DATA SUMMARY
Charles R. Lowman Power Plant
Leroy, Alabama**

Monitoring Well	Date	Temperature C°	Dissolved Oxygen mg/L	Conductivity μS/Cm	pH Standard Units	ORP Mv	Turbidity NTUs
MW-5A	08/04/2016	23.3	0.21	2658	5.97	32.5	3.2
	09/20/2016	23.9	0.16	2582	6.01	55.0	2.6
	11/29/2016	23.1	0.19	2083	5.81	23.9	2.7
	01/31/2017	22.9	0.13	2527	5.98	18.0	1.9
	03/29/2017	23.6	0.15	2291	5.64	54.0	4.1
	05/24/2017	23.0	0.18	2021	5.63	64.0	2.9
	10/10/2017	23.6	0.18	1738	5.84	18.1	3.2
	12/11/2018	22.0	0.21	2979	8.50	-70.0	2.9
	04/17/2018	22.4	0.20	2143	6.39	-31.7	1.3
	08/15/2018	22.8	0.29	1257	6.15	96.3	2.4
	04/09/2019	22.0	0.24	1435	6.10	-1.6	2.0
	09/26/2019	22.8	0.31	1184	6.10	-	2.5
	03/23/2020	22.2	0.28	914	6.10	24.1	4.2
	09/22/2020	22.0	0.37	850	5.94	120.0	2.5
	04/19/2021	21.4	0.30	837	6.35	16.5	2.2
	09/28/2021	21.9	0.31	1032	6.34	-18.6	0.6
	04/26/2022	20.7	0.35	1001	6.09	228.0	5.0
	10/12/2022	22.1	0.39	693	5.83	227.4	2.4
	04/18/2023	21.9	0.38	781	5.93	0.6	0.4
	10/24/2023	22.4	0.44	771	6.36	55.0	4.0
MW-6	03/29/2016	20.4	0.07	907	6.15	-88.5	4.8
	05/18/2016	20.4	0.20	788	6.04	-79.3	4.6
	07/19/2016	21.4	0.11	673	6.20	-126.0	3.4
	09/19/2016	22.3	0.13	735	6.31	-117.0	1.8
	11/29/2016	22.4	0.31	689	6.35	-84.3	1.9
	01/31/2017	21.1	0.15	709	5.43	103.4	2.7
	03/29/2017	21.2	0.20	732	5.82	4.8	2.4
	05/24/2017	20.7	0.24	719	5.66	17.0	3.0
	10/11/2017	22.3	0.20	736	6.07	-79.4	2.7
	12/11/2018	21.2	0.22	1068	8.17	-128.7	3.5
	04/17/2018	19.2	0.20	954	5.82	60.7	3.5
	08/15/2018	21.2	0.21	595	6.20	-91.4	3.3
	04/07/2019	19.7	0.27	656	5.65	113.7	2.9
	05/21/2019	20.1	0.28	553	5.73	138.1	9.3
	09/25/2019	22.8	0.31	584	6.35	-	2.4
	03/26/2020	19.6	0.32	552	6.08	32.8	4.1
	09/23/2020	21.3	0.31	613	6.07	-78.6	3.0
	04/21/2021	17.4	0.39	514	7.26	416.0	3.7
	09/30/2021	21.5	0.44	670	6.04	-27.3	2.3
	04/27/2022	19.0	0.36	495	5.75	238.0	3.5
10/17/2022	20.7	0.43	560	6.39	232.4	11.1	
04/12/2023	18.5	0.62	401	5.68	147.7	4.3	
10/17/2023	19.1	0.49	710	6.21	-81.7	4.4	
MW-7	03/29/2016	21.8	0.11	1649	5.94	128.9	1.3
	05/18/2016	21.9	0.12	1878	5.91	104.0	1.6
	07/19/2016	22.7	0.21	1077	6.13	57.6	2.6
	09/19/2016	23.2	0.18	2186	6.03	73.0	2.0
	11/29/2016	23.2	0.67	2971	5.99	23.2	1.6
	01/31/2017	22.6	0.14	1142	5.93	68.6	1.9
	03/29/2017	22.4	0.18	2070	6.05	22.4	1.9
	05/24/2017	21.8	0.17	1543	5.96	27.2	2.0
	10/11/2017	22.9	0.25	1134	6.16	-1.6	3.2
	12/11/2018	22.0	0.27	1985	8.57	-39.2	1.3
	04/17/2018	21.0	0.25	800	6.24	133.9	1.4
	08/15/2018	22.3	0.31	1344	6.03	58.3	1.4
	04/07/2019	21.2	0.26	1198	6.04	77.7	1.7
	09/25/2019	22.9	0.59	704	6.30	-	3.3
	03/26/2020	22.1	0.31	499	6.27	138.1	2.1
	09/23/2020	22.1	0.40	615	6.04	51.7	2.7
	04/20/2021	20.9	0.37	481	6.97	69.1	3.7
	09/29/2021	22.1	0.36	597	6.67	-39.2	1.9
	05/03/2022	21.3	0.35	909	6.31	222.0	3.1
	10/17/2022	21.9	0.40	387	6.24	232.4	4.2
04/12/2023	20.4	0.75	357	6.05	106.9	2.1	
10/18/2023	20.1	0.70	424	5.96	205.5	1.9	
MW-8	03/29/2016	19.7	0.12	403	6.11	186.0	2.0
	05/18/2016	21.4	0.20	501	6.29	19.2	1.9
	07/19/2016	22.2	0.13	637	6.43	-150.0	2.3
	09/19/2016	22.7	0.11	633	6.48	-133.0	3.2
	11/29/2016	21.4	0.13	612	6.43	-141.4	2.0
	01/31/2017	21.4	0.14	522	6.42	-111.0	1.4
	03/29/2017	22.2	0.15	530	6.19	5.2	2.9
	05/24/2017	22.0	0.21	524	6.17	-19.9	2.7
	10/11/2017	22.1	0.16	576	6.40	-126.8	1.2
	12/11/2018	20.5	0.16	821	8.07	-150.8	1.4
	04/17/2018	21.2	0.18	477	6.05	-134.8	2.7
	08/15/2018	22.3	0.20	505	6.47	-134.0	2.5
	04/07/2019	20.1	0.25	390	6.26	26.3	1.1
	05/21/2019	20.0	0.25	351	6.53	-71.4	1.2
	09/26/2019	21.9	0.28	517	6.63	-	1.9
	03/26/2020	20.2	0.29	393	6.60	-96.3	4.3
	09/23/2020	21.4	0.29	521	6.43	-117.9	1.8
	04/21/2021	18.3	0.33	447	7.55	-127.0	1.3
	09/30/2021	21.6	0.34	547	6.70	-182.0	2.6
	04/27/2022	19.9	0.32	468	6.82	238.7	3.7
10/17/2022	21.2	0.34	455	6.61	232.4	4.6	
04/12/2023	20.4	0.38	322	6.53	-137.8	2.0	
10/23/2023	21.9	0.38	482	6.94	-135.0	0.1	
MW-9	03/29/2016	18.6	0.80	844	6.26	-77.5	4.7
	05/18/2016	19.2	1.92	1001	6.26	-33.6	3.7
	07/19/2016	21.3	1.70	1186	6.20	-24.7	2.4
	09/19/2016	22.1	2.18	1465	6.13	-5.0	2.2
	11/29/2016	21.5	1.80	2259	6.26	3.0	0.1
	01/31/2017	20.0	0.35	1769	6.00	-24.6	1.2
	03/28/2017	19.5	2.05	1798	5.90	-0.1	1.5
	05/22/2017	19.7	1.58	1873	5.95	-10.2	2.8
	10/09/2017	22.4	0.34	1639	5.47	-33.9	2.9
	12/11/2018	20.7	0.36	2517	7.34	-64.9	1.1
	04/17/2018	17.8	0.26	1877	6.39	-105.1	3.0
	8/14/2018	21.2	0.26	2336	5.87	-109.1	0.4
	04/10/2019	18.2	0.28	3189	5.91	-32.5	1.0
	09/24/2019	22.3	0.27	2495	-	-	1.2
	03/26/2020	19.4	0.32	2593	6.06	-33.7	3.9
	09/23/2020	22.0	0.32	2506	5.90	-41.3	1.4
	04/21/2021	17.6	0.37	1771	7.56	-24.7	2.0
	09/30/2021	21.7	0.37	2052	6.22	-116.0	1.4
	04/25/2022	18.6	0.34	2386	6.34	225.5	-
	10/11/2022	22.3	0.95	1505	6.39	236.5	1.3
04/11/2023	18.3	0.41	1238	6.08	-27.1	3.0	
10/19/2023	21.5	2.31	1642	6.15	-41.1	3.8	

**APPENDIX B
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Charles R. Lowman Power Plant
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Monitoring Well	Date	Temperature C°	Dissolved Oxygen mg/L	Conductivity µS/Cm	pH Standard Units	ORP Mv	Turbidity NTUs
MW-10	03/29/2016	21.1	5.11	897	3.78	373.0	3.1
	05/18/2016	21.3	4.03	989	3.95	391.0	0.5
	07/19/2016	22.8	1.33	917	3.81	354.0	3.8
	09/19/2016	23.1	0.49	954	3.79	402.0	3.7
	11/29/2016	21.7	0.23	895	3.83	297.2	1.6
	01/31/2017	22.0	1.47	1145	4.06	332.0	1.8
	03/29/2017	22.5	0.23	930	3.90	378.0	1.2
	05/24/2017	22.0	0.26	884	3.84	344.0	1.6
	10/11/2017	22.4	0.94	832	4.05	330.2	2.4
	12/11/2018	20.7	1.41	1361	8.02	329.1	1.2
	04/17/2018	21.2	0.57	1108	4.01	353.8	2.0
	08/14/2018	23.4	1.39	659	4.32	309.1	2.5
	04/09/2019	21.5	1.22	808	3.87	327.0	0.8
	09/26/2019	24.2	0.98	709	4.36	-	1.4
	03/25/2020	21.7	0.59	842	4.31	339.7	3.2
	09/23/2020	23.9	0.87	765	3.91	340.0	1.9
	04/20/2021	21.3	0.63	1042	5.24	262.0	1.4
	09/30/2021	22.0	1.89	743	4.41	126.0	1.1
	04/27/2022	21.0	0.50	790	3.80	238.0	0.5
	10/13/2022	22.3	1.28	498	4.81	233.6	1.8
04/12/2023	20.9	0.76	611	4.55	229.3	3.1	
10/18/2023	22.6	2.17	669	4.70	260.0	3.4	
MW-11	03/29/2016	23.7	0.12	3130	6.76	-116.9	0.5
	05/18/2016	23.9	0.12	2944	6.76	-125.7	4.6
	07/19/2016	25.7	0.13	3019	6.75	-125.0	0.8
	09/19/2016	27.3	0.16	3324	6.93	-112.0	1.3
	11/29/2016	26.5	2.94	2729	6.65	-75.9	0.6
	01/31/2017	24.1	0.18	2138	6.80	-99.6	2.6
	03/29/2017	23.2	0.15	2524	6.98	-124.8	1.0
	05/24/2017	22.9	0.16	2270	6.73	-107.8	1.4
	10/10/2017	26.3	0.20	3120	6.58	-116.1	1.9
	12/11/2018	23.8	0.20	5259	10.58	-126.4	0.0
	04/17/2018	21.1	0.21	2762	7.06	-123.7	0.8
	08/15/2018	24.7	0.21	1418	7.00	-115.0	1.1
	04/09/2019	20.7	0.25	2503	6.90	-92.5	0.7
	05/23/2019	20.7	0.30	2381	6.85	-82.2	1.6
	09/26/2019	25.6	0.30	2995	7.15	-	1.5
	03/25/2020	22.2	0.30	2296	7.06	-100.4	1.6
	09/24/2020	-	0.33	-	6.84	-116.7	1.1
	04/20/2021	21.6	0.33	1331	7.51	-102.1	0.5
	10/01/2021	24.7	0.36	1431	7.09	-183.0	0.1
	04/27/2022	20.9	0.38	1021	6.99	238.8	2.1
10/17/2022	24.6	0.39	776	6.93	232.5	3.0	
04/12/2023	21.2	0.47	736	6.80	-12.1	1.3	
10/18/2023	26.9	0.41	899	6.76	-101.0	1.5	
MW-12	03/29/2016	22.4	6.25	948	6.13	212.0	3.2
	05/18/2016	22.5	5.00	961	5.67	201.8	3.8
	07/19/2016	Dry	Dry	Dry	Dry	Dry	Dry
	09/19/2016	Dry	Dry	Dry	Dry	Dry	Dry
	11/29/2016	Dry	Dry	Dry	Dry	Dry	Dry
	01/31/2017	22.8	1.53	846	5.71	201.5	2.7
	03/30/2017	22.4	2.43	815	5.59	337.0	1.2
	05/25/2017	21.7	3.94	1028	5.58	394.2	0.8
	10/10/2017	Dry	Dry	Dry	Dry	Dry	Dry
	04/17/2018	22.5	0.27	1220	5.71	262.3	1.1
	08/15/2018	Dry	Dry	Dry	Dry	Dry	Dry
	04/09/2019	22.2	1.06	1062	5.65	254.00	0.3
	09/26/2019	Dry	Dry	Dry	Dry	Dry	Dry
	03/24/2020	22.5	0.31	972	5.82	230.6	1.0
	09/24/2020	Dry	Dry	Dry	Dry	Dry	Dry
	04/21/2021	20.3	0.72	723	6.81	140.0	0.6
	10/01/2021	22.2	2.78	803	7.07	64.4	0.7
	04/25/2022	22.5	0.81	1110	6.02	225.6	-
	10/11/2022	Dry	Dry	Dry	Dry	Dry	Dry
	04/18/2023	21.2	3.91	831	6.10	183.0	1.4
10/17/2023	Dry	Dry	Dry	Dry	Dry	Dry	
MW-12A	07/19/2016	23.6	2.34	1152	5.67	230.2	4.1
	09/20/2016	23.9	1.76	1063	5.59	269.0	2.9
	11/29/2016	22.5	2.33	1077	5.39	282.9	2.5
	01/31/2017	22.9	0.17	1027	5.69	141.2	1.2
	03/30/2017	22.3	0.29	834	5.57	309.8	0.8
	05/25/2017	22.3	1.48	995	5.44	384.5	1.0
	10/10/2017	23.6	1.62	883	5.38	213.8	1.1
	12/11/2018	21.4	1.48	1459	8.68	221.2	1.9
	04/17/2018	22.6	0.23	1580	5.67	238.6	0.8
	08/14/2018	25.2	1.13	780	5.45	291.5	1.7
	04/09/2019	22.0	0.43	1057	5.50	256.0	0.2
	09/26/2019	23.9	1.12	819	5.85	-	1.2
	03/24/2020	22.8	0.30	969	5.84	213.7	1.4
	09/24/2020	-	2.02	-	5.41	377.0	0.1
	04/21/2021	21.4	0.34	702	6.78	113.0	0.8
	10/01/2021	22.1	0.67	834	5.83	-8.9	0.2
	04/25/2022	22.6	0.33	1101	5.86	225.6	-
	10/13/2022	21.4	1.90	602	5.63	233.6	2.0
	04/18/2023	21.7	0.47	700	5.69	157.1	0.4
	10/17/2023	19.8	2.29	889	5.54	316.3	0.2

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Monitoring Well	Date	Temperature C°	Dissolved Oxygen mg/L	Conductivity µS/Cm	pH Standard Units	ORP Mv	Turbidity NTUs
MW-13	05/18/2016	20.7	0.27	777	6.05	26.2	3.1
	07/19/2016	23.5	0.24	602	5.97	18.8	0.7
	09/19/2016	26.0	2.75	495	6.18	115.0	2.2
	11/29/2016	24.5	0.35	890	6.19	77.9	1.7
	01/31/2017	21.7	1.49	891	6.01	120.1	1.9
	03/27/2017	20.8	1.38	737	6.23	96.8	2.2
	05/25/2017	21.4	0.74	579	6.18	56.2	3.3
	10/10/2017	26.3	0.69	473	5.82	28.5	1.5
	12/11/2018	22.9	0.32	709	8.34	7.5	1.1
	04/17/2018	20.6	1.02	401	6.46	-19.5	2.4
	08/13/2018	23.9	1.40	396	6.26	88.7	2.2
	04/09/2019	19.4	0.50	381	6.25	17.6	1.3
	09/23/2019	25.7	2.17	273	-	-	2.2
	03/25/2020	21.5	0.40	345	6.52	345.0	2.1
	09/21/2020	Dry	Dry	Dry	Dry	Dry	Dry
	04/19/2021	19.9	1.77	356	6.20	1.4	2.3
	09/28/2021	24.4	0.68	479	6.61	-22.8	1.0
	05/02/2022	22.1	1.48	725	6.41	222.0	3.1
	10/18/2022	23.5	2.17	304	6.02	247.1	3.8
	04/10/2023	20.4	8.42	317	6.81	-93.1	4.0
10/17/2023	Dry	Dry	Dry	Dry	Dry	Dry	
MW-13A	04/08/2019	21.3	1.27	451	5.78	9.2	11.8
	05/22/2019	21.6	0.28	389	5.94	-22.4	3.9
	09/23/2019	22.4	0.31	351	-	-	3.6
	11/18/2019	21.0	0.30	473	5.56	84.8	2.4
	01/30/2020	20.3	0.31	542	5.50	72.2	0.8
	03/25/2020	22.2	0.30	415	5.59	64.9	1.2
	06/23/2020	21.8	0.32	409	5.62	-19.4	0.6
	09/21/2020	21.9	0.39	408	5.32	51.7	-8.9
	04/19/2021	21.1	0.33	454	5.28	58.2	1.7
	09/28/2021	21.9	0.35	550	5.64	40.5	0.8
	04/27/2022	22.0	0.40	471	5.39	238.8	4.7
	10/17/2022	22.1	0.41	410	5.47	232.4	4.2
	04/11/2023	20.8	0.46	411	5.30	84.1	3.8
	10/17/2023	22.9	0.47	590	5.33	81.2	1.1
MW-14	05/18/2016	22.8	0.09	1014	6.09	137.6	1.3
	07/19/2016	Dry	Dry	Dry	Dry	Dry	Dry
	09/19/2016	Dry	Dry	Dry	Dry	Dry	Dry
	11/29/2016	Dry	Dry	Dry	Dry	Dry	Dry
	01/31/2017	24.9	0.16	1303	4.62	246.9	0.8
	03/29/2017	23.7	1.16	1574	4.99	173.0	1.6
	05/23/2017	24.8	0.32	921	5.46	107.5	2.5
	10/10/2017	Dry	Dry	Dry	Dry	Dry	Dry
	04/17/2018	24.4	0.21	1943	6.11	-75.9	3.1
	08/15/2018	Dry	Dry	Dry	Dry	Dry	Dry
	04/10/2019	23.0	0.20	1539	6.05	-59.9	3.8
	09/26/2019	Dry	Dry	Dry	Dry	Dry	Dry
	03/24/2020	23.1	0.24	1031	6.11	-35.0	4.2
	09/24/2020	Dry	Dry	Dry	Dry	Dry	Dry
	04/22/2021	21.5	0.30	1661	4.83	-104.0	3.6
	09/29/2021	23.5	0.31	1049	6.42	-206.2	0.4
	04/26/2022	22.0	0.30	1324	6.35	228.0	3.4
	10/11/2022	Dry	Dry	Dry	Dry	Dry	Dry
	04/13/2022	21.1	0.37	694	5.7	-22.8	4.4
	10/24/2023	Dry	Dry	Dry	Dry	Dry	Dry
MW-14A	08/04/2016	23.8	0.17	1642	5.63	75.5	1.2
	09/19/2016	24.1	0.15	1596	5.75	85.0	1.9
	11/29/2016	23.3	0.19	1494	5.48	54.6	0.7
	01/31/2017	24.0	0.13	1671	5.11	120.1	1.1
	03/29/2017	24.0	0.16	1825	5.38	54.7	1.2
	05/23/2017	23.9	0.17	1729	5.16	69.5	2.1
	10/10/2017	24.1	0.18	1642	5.09	82.0	2.3
	12/11/2018	23.3	0.23	2412	7.24	-10.2	2.1
	04/17/2018	22.9	0.19	2459	5.53	60.9	1.3
	08/15/2018	24.0	0.20	1352	5.34	63.2	1.2
	04/10/2019	23.1	0.24	1847	5.41	84.6	1.8
	09/26/2019	23.5	0.32	1341	5.76	-	2.7
	03/24/2020	23.6	0.26	921	5.80	61.5	3.4
	09/24/2020	-	0.31	-	5.40	70.4	1.2
	04/22/2021	22.4	0.31	1218	4.45	-24.0	0.8
	09/29/2021	23.4	0.32	929	6.08	-130.2	0.6
	05/04/2022	23.3	0.37	1568	5.91	222.0	3.0
10/12/2022	23.1	0.38	658	5.51	227.4	4.0	
04/13/2023	21.2	0.36	526	5.62	21.5	2.1	
10/24/2023	23.5	0.87	631	6.07	51.7	4.7	
MW-14B	09/29/2021	22.5	0.35	1516	6.56	-195.4	1.2
	04/26/2022	21.7	0.35	893	6.12	228.0	4.5
	10/12/2022	22.5	0.39	1151	5.90	227.4	2.9
	04/13/2023	19.6	0.69	470	5.82	-20.2	4.6
	10/24/2023	21.9	0.49	340	6.31	42.9	0.2
MW-15	04/07/2019	20.7	0.30	226	5.49	102.0	4.2
	05/22/2019	20.8	0.29	197	5.55	97.8	8.5
	09/24/2019	22.4	0.56	122	5.68	-	3.8
	11/20/2019	20.3	0.60	174	4.98	189.0	2.3
	01/30/2020	19.0	1.68	167	5.03	277.8	2.9
	03/23/2020	19.6	1.91	110	5.44	222.7	4.3
	06/22/2020	19.9	0.81	119	5.49	92.8	2.3
	09/21/2020	20.1	1.06	114	5.04	234.5	4.1
	04/20/2021	19.6	1.64	129	7.41	220.0	3.7
	10/04/2021	19.7	0.56	100	6.11	210.0	3.8
	04/26/2022	19.3	0.71	150	5.17	228.2	-
	10/12/2022	20.5	0.45	84	5.15	227.3	5.0
	04/10/2023	18.2	1.87	84	5.14	221.0	2.5
	10/17/2023	19.9	0.67	102	5.34	198.7	4.7

APPENDIX B
HISTORICAL GROUNDWATER FIELD DATA SUMMARY
Charles R. Lowman Power Plant
Leroy, Alabama

Monitoring Well	Date	Temperature C°	Dissolved Oxygen mg/L	Conductivity µS/Cm	pH Standard Units	ORP Mv	Turbidity NTUs
MW-16	04/08/2019	21.6	0.25	1229	5.90	-19.0	3.9
	05/22/2019	22.0	0.26	1027	5.86	10.9	11.0
	09/25/2019	22.7	0.06	985	6.06	-	2.5
	11/19/2019	21.4	0.29	1118	5.99	35.2	2.8
	01/30/2020	21.1	0.30	1071	5.85	51.9	3.9
	03/24/2020	22.1	0.30	716	5.97	38.0	4.6
	06/22/2020	22.1	0.28	710	5.95	33.7	3.9
	09/22/2020	21.6	0.37	789	5.78	17.0	4.7
	04/20/2021	21.3	0.33	683	6.25	61.4	4.7
	10/04/2021	22.7	0.37	554	6.17	51.1	4.3
	04/26/2022	20.6	0.35	790	5.99	228.0	-
	10/12/2022	21.5	0.38	510	5.68	227.3	5.8
	04/12/2023	20.3	0.41	418	5.70	99.1	3.2
	10/17/2023	21.5	0.42	718	5.76	38.5	4.9
MW-17	04/08/2019	21.7	0.24	1724	6.12	-30.5	4.6
	05/22/2019	22.3	0.25	1199	6.09	-28.7	13.5
	09/26/2019	23.0	0.32	1150	6.24	-	4.0
	11/19/2019	21.1	0.28	1353	6.27	24.8	4.5
	01/30/2020	21.6	0.31	1802	6.11	34.2	3.3
	03/25/2020	22.3	0.28	1217	6.22	-0.9	4.7
	06/23/2020	22.9	0.31	1180	6.29	-118.8	4.8
	09/22/2020	21.9	0.37	969	6.01	-46.4	4.8
	04/19/2021	21.3	0.31	1027	6.70	26.5	3.1
	09/28/2021	21.6	0.33	1226	6.45	-11.8	2.0
	05/03/2022	21.9	0.37	1842	6.26	222.0	4.6
	10/12/2022	22.7	0.42	830	5.81	227.4	5.0
	04/12/2023	21.1	0.39	788	6.00	13.0	3.7
	10/26/2023	23.1	0.44	738	6.23	45.1	4.2
MW-18	04/07/2019	19.8	0.25	553	6.24	-101.0	2.1
	05/22/2019	20.4	0.24	486	6.15	-80.0	10.2
	09/24/2019	21.0	0.27	294	5.94	-	1.7
	11/19/2019	19.4	0.27	366	6.08	-42.1	2.4
	01/29/2020	18.5	0.32	700	6.19	-87.6	1.3
	03/25/2020	20.4	0.29	501	6.27	-101.1	2.9
	06/23/2020	21.8	0.30	366	6.16	-126.0	2.5
	09/22/2020	20.3	0.34	301	5.87	-44.8	3.5
	04/19/2021	19.8	0.31	521	6.92	-76.1	3.1
	09/29/2021	20.1	0.35	348	6.37	-133.0	0.0
	04/26/2022	19.4	0.36	614	6.25	228.0	3.3
	10/12/2022	20.2	0.37	256	5.81	227.3	4.0
	04/12/2023	19.6	0.40	383	6.04	-81.9	3.9
	10/19/2023	19.8	0.44	337	5.90	-25.9	4.0
MW-19	04/07/2019	21.2	0.29	372	4.95	245.0	3.3
	05/22/2019	21.4	0.34	293	5.01	293.0	5.5
	09/25/2019	21.1	0.36	358	4.92	-	4.8
	11/20/2019	20.0	0.39	431	4.97	275.0	1.0
	01/29/2020	19.2	0.36	415	5.57	249.5	2.6
	03/25/2020	20.8	0.49	304	5.44	219.7	3.5
	06/23/2020	21.8	0.84	263	5.19	239.9	3.1
	09/22/2020	21.2	0.45	315	4.80	291.0	2.4
	04/20/2021	21.2	0.48	244	7.15	203.0	1.9
	09/29/2021	21.5	0.40	297	5.84	15.1	0.2
	04/26/2022	20.1	0.47	356	5.65	228.0	4.3
	10/18/2022	19.2	0.59	283	4.87	247.0	4.0
	04/13/2023	19.8	0.46	193	5.33	161.2	0.9
	10/17/2023	20.4	0.63	320	4.99	236.8	2.0
MW-20	04/06/2019	19.0	0.29	529	6.10	-118.3	1.2
	05/22/2019	18.6	0.27	416	6.16	-85.8	3.1
	09/25/2019	18.9	0.28	488	6.64	-	2.0
	11/20/2019	18.6	0.34	651	6.18	-131.0	0.7
	01/29/2020	18.3	0.30	697	6.44	-114.1	1.2
	03/25/2020	18.4	0.35	470	6.39	-125.6	2.7
	06/23/2020	18.8	0.29	453	6.33	-144.8	3.4
	09/21/2020	18.7	0.36	461	6.26	-149.8	2.1
	04/20/2021	18.9	0.33	510	7.29	-112.7	1.1
	10/04/2021	19.8	0.36	332	6.53	-66.3	1.6
	05/04/2022	19.2	0.39	861	6.29	222.0	0.6
	10/11/2022	20.9	0.35	357	6.66	236.0	5.8
	04/11/2023	19.6	0.39	418	6.06	-110.0	4.2
	10/24/2023	19.2	0.41	357	6.54	-129.0	3.9
MW-21	04/06/2019	19.8	0.29	465	5.98	-28.0	3.3
	05/22/2019	19.4	0.27	408	6.07	-1.7	10.5
	09/25/2019	21.3	0.32	586	6.68	-	4.6
	11/19/2019	20.0	0.28	644	6.40	-65.9	3.7
	01/29/2020	18.8	0.29	811	6.42	-73.8	3.7
	03/25/2020	19.6	0.30	492	6.34	-57.0	4.7
	06/24/2020	19.5	0.36	578	6.23	-56.4	4.3
	09/22/2020	19.7	0.41	548	6.42	-116.5	4.0
	04/21/2021	18.5	0.31	568	7.10	-87.8	3.8
	10/04/2021	20.3	0.37	357	6.53	8.7	4.7
	05/03/2022	19.6	0.38	1075	6.35	222.0	4.7
	10/13/2022	20.3	0.40	453	6.65	233.6	8.2
	04/11/2023	19.5	0.40	454	6.24	-88.3	4.8
	10/24/2023	20.8	0.97	438	6.84	-86.8	4.6
MW-22	04/07/2019	22.3	0.27	774	6.24	-51.5	3.1
	05/22/2019	21.6	0.26	615	6.23	-53.3	4.8
	09/26/2019	23.9	0.29	751	6.39	-	2.5
	11/19/2019	22.7	0.28	841	6.37	-70.1	2.3
	01/29/2020	20.3	0.29	1063	6.41	-74.5	4.4
	03/23/2020	21.2	0.31	710	6.41	-75.2	2.1
	06/23/2020	22.0	0.31	627	6.44	-100.4	4.6
	09/21/2020	22.1	0.35	634	6.23	-113.7	2.1
	04/20/2021	21.4	0.33	674	7.10	-69.8	3.9
	09/30/2021	22.7	0.33	820	6.60	-179.0	1.0
	05/02/2022	21.8	0.32	1326	6.46	222.0	3.7
	10/13/2022	22.4	0.37	557	6.40	233.7	3.5
	04/12/2023	21.3	0.38	573	6.20	-90.0	2.2
	10/24/2023	21.5	0.46	573	6.51	-99.7	1.7

APPENDIX B
HISTORICAL GROUNDWATER FIELD DATA SUMMARY
Charles R. Lowman Power Plant
Leroy, Alabama

Monitoring Well	Date	Temperature C°	Dissolved Oxygen mg/L	Conductivity µS/Cm	pH Standard Units	ORP Mv	Turbidity NTUs
MW-23	04/08/2019	23.8	0.25	2507	6.91	-130.0	3.9
	05/22/2019	23.8	0.26	2503	6.72	-103.3	5.7
	09/27/2019	24.0	0.31	2506	6.97	-	1.6
	11/19/2019	23.6	0.25	3043	6.82	-100.0	2.4
	01/30/2020	22.7	0.28	3950	6.63	-93.1	3.9
	03/23/2020	23.7	0.28	2490	6.73	-97.8	4.0
	06/24/2020	23.7	0.30	2851	6.51	-89.5	3.7
	09/24/2020	-	0.29	-	6.40	-80.9	4.6
	04/22/2021	23.0	0.29	4331	5.06	-130.0	2.7
	10/01/2021	23.8	0.33	2831	6.89	-207.0	4.5
	05/04/2022	23.8	0.31	4628	6.62	222.0	4.4
	10/18/2022	24.0	0.36	1691	6.26	247.1	4.1
	04/18/2023	24.0	0.38	2071	6.61	-93.1	4.6
	10/25/2023	24.6	0.38	1555	6.77	-76.1	1.7
	MW-24	06/24/2020	23.6	0.34	2561	6.74	-115.7
09/22/2020		22.6	0.39	1972	6.43	-64.7	4.1
04/21/2021		20.9	0.38	1850	7.15	-48.0	3.2
09/28/2021		22.4	0.32	1096	7.02	-99.8	2.6
05/03/2022		23.2	0.35	2579	6.75	222.0	4.7
10/18/2022		21.9	0.41	1282	6.17	247.0	5.3
04/13/2023		20.4	0.43	678	6.26	-58.6	2.2
10/26/2023		24.1	0.44	981	6.53	-76.9	4.0
MW-25	06/24/2020	23.4	0.24	2611	5.82	-5.7	3.2
	09/23/2020	23.4	0.35	2968	5.74	11.1	4.8
	04/22/2021	22.7	0.35	2829	4.44	-72.1	4.2
	10/05/2021	23.1	0.36	1925	6.46	23.1	4.4
	05/04/2022	23.5	0.33	2919	6.16	222.0	4.9
	10/13/2022	22.9	0.38	1987	5.97	233.7	1.5
	04/13/2023	22.2	0.39	1310	5.91	-57.1	4.2
	10/26/2023	22.3	0.51	2223	6.12	-9.2	4.0
	MW-26	06/24/2020	20.3	3.97	351	6.64	109.5
09/24/2020		-	4.07	-	6.38	259.0	2.7
04/22/2021		21.5	4.77	721	5.12	158.0	3.7
10/05/2021		21.8	4.43	539	7.04	93.0	3.7
05/03/2022		21.4	6.49	990	6.62	222.0	2.9
10/18/2022		20.7	1.65	425	6.26	247.0	3.9
04/18/2023		21.0	8.38	405	6.50	204.7	4.2
10/26/2023		20.8	2.67	412	6.30	-19.2	3.8

APPENDIX C

2023 FIELD SAMPLING LOG FORMS



GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 1	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-11-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 24.30	STATIC WATER LEVEL DEPTH (feet): 6.43
PURGING INITIATED AT: 1056		PURGING ENDED AT: 1150	
		TOTAL VOLUME PURGED (gallons): 7.02	

TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1058	0.13		18.6	1.37	267	5.66	54.0	14.4	clearish	None
1113			18.6	0.49	227	5.57	55.4	41	Murky	None
1122			18.7	0.42	228	5.56	51.0	35	"	"
1130			18.8	0.45	234	5.56	53.9	8.6	CR	N/A
1140			18.9	0.43	235	5.56	57.6	3.98	CR	N/A

SAMPLING DATA

SAMPLE DATE: 4-11-23	SAMPLE COLLECTION TIME: 1140
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: $\frac{2.8}{.13} = 21.5$ * dumped cell @ 11:22 : lots of silt accumulated	

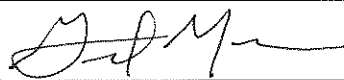
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 2	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-11-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 36.47				STATIC WATER LEVEL DEPTH (feet): 17.98				
PURGING INITIATED AT: 1225			PURGING ENDED AT: 1341			TOTAL VOLUME PURGED (gallons): 7.68				
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1230	101	17.98	21.9	2.37	56.3	4.57	204	73	murky	None
1236			21.6	0.70	56.0	4.58	231	75	"	"
1254	"	"	21.7	0.48	55.6	4.57	242	17	clearish	None
1318	"	"	21.8	0.45	55.1	4.57	243	12.5	clear	None
1323	"	"	22.0	0.40	55.2	4.57	242	7.74	Clear	None
1326	"	"	21.7	0.40	55.3	4.57	245	6.0	Clear	None
1330	"	"	21.5	0.40	55.3	4.57	245	5.2	Clear	None
1335			21.5	0.40	55.3	4.57	246	4.6	Clear	None

SAMPLING DATA

SAMPLE DATE: 4-11-23	SAMPLE COLLECTION TIME: 1335
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: *dumped cell @ 1315 due to silt	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW-03 TW-1	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-10-23	

PURGING DATA

WELL DIAMETER 2 (Inches):	TUBING DIAMETER 1/4 (Inches):	WELL DEPTH (feet): 20.58 32.5	STATIC WATER LEVEL DEPTH (feet): 6.49							
PURGING INITIATED AT: 12:01		PURGING ENDED AT: 1:19	TOTAL VOLUME PURGED (gallons): 5.46							
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1215	0.07	6.51	18.5	1.51	102.8	4.31	224.6	3.4	clear	none
1222		6.51	18.7	0.85	98.4	4.34	239.6	4.6	clear	none
1224		6.51	18.8	0.80	96.6	4.34	241.7	3.9	clear	none
1230		6.51	18.7	0.75	94.9	4.34	243.7	4.2	clear	none
1240		6.51	18.6	0.70	94.3	4.36	244	4.3	clear	none
1255		6.51	18.6	0.72	94.1	4.36	236	4.9	clear	none

SAMPLING DATA

SAMPLE DATE: 4-10-23	SAMPLE COLLECTION TIME: 1255
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: <div style="text-align: right; margin-right: 50px;"> 4.1 = Well Vol / .07 = 59 min TDS 4-18-23 </div>	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 4	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-10-23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 28.32	STATIC WATER LEVEL DEPTH (feet): 14.15							
PURGING INITIATED AT: 1538		PURGING ENDED AT: 1609	TOTAL VOLUME PURGED (gallons): 4.34							
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1542	0.14	14.21	20.1	0.62	922	5.99	-90.7	2.0	clear	none
1545	"	"	20.0	0.57	926	6.00	-94.0	2.1	CLR	None
1550	"	"	20.1	0.44	1092	5.89	-84.8	1.9	CLR	None
1555	"	"	20.3	0.43	1383	5.60	-40.3	2.1	CLR	None
1600	"	"	20.4	0.42	1421	5.58	-38.7	2.0	CLR	None

SAMPLING DATA

SAMPLE DATE: 4-10-23	SAMPLE COLLECTION TIME: 1600
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: 2.2 / .14 = 16 min <div style="text-align: right;">TRJ S 4-18-23 1620</div>	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 5	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-18-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 29.35	STATIC WATER LEVEL DEPTH (feet): 16.29							
PURGING INITIATED AT: 1515		PURGING ENDED AT: 1550		TOTAL VOLUME PURGED (gallons): 3.54						
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1518	0.101	16.31	21.4	0.50	813	6.15	-57.9	5.26	CR	None
1525	"	"	21.3	0.38	809	6.15	-72.4	5.8	CR	None
1530	"	"	21.4	0.36	775	6.09	-67.8	4.9	CR	None
1535	"	"	21.4	0.35	770	6.09	-65.3	3.7	CR	None

SAMPLING DATA

SAMPLE DATE: 4-18-23	SAMPLE COLLECTION TIME: 1540
SAMPLED BY (PRINT): Grant Marum	SAMPLER(S) SIGNATURES:
REMARKS:	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 5A	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-18-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 39.02	STATIC WATER LEVEL DEPTH (feet): 16.11
PURGING INITIATED AT: 1441		PURGING ENDED AT: 1500 1515	
		TOTAL VOLUME PURGED (gallons): 3.434	

TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1501	2101	16.11	22.0	0.39	774	5.92	-0.3	2.50	clear	none
1505	"	"	21.8	0.39	783	5.93	0.2	0.78	CR	None
1510	"	"	21.9	0.38	781	5.93	0.6	0.41	CR	None

SAMPLING DATA

SAMPLE DATE: 4-18-23	SAMPLE COLLECTION TIME: 1510
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS:	

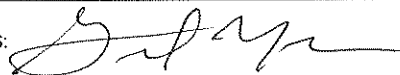
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 6	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 04/12/2023	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 29.26				STATIC WATER LEVEL DEPTH (feet): 5.14				
PURGING INITIATED AT: 11:52			PURGING ENDED AT: 12:45			TOTAL VOLUME PURGED (gallons): 5.35				
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1156	101	7.41	18.8	0.72	406.1	5.73	105.5	89	orange	none
1201	"	"	18.6	0.63	403.4	5.73	117.3	54	murky	none
1208	"	"	18.5	0.60	401.5	5.71	130.6	27	clearish	none
1215	"	7.82	18.5	0.59	401.2	5.70	136.8	12.1	clear	none
1225	"	"	18.5	0.58	400.6	5.68	142.6	7.6	clear	none
1230	"	"	18.5	0.57	400.1	5.68	143.4	6.0	clear	none
1233	"	"	18.5	0.61	400.5	5.68	147.1	4.91	clear	none
1240	"	"	18.5	0.62	401.1	5.68	147.7	4.3	clear	none

SAMPLING DATA

SAMPLE DATE: 4-12-23	SAMPLE COLLECTION TIME: 1235
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: * lots of bubbles in 751	

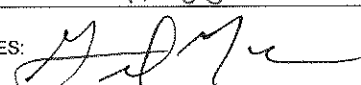
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 7	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 04/12/2023	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 32.65	STATIC WATER LEVEL DEPTH (feet): 12.75							
PURGING INITIATED AT: 10:33			PURGING ENDED AT: 11:09			TOTAL VOLUME PURGED (gallons): 5.04				
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1035	0.14	12.75	20.5	1.05	362	6.04	69.5	4.3	CIR	None
1042	"	"	20.5	0.70	360	6.05	96.0	1.7	CIR	None
1053	"	"	20.4	0.75	357	6.05	106.9	2.1	CIR	None

SAMPLING DATA

SAMPLE DATE: 4-12-23	SAMPLE COLLECTION TIME: 11:00
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS:	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 8	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 04/12/2023	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 37.68				STATIC WATER LEVEL DEPTH (feet): 12.12				
PURGING INITIATED AT: 12:56			PURGING ENDED AT: 13:28			TOTAL VOLUME PURGED (gallons): 4.80				
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1257	0.15	11.40	20.2	1.53	372	6.43	-91.6	2.4	Clear	None
1259	"	"	20.4	0.55	320	6.48	-114.9	1.6	CR	None
1315	"	"	20.4	0.38	322	6.53	-136.5	2.1	CR	None
1320	"	"	20.4	0.37	321	6.53	-136.1	2.3	CR	None
1325	"	"	20.4	0.36	322	6.53	-135.4	1.9	CR	None
1330	"	"	20.4	0.38	322	6.53	-137.8	2.0	CR	None

SAMPLING DATA

SAMPLE DATE: 4-12-23	SAMPLE COLLECTION TIME: 1320
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS:	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 9	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-11-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 29.01	STATIC WATER LEVEL DEPTH (feet): 6.30							
PURGING INITIATED AT: 10:01		PURGING ENDED AT: 1041								
		TOTAL VOLUME PURGED (gallons): 4.04								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1005	0.101	6.33	18.5	0.66	1185	6.21	-23.0	3.8	CIR	None
1009	"		18.3	0.49	1208	6.24	-35.4	2.5	CIR	None
1014			18.2	0.44	1217	6.23	-40.9	4.1	CIR	None
1022	"	"	18.3	0.42	1230	6.15	-33.1	9.0	CIR	None
1031	"	"	18.3	0.42	1237	6.10	-27.4	6.4	CIR	None
1035	"	"	18.3	0.41	1238	6.08	-26.8	4.5	CIR	None
1040	"	"	18.3	0.41	1238	6.08	-27.1	3.0	CIR	None

SAMPLING DATA

SAMPLE DATE: 4-11-23	SAMPLE COLLECTION TIME: 1035
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: <div style="text-align: center; font-family: cursive;"> $\frac{3.6 \text{ gal}}{.1} = 36$ </div>	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 10	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 04/12/2023	

PURGING DATA

WELL DIAMETER 2 (Inches):	TUBING DIAMETER 1/4 (Inches):	WELL DEPTH (feet): 41.46	STATIC WATER LEVEL DEPTH (feet): 10.08							
PURGING INITIATED AT: 14:18		PURGING ENDED AT: 1458								
		TOTAL VOLUME PURGED (gallons): 5.60								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1419	0.14	10.08	20.7	2.9	498	4.37	145.5	29	Murky	none
1427	"	"	20.9	1.00	549	4.55	200.8	13	clearish	none
1432	"	"	20.9	0.90	574	4.57	212.3	9.1	clear	none
1437	"	"	20.9	0.82	579	4.57	219.0	7.1	clear	none
1441	"	"	20.9	0.82	584	4.56	225.0	5.3	CR	none
1445	"	"	20.9	0.81	587	4.56	228.1	3.6	CR	none
1450	"	"	20.9	0.76	611	4.55	229.3	3.1	CR	none

SAMPLING DATA

SAMPLE DATE: 4-12-23	SAMPLE COLLECTION TIME: 1450
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS:	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 11	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 04/12/2023	

PURGING DATA

WELL DIAMETER 2 (Inches):	TUBING DIAMETER 1/4 (Inches):	WELL DEPTH (feet): 43.10				STATIC WATER LEVEL DEPTH (feet): 22.82				
PURGING INITIATED AT: 1503			PURGING ENDED AT: 1537			TOTAL VOLUME PURGED (gallons): 5.03				
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1506	.148	22.82	20.9	1.96	150	6.60	20.7	9.3	Clear	None
1511	"	"	21.1	0.67	708	6.76	-67.8	9.9	Clear	None
1515	"	"	21.2	0.02 0.63	717	6.79	-85.2	3.7	UR	None
1520	"	"	21.1	0.62	669	6.79	-85.9	2.7	UR	None
1525	"	"	21.2	0.58	731	6.80	-91.4	1.2	UR	None
1530	"	"	21.2	0.48	734	6.80	-11.6	1.4	UR	None
1535	"	"	21.2	0.47	736	6.80	-12.1	1.3	UR	None

SAMPLING DATA

SAMPLE DATE: 4-12-23	SAMPLE COLLECTION TIME: 1530
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: <p style="text-align: center;">$3.2 / .148 = 21$</p>	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 12A	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-18-23	

PURGING DATA

WELL DIAMETER 2 (Inches):	TUBING DIAMETER 1/4 (Inches):	WELL DEPTH (feet): 38.42	STATIC WATER LEVEL DEPTH (feet): 21.46							
PURGING INITIATED AT: 1024		PURGING ENDED AT: 1053								
		TOTAL VOLUME PURGED (gallons): 4.06								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1027	.14	21.46	21.6	0.90	725	5.64	138.2	0.3	CR	None
1031	"	"	21.6	0.59	716	5.68	149.5	3.1	CR	None
1035	"	"	21.6	0.53	705	5.68	155.0	2.1	CR	None
1040	"	"	21.6	0.50	702	5.68	156.5	0.2	CR	None
1045	"	"	21.6	0.47	700	5.69	157.1	0.4	CR	None

SAMPLING DATA

SAMPLE DATE: 4-18-23	SAMPLE COLLECTION TIME: 1045
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: 27 / .14 = 19	

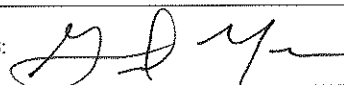
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 12	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-18-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 46.31	STATIC WATER LEVEL DEPTH (feet): 21.21							
PURGING INITIATED AT: 1055		PURGING ENDED AT: 1129								
		TOTAL VOLUME PURGED (gallons): 4.76								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1055	14	21.25	20.2	4.6	718	6.01	171	2.1	CR	None
1058	"	"	20.5	4.10	825	6.11	171	0.6	CR	None
1102	"	"	20.9	4.11	836	6.11	173	0.3	CR	None
1110	"	"	20.9	4.09	837	6.11	176	1.5	CR	None
1115	"	"	20.9	4.11	836	6.11	178	0.19	CR	None
1120	"	"	20.9	4.02	833	6.11	181	0.9	CR	None
1125	"	"	21.2	3.91	831	6.10	183	1.4	CR	None

SAMPLING DATA

SAMPLE DATE: 4-18-23	SAMPLE COLLECTION TIME: 1120
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS:	

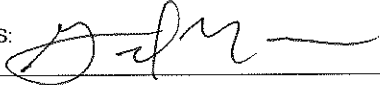
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 13	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-10-23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 29.25	STATIC WATER LEVEL DEPTH (feet): 12.82							
PURGING INITIATED AT: 1413		PURGING ENDED AT: 1511								
		TOTAL VOLUME PURGED (gallons): 5.22								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1419	0.05	13.68	20.3	1.32	313	6.35	-78.7	12.5	Clearish	none
1427	.09	"	20.3	7.91	319	6.60	-90.5	2.3	Clear	none
1435	"	"	20.2	8.02	320	6.63	-94.6	2.0	CR	none
1511	"	"	20.4	8.42	317	6.71	-93.1	4.0	CR	None

SAMPLING DATA

SAMPLE DATE: 4-10-23	SAMPLE COLLECTION TIME: 1440
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: <div style="text-align: center;"> <p>$26 / .05 = 52$</p> <p>dumped cell and ↑ flow @ 1427</p> <p style="text-align: right;">TOS 4-18-23 1605</p> </div>	


GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 14	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-13-22	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 29.48	STATIC WATER LEVEL DEPTH (feet): 17.80							
PURGING INITIATED AT: 1048		PURGING ENDED AT: 1142		TOTAL VOLUME PURGED (gallons): 7.56						
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1055	0.14	17.80	20.6	0.52	743	5.88	-28.4	55	murky	none
1105	"	"	20.9	0.38	727	5.81	-32.2	27	murky	none
1115	"	"	21.0	0.37	709	5.74	-26.4	10.9	clear	none
1125	"	"	21.0	0.37	699	5.72	-24.4	7.8	clear	none
1130	"	"	21.1	0.37	694	5.69	-22.8	4.4	clear	none

SAMPLING DATA

SAMPLE DATE: 4-13-23	SAMPLE COLLECTION TIME: 1135
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS:	

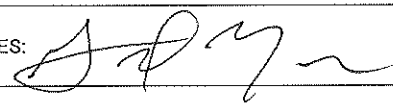
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 14A	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-13-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 38.98	STATIC WATER LEVEL DEPTH (feet): 16.35							
PURGING INITIATED AT: 1148		PURGING ENDED AT: 1228								
		TOTAL VOLUME PURGED (gallons): 5.60								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1152	0.14	16.35	20.9	1.09	545	5.67	26.2	14	clearish	none
1159	"	"	20.2	0.93	534	5.65	27.9	8.6	clearish	none
1215	"	"	21.2	0.38	530	5.62	24.6	4.3	CR	None
1220	"	"	21.2	0.37	525	5.62	22.9	2.5	CR	None
1225	"	"	21.2	0.36	526	5.62	21.5	2.1	CR	None

SAMPLING DATA

SAMPLE DATE: 4-13-23	SAMPLE COLLECTION TIME: 1220
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS:	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 14B	SAMPLE METHOD: Dedicated Bladder Pump
	DATE: 4-13-23

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 38.64	STATIC WATER LEVEL DEPTH (feet): 16.78							
PURGING INITIATED AT: 1231		PURGING ENDED AT: 1323								
		TOTAL VOLUME PURGED (gallons): 10.00 7.28								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1239	.14	16.79	19.6	1.04	686	5.85	3.0	10.8	Clearish	None
1242	"	"	19.6	1.00	653	5.85	-2.2	5.06	Clear	None
1245	"	"	19.6	0.8	470.4	5.83	-10.5	2.9	CR	None
1248	"	"	19.6	0.75	466.3	5.83	-14.3	4.3	CR	None
1257	"	"	19.6	0.70	464.8	5.82	-19.0	4.6	CR	None
1305	"	"	19.6	0.68	467.4	5.82	-19.3	4.5	CR	None
1315	"	"	19.6	0.69	469.8	5.82	-20.2	4.6	CR	None

SAMPLING DATA

SAMPLE DATE: 4-13-23	SAMPLE COLLECTION TIME: 1315
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS:	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 3	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-10-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 24.58	STATIC WATER LEVEL DEPTH (feet): 7.69
PURGING INITIATED AT: 1325		PURGING ENDED AT: 1300 1359	
		TOTAL VOLUME PURGED (gallons): 3.43	

TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1329	0.101	7.71	17.9	1.04	60.3	4.4	202	7.1	clear	none
1335	"	"	17.4	0.54	60.8	4.5	162	4.3	clear	none
1340	"	7.74	17.3	0.49	61.0	4.6	134.2	3.7	clear	none
1345	"	7.74	17.3	0.47	63.6	4.74	111.2	3.7	clear	none
1355	"	7.74	17.4	0.46	63.9	4.75	104.1	3.8	clear	none

SAMPLING DATA

SAMPLE DATE: 4-10-23	SAMPLE COLLECTION TIME: 1355
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: <div style="text-align: right; margin-right: 50px;"> 2.7 / .101 = 26 min </div> <div style="text-align: center; margin-top: 20px;"> TDS 4-18-23 1559 </div>	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 13A	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-11-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 62.90				STATIC WATER LEVEL DEPTH (feet): 21.46					
PURGING INITIATED AT: 0907				PURGING ENDED AT: 0954				TOTAL VOLUME PURGED (gallons): 4.23			
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (MV)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
0908	.09	21.46	19.2	8.6	323	5.87	158	5.1	CIR	None	
0913	"	21.51	20.6	0.68	488	5.32	94.2	2.2	CIR	None	
0921	"	21.54	20.7	0.53	410	5.31	72.4	1.5	CIR	None	
0926	"	"	20.6	0.50	409	5.30	72.8	1.3	CIR	None	
0931	"	"	20.8	0.48	411	5.30	82.9	2.1	CIR	None	
0935	"	"	20.7	0.47	411	5.30	84.6	3.0	CIR	None	
0940	"	"	20.8	0.46	411	5.30	84.1	3.8	CIR	None	

SAMPLING DATA

SAMPLE DATE: 4-11-23	SAMPLE COLLECTION TIME: 0940
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: 6.6/.09 = 73 min	

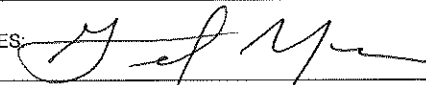
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 15	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 04/12/2023	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 33.18				STATIC WATER LEVEL DEPTH (feet): 9.72				
PURGING INITIATED AT: 07:17			PURGING ENDED AT: 8:11			TOTAL VOLUME PURGED (gallons): 7.56				
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
740	0.14	9.84	18.2	1.57	88.1	5.21	218	9.8	clear	none
745	0.14	"	18.2	1.59	87.1	5.20	218	8.4	clear	none
750	"	"	18.2	1.67	86.2	5.17	219	6.9	clear	none
755	"	"	18.2	1.70	85.7	5.17	219	3.5	CR	none
810	"	"	18.2	1.87	84.0	5.14	221	2.5	CR	None

SAMPLING DATA

SAMPLE DATE: 4-12-23	SAMPLE COLLECTION TIME: 0800
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: 3.8 Picked pump up 3-4 ft * lots of orange algae / ingw dumped cell @ 730	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 16	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 04/12/2023

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 42.23	STATIC WATER LEVEL DEPTH (feet): 12.98							
PURGING INITIATED AT: 08:19		PURGING ENDED AT: 0908		TOTAL VOLUME PURGED (gallons): 6.5						
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0819	.13	13.22	19.7	1.93	419	5.88	196.7	124	Murky	none
0834			20.2	0.44	422	5.84	131.6	27	clearish	none
0843			20.2	0.43	416	5.81	113.6	9.8	clear	none
0848			20.2	0.42	419	5.80	107.4	7.3	clear	none
0854			20.2	0.41	417	5.8	102.2	3.7	clear	None
0900			20.3	0.41	418	5.7	99.1	3.2	clear	None

SAMPLING DATA

SAMPLE DATE: 4-12-23	SAMPLE COLLECTION TIME: 0900
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: 4.7 / .13 = 36 dumped cell @ 0825	

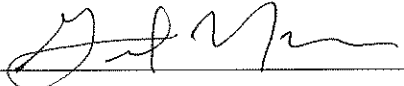
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 17	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 04/12/2023	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 41.70	STATIC WATER LEVEL DEPTH (feet): 14.76							
PURGING INITIATED AT: 09:19		PURGING ENDED AT: 10:25								
		TOTAL VOLUME PURGED (gallons): 7.72								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0920	0.117	14.76	20.2	1.3	756	5.96	43.4	33	Murky OD	None
0938			20.8	0.44	797	6.00	17.1	28	clearish	none
0952			20.8	0.41	791	6.00	16.5	11.4	clearish	none
0955			20.8	0.41	791	6.00	16.1	8.5	clear	none
1008			20.9	0.40	789	6.00	13.8	6.5	clear	none
1011			21.0	0.40	790	6.01	13.2	4.9	clear	none
1021			21.1	0.39	788	6.00	13.0	3.7	clear	none

SAMPLING DATA

SAMPLE DATE: 4-11-23	SAMPLE COLLECTION TIME: 1015
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: * picked up pump 3 ft * dumped cell @ 0940 ; visible silt in YSI	

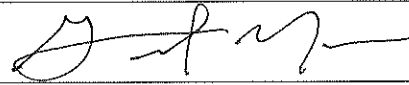
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 18	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 04/12/2023

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 53.03	STATIC WATER LEVEL DEPTH (feet): 13.48							
PURGING INITIATED AT: 15:51		PURGING ENDED AT: 1628		TOTAL VOLUME PURGED (gallons): 4.44						
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1553	0.12	13.48	19.9	1.20	357	5.98	-54.9	12.9	clearish	none
1558	"	"	19.6	0.48	389	6.03	-76.4	33	murky	none
1600	"	"	19.6	0.46	388	6.03	-77.4	25	murky	none
1605	"	"	19.6	0.43	387	6.03	-79.3	11.6	clearish	none
1608	"	"	19.6	0.42	385	6.04	-80.8	6.4	clear	none
1615	"	"	19.6	0.41	385	6.04	-81.2	5.1	clear	none
1620	"	"	19.6	0.40	383	6.04	-81.9	3.9	CR	none

SAMPLING DATA

SAMPLE DATE: 4-12-23	SAMPLE COLLECTION TIME: 1620
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: * bubbles in YSI	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 19	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-13-23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 53.13	STATIC WATER LEVEL DEPTH (feet): 27.92							
PURGING INITIATED AT: 0801		PURGING ENDED AT: 0840								
		TOTAL VOLUME PURGED (gallons): 5.07								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0803	0.13	18	18.4	7.3	292	6.15	-8.6	1.03	Clear	none
0807	"	27.92	19.7	0.70	188	5.40	111.4	3.2	Clear	none
0812	"	"	19.7	0.56	192	5.39	126.3	3.4	Clear	none
0818	"	"	19.8	0.49	192	5.35	146.0	1.8	Clear	none
0825	"	"	19.8	0.47	193	5.34	153.4	0.9	CR	None
0830	"	"	19.8	0.46	193	5.33	161.2	0.9	CR	None

SAMPLING DATA

SAMPLE DATE: 4-13-23	SAMPLE COLLECTION TIME: 0830
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS:	

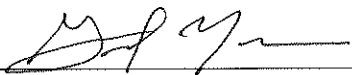
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 20	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4.11.23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 33.41	STATIC WATER LEVEL DEPTH (feet): 5.94							
PURGING INITIATED AT: 1400		PURGING ENDED AT: 1438								
		TOTAL VOLUME PURGED (gallons): 5.93								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1407	0.156	5.94	19.8	0.48	430	6.02	-100	41.1	Murky	none
1414	"	"	19.4	0.43	423	6.04	-106	8.7	Clear	none
1420	"	"	19.4	0.41	421	6.05	-107	4.6	CR	none
1425	"	"	19.4	0.42	420	6.05	-108	3.8	CR	none
1430	"	"	19.4	0.41	421	6.05	-108	3.9	CR	none
1435	"	"	19.6	0.39	418	6.06	-110	4.2	CR	none

SAMPLING DATA

SAMPLE DATE: 4-11-23	SAMPLE COLLECTION TIME: 1430
SAMPLED BY (PRINT): Grant Marcus	SAMPLER(S) SIGNATURES: 
REMARKS: *clumped cell @ 1409 x lots of bubbles on probe	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 21	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-11-23	

PURGING DATA

WELL DIAMETER 2 (Inches):	TUBING DIAMETER 1/4 (Inches):	WELL DEPTH (feet): 36.45	STATIC WATER LEVEL DEPTH (feet): 9.22							
PURGING INITIATED AT: 14:53		PURGING ENDED AT: 1640								
		TOTAL VOLUME PURGED (gallons): 10.81								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1454	.101	9.22	19.5	1.69	451	6.17	-50.7	14	Clearish	none
1506	"	"	19.3	0.54	450	6.24	-75.7	99	murky	none
1533	"	11.59	19.5	0.44	456	6.26	-86.2	34	murky	none
1540	"	11.59	19.5	0.46	456	6.26	-87.1	25.9	Murky	none
1546	"	11.59	19.4	0.44	451	6.24	-83.8	19	clearish	none
1555	"	11.59	19.5	0.41	454	6.24	-86.0	15	clear	none
1607	"	11.59	19.5	0.41	455	6.25	-88.1	10.9	clear	none
1615	"	11.59	19.5	0.43	454	6.24	-87.7	6.5	UR	none
1620	"	11.59	19.5	0.40	455	6.24	-88.5	5.2	UR	none
1625	"	11.59	19.5	0.40	454	6.24	-88.3	4.8	UR	

SAMPLING DATA

SAMPLE DATE: 4-11-23	SAMPLE COLLECTION TIME: 1625
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS:	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 22	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-23-12-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 33.55	STATIC WATER LEVEL DEPTH (feet): 6.14							
PURGING INITIATED AT: 1335		PURGING ENDED AT: 1405								
		TOTAL VOLUME PURGED (gallons): 4.2								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1337	0.14	6.14	21.2	1.49	562	6.15	-48.1	7.8	clear	none
1348	"	"	21.3	0.44	329	6.19	-85.7	8.0	clear	none
1354	"	"	21.3	0.40	573	6.19	-87.6	5.08	clear	none
1358	"	"	21.4	0.39	573	6.20	-88.5	2.91	clear	none
1400	"	"	21.3	0.38	573	6.20	-90.0	2.19	clear	none

SAMPLING DATA

SAMPLE DATE: 4-12-23	SAMPLE COLLECTION TIME: 1400
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS:	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 23	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-18-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 43.85	STATIC WATER LEVEL DEPTH (feet): 17.66
PURGING INITIATED AT: 1320		PURGING ENDED AT: 1423	
		TOTAL VOLUME PURGED (gallons): 8.19	

TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1325	0.13	17.66	24.1	0.66	1983	6.43	-36.2	75	Muddy	None
1343	"	"	23.9	0.42	2054	6.55	-76.1	47.11	Murky	None
1351	"	"	24.0	0.40	2060	6.56	-81.4	19.8	Clearish	None
1401	"	"	23.9	0.39	2060	6.60	-88.5	9.2	Clear	None
1413	"	"	24.0	0.38	2071	6.61	-93.1	4.6	CR	None

SAMPLING DATA

SAMPLE DATE: 4-18-23	SAMPLE COLLECTION TIME: 1415
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: duplicate 4-18-23 00:00	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 24	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 0000 4-13-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 53.08				STATIC WATER LEVEL DEPTH (feet): 18.46					
PURGING INITIATED AT: 0650				PURGING ENDED AT: 0752				TOTAL VOLUME PURGED (gallons): 8.06			
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (MV)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
659	0.13	18.46	20.6	0.74	337.8	5.96	158.7	33	Muddy	None	
715	"	"	20.0	0.53	383.4	6.08	23.2	20	Murky	None	
723	"	"	20.2	0.50	443.6	6.19	-29.3	9.8	Clear	None	
0728	"	"	20.3	0.49	503.1	6.21	-45.8	5.8	Clear	None	
0732	"	"	20.2	0.48	548	6.20	-51.1	4.7	Clear	None	
0735	"	"	20.2	0.48	576	6.21	-55.7	5.1	Clear	None	
0740	"	"	20.2	0.46	581	6.21	-59.1	4.2	Clear	None	
0745	"	"	20.1	0.45	599	6.23	-50.8	3.9	Clear	None	
0750	"	"	20.4	0.43	678	6.26	-58.6	2.2	Clear	None	

SAMPLING DATA

SAMPLE DATE: 4-13-23	SAMPLE COLLECTION TIME: 0740
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS:	

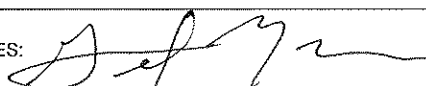
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 25	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-13-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 51.12	STATIC WATER LEVEL DEPTH (feet): 17.68							
PURGING INITIATED AT: 0855		PURGING ENDED AT: 1039								
		TOTAL VOLUME PURGED (gallons): 13.52								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0900	.13	17.81	21.7	0.61	1239	5.89	-16.0	20.7	Murky	None
0905	"	"	21.9	0.48	1261	5.90	-33.7	11.7	Clear	None
0925	"	"	21.9	0.63	1296	5.91	-44.0	22.1	Clear	None
0932	"	"	22.0	0.42	1302	5.91	-48.5	18.8	Clear	None
0948	"	"	22.1	0.40	1306	5.91	-52.4	11.3	CR	None
0956	"	"	22.1	0.40	1303	5.92	-53.9	9.9	CR	None
1001	"	"	22.1	0.40	1304	5.91	-54.6	7.6	CR	None
1015	"	"	22.4	0.39	1311	5.91	-56.5	5.5	CR	None
1025	"	"	22.2	0.39	1310	5.91	-57.1	4.2	CR	None

SAMPLING DATA

SAMPLE DATE: 4-13-23	SAMPLE COLLECTION TIME: 1030
SAMPLED BY (PRINT): Grant Marum	SAMPLER(S) SIGNATURES: 
REMARKS: * dumped cell @ 0923	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 26	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 4-18-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 42.35	STATIC WATER LEVEL DEPTH (feet): 12.58
PURGING INITIATED AT: 1142		PURGING ENDED AT: 1315	
		TOTAL VOLUME PURGED (gallons): 12.09	

TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1250	.13	12.58	21.0	8.4	401.7	6.62	199.5	4.6	clear	none
1255	"	"	21.0	8.39	402.4	6.61	200.3	4.1	UR	none
1300	"	"	21.0	8.37	403.1	6.60	201.1	4.4	UR	none
1305	"	"	21.0	8.38	404.7	6.50	204.7	4.2	UR	none

SAMPLING DATA

SAMPLE DATE: 4-18-23	SAMPLE COLLECTION TIME: 1300 1305
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: dumped cell @ 12:50; went to grab lunch @ 1145 while turbidity settles out	

Groundwater Level Measurements
Charles R. Lowman Power Plant

Well/ Piezometer Number.	Casing Elevation ft-amsl	Total Depth ft - btc	Bottom Elevation ft-amsl	Water Level
				Date: 4-18-23 ft - btc
MW-1	29.17	24.30	4.87	6.20
MW-2	38.18	36.47	1.71	17.37
MW-3	28.55	24.58	3.97	6.69
MW-4	36.40	28.32	8.08	15.85
MW-5	37.41	29.35	8.06	✓ ✓ 16.29
MW-5A	37.23	39.02	-1.79	16.11
PZ-6	49.30	44.30	5.00	27.20
MW-6	30.14	29.26	0.88	0.20 9.45
MW-7	34.20	32.65	1.55	12.40
MW-8	32.91	37.68	-4.77	11.09
MW-9	32.63	29.01	3.62	5.91
MW-10	34.14	41.46	-7.32	0.20 14.61
PZ-11R	44.75	47.31	-2.56	— Destroyed
MW-11	45.29	43.10	2.19	22.81
MW-12	43.31	38.42	4.89	✓ ✓ 21.21
MW-12A	43.39	46.31	-2.92	✓ 21.46
MW-13	42.26	29.25	13.01	12.43
MW-13A	41.61	62.90	-21.29	20.82
MW-14	38.56	29.48	9.08	17.43
MW-14A	38.50	38.98	-0.48	17.14

TW-1

5.75

MW-14B	38.64	64.00	-25.36	17.58
MW-15	31.51	33.18	-1.67	10.55
MW-16	34.70	42.23	-7.53	13.50
MW-17	36.23	41.70	-5.47	15.01
MW-18	32.64	53.03	-20.39	14.31
MW-19	50.76	53.13	-2.37	29.81
MW-20	30.01	33.41	-3.40	11.28
MW-21	30.00	36.45	-6.45	10.50 9.50
MW-22	30.24	33.55	-3.31	10.48
MW-23	38.86	43.85	-4.99	✓ 17.66
MW-24	40.84	53.08	-12.24	✓ 18.46
MW-25	39.65	51.12	-11.47	18.47
MW-26	33.94	42.35	-8.41	✓ 12.58
River Stage				17.80

QA/QC Samples

Date

Time

Field Blank 4-18-23 1910

Rinsate Blank 4-18-23 1900

Duplicate (MW-23) 4-18-23 00:00

Well Volume Calculation: (Total Depth – Static Water Level) x 0.163 (gallons per foot in 2" well) = 1 Well Volume
 Divide: 1 Well Volume by purge rate to get amount of time needed to purge 1 well volume

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 1	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10-23-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 24.30	STATIC WATER LEVEL DEPTH (feet): 11.22							
PURGING INITIATED AT: 1550		PURGING ENDED AT: 1644								
		TOTAL VOLUME PURGED (gallons): 4.86								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1557	.09	12.13	22.8	0.44	211.0	5.75	56.6	0.0 3.4	clearish	None
1600	"		22.7	0.44	209.2	5.78	49.2	1.5	Clear	None
1610	"		22.7	0.42	215.3	5.78	36.3	0.4	CR	None
1620	"		22.7	0.41	214.8	5.82	34.9	0.3	CR	None
1625	"	"	22.7	0.41	209.8	5.84	34.8	0.5	CR	None
1630	"	"	22.3	0.41	195.3	5.84	43.7	0.7	CR	None

SAMPLING DATA

SAMPLE DATE: 10-23-23	SAMPLE COLLECTION TIME: 1630
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: lots of gas bubbles in flow cell	

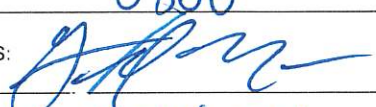
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 2R	SAMPLE METHOD: Dedicated Bladder Pump
	DATE: 10-25-23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 31.60	STATIC WATER LEVEL DEPTH (feet): 17.25							
PURGING INITIATED AT: 0715		PURGING ENDED AT: 0839								
		TOTAL VOLUME PURGED (gallons): 7.56								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0722	.09	18.09	19.9	0.82	259.6	5.36	421.7	400	orange	none
0735			19.8	0.62	244.4	5.36	258.3	63	murky	none
0740			19.8	0.61	237.7	5.36	217.4	26	clearish	none
0745			19.9	0.60	235.3	5.36	190.0	12	clear	none
0750			19.9	0.59	232.1	5.36	172.3	8.11	clear	none
0755			19.9	0.57	229.3	5.35	161.4	5.89	clear	none
0800			19.9	0.57	229.3	5.35	158.8	4.82	clear	none
0805			19.9	0.60	228.5	5.35	124.6	4.12	clear	none

SAMPLING DATA

SAMPLE DATE: 10-25-23	SAMPLE COLLECTION TIME: 0800
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: very muddy @ 0715 ; hooked up YSI after it cleared some	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 3	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10-23-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 24.58	STATIC WATER LEVEL DEPTH (feet): 16.00							
PURGING INITIATED AT: 1205		PURGING ENDED AT: 1356								
		TOTAL VOLUME PURGED (gallons): 7.77								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1215	.07	16.12	21.1	0.99	58.4	4.89	112.6	0.1	Clear	None
1220	↓	↓	21.5	0.99	56.0	4.91	91.8	-0.8	Clear	None
1225	↓	↓	21.5	1.08	55.6	4.91	67.3	-0.9	Clear	None
1230	↓	↓	21.5	1.06	55.5	4.93	45.5	-1.0	Clear	None
1240	↓	↓	21.6	0.98	54.9	4.94	19.8	-1.0	Clear	None

SAMPLING DATA

SAMPLE DATE: 10-23-23	SAMPLE COLLECTION TIME: 1240
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS:	


GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 4R	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 10.25.23

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 28.32				STATIC WATER LEVEL DEPTH (feet): 14.56				
PURGING INITIATED AT: 1158		PURGING ENDED AT: 1335				TOTAL VOLUME PURGED (gallons): 6.79				
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (MV)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1245	.07	14.92	23.9	0.94	832	6.36	-29.9	21	clearish	none
1250	"	"	23.6	0.99	821	6.35	-30.5	9.83	clear	none
1255	"	"	23.6	1.07	818	6.35	-30.0	6.72	clear	none
1300	✓	"	23.6	1.10	818	6.35	-29.5	5.34	clear	none
1305	"	"	24.0	1.26	815	6.35	-26.4	4.71	clear	none
1310	"	"	24.1	1.29	816	6.35	-25.2	4.09	clear	none

SAMPLING DATA

SAMPLE DATE: 10.25.23	SAMPLE COLLECTION TIME: 1310
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: Started off very muddy/silty	


GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 5	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 10.24.23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 29.35	STATIC WATER LEVEL DEPTH (feet): wl @ 30.50 Dry, BTP							
PURGING INITIATED AT:		PURGING ENDED AT:	TOTAL VOLUME PURGED (gallons):							
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

SAMPLING DATA

SAMPLE DATE: NS	SAMPLE COLLECTION TIME: NS
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: no sample wl too low	

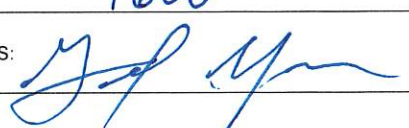
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 5A	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 10-24-23

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 39.02	STATIC WATER LEVEL DEPTH (feet): 30.50							
PURGING INITIATED AT: 1535		PURGING ENDED AT: 1615		TOTAL VOLUME PURGED (gallons): 3.6						
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1540	.09	31.23	22.3	0.64	772	6.40	97.7	35	Murky	None
1550			22.4	0.54	773	6.39	79.3	12	Clearish	None
1555			22.3	0.50	772	6.37	70.8	7.5	Clear	None
1600			22.3	0.46	771	6.35	68.4	4.27	CR	None
1610			22.4	0.44	771	6.36	55.0	4.0	CR	None

SAMPLING DATA

SAMPLE DATE: 10-24-23	SAMPLE COLLECTION TIME: 1600
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS:	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 6	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10-17-23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 29.26	STATIC WATER LEVEL DEPTH (feet): 21.31							
PURGING INITIATED AT: 0840		PURGING ENDED AT: 1044								
			TOTAL VOLUME PURGED (gallons): 6.20							
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0845	0.05 0.02	22.11	20.1	0.72	724	6.08	-61.8	21.8	clearish	none
0850	↓	22.15	19.6	0.62	744	6.13	-74.3	22	clearish	none
0855		"	19.1	0.54	757	6.23	-86.5	12	CLR	None
0915		"	18.5	0.59	722	6.20	-78.6	9.1	CLR	None
930		"	18.9	0.51	714	6.21	-83.2	7.4	CLR	None
0950		"	19.1	0.49	710	6.21	-83.3	4.7	CLR	None
0955		"	19.1	0.49	710	6.21	-81.7	4.4	CLR	None

SAMPLING DATA

SAMPLE DATE: 10.17.23	SAMPLE COLLECTION TIME: 0950
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: dumped cell @ 0900 due to silt	

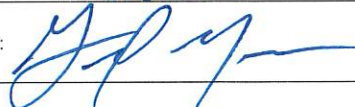
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 7	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 10.18.23

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 32.65	STATIC WATER LEVEL DEPTH (feet): 26.07							
PURGING INITIATED AT: 0753		PURGING ENDED AT: 0841								
		TOTAL VOLUME PURGED (gallons): 3.36								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0758	0.07	26.12	19.5	2.46	432.4	6.06	273	17	clearish	none
0805	"	"	19.9	1.23	424.1	5.97	262	4.9	clear	none
0810	"	"	20.0	0.81	424.8	5.96	244	2.0	CR	none
0815	"	"	20.0	0.73	424.1	5.96	254	1.2	CR	none
0820	"	"	20.1	0.70	424.4	5.96	205.5	1.9	CR	none

SAMPLING DATA

SAMPLE DATE: 10-18-23	SAMPLE COLLECTION TIME: 0820
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: 1.07 / .07 = 15	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 8	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 10.23.23

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 37.68	STATIC WATER LEVEL DEPTH (feet): 29.70							
PURGING INITIATED AT: 1410		PURGING ENDED AT: 1515		TOTAL VOLUME PURGED (gallons): 6.57						
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1412	0.101	30.11	22.2	1.87	461.5	6.95	-69.7	2.3	Clear	None
1430	↓	31.21	24.0	0.42	470.6 470.6	6.94	-136.9	1.2	CIR	None
1435		33.44	24.1	0.40	472.1	6.96	-137.7	1.0	CIR	None
1440		34.83	23.9	0.39	472.3	6.95	-136.7	0.8	CIR	None
1455		BTP	24.0	0.37	475.8	6.95	-135.3	0.4	CIR	None
1505		BTP	21.9	0.38	482.4	6.94	-135.0	0.1	CIR	None

SAMPLING DATA

SAMPLE DATE: 10.23.23	SAMPLE COLLECTION TIME: 1440
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: Lowered pump 2' @ 1500; WL BTP	


GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 9	SAMPLE METHOD: Dedicated Bladder Pump
	DATE: 10-19-23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 29.01	STATIC WATER LEVEL DEPTH (feet): 17.05							
PURGING INITIATED AT: 0730		PURGING ENDED AT: 0825								
		TOTAL VOLUME PURGED (gallons): 4.95								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0735	.09	12.31	21.3	0.62	1597	6.21	-27.7	2.05	clear	none
0740	↓	↓	21.4	0.55	1590	6.21	-35.7	2.08	clear	none
0745			21.5	0.63	1587	6.13	-43.2	3.90	clear	none
0750			21.4	0.71	1577	6.18	-43.4	10.2	clearish	none
0755			21.5	1.40	1618	6.11	-36.1	8.4	CR	none
810			21.5	2.25	1659	6.13	-50.2	3.1	CR	none
0815			21.5	2.26	1666	6.13	-51.5	2.9	CR	none
0825			21.5	2.31	1642	6.15	-41.1	3.8	CR	none

SAMPLING DATA

SAMPLE DATE: 10-19-23	SAMPLE COLLECTION TIME: 0815
SAMPLED BY (PRINT): Grant Marqu	SAMPLER(S) SIGNATURES: 
REMARKS: 2.7/.09 = 30 dumped cell @ 0750. very "gassy" - lots of bubbles in flow cell	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 10	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10-18-23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 41.46	STATIC WATER LEVEL DEPTH (feet): 31.85
PURGING INITIATED AT: 0855		PURGING ENDED AT: 1028	
			TOTAL VOLUME PURGED (gallons): 6.51

TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0905	.07	31.90	21.8	1.5	656	4.76	253.9	65	orange-murky	None
0910	"	"	22.2	1.74	660	4.75	254.8	26.5	clearish	None
0915	"	"	22.5	1.99	665	4.72	256.1	10.6	clear	None
0920	"	"	22.6	2.11	668	4.70	259.3	5.1	CR	None
0925	"	"	22.6	2.15	669	4.70	259.7	4.3	CR	None
0930	"	"	22.6	2.17	669	4.70	260.0	3.4	CR	None

SAMPLING DATA

SAMPLE DATE: 10-18-23	SAMPLE COLLECTION TIME: 0930
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: * pump right at water level	

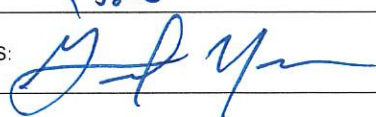
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 11	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10-18-23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 43.10	STATIC WATER LEVEL DEPTH (feet): 34.60							
PURGING INITIATED AT: 1040		PURGING ENDED AT: 1414								
		TOTAL VOLUME PURGED (gallons): 8.46								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1040	.09	34.82	24.8	3.0	906	6.30	117.7	70	Murky	none
1055			25.1	1.2	900	6.72	-67.3	96	Murky	none
1111			25.1	0.56	911	6.76	-99.3	49	"	"
1145			24.9	0.41	908	6.77	-108.1	25	"	"
1321			26.7	0.41	900	6.76	-102.5	2.6	Clear	none
1325			26.6	0.41	901	6.76	-102.1	2.7	Clear	none
1340	↓	↓	26.9	0.41	899	6.74	-101.0	1.5	Clear	None

SAMPLING DATA

SAMPLE DATE: 10-18-23	SAMPLE COLLECTION TIME: 1320
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: Dumped cell @ 1105 due to silt. v. dark orange water during first few minutes of purging. picked up pump 4' - let purge while we went to lunch	

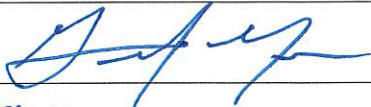
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 12	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 10-17-23

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 38.42	STATIC WATER LEVEL DEPTH (feet): BTP							
PURGING INITIATED AT: 805		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):						
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

SAMPLING DATA

SAMPLE DATE: NS	SAMPLE COLLECTION TIME: NS
SAMPLED BY (PRINT): Grant Morcum	SAMPLER(S) SIGNATURES: 
REMARKS: Water lvl too low - not enough head pressure adjacent well @ 37.62 btc	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 12A	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10-17-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 46.31				STATIC WATER LEVEL DEPTH (feet): 37.62				
PURGING INITIATED AT: 0703		PURGING ENDED AT: 0803				TOTAL VOLUME PURGED (gallons): 6.06				
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0705	.101	37.81	17.3	5.5	790	5.39	317.2	0.4	Clear	None
0710	↓	↓	18.8	3.15	885	5.61	357.2	1.6	CLR	None
0715			18.9	2.7	894	5.56	363.4	1.5	CLR	NA
0720			18.8	2.53	892	5.55	361.3	0.9	CLR	NA
0725			18.8	2.48	891	5.54	357.8	0.7	CLR	N/A
0730			19.2	2.35	889	5.54	342.8	0.4	CLR	w/a
0735			19.3	2.37	890	5.54	335.2	0.3	CLR	N/A
0750			19.8	2.29	889	5.54	316.3	0.2	CLR	None

SAMPLING DATA

SAMPLE DATE: 10-17-23	SAMPLE COLLECTION TIME: 0740
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS:	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 13	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10-17-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 29.25	STATIC WATER LEVEL DEPTH (feet): Dry 10-17-23							
PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):						
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

SAMPLING DATA

SAMPLE DATE: NS	SAMPLE COLLECTION TIME: NS
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: WL too low - ran dry after ± 2 min	


GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 13A	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10-17-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 62.90	STATIC WATER LEVEL DEPTH (feet): 29.84							
PURGING INITIATED AT: 1515		PURGING ENDED AT: 1615								
		TOTAL VOLUME PURGED (gallons): 6.06								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (MV)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1516	.101	29.95	24.6	6.17	526	6.73	21.3	4.1	Clear	none
1525	"	"	23.0	0.73	476	5.70	26.6	5.5	CR	None
1530	"	"	23.0	0.58	500	5.63	33.8	4.9	CR	None
1535	"	"	22.8	0.53	531	5.50	54.5	4.9	CR	None
1550	"	"	22.9	0.48	583	5.36	77.1	3.8	CR	None
1555	"	"	22.9	0.50	587	5.34	79.4	2.0	CR	None
1600	"	"	22.9	0.47	590	5.33	81.2	1.1	CR	None

SAMPLING DATA

SAMPLE DATE: 10-17-23	SAMPLE COLLECTION TIME: 1555
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: 5.38 / .101 = 53 min/w.v.	

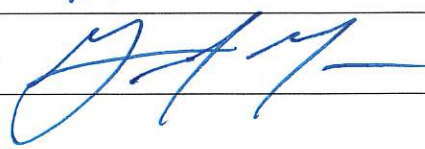
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 14	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 10/24/23

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 29.48	STATIC WATER LEVEL DEPTH (feet): BTP								
PURGING INITIATED AT:				PURGING ENDED AT:				TOTAL VOLUME PURGED (gallons):			
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	

SAMPLING DATA

SAMPLE DATE: NS	SAMPLE COLLECTION TIME: NS
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: wl too low	


GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 14A	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 10-24-23

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 38.98	STATIC WATER LEVEL DEPTH (feet): 31.50							
PURGING INITIATED AT: 1405		PURGING ENDED AT: 1525		TOTAL VOLUME PURGED (gallons): 7.2						
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1417	.09	32.11	23.3	1.41	627	6.07	63.7	18	clearish	None
1420			23.3	1.15	629	6.07	60.2	12.0	clearish	None
1430			23.4	1.06	629	6.07	57.7	8.1	clear	None
1440			23.5	.87	631	6.07	51.7	4.7	clear	None

SAMPLING DATA

SAMPLE DATE: 10-24-23	SAMPLE COLLECTION TIME: 1440
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS:	

GROUNDWATER SAMPLING LOG

13.70
Tmw-1 WL
10-18-23

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW-14B	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10-18-23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 29.50	STATIC WATER LEVEL DEPTH (feet): 31.64
PURGING INITIATED AT: 1425		PURGING ENDED AT: 1529	
TOTAL VOLUME PURGED (gallons):			

TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1440	101	31.73	22.8	0.48	1178	5.98	-67.7	14.2	Clear	None
1445	"	"	22.7	0.45	1211	6.00	-73.5	12.6	Clear	None
1450	"	"	22.8	0.44	1217	6.00	-75.0	12.1	Clear	None
1455	"	"	22.8	0.44	1219	6.00	-69.8	2.7	Clear	None
1500	"	"	22.6	0.45	1208	6.0	-72.1	2.7	Clear	None
1520	"	"	22.7	0.47	1206	6.0	-74.2	2.4	Clear	None
1525	"	"	22.5	0.42	1191	6.0	-73.8	2.6	Clear	None

SAMPLING DATA

SAMPLE DATE: 10-18-23	SAMPLE COLLECTION TIME: 1520
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: dumped cell @ 1450 due to silt.	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 15	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 10.17.23

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 33.18	STATIC WATER LEVEL DEPTH (feet): 24.88							
PURGING INITIATED AT: 13:15		PURGING ENDED AT: 1355 1505	TOTAL VOLUME PURGED (gallons): 3.6							
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1325	.09	25.01	20.1	0.75	103.3	5.36	193.5	9.5	Clear	None
1335	↓	↓	20.0	0.71	102.3	5.35	199.2	6.0	Clear	None
1340	↓	↓	19.9	0.68	102.3	5.35	199.4	4.62	Clear	None
1345	↓	↓	19.9	0.67	102.1	5.34	198.7	4.70	Clear	None

SAMPLING DATA

SAMPLE DATE: 10-17-23	SAMPLE COLLECTION TIME: 1345
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: 1.35 / .07 = 19 min/well vol	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 16	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 10-17-23

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 42.23	STATIC WATER LEVEL DEPTH (feet): 27.70							
PURGING INITIATED AT: 1359		PURGING ENDED AT: 1510								
			TOTAL VOLUME PURGED (gallons): 4.97							
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1420	.07	27.74	21.6	0.50	755	5.77	34.6	63	Orange-Murky	None
1430	"	"	21.5	0.45	746	5.77	34.7	37	Clearish	None
1435	"	"	21.6	0.44	739	5.77	34.8	22	Clearish	None
1440	"	"	21.5	0.48	728	5.76	39.2	10	Clear	None
1450	"	"	21.5	0.43	720	5.76	38.9	4.92	Clear	None
1455	"	"	21.5	0.42	718	5.76	38.5	4.86	Clear	None

SAMPLING DATA

SAMPLE DATE: 10-17-23	SAMPLE COLLECTION TIME: 1455
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: turbidity very high @ start. raised pump 4'. 2.3 / .07 = 33 min dumped cell @ 1415 + 1435	

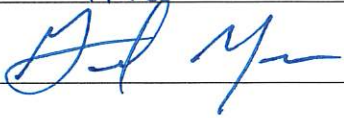
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 17	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10-26-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 41.70	STATIC WATER LEVEL DEPTH (feet): 29.48							
PURGING INITIATED AT: 1015		PURGING ENDED AT: 1130								
		TOTAL VOLUME PURGED (gallons): 7.58								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1025	.101	30.10	22.8	0.68	734	6.23	62.9	42.7	murky	none
1030	"	"	22.8	0.55	738	6.23	58.0	26.1	clearish	none
1040	"	"	22.9	0.61	739	6.24	54.9	17.6	clearish	none
1045	"	"	22.8	0.51	738	6.23	52.5	14.8	clear	none
1100	"	"	23.0	0.48	740	6.24	47.9	6.19	clear	none
1105	"	"	23.0	0.47	739	6.23	46.8	5.01	clear	none
1110	"	"	23.0	0.45	739	6.23	45.3	4.72	clear	none
1115	"	"	23.1	0.44	738	6.23	45.1	4.20	clear	none

SAMPLING DATA

SAMPLE DATE: 10-25-23	SAMPLE COLLECTION TIME: 11:10
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: dumped cell c 1035	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 18	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 10-19-23

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	WELL DEPTH (feet):	53.03						STATIC WATER LEVEL DEPTH (feet):	28.45	
PURGING INITIATED AT:	0840			PURGING ENDED AT:	0939			TOTAL VOLUME PURGED (gallons):	5.96				
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)			
0841	.101	29.01	20.1	2.01	429	6.19	-23.0	19.3	Murky	none			
0845	↓	↓	19.4	0.58	362.7	5.99	-16.3	17.1	clearish	none			
0855			19.6	1.25	336.0	5.90	-22.2	6.01	Clear	none			
0900			19.6	0.45	335.1	5.90	-22.5	5.40	Clear	none			
0905			19.7	0.45	336.0	5.90	-23.8	4.80	Clear	none			
0915			19.7	0.44	336.6	5.90	-24.2	4.53	Clear	none			
0920			19.8	0.44	337.1	5.90	-25.9	4.03	Clear	none			

SAMPLING DATA

SAMPLE DATE: 10-19-23	SAMPLE COLLECTION TIME: 0920
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: damped cell @ 0855	

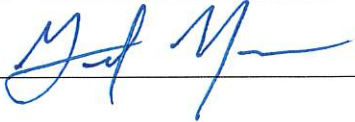
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 19	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10.17.23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 53.13	STATIC WATER LEVEL DEPTH (feet): 44.79							
PURGING INITIATED AT: 11:03		PURGING ENDED AT: 1140								
		TOTAL VOLUME PURGED (gallons): 2.59								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
11:10	.07	44.91	20.5	0.85	316.9	4.97	205.2	5.7	Clear	None
11:15	↓	↓	20.5	0.76	318.1	4.98	214.1	4.4	CLR	None
11:20			20.4	0.71	319.0	4.98	220.8	3.1	CLR	None
11:25			20.6	0.67	319.8	4.98	226.9	2.3	CLR	None
11:30			20.4	0.65	319.9	4.99	231.5	2.1	CLR	None
11:35			20.4	0.63	320.0	4.99	236.8	2.0	CLR	None

SAMPLING DATA

SAMPLE DATE: 10.17.23	SAMPLE COLLECTION TIME: 1130
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: 1.35 / .07 = 19.4 min / well vol.	

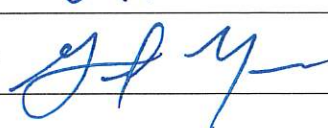
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 20	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 10-24-23

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 33.41	STATIC WATER LEVEL DEPTH (feet): 27.46							
PURGING INITIATED AT: 0815		PURGING ENDED AT: 0925		TOTAL VOLUME PURGED (gallons): 6.30						
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0822	.09	28.12	18.9	0.56	356.3	6.83	-102.2	179	Murky	None
0825	.09		18.9	0.50	355.6	6.84	-112.3	80	"	"
0840			19.0	0.44	355.0	6.54	-124.2	18	clearish	None
0910			19.2	0.42	357.4	6.55	-127.9	5.3	clear	None
0915			19.3	0.41	358.0	6.54	-129.3	4.5	clear	None
0920			19.2	0.41	357.1	6.54	-129.0	3.9	clear	None

SAMPLING DATA

SAMPLE DATE: 10-24-23	SAMPLE COLLECTION TIME: 0915
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS:	

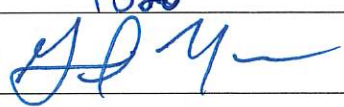
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 21	SAMPLE METHOD: Dedicated Bladder Pump
	DATE: 10-24-23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 36.45	STATIC WATER LEVEL DEPTH (feet): 26.72								
PURGING INITIATED AT: 1134		PURGING ENDED AT: 1325									
		TOTAL VOLUME PURGED (gallons): 9.99									
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1135	.09	27.89	21.0	2.5	421.5	6.47	-16.9	26	murky	none	
1140	↓	BTP	20.1	1.3	413.8	6.48	-81.3	51	"	"	
1245		BTP	20.8	1.3	437.4	6.93	-72.7	36	"	"	
1250		BTP	20.8	0.99	437.8	6.85	-86.6	26	"	"	
1255		BTP	20.5	0.97	437.1	6.86	-88.7	20	"	"	
1300		BTP	20.6	0.98	436.7	6.86	-86.9	12	clearish	none	
1310		BTP	20.7	0.99	438.0	6.85	-87.6	5.9	clear	"	
1315		BTP	20.7	0.97	438.9	6.85	-87.0	4.8	clear	"	
1320		BTP	20.8	0.97	437.8	6.84	-86.8	4.6	clear	none	

SAMPLING DATA

SAMPLE DATE: 10-24-23	SAMPLE COLLECTION TIME: 1325
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: dumped cell @ 1140 due to silt * very turbid * 1155 1230	


GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 22	SAMPLE METHOD: Dedicated Bladder Pump
	DATE: 10-24-23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 33.55	STATIC WATER LEVEL DEPTH (feet): 26.90							
PURGING INITIATED AT: 0702		PURGING ENDED AT: 0736								
		TOTAL VOLUME PURGED (gallons): 4.86								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
0705	.09	BTP	21.6 21.3	1.17	574	6.81	38.3	104	Murky	None
0710	↓	↓	21.4	0.63	575	6.80	-84.4	32	Murky	None
0725	↓	↓	21.4	0.49	573	6.53	-98.3	37	Clear	None
0730	↓	↓	21.5	0.47	572	6.53	-98.5	2.9	Cl2	None
0736	↓	↓	21.5	0.46	573	6.51	-99.7	1.7	Cl2	None

SAMPLING DATA

SAMPLE DATE: 10-24-23	SAMPLE COLLECTION TIME: 0730
SAMPLED BY (PRINT): Grant Marcus	SAMPLER(S) SIGNATURES: 
REMARKS:	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: MW - 23	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 10-25-23

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 43.85	STATIC WATER LEVEL DEPTH (feet): 32.34							
PURGING INITIATED AT: 1352		PURGING ENDED AT: 1530			TOTAL VOLUME PURGED (gallons): 8.82					
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1405	.09	32.34	24.6	0.61	1574	6.78	-30.6	145	clearish	none
1425	↑ ↓	↓ ↑	24.5	0.42	1567	6.78	-63.2	29.3	clear	none
1455			24.6	0.39	1558	6.78	-72.9	4.9	CIR	None
1500			24.6	0.39	1557	6.78	-73.8	3.0	CIR	None
1515			24.6	0.38	1555	6.77	-76.1	1.7	CIR	None

SAMPLING DATA

SAMPLE DATE: 10-25-23	SAMPLE COLLECTION TIME: 1455
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS:	

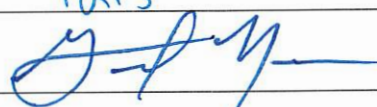
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 24	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10-26-23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 53.08	STATIC WATER LEVEL DEPTH (feet): 32.34							
PURGING INITIATED AT: 0955		PURGING ENDED AT: 1230								
		TOTAL VOLUME PURGED (gallons): 13.95								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
1045	09	34.31	23.4	0.58	962	6.53	-36.3	23.6	cloudy	none
1100	"	"	23.5	0.56	973	6.53	-56.2	19.5	clearish	none
1215	"	"	24.1	0.44	983	6.53	-73.3	4.91	clear	none
1220	"	"	24.1	0.44	981	6.53	-78.9	4.02	clear	none

SAMPLING DATA

SAMPLE DATE: 10-26-23	SAMPLE COLLECTION TIME: 1215
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: Began purging before lunch. Turbidity v. high	

GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 25	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10.26.23	

PURGING DATA

WELL DIAMETER 2 (inches):	TUBING DIAMETER 1/4 (inches):	WELL DEPTH (feet): 51.12	STATIC WATER LEVEL DEPTH (feet): 33.10							
PURGING INITIATED AT: 0707		PURGING ENDED AT: 0755								
		TOTAL VOLUME PURGED (gallons): 4.32								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
723	.09	34.29	22.1	2.0	2200	-	-1.7	24	cloudy	none
0730			22.1	0.63	2204	-	-0.0	14	clearish	none
0735			22.1	0.57	2205	-	-3.1	10	clear	none
0740			22.2	0.53	2216	-	-6.0	8.71	clear	none
0745			22.3	0.52	2222	-	-8.5	4.42	clear	none
0750			22.3	0.51	2223	6.12	-9.2	4.02	clear	none

SAMPLING DATA

SAMPLE DATE: 10.26-23	SAMPLE COLLECTION TIME: 0745
SAMPLED BY (PRINT): Grant Marcus	SAMPLER(S) SIGNATURES:
REMARKS: dumped cell @ 0720 due to silt	

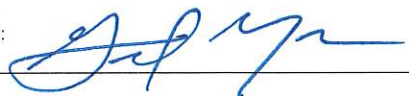
GROUNDWATER SAMPLING LOG

SITE NAME: Charles R. Lowman Generating Facility	SITE LOCATION: Leroy, Washington County, Alabama
WELL NO: MW - 26	SAMPLE METHOD: Dedicated Bladder Pump
DATE: 10.26.23	

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 42.35	STATIC WATER LEVEL DEPTH (feet): 28.25							
PURGING INITIATED AT: 0829		PURGING ENDED AT: 0915								
		TOTAL VOLUME PURGED (gallons): 4.65								
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)
838	.101	29.39	20.6	2.38	366	6.81	8.1	98	Murky	none
845			20.8	2.28	396	6.32	-0.7	40	cloudy	none
0855			20.8	2.51	405.2	6.29	-10.4	12.7	Clearish	none
0900			20.8	2.55	407.5	6.29	-12.7	8.41	clear	none
0905			20.8	2.63	410.9	6.30	-17.2	4.80	Clear	none
0910			20.8	2.67	412.3	6.30	-19.2	3.8	clear	none

SAMPLING DATA

SAMPLE DATE: 10.26.23	SAMPLE COLLECTION TIME: 0905
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS:	

Groundwater Level Measurements
Charles R. Lowman Power Plant

Well/ Piezometer Number.	Casing Elevation ft-amsl	Total Depth ft - btc	Bottom Elevation ft-amsl	Water Level
				Date: <u>10-16-23</u> ft - btc
MW-1	29.17	24.30	4.87	11.06
MW-2R	33.35	34.85	-1.50	17.81
MW-3	28.55	24.58	3.97	15.61
MW-4R	35.64	29.40	6.24	14.45
MW-5	37.41	29.35	8.06	BTP
MW-5A	37.23	39.02	-1.79	30.15
PZ-6	49.30	44.30	5.00	41.70
MW-6	30.14	29.26	0.88	21.15
MW-7	34.20	32.65	1.55	25.83
MW-8	32.91	37.68	-4.77	29.95
MW-9	32.63	29.01	3.62	12.02
MW-10	34.14	41.46	-7.32	32.15
PZ-13	34.56	35.00	0.44	26.04
MW-11	45.29	43.10	2.19	33.50
MW-12	43.31	38.42	4.89	BTP
MW-12A	43.39	46.31	-2.92	37.45
MW-13	42.26	29.25	13.01	19.06
MW-13A	41.61	62.90	-21.29	29.80
MW-14	38.56	29.48	9.08	BTP
MW-14A	38.50	38.98	-0.48	31.18

MW-14B

31.60

MW-15	31.51	33.18	-1.67	24.82
MW-16	34.70	42.23	-7.53	27.64
MW-17	36.23	41.70	-5.47	29.08
MW-18	32.64	53.03	-20.39	28.33
MW-19	50.76	53.13	-2.37	44.72
MW-20	30.01	33.41	-3.40	27.81
MW-21	30.00	36.45	-6.45	26.69
MW-22	30.24	33.55	-3.31	27.04
MW-23	38.86	43.85	-4.99	32.00
MW-24	40.84			32.90
MW-25	39.65		* latch re. place rivets	32.76
MW-26	33.94			27.91
River Stage				

QA/QC Samples

Date

Time

Field Blank 10/26/23 1200

Rinsate Blank 10/26/23 1210

Duplicate (MW.23) 10/25/23 0000

Well Volume Calculation: (Total Depth – Static Water Level) x 0.163 (gallons per foot in 2" well) = 1 Well Volume

Divide: 1 Well Volume by purge rate to get amount of time needed to purge 1 well volume

APPENDIX D
HISTORICAL GROUNDWATER ANALYTICAL DATA
SUMMARY

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-1				
INSTALLATION DATE:	10/14/13	WELL DEPTH (FT-BTOC):	24.3	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	29.17	WELL TYPE:	II			
	DIAMETER (IN):							2				
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	3/29/2016	5/18/2016	7/19/2016	9/19/2016	11/29/2016	1/31/2017	3/28/2017	5/23/2017	10/9/2017	4/17/2018
Antimony	mg/L	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	0.0014	<0.0010	-	<0.0010
Arsenic	mg/L	0.010	0.00072	<0.00046	0.0014	<0.00046	<0.00046	0.0011	0.0013	0.00083	-	0.0019
Barium	mg/L	2.0	0.11	0.11	0.096	0.10	0.093	0.091	0.094	0.11	-	0.12
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	<0.00034
Boron	mg/L	-	<0.021	<0.021	0.024	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034
Calcium	mg/L	-	26	25	17	17	14	25	23	26	29	34
Chloride	mg/L	250	2.5	2.1	2.2	1.4	3.5	2.9	3.1	4	3.8	2.6
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	-	<0.0011
Cobalt	mg/L	0.013	0.010	0.0089	0.0069	0.0057	0.0060	0.0072	0.0082	0.0094	-	0.011
Fluoride	mg/L	4.0	0.04	0.04	0.04	<0.032	<0.032	0.04	<0.032	0.05	0.06	0.07
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	-	<0.00035
Lithium	mg/L	0.040	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	-	0.0022
Mercury	mg/L	0.0020	<0.000070	<0.000070	0.00008	<0.000070	<0.000070	<0.000070	<0.000070	<0.000070	-	<0.000070
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	0.00088	<0.00085	<0.00085	-	<0.00085
Selenium	mg/L	0.050	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	-	0.00065
Sulfate	mg/L	250	15	14	12	14	18	20	18	16	12	12
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085		<0.000085
TDS	mg/L	500	100	150	90	80	110	98	72	74	150	140
Radium-226	pCi/L	-	0.171	0.207	0.186	0.171	0.048	-	0.170	0.031	-	-
Radium-228	pCi/L	-	0.413	0.287	0.421	0.362	0.157	-	0.318	-0.142	-	-
Combined Radium	pCi/L	5	0.584	0.494	0.607	0.533	0.205	-	0.489	-0.112	-	-

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-1				
INSTALLATION DATE:	10/14/13	WELL DEPTH (FT-BTOC):	24.3	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	29.17	WELL TYPE:	II			
								DIAMETER (IN):	2			
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	8/14/2018	4/10/2019	9/24/2019	3/26/2020	9/23/2020	4/22/2021	9/30/2021	5/2/2022	10/11/2022	4/11/2023
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.00073	0.0014	0.0014	0.0023	0.0020	0.0017	0.0023	0.0024	0.00230	0.0012
Barium	mg/L	2.0	0.12	0.12	0.14	0.13	0.14	0.14	0.135	0.146	0.138	0.117
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	<0.021	<0.021	0.016	0.016	0.012	0.017	0.023	0.015	0.022	0.019
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	26	28	28	33	28	44.4	32.1	36.3	27.4	33.2
Chloride	mg/L	250	2.7	2.8	2.6	3.5	2.6	2.47	2.27	2.25	2.38	1.87
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.0077	0.0086	0.0079	0.008	0.009	0.008	0.008	0.009	0.007	0.007
Fluoride	mg/L	4.0	0.07	0.08	<0.125	<0.125	<0.125	<0.125	0.143	<0.125	<0.125	<0.125
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.0025	0.0018	<0.0050	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.008
Mercury	mg/L	0.0020	<0.000070	<0.000070	<0.000200	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.00085	<0.00200	<0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	<0.00024	<0.00071	<0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	11	10	14.3	30	13	31.8	13.7	15.4	11.5	29.9
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.001000	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	110	150	160	172	118	220	232	143	167	188
Radium-226	pCi/L	-	0.282	0.159	0.450	0.801	0.000	-0.0579	0.144	0.300	0.000	0.249
Radium-228	pCi/L	-	0.198	0.263	1.080	0.793	0.735	1.49	0.644	0.721	0.416	0.578
Combined Radium	pCi/L	5	0.480	0.421	1.530	1.594	0.735	1.49	0.788	1.02	0.416	0.827

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama			WELL ID:	MW-1		
INSTALLATION DATE:	10/14/13	WELL DEPTH (FT-BTOC):	24.3	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL):	29.17	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

			Sample Date							
Constituent	Units	GWPS	10/23/2023							
Antimony	mg/L	0.006	<0.0010							
Arsenic	mg/L	0.010	0.0031							
Barium	mg/L	2.0	0.131							
Beryllium	mg/L	0.004	<0.0010							
Boron	mg/L	-	0.018							
Cadmium	mg/L	0.005	<0.0010							
Calcium	mg/L	-	26.9							
Chloride	mg/L	250	2.13							
Chromium	mg/L	0.100	<0.001							
Cobalt	mg/L	0.013	0.007							
Fluoride	mg/L	4.0	0.162							
Lead	mg/L	0.015	<0.0010							
Lithium	mg/L	0.040	<0.004							
Mercury	mg/L	0.0020	<0.00020							
Molybdenum	mg/L	0.100	<0.001							
Selenium	mg/L	0.050	<0.001							
Sulfate	mg/L	250	21.9							
Thallium	mg/L	0.002	<0.0010							
TDS	mg/L	500	118							
Radium-226	pCi/L	-	-0.337							
Radium-228	pCi/L	-	0.840							
Combined Radium	pCi/L	5	0.840							

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-2				
INSTALLATION DATE:	10/15/13	WELL DEPTH (FT-BTOC):	36.47	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	38.18	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	3/29/2016	5/18/2016	7/19/2016	9/19/2016	11/29/2016	1/31/2017	3/28/2017	5/23/2017	10/10/2017	4/17/2018
Antimony	mg/L	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010	-	<0.0010
Arsenic	mg/L	0.010	<0.00046	<0.00046	0.00055	<0.00046	<0.00046	<0.00046	<0.00046	<0.00046	-	<0.00046
Barium	mg/L	2.0	0.070	0.075	0.067	0.067	0.070	0.075	0.072	0.078	-	0.07
Beryllium	mg/L	0.004	<0.00034	<0.00034	0.000068	<0.00034	<0.00034	0.00037	<0.00034	<0.00034	-	0.00035
Boron	mg/L	-	0.022	<0.021	<0.0042	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021	<0.021
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	<0.00034
Calcium	mg/L	-	3.6	3.6	3.0	3.2	3.0	3.5	3.1	3.6	3.6	3.3
Chloride	mg/L	250	0.89	<0.60	<0.60	<0.60	2.2	1.1	1	1.9	1.8	0.93
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	-	<0.0011
Cobalt	mg/L	0.013	0.012	0.013	0.011	0.011	0.011	0.012	0.012	0.012	-	0.012
Fluoride	mg/L	4.0	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032	<0.032
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	-	<0.00035
Lithium	mg/L	0.040	0.0034	<0.0032	<0.00064	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	-	0.0022
Mercury	mg/L	0.0020	<0.000070	<0.000070	0.000083	<0.000070	<0.000070	<0.000070	<0.000070	<0.000070	-	<0.000070
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	-	<0.00085
Selenium	mg/L	0.050	0.0003	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	-	0.0003
Sulfate	mg/L	250	14	14	14	16	17	15	14	16	15	15
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	-	<0.000085
TDS	mg/L	500	46	56	42	30	76	32	12	26	46	38
Radium-226	pCi/L	-	0.140	0.161	0.092	0.100	0.093	-	0.193	0.103	-	-
Radium-228	pCi/L	-	0.465	0.268	0.301	-0.021	0.156	-	0.505	0.120	-	-
Combined Radium	pCi/L	5	0.605	0.430	0.393	0.079	0.249	-	0.698	0.223	-	-

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-2			
INSTALLATION DATE:	10/15/13	WELL DEPTH (FT-BTOC):	36.47	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	38.18	WELL TYPE:	II		
								DIAMETER (IN):	2		

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

			Sample Date									
Constituent	Units	GWPS	8/14/2018	4/10/2019	9/24/2019	3/26/2020	9/23/2020	4/22/2021	9/30/2021	5/2/2022	10/11/2022	4/11/2023
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	<0.00046	<0.00046	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium	mg/L	2.0	0.067	0.064	0.067	0.068	0.067	0.071	0.07	0.07	0.071	0.064
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	<0.021	<0.021	0.0168	0.018	0.012	0.017	0.019	0.017	0.02	0.018
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	3.2	3.0	3.2	3.2	3.32	3.44	3.52	3.39	3.16	3.41
Chloride	mg/L	250	0.63	<1.4	1.05	0.969	1.02	1.1	1.03	1.2	1.24	1.14
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.011	0.010	0.010	0.010	0.010	0.01	0.011	0.01	0.01	0.01
Fluoride	mg/L	4.0	0.04	<0.032	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.0027	0.002	<0.005	<0.005	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.008
Mercury	mg/L	0.0020	<0.000070	<0.000070	<0.000200	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.00085	<0.00200	<0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	<0.00024	<0.00071	<0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	15	14	20	18	15	15.4	16.2	21.9	20.7	20.9
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	50	44	66	69	65	56	70.5	37.8	51.5	58.4
Radium-226	pCi/L	-	0.285	0.079	0.153	0.647	0.167	0.529	-0.195	0.189	0.204	0.362
Radium-228	pCi/L	-	0.107	0.088	0.796	1.060	1.260	0.551	0.427	0.390	0.597	0.273
Combined Radium	pCi/L	5	0.392	0.166	0.949	1.707	1.430	1.08	0.427	0.579	0.801	0.635

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama		WELL ID:	MW-2/ MW-2R				
INSTALLATION DATE:	10/15/13	WELL DEPTH (FT-BTOC):	36.47	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL):	38.18	WELL TYPE:	II		
								DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);											
			Sample Date								
Constituent	Units	GWPS	MW-2R	10/23/2023							
Antimony	mg/L	0.006		<0.0010							
Arsenic	mg/L	0.010		0.0085							
Barium	mg/L	2.0		0.075							
Beryllium	mg/L	0.004		<0.0010							
Boron	mg/L	-		0.015							
Cadmium	mg/L	0.005		<0.0010							
Calcium	mg/L	-		17.2							
Chloride	mg/L	250		10.8							
Chromium	mg/L	0.100		<0.001							
Cobalt	mg/L	0.013		0.019							
Fluoride	mg/L	4.0		<0.125							
Lead	mg/L	0.015		<0.0010							
Lithium	mg/L	0.040		<0.004							
Mercury	mg/L	0.0020		<0.00020							
Molybdenum	mg/L	0.100		<0.001							
Selenium	mg/L	0.050		<0.001							
Sulfate	mg/L	250		46.2							
Thallium	mg/L	0.002		<0.0010							
TDS	mg/L	500		150							
Radium-226	pCi/L	-		-0.263							
Radium-228	pCi/L	-		0.432							
Combined Radium	pCi/L	5		0.432							

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant			Location:	Leroy, Alabama			WELL ID:	MW-3				
INSTALLATION DATE:	01/01/13	WELL DEPTH (FT-BTOC):	24.58	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	28.55	WELL TYPE:	II				
									DIAMETER (IN):	2			
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);													
			Sample Date										
Constituent	Units	GWPS	4/6/2019	6/4/2019	8/1/2019	9/24/2019	11/18/2019	1/29/2020	3/26/2020	6/23/2020	9/22/2020	4/22/2021	
Antimony	mg/L	0.006	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Arsenic	mg/L	0.010	<0.00046	-	<0.0010	<0.0010	<0.0010	0.00102	<0.0010	<0.0010	<0.0010	<0.0010	
Barium	mg/L	2.0	0.13	-	0.122	0.121	0.120	0.098	0.098	0.125	0.131	0.091	
Beryllium	mg/L	0.004	0.00057	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Boron	mg/L	-	<0.021	-	0.0204	0.0208	0.0222	0.0180	0.0180	0.0220	0.0190	0.02	
Cadmium	mg/L	0.005	<0.00034	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Calcium	mg/L	-	5.7	-	4.42	4.51	4.63	5.78	6.92	5.27	5.03	7.09	
Chloride	mg/L	250	<1.4	-	1.85	2.16	2.16	2.46	2.62	1.81	1.97	2.33	
Chromium	mg/L	0.100	<0.0011	-	<0.0010	0.00105	<0.0010	0.00254	0.001	<0.001	<0.001	<0.001	
Cobalt	mg/L	0.013	0.031	0.027	0.0257	0.0252	0.0296	0.0223	0.026	0.028	0.03	0.019	
Fluoride	mg/L	4.0	0.04	-	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	
Lead	mg/L	0.015	<0.00035	-	<0.0010	<0.0010	<0.0010	0.00203	<0.0010	<0.0010	<0.0010	<0.0010	
Lithium	mg/L	0.040	0.0027	-	<0.0050	<0.0050	<0.0050	0.0083	<0.0050	<0.0050	<0.0050	<0.0050	
Mercury	mg/L	0.0020	<0.000070	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Molybdenum	mg/L	0.100	<0.0020	-	<0.0010	<0.0010	<0.0010	0.0013	0.001	<0.001	<0.001	0.002	
Selenium	mg/L	0.050	<0.00071	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001	
Sulfate	mg/L	250	21	-	23.1	26.0	21.1	20.6	27.8	20.6	19.7	22.5	
Thallium	mg/L	0.002	<0.000085	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
TDS	mg/L	500	24	-	<50.0	70.7	52.5	52.6	80	66.6	56	125	
Radium-226	pCi/L	-	0.160	-	0.296	0.774	0.590	0.164	0.835	0.898	0.260	0.0656	
Radium-228	pCi/L	-	0.205	-	1.000	0.913	0.816	0.0217	0.930	0.623	0.905	0.881	
Combined Radium	pCi/L	5	0.365	-	1.296	1.690	1.410	0.186	1.765	1.520	1.170	0.947	

Monitoring Point Data Summary Table

Monitoring Point Data Summary Table											
SITE NAME:	Charles R. Lowman Power Plant			Location:	Leroy, Alabama			WELL ID:	MW-3		
INSTALLATION DATE:	01/01/13		WELL DEPTH (FT-BTOC):	24.58	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	28.55	WELL TYPE:	II	
			DIAMETER (IN):					<td>2</td>		2	
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);											
			Sample Date								
Constituent	Units	GWPS	9/29/2021	5/3/2022	10/11/2022	4/10/2023	10/25/2023				
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Arsenic	mg/L	0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Barium	mg/L	2.0	0.112	0.097	0.115	0.092	0.089				
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Boron	mg/L	-	0.028	0.017	0.024	0.019	0.036				
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Calcium	mg/L	-	5.81	6.8	4.33	6.57	3.92				
Chloride	mg/L	250	1.75	2.01	1.85	1.68	1.52				
Chromium	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001				
Cobalt	mg/L	0.013	0.026	0.021	0.030	0.021	0.022				
Fluoride	mg/L	4.0	<0.125	<0.125	<0.125	<0.125	0.157				
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Lithium	mg/L	0.040	<0.0050	<0.0050	<0.0050	<0.008	<0.004				
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020				
Molybdenum	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001				
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001	<0.001				
Sulfate	mg/L	250	20.8	23.7	20	26.4	19				
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
TDS	mg/L	500	61.3	61.4	74	<25.2	<25.0				
Radium-226	pCi/L	-	0.153	0.321	0.0699	0.195	-0.172				
Radium-228	pCi/L	-	0.261	0.705	0.255	0.483	0.229				
Combined Radium	pCi/L	5	0.414	1.03	0.325	0.678	0.229				

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-4				
INSTALLATION DATE:	10/15/13	WELL DEPTH (FT-BTOC):	36.4	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	36.40	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	3/29/2016	5/18/2016	7/19/2016	9/19/2016	11/29/2016	1/31/2017	3/28/2017	5/23/2017	10/10/2017	12/11/2017
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	-	-
Arsenic	mg/L	0.010	0.0054	0.0073	0.0049	0.0059	0.0040	0.0064	0.0053	0.0039	-	-
Barium	mg/L	2.0	0.030	0.032	0.031	0.041	0.31	0.05	0.045	0.041	-	-
Beryllium	mg/L	0.004	0.0053	0.0055	0.0044	0.0056	0.0070	0.0066	0.0055	0.0056	-	-
Boron	mg/L	-	1.8	1.7	1.4	1.7	2.9	2.0	2.2	2.8	1.9	2.2
Cadmium	mg/L	0.005	0.00095	0.00076	0.00099	0.00110	0.00100	0.00085	0.00095	<0.0017	-	-
Calcium	mg/L	-	290	290	270	260	300	290	250	310	290	310
Chloride	mg/L	250	460	430	400	500	560	490	190	500	470	430
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	-	-
Cobalt	mg/L	0.013	0.99	1.00	0.99	1.00	1.00	0.98	0.96	1.00	-	-
Fluoride	mg/L	4.0	0.31	0.34	0.37	0.38	0.34	0.41	0.38	0.36	0.39	0.45
Lead	mg/L	0.015	0.0018	0.0020	0.0019	0.0018	0.0024	0.0020	0.0019	0.0021	-	-
Lithium	mg/L	0.040	0.0093	0.0069	0.0060	0.0062	0.0087	0.0045	0.0073	0.0065	-	-
Mercury	mg/L	0.0020	<0.000070	<0.000070	0.000083	<0.000070	<0.000070	<0.000070	<0.000070	<0.000070	-	-
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	-	-
Selenium	mg/L	0.050	0.0028	0.0028	0.0036	0.0067	0.0030	0.0027	0.0029	0.0037	-	-
Sulfate	mg/L	250	610	550	490	610	710	470	550	640	520	500
Thallium	mg/L	0.002	0.00023	0.00025	0.00023	0.00027	0.00031	0.0003	0.00029	0.00027	-	-
TDS	mg/L	500	1700	2000	1900	1800	2400	310	1400	1800	1900	2000
Radium-226	pCi/L	-	0.252	0.270	0.319	0.238	0.656	-	0.331	0.182	-	-
Radium-228	pCi/L	-	0.331	0.329	0.589	0.446	0.545	-	0.471	0.491	-	-
Combined Radium	pCi/L	5	0.583	0.599	0.908	0.684	1.200	-	0.803	0.673	-	-

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-4				
INSTALLATION DATE:	10/15/13	WELL DEPTH (FT-BTOC):	36.4	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	36.40	WELL TYPE:	II		DIAMETER (IN):	2
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/18/2018	8/14/2018	4/10/2019	6/4/2019	9/24/2019	3/26/2020	9/23/2020	4/21/2021	9/28/2021	5/3/2022
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	-	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0034	0.0048	0.0036	-	<0.0050	0.0061	0.0017	<0.0010	0.00340	<0.0050
Barium	mg/L	2.0	0.04	0.057	0.044	-	0.044	0.035	0.038	0.025	0.036	0.034
Beryllium	mg/L	0.004	0.0057	0.0053	0.0046	-	0.0056	0.0052	0.0053	0.0044	0.0044	0.0046
Boron	mg/L	-	2.5	1.8	2.1	-	2.1	2.6	2.1	2.47	2.41	2.43
Cadmium	mg/L	0.005	0.00076	0.00080	0.00057	-	<0.00500	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	300	270	250	-	286	264	277	154	281	278
Chloride	mg/L	250	480	470	430	-	469	504	478	493	443	457
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	-	<0.0050	<0.005	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.98	0.90	0.82	0.69	0.86	0.82	0.87	0.892	0.816	0.8700
Fluoride	mg/L	4.0	0.38	0.47	0.38	-	1.03	0.288	0.43	0.549	0.665	0.43
Lead	mg/L	0.015	0.0019	0.0017	0.0014	-	<0.005	0.0017	0.0018	0.0019	<0.0050	0.0016
Lithium	mg/L	0.040	0.0086	0.0071	0.0056	-	0.0071	0.00597	0.0068	0.0057	0.005	0.0054
Mercury	mg/L	0.0020	<0.000070	<0.000070	<0.000070	-	<0.000200	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.00200	-	<0.00500	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	0.0022	0.0015	0.0013	-	<0.0050	<0.005	0.003	<0.001	<0.001	<0.005
Sulfate	mg/L	250	580	560	510	-	656	637	602	725	751	867
Thallium	mg/L	0.002	0.00030	0.00023	0.00023	-	<0.00500	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010
TDS	mg/L	500	1700	1700	1800	-	1890	1650	1850	1990	1700	1940
Radium-226	pCi/L	-	-	0.371	0.234	-	0.698	0.979	0.243	0.121	0.146	0.273
Radium-228	pCi/L	-	-	0.614	1.020	-	0.871	0.942	0.541	0.652	0.879	0.762
Combined Radium	pCi/L	5	-	0.985	1.250	-	1.570	1.921	0.784	0.773	1.03	1.04

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama	WELL ID:	MW-4/ MW-4R				
INSTALLATION DATE:	10/15/13	WELL DEPTH (FT-BTOC):	36.4	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	36.40	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

			Sample Date									
Constituent	Units	GWPS	10/11/2022	4/10/2023		10/25/2023						
					MW-4R							
Antimony	mg/L	0.006	<0.0010	<0.0010		<0.0010						
Arsenic	mg/L	0.010	0.0012	0.0212		0.004						
Barium	mg/L	2.0	0.027	0.05		0.13						
Beryllium	mg/L	0.004	0.0054	0.0033		<0.0010						
Boron	mg/L	-	2.65	2.04		2.14						
Cadmium	mg/L	0.005	<0.0010	<0.0010		<0.0010						
Calcium	mg/L	-	299	210		98.6						
Chloride	mg/L	250	489	397		100						
Chromium	mg/L	0.100	<0.001	<0.001		<0.001						
Cobalt	mg/L	0.013	0.982	0.58		0.016						
Fluoride	mg/L	4.0	0.738	0.4		0.136						
Lead	mg/L	0.015	0.0011	0.0013		<0.0010						
Lithium	mg/L	0.040	0.00649	<0.008		<0.004						
Mercury	mg/L	0.0020	<0.00020	<0.00020		<0.00020						
Molybdenum	mg/L	0.100	<0.001	<0.001		0.002						
Selenium	mg/L	0.050	0.001	0.005		<0.001						
Sulfate	mg/L	250	732	678		250						
Thallium	mg/L	0.002	<0.0010	<0.0010		<0.0010						
TDS	mg/L	500	1810	1600		610						
Radium-226	pCi/L	-	0.000	0.0690		-0.114						
Radium-228	pCi/L	-	1.35	1.47		0.926						
Combined Radium	pCi/L	5	1.35	1.54		0.926						

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-5				
INSTALLATION DATE:	10/15/13	WELL DEPTH (FT-BTOC):	29.35	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	37.41	WELL TYPE:	II			
	DIAMETER (IN):						2					
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	3/29/2016	5/18/2016	7/19/2016	9/19/2016	11/29/2016	2/1/2017	3/28/2017	5/24/2017	10/10/2017	4/18/2018
Antimony	mg/L	0.006	<0.0010	<0.0010	Dry	Dry	Dry	<0.0010	<0.0010	<0.0010	Dry	<0.0010
Arsenic	mg/L	0.010	0.012	0.032	-	-	-	<0.00046	0.0042	0.0082	-	0.013
Barium	mg/L	2.0	0.23	0.33	-	-	-	0.075	0.055	0.22	-	0.26
Beryllium	mg/L	0.004	<0.00034	<0.00034	-	-	-	<0.00034	<0.00034	<0.00034	-	<0.00034
Boron	mg/L	-	1.3	0.29	-	-	-	5.9	4.9	3.1	-	1.7
Cadmium	mg/L	0.005	<0.00034	<0.00034	-	-	-	0.002	0.00061	0.00063	-	<0.00034
Calcium	mg/L	-	130	130	-	-	-	260	210	160	-	150
Chloride	mg/L	250	71	41	-	-	-	190	120	120	-	90
Chromium	mg/L	0.100	<0.0011	<0.0011	-	-	-	<0.0011	<0.0011	<0.0011	-	<0.0011
Cobalt	mg/L	0.013	0.0270	0.0230	-	-	-	0.018	0.028	0.031	-	0.03
Fluoride	mg/L	4.0	0.1	0.15	-	-	-	<0.032	0.04	0.08	-	0.11
Lead	mg/L	0.015	<0.00035	<0.00035	-	-	-	<0.00035	<0.00035	<0.00035	-	<0.00035
Lithium	mg/L	0.040	<0.0032	<0.0032	-	-	-	0.0096	0.0075	0.0034	-	0.0045
Mercury	mg/L	0.0020	<0.000070	<0.000070	-	-	-	<0.000070	<0.000070	<0.000070	-	<0.000070
Molybdenum	mg/L	0.100	<0.00085	<0.00085	-	-	-	<0.00085	<0.00085	<0.00085	-	<0.00085
Selenium	mg/L	0.050	0.0033	0.0047	-	-	-	<0.00024	<0.00024	0.0021	-	0.0027
Sulfate	mg/L	250	150	20	-	-	-	140	400	230	-	130
Thallium	mg/L	0.002	<0.000085	<0.000085	-	-	-	<0.000085	0.000085	<0.000085	-	<0.000085
TDS	mg/L	500	770	680	-	-	-	1300	1100	940	-	880
Radium-226	pCi/L	-	0.511	0.432	-	-	-	-	0.163	0.194	-	-
Radium-228	pCi/L	-	0.331	0.306	-	-	-	-	0.309	0.338	-	-
Combined Radium	pCi/L	5	0.842	0.738	-	-	-	-	0.472	0.532	-	-

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama			WELL ID:	MW-5		
INSTALLATION DATE:	10/15/13	WELL DEPTH (FT-BTOC):	29.35	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	37.41	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

			Sample Date									
Constituent	Units	GWPS	8/13/2018	4/9/2019	6/4/2019	9/24/2019	3/23/2020	9/22/2020	4/19/2021	9/28/2021	4/26/2022	4/18/2023
Antimony	mg/L	0.006	Dry	<0.0010	-	Dry	<0.0010	Dry	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	-	0.022	0.056	-	0.0242	-	0.0205	0.0779	0.05080	0.0197
Barium	mg/L	2.0	-	0.36	-	-	0.216	-	0.215	0.444	0.309	0.172
Beryllium	mg/L	0.004	-	<0.00034	-	-	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	-	0.55	-	-	0.953	-	1.36	0.395	0.956	0.468
Cadmium	mg/L	0.005	-	<0.00034	-	-	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	-	120	-	-	92.3	-	109	135	124	90.6
Chloride	mg/L	250	-	43	-	-	52.3	-	52.2	20.3	39.1	20.4
Chromium	mg/L	0.100	-	<0.0011	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	-	0.016	-	-	0.015	-	0.017	0.018	0.023	0.0130
Fluoride	mg/L	4.0	-	0.18	-	-	0.336	-	<0.125	0.193	<0.125	<1.25
Lead	mg/L	0.015	-	<0.00035	-	-	<0.0010	-	<0.0010	<0.0050	<0.0010	<0.0010
Lithium	mg/L	0.040	-	<0.0011	-	-	<0.005	-	<0.005	<0.0050	<0.0050	<0.008
Mercury	mg/L	0.0020	-	<0.000070	-	-	<0.00020	-	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	-	<0.0020	-	-	<0.001	-	<0.001	<0.005	0.001	0.001
Selenium	mg/L	0.050	-	0.0033	-	-	0.001	-	0.002	0.003	0.003	0.003
Sulfate	mg/L	250	-	<1.4	-	-	81.3	-	121	20.8	86.5	38.4
Thallium	mg/L	0.002	-	<0.000085	-	-	<0.0010	-	<0.0010	<0.0050	<0.0010	<0.0010
TDS	mg/L	500	-	700	-	-	555	-	725	698	658	645
Radium-226	pCi/L	-	-	0.513	-	-	0.409	-	0	0.0558	0.272	0.443
Radium-228	pCi/L	-	-	0.511	-	-	0.718	-	1.17	1.40	0.859	1.04
Combined Radium	pCi/L	5	-	1.020	-	-	1.127	-	1.17	1.46	1.13	1.48

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-5A				
INSTALLATION DATE:	08/02/16	WELL DEPTH (FT-BTOC):	39.02	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	37.23	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	8/4/2016	9/21/2016	11/30/2016	2/1/2017	3/28/2017	5/24/2017	10/10/2017	12/12/2017	4/18/2018	8/15/2018
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	-	-	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0034	0.0016	0.0026	0.0028	0.0026	0.0023	-	-	0.00360	0.00094
Barium	mg/L	2.0	0.035	0.028	0.024	0.029	0.033	0.04	-	-	0.098	0.073
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-	<0.00034	<0.00034
Boron	mg/L	-	17	13	13	14	14	8.9	7.4	7.4	6.7	4.8
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-	<0.00034	<0.00034
Calcium	mg/L	-	480	480	340	480	370	330	300	320	330	220
Chloride	mg/L	250	340	350	240	340	170	310	230	260	290	180
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	-	-	<0.0011	<0.0011
Cobalt	mg/L	0.013	0.036	0.015	0.018	0.014	0.036	0.032	-	-	0.0078	0.0090
Fluoride	mg/L	4.0	1.2	1.7	1.5	2.1	1.4	1.3	2.2	1.9	<0.032	2
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	-	-	<0.00035	<0.00035
Lithium	mg/L	0.040	0.20	0.20	0.18	0.22	0.17	0.11	-	-	0.230	0.097
Mercury	mg/L	0.0020	<0.000070	<0.000070	<0.000070	<0.000070	<0.000070	<0.000070	-	-	<0.000070	<0.000070
Molybdenum	mg/L	0.100	0.17	0.32	0.19	0.28	0.12	0.11	-	-	0.440	0.290
Selenium	mg/L	0.050	0.00033	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	-	-	<0.00024	<0.00024
Sulfate	mg/L	250	790	890	660	590	560	430	140	270	170	130
Thallium	mg/L	0.002	0.00012	<0.000085	0.000085	<0.000085	<0.000085	<0.000085	-	-	<0.000085	<0.000085
TDS	mg/L	500	2500	2300	1800	2200	1400	1600	1300	1400	1300	1000
Radium-226	pCi/L	-	0.131	0.178	-0.0356	-	0.478	0.18	-	-	-	0.342
Radium-228	pCi/L	-	0.338	0.351	0.303	-	0.564	0.109	-	-	-	0.128
Combined Radium	pCi/L	5	0.469	0.529	0.267	-	1.04	0.288	-	-	-	0.469

Monitoring Point Data Summary Table

Monitoring Point Data Summary Table												
SITE NAME:	Charles R. Lowman Power Plant			Location:	Leroy, Alabama			WELL ID:	MW-5A			
INSTALLATION DATE:	08/02/16	WELL DEPTH (FT-BTOC):	39.02	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	37.23	WELL TYPE:	II			
								DIAMETER (IN):	2			
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/9/2019	6/4/2019	9/26/2019	3/23/2020	9/22/2020	4/19/2021	9/28/2021	4/26/2022	10/12/2022	4/18/2023
Antimony	mg/L	0.006	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0043	-	0.00212	0.0038	0.0018	0.0036	0.0044	0.0036	0.00200	0.0037
Barium	mg/L	2.0	0.078	-	0.111	0.101	0.089	0.096	0.099	0.096	0.085	0.078
Beryllium	mg/L	0.004	<0.00034	-	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	4.6	-	3.65	2.57	2.58	2	2.22	2.36	2.23	1.67
Cadmium	mg/L	0.005	<0.00034	-	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	180	-	180	129	138	111	138	111	113	102
Chloride	mg/L	250	190	-	142	159	88.7	98.7	102	115	82.5	95.5
Chromium	mg/L	0.100	<0.0011	-	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.012	-	0.0275	0.013	0.012	0.012	0.013	0.015	0.014	0.0140
Fluoride	mg/L	4.0	1.6	-	1.92	1.27	1.33	1.13	1.86	1.45	1.57	1.27
Lead	mg/L	0.015	<0.00035	-	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.09	0.05	0.08	0.0671	0.0488	0.0626	0.0663	0.0561	0.057	0.053
Mercury	mg/L	0.0020	<0.000070	-	<0.000200	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	0.20	0.12	0.14	0.109	0.096	0.09	0.149	0.09	0.136	0.085
Selenium	mg/L	0.050	<0.00071	-	<0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	130	-	204	126	178	116	101	122	177	114
Thallium	mg/L	0.002	<0.000085	-	<0.001000	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	920	-	794	612	646	579	640	652	608	524
Radium-226	pCi/L	-	0.15	-	0.167	0.463	0.23	-0.0621	0.619	0.178	0.423	0.449
Radium-228	pCi/L	-	0.362	-	0.802	0.888	-0.559	1.31	10.7	0.263	0.421	0.847
Combined Radium	pCi/L	5	0.511	-	0.969	1.351	0.23	1.31	11.3	0.441	0.844	1.30

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama		WELL ID:	MW-5A				
INSTALLATION DATE:	08/02/16	WELL DEPTH (FT-BTOC):	39.02	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL):	37.23	WELL TYPE:	II	DIAMETER (IN):	2
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);											
			Sample Date								
Constituent	Units	GWPS	10/24/2023								
			<0.0010								
Antimony	mg/L	0.006	<0.0010								
Arsenic	mg/L	0.010	0.0023								
Barium	mg/L	2.0	0.09								
Beryllium	mg/L	0.004	<0.0010								
Boron	mg/L	-	2.12								
Cadmium	mg/L	0.005	<0.0010								
Calcium	mg/L	-	131								
Chloride	mg/L	250	85.5								
Chromium	mg/L	0.100	<0.001								
Cobalt	mg/L	0.013	0.021								
Fluoride	mg/L	4.0	1.3								
Lead	mg/L	0.015	<0.0010								
Lithium	mg/L	0.040	0.0506								
Mercury	mg/L	0.0020	<0.00020								
Molybdenum	mg/L	0.100	0.064								
Selenium	mg/L	0.050	<0.001								
Sulfate	mg/L	250	206								
Thallium	mg/L	0.002	<0.0010								
TDS	mg/L	500	582								
Radium-226	pCi/L	-	0.181								
Radium-228	pCi/L	-	0.827								
Combined Radium	pCi/L	5	1.01								

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-6				
INSTALLATION DATE:	10/16/13	WELL DEPTH (FT-BTOC):	30.14	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	29.26	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	3/29/2016	5/18/2016	7/19/2016	9/19/2016	11/29/2016	1/31/2017	3/29/2017	5/24/2017	10/11/2017	12/12/2017
Antimony	mg/L	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010	-	-
Arsenic	mg/L	0.010	0.0095	0.017	0.022	0.023	0.027	0.0021	0.0063	0.0076	-	-
Barium	mg/L	2.0	0.25	0.13	0.10	0.12	0.13	0.075	0.082	0.087	-	-
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-
Boron	mg/L	-	0.30	0.28	0.32	0.32	0.40	0.35	0.35	0.34	0.43	0.45
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	0.00037	<0.00034	<0.00034	-	-
Calcium	mg/L	-	99	90	62	74	64	100	82	97	86	73
Chloride	mg/L	250	52	45	35	34	39	48	45	44	33	25
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	-	-
Cobalt	mg/L	0.013	0.0048	0.015	0.012	0.012	0.012	0.013	0.016	0.016	-	-
Fluoride	mg/L	4.0	0.12	0.14	0.24	0.23	0.17	0.04	0.12	0.1	0.24	0.27
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	-	-
Lithium	mg/L	0.040	<0.0032	<0.0032	0.0046	0.0055	0.011	<0.0032	<0.0032	<0.0032	-	-
Mercury	mg/L	0.0020	<0.000070	<0.000070	0.000084	<0.000070	<0.000070	<0.000070	<0.000070	<0.000070	-	-
Molybdenum	mg/L	0.100	0.0012	0.0016	0.003	0.0026	0.0019	<0.00085	<0.00085	0.0027	-	-
Selenium	mg/L	0.050	0.00032	<0.00024	<0.00024	<0.00024	<0.00024	0.0022	<0.00024	0.00097	-	-
Sulfate	mg/L	250	140	130	64	94	100	140	130	130	120	80
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	-	-
TDS	mg/L	500	490	430	340	370	380	410	390	400	410	380
Radium-226	pCi/L	-	0.374	0.204	0.133	0.209	0.022	-	0.157	0.077	-	-
Radium-228	pCi/L	-	0.486	0.324	0.180	0.286	0.168	-	0.101	0.090	-	-
Combined Radium	pCi/L	5	0.859	0.528	0.313	0.495	0.190	-	0.258	0.167	-	-

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama			WELL ID:	MW-6		
INSTALLATION DATE:	10/16/13	WELL DEPTH (FT-BTOC):	30.14	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL):	29.26	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

			Sample Date									
Constituent	Units	GWPS	4/17/2018	8/15/2018	4/7/2019	9/25/2019	3/26/2020	9/23/2020	4/21/2021	9/30/2021	4/27/2022	10/17/2022
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050
Arsenic	mg/L	0.010	0.0021	0.0190	0.0012	0.0229	0.0015	0.0205	<0.0010	<0.0010	<0.0010	0.0217
Barium	mg/L	2.0	0.046	0.078	0.043	0.096	0.053	0.091	0.048	0.054	0.041	0.099
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	0.23	0.38	0.19	0.39	0.18	0.34	0.186	0.213	0.131	0.325
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	89	74	98	63	89	76	91.4	90	75.3	73
Chloride	mg/L	250	31	24	24	16	19	21	12.7	15.1	10.6	13.4
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Cobalt	mg/L	0.013	0.0055	0.0120	0.0042	0.0105	0.002	0.01	<0.001	0.002	<0.010	0.0140
Fluoride	mg/L	4.0	0.06	0.27	0.06	0.32	<0.125	0.24	<0.125	<0.125	<0.125	<0.500
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050
Lithium	mg/L	0.040	0.0019	0.0054	0.002	0.00832	<0.005	0.0061	<0.0050	<0.0050	<0.0050	0.00603
Mercury	mg/L	0.0020	<0.000070	<0.000070	<0.000070	<0.000200	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.00200	0.00252	<0.001	0.002	<0.001	<0.001	<0.010	0.002
Selenium	mg/L	0.050	0.00036	<0.00024	<0.00071	<0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	170	89	170	63	173	69	137	135	129	69.9
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050
TDS	mg/L	500	480	400	370	298	398	337	455	421	368	372
Radium-226	pCi/L	-	-	0.326	0.052	0.478	0.827	0.351	0.168	-0.238	0.315	-0.266
Radium-228	pCi/L	-	-	0.340	0.146	1.060	0.909	-0.265	0.295	0.584	0.126	0.671
Combined Radium	pCi/L	5	-	0.666	0.198	1.538	1.736	0.351	0.463	0.584	0.441	0.671

Monitoring Point Data Summary Table

Monitoring Point Data Summary Table											
SITE NAME:	Charles R. Lowman Power Plant			Location:	Leroy, Alabama			WELL ID:	MW-6		
INSTALLATION DATE:	10/16/13	WELL DEPTH (FT-BTOC):	30.14	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	29.26	WELL TYPE:	II		
								DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);											
			Sample Date								
Constituent	Units	GWPS	4/12/2023	10/17/2023							
Antimony	mg/L	0.006	<0.0010	<0.0010							
Arsenic	mg/L	0.010	<0.0010	0.0204							
Barium	mg/L	2.0	0.045	0.092							
Beryllium	mg/L	0.004	<0.0010	<0.0010							
Boron	mg/L	-	0.166	0.296							
Cadmium	mg/L	0.005	<0.0010	<0.0010							
Calcium	mg/L	-	75.5	74.6							
Chloride	mg/L	250	9.31	8.26							
Chromium	mg/L	0.100	<0.001	<0.001							
Cobalt	mg/L	0.013	0.001	0.0120							
Fluoride	mg/L	4.0	<0.125	<1.25							
Lead	mg/L	0.015	<0.0010	<0.0010							
Lithium	mg/L	0.040	<0.008	0.00564							
Mercury	mg/L	0.0020	<0.00020	<0.00020							
Molybdenum	mg/L	0.100	<0.001	0.002							
Selenium	mg/L	0.050	<0.001	<0.001							
Sulfate	mg/L	250	123	54.1							
Thallium	mg/L	0.002	<0.0010	<0.0010							
TDS	mg/L	500	357	310							
Radium-226	pCi/L	-	0.294	0.727							
Radium-228	pCi/L	-	0.413	0.239							
Combined Radium	pCi/L	5	0.707	0.966							

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-7				
INSTALLATION DATE:	10/16/13	WELL DEPTH (FT-BTOC):	32.65	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	34.20	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	3/29/2016	5/18/2016	7/19/2016	9/19/2016	11/29/2016	2/1/2017	3/29/2017	5/24/2017	10/11/2017	12/12/2017
Antimony	mg/L	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.0010	<0.0010	<0.0010	-	-
Arsenic	mg/L	0.010	<0.00046	<0.00046	<0.00046	0.00047	0.00085	<0.00046	0.0011	0.00098	-	-
Barium	mg/L	2.0	0.052	0.043	0.041	0.057	0.050	0.09	0.039	0.037	-	-
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-
Boron	mg/L	-	7	11	6	11	13	5.1	11	8.9	7.2	6.3
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-
Calcium	mg/L	-	280	410	150	360	490	170	310	260	190	190
Chloride	mg/L	250	210	180	67	280	440	110	94	150	44	80
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	-	-
Cobalt	mg/L	0.013	0.0016	0.0035	0.0018	0.0037	0.0082	0.0017	0.0053	0.0043	-	-
Fluoride	mg/L	4.0	0.79	1.1	1.7	1.6	1.4	1.1	1.8	1.7	2.3	2.4
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	-	-
Lithium	mg/L	0.040	0.160	0.210	0.110	0.220	0.220	0.130	0.170	0.170	-	-
Mercury	mg/L	0.0020	<0.000070	<0.000070	0.086	<0.000070	<0.000070	<0.000070	0.00011	<0.000070	-	-
Molybdenum	mg/L	0.100	0.010	0.017	0.028	0.035	0.024	0.0095	0.022	0.025	-	-
Selenium	mg/L	0.050	0.00026	0.00045	0.00025	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	-	-
Sulfate	mg/L	250	390	480	170	650	870	230	530	370	230	210
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	-	-
TDS	mg/L	500	1200	1600	740	1800	2800	770	1500	1100	710	900
Radium-226	pCi/L	-	0.267	0.220	0.198	0.398	0.174	-	0.083	0.091	-	-
Radium-228	pCi/L	-	0.148	0.382	0.257	0.608	0.226	-	0.515	0.385	-	-
Combined Radium	pCi/L	5	0.414	0.602	0.454	1.010	0.400	-	0.598	0.476	-	-

Monitoring Point Data Summary Table

SITE NAME:		Charles R. Lowman Power Plant		Location:		Leroy, Alabama		WELL ID:		MW-7			
INSTALLATION DATE:		10/16/13	WELL DEPTH (FT-BTOC):		32.65	SCREEN LENGTH (FT):		15.0	CASING ELEV (FT / MSL):		34.20	WELL TYPE: II	
										DIAMETER (IN):		2	
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);													
			Sample Date										
Constituent	Units	GWPS	4/18/2018	8/15/2018	4/7/2019	6/4/2019	9/25/2019	3/26/2020	9/23/2020	4/20/2021	9/29/2021	5/3/2022	
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Arsenic	mg/L	0.010	0.00065	<0.00046	<0.00046	-	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Barium	mg/L	2.0	0.093	0.081	0.089	-	0.075	0.091	0.092	0.093	0.08	0.087	
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	-	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Boron	mg/L	-	2.8	6.8	4.7	-	3.5	1.5	2.1	0.977	2.25	1.17	
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	-	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Calcium	mg/L	-	93	240	180	-	134	83.9	102	78.6	95	74.5	
Chloride	mg/L	250	26	110	81	-	26	11	10	5.61	5.63	3.61	
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	-	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001	
Cobalt	mg/L	0.013	0.00062	0.00360	0.00330	-	0.00317	<0.001	0.001	<0.001	0.001	0.0010	
Fluoride	mg/L	4.0	1.4	2.2	1.5	-	2.4	1.4	1.9	1.06	2.23	2.11	
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	-	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Lithium	mg/L	0.040	0.140	0.190	0.150	0.130	0.117	0.073	0.098	0.0681	0.089	0.0752	
Mercury	mg/L	0.0020	<0.000070	<0.000070	<0.000070	-	<0.000200	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Molybdenum	mg/L	0.100	0.015	0.030	0.016	0.016	0.020	0.010	0.015	0.007	0.021	0.018	
Selenium	mg/L	0.050	0.0017	<0.00024	<0.00071	-	<0.00100	<0.001	<0.001	0.002	<0.001	<0.001	
Sulfate	mg/L	250	96	400	280	-	158	72.1	84.7	48.7	80.1	64.3	
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	-	<0.001000	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
TDS	mg/L	500	410	1100	860	-	580	356	366	310	323	295	
Radium-226	pCi/L	-	-	0.361	0.154	-	0.816	1.040	0.199	0.163	0.234	0.413	
Radium-228	pCi/L	-	-	0.784	-0.136	-	0.933	1.160	0.267	0.568	10.7	0.728	
Combined Radium	pCi/L	5	-	1.140	0.018	-	1.750	2.200	0.466	0.731	10.9	1.14	

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama	WELL ID:	MW-7				
INSTALLATION DATE:	10/16/13	WELL DEPTH (FT-BTOC):	32.65	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL):	34.20	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

Constituent	Units	GWPS	Sample Date								
			10/17/2022	4/12/2023	10/18/2023						
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010						
Arsenic	mg/L	0.010	0.001	<0.0010	<0.0010						
Barium	mg/L	2.0	0.074	0.084	0.085						
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010						
Boron	mg/L	-	0.999	0.83	0.938						
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010						
Calcium	mg/L	-	65.5	65	58.6						
Chloride	mg/L	250	3.31	3.03	2.53						
Chromium	mg/L	0.100	<0.005	<0.001	<0.001						
Cobalt	mg/L	0.013	<0.005	<0.001	0.00100						
Fluoride	mg/L	4.0	2.58	1.98	2.46						
Lead	mg/L	0.015	<0.0050	<0.0010	<0.0010						
Lithium	mg/L	0.040	0.086	0.0784	0.087						
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020						
Molybdenum	mg/L	0.100	0.022	0.012	0.019						
Selenium	mg/L	0.050	<0.001	<0.001	<0.001						
Sulfate	mg/L	250	55.4	50	37.7						
Thallium	mg/L	0.002	<0.0050	<0.0010	<0.0010						
TDS	mg/L	500	337	278	236						
Radium-226	pCi/L	-	0.127	0.234	-0.166						
Radium-228	pCi/L	-	0.574	1.08	0.533						
Combined Radium	pCi/L	5	0.701	1.31	0.533						

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-8				
INSTALLATION DATE:	10/16/13	WELL DEPTH (FT-BTOC):	37.68	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	32.91	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	3/29/2016	5/18/2016	7/19/2016	9/19/2016	11/29/2016	2/1/2017	3/29/2017	5/24/2017	10/11/2017	12/12/2017
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	-	-
Arsenic	mg/L	0.010	0.0007	0.0041	0.0500	0.0580	0.0600	0.014	0.0043	0.0059	-	-
Barium	mg/L	2.0	0.066	0.07	0.10	0.10	0.11	0.085	0.079	0.077	-	-
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-
Boron	mg/L	-	0.051	0.16	0.13	0.49	0.071	0.37	0.1	0.097	0.098	0.085
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-
Calcium	mg/L	-	63	85	70	73	69	61	87	88	76	70
Chloride	mg/L	250	7.9	14	51	54	47	58	11	28	45	45
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.028	<0.0011	-	-
Cobalt	mg/L	0.013	0.00310	0.00240	0.00200	0.00096	0.00065	0.001	0.0015	0.0041	-	-
Fluoride	mg/L	4.0	0.13	0.16	0.16	0.14	0.12	0.16	0.11	0.19	0.19	0.18
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	-	-
Lithium	mg/L	0.040	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	-	-
Mercury	mg/L	0.0020	<0.000070	<0.000070	0.000081	<0.000070	<0.000070	<0.000070	<0.000070	<0.000070	-	-
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	0.0011	-	-
Selenium	mg/L	0.050	0.0014	0.00046	0.00024	<0.00024	<0.00024	<0.00024	<0.00024	0.00056	-	-
Sulfate	mg/L	250	12	12	< 1.4	< 1.4	< 1.4	21	13	9.6	2.9	< 1.4
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	-	-
TDS	mg/L	500	210	270	330	320	300	300	290	280	280	290
Radium-226	pCi/L	-	0.098	0.104	0.091	0.220	0.102	-	0.063	0.081	-	-
Radium-228	pCi/L	-	0.108	-0.244	0.451	0.717	0.299	-	0.312	-0.134	-	-
Combined Radium	pCi/L	5	0.206	-0.139	0.542	0.937	0.401	-	0.375	-0.052	-	-

Monitoring Point Data Summary Table

Monitoring Point Data Summary Table												
SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-8				
INSTALLATION DATE:	10/16/13	WELL DEPTH (FT-BTOC):	37.68	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	32.91	WELL TYPE:	II		DIAMETER (IN):	2
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/18/2018	8/15/2018	4/7/2019	9/26/2019	3/26/2020	9/23/2020	4/21/2021	9/30/2021	4/27/2022	10/17/2022
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0098	0.0470	0.0016	0.0437	0.0081	0.0396	0.0157	0.0097	0.01960	0.0316
Barium	mg/L	2.0	0.063	0.100	0.055	0.086	0.070	0.093	0.095	0.089	0.125	0.109
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	0.25	0.13	0.13	0.086	0.133	0.128	0.2	0.093	0.165	0.111
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050
Calcium	mg/L	-	44	70	68	69	60.7	69.3	72.1	81.7	59.4	66.7
Chloride	mg/L	250	32	45	6	45	13	32	16	4.61	10.3	30.2
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Cobalt	mg/L	0.013	<0.00040	<0.00040	0.00250	<0.00100	0.00200	<0.001	0.002	0.002	0.001	<0.005
Fluoride	mg/L	4.0	0.19	0.22	0.17	0.18	0.38	0.23	0.2	0.267	0.291	<0.500
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050
Lithium	mg/L	0.040	<0.0011	0.0011	<0.0011	<0.005	<0.0250	<0.005	<0.0050	<0.0050	<0.0050	<0.0050
Mercury	mg/L	0.0020	<0.000070	<0.000070	<0.000070	<0.000200	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.00200	<0.00100	<0.001	<0.001	<0.001	0.001	0.001	<0.005
Selenium	mg/L	0.050	<0.00024	<0.00024	<0.00071	<0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	<1.4	<1.4	3.4	<1	6.32	<1.00	3.25	11	10.2	<4.00
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050
TDS	mg/L	500	200	320	190	270	241	250	229	256	202	320
Radium-226	pCi/L	-	-	0.311	0.056	0.663	1.230	0.055	0.111	-0.0636	0.195	0.145
Radium-228	pCi/L	-	-	0.123	0.000	0.902	0.908	0.014	1.08	0.920	0.333	0.193
Combined Radium	pCi/L	5	-	0.434	0.056	1.565	2.138	0.069	1.19	0.920	0.528	0.338

Monitoring Point Data Summary Table

Monitoring Point Data Summary Table											
SITE NAME:	Charles R. Lowman Power Plant			Location:	Leroy, Alabama			WELL ID:	MW-8		
INSTALLATION DATE:	10/16/13		WELL DEPTH (FT-BTOC):	37.68		SCREEN LENGTH (FT):	15.0		CASING ELEV (FT / MSL)	32.91	
	WELL TYPE:	II		DIAMETER (IN):	2						
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);											
			Sample Date								
Constituent	Units	GWPS	4/12/2023	10/23/2023							
Antimony	mg/L	0.006	<0.0010	<0.0010							
Arsenic	mg/L	0.010	0.0125	0.0360							
Barium	mg/L	2.0	0.072	0.098							
Beryllium	mg/L	0.004	<0.0010	<0.0010							
Boron	mg/L	-	0.26	0.123							
Cadmium	mg/L	0.005	<0.0010	<0.0010							
Calcium	mg/L	-	50	69.1							
Chloride	mg/L	250	13.8	23.8							
Chromium	mg/L	0.100	<0.001	<0.001							
Cobalt	mg/L	0.013	<0.001	<0.001							
Fluoride	mg/L	4.0	0.225	0.206							
Lead	mg/L	0.015	<0.0010	<0.0010							
Lithium	mg/L	0.040	<0.008	<0.004							
Mercury	mg/L	0.0020	<0.00020	<0.00020							
Molybdenum	mg/L	0.100	<0.001	<0.001							
Selenium	mg/L	0.050	<0.001	<0.001							
Sulfate	mg/L	250	<1.00	<1.00							
Thallium	mg/L	0.002	<0.0010	<0.0010							
TDS	mg/L	500	198	234							
Radium-226	pCi/L	-	-0.0711	0.117							
Radium-228	pCi/L	-	0.310	0.690							
Combined Radium	pCi/L	5	0.310	0.807							

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-9				
INSTALLATION DATE:	10/17/13	WELL DEPTH (FT-BTOC):	29.01	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	32.63	WELL TYPE:	II			
						DIAMETER (IN):	2					
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	3/29/2016	5/18/2016	7/19/2016	9/19/2016	11/29/2016	1/31/2017	3/28/2017	5/22/2017	10/9/2017	12/12/2017
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	-	-
Arsenic	mg/L	0.010	0.00094	0.0012	0.0013	0.0031	0.0031	0.00095	0.001	0.00084	-	-
Barium	mg/L	2.0	0.1	0.16	0.14	0.14	0.17	0.096	0.13	0.14	-	-
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-
Boron	mg/L	-	2.7	3.1	4.1	4.1	5.7	4.0	4.4	4.8	5.5	5.2
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-
Calcium	mg/L	-	61	76	82	110	180	160	150	190	190	200
Chloride	mg/L	250	66	78	120	180	390	300	140	310	310	300
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	-	-
Cobalt	mg/L	0.013	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	-	-
Fluoride	mg/L	4.0	0.12	0.12	0.12	0.11	0.090	0.10	0.09	0.1	0.12	0.13
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	-	-
Lithium	mg/L	0.040	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	-	-
Mercury	mg/L	0.0020	<0.000070	<0.000070	0.000083	<0.000070	<0.000070	<0.000070	<0.000070	<0.000070	-	-
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	-	-
Selenium	mg/L	0.050	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	-	-
Sulfate	mg/L	250	77	180	200	310	570	280	370	460	420	380
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	-	-
TDS	mg/L	500	430	530	760	920	1600	1100	1100	1300	1500	1600
Radium-226	pCi/L	-	0.286	0.394	0.449	0.516	0.399	-	0.291	0.194	-	-
Radium-228	pCi/L	-	0.363	0.588	0.622	0.500	1.150	-	0.317	0.420	-	-
Combined Radium	pCi/L	5	0.650	0.982	1.070	1.020	1.550	-	0.608	0.614	-	-

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-9				
INSTALLATION DATE:	10/17/13	WELL DEPTH (FT-BTOC):	29.01	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	32.63	WELL TYPE:	II		DIAMETER (IN):	2
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/17/2018	8/14/2018	4/10/2019	9/24/2019	3/26/2020	9/23/2020	4/21/2021	9/30/2021	4/25/2022	10/11/2022
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0100	<0.0100
Arsenic	mg/L	0.010	0.00094	0.00071	0.00066	<0.00500	0.0011	0.0016	<0.0010	0.0015	<0.0100	<0.0100
Barium	mg/L	2.0	0.094	0.14	0.071	0.088	0.071	0.080	0.081	0.063	0.066	0.055
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	<0.00500	<0.0010	<0.0010	<0.0010	<0.0010	<0.0100	<0.0100
Boron	mg/L	-	2.9	4.9	5.7	7.4	4.1	9.0	7.4	9.43	6.75	7.16
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	<0.00500	<0.0010	<0.0010	<0.0010	<0.0010	<0.0100	<0.0100
Calcium	mg/L	-	140	260	310	418	453	445	421	397	323	291
Chloride	mg/L	250	180	430	440	503	526	421	329	265	204	188
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0050	<0.005	<0.001	<0.001	<0.001	<0.010	<0.010
Cobalt	mg/L	0.013	<0.00040	<0.00040	<0.00040	<0.00500	<0.005	<0.001	<0.001	<0.001	<0.010	<0.010
Fluoride	mg/L	4.0	0.15	0.12	0.09	<0.125	<0.125	<0.125	0.2	<0.125	<0.125	0.139
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00500	<0.0010	<0.0010	<0.0050	<0.0010	<0.0100	<0.0100
Lithium	mg/L	0.040	<0.0011	<0.0011	<0.0011	<0.0050	<0.0250	<0.005	<0.0050	<0.0050	<0.0050	<0.0050
Mercury	mg/L	0.0020	<0.000070	<0.000070	<0.000070	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.0020	<0.0050	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010
Selenium	mg/L	0.050	0.00025	<0.00024	<0.00071	<0.00500	<0.001	<0.001	<0.001	<0.001	<0.010	<0.010
Sulfate	mg/L	250	230	720	790	1070	1100	975	865	881	726	767
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.005000	<0.0010	<0.0010	<0.0050	<0.0010	<0.0100	<0.0100
TDS	mg/L	500	720	1700	1900	2360	2300	2350	1850	1840	1450	1390
Radium-226	pCi/L	-	-	0.585	0.387	1.030	1.070	0.332	0.559	0.596	0.383	0.344
Radium-228	pCi/L	-	-	0.622	1.030	0.769	0.951	0.903	0.689	1.70	0.952	1.04
Combined Radium	pCi/L	5	-	1.210	1.420	1.800	2.021	1.240	1.25	2.30	1.34	1.38

Monitoring Point Data Summary Table

Monitoring Point Data Summary Table											
SITE NAME:	Charles R. Lowman Power Plant			Location:	Leroy, Alabama			WELL ID:	MW-9		
INSTALLATION DATE:	10/17/13		WELL DEPTH (FT-BTOC):	29.01		SCREEN LENGTH (FT):	15.0		CASING ELEV (FT / MSL)	32.63	
	WELL TYPE:	II		DIAMETER (IN):	2						
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);											
			Sample Date								
Constituent	Units	GWPS	4/11/2023	10/19/2023							
Antimony	mg/L	0.006	<0.0010	<0.0010							
Arsenic	mg/L	0.010	0.0011	0.0035							
Barium	mg/L	2.0	0.049	0.136							
Beryllium	mg/L	0.004	<0.0010	<0.0010							
Boron	mg/L	-	5.04	6.61							
Cadmium	mg/L	0.005	<0.0010	<0.0010							
Calcium	mg/L	-	132	253							
Chloride	mg/L	250	131	135							
Chromium	mg/L	0.100	<0.001	<0.001							
Cobalt	mg/L	0.013	<0.001	<0.001							
Fluoride	mg/L	4.0	0.14	<1.25							
Lead	mg/L	0.015	<0.0010	<0.0010							
Lithium	mg/L	0.040	<0.008	<0.004							
Mercury	mg/L	0.0020	<0.00020	<0.00020							
Molybdenum	mg/L	0.100	<0.001	<0.001							
Selenium	mg/L	0.050	<0.001	<0.001							
Sulfate	mg/L	250	602	411							
Thallium	mg/L	0.002	<0.0010	<0.0010							
TDS	mg/L	500	1200	1130							
Radium-226	pCi/L	-	0.605	2.65							
Radium-228	pCi/L	-	0.755	0.800							
Combined Radium	pCi/L	5	1.360	3.45							

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-10				
INSTALLATION DATE:	10/17/13	WELL DEPTH (FT-BTOC):	41.46	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	34.14	WELL TYPE:	II		DIAMETER (IN):	2
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	3/29/2016	5/18/2016	7/19/2016	9/19/2016	11/29/2016	2/1/2017	3/29/2017	5/24/2017	10/11/2017	12/13/2017
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	-	-
Arsenic	mg/L	0.010	0.00054	0.00063	<0.00046	<0.00046	<0.00046	<0.00046	<0.00046	<0.00046	-	-
Barium	mg/L	2.0	0.03	0.024	0.038	0.033	0.028	0.039	0.032	0.041	-	-
Beryllium	mg/L	0.004	0.0016	0.0017	0.0016	0.0018	0.0012	0.0019	0.0016	0.0021	-	-
Boron	mg/L	-	0.35	0.41	0.34	0.26	0.39	0.69	0.41	0.48	0.40	0.35
Cadmium	mg/L	0.005	0.0019	0.0023	0.0013	0.0012	0.0006	0.0018	0.00097	0.00072	-	-
Calcium	mg/L	-	110	130	94	110	90	150	94	110	94	100
Chloride	mg/L	250	110	100	100	110	91	150	93	100	86	75
Chromium	mg/L	0.100	<0.0011	0.0014	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	-	-
Cobalt	mg/L	0.013	0.0087	0.0086	0.0110	0.0097	0.0077	0.0096	0.0073	0.0058	-	-
Fluoride	mg/L	4.0	0.06	0.06	0.070	0.060	0.040	0.06	0.05	0.08	0.06	0.09
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	-	-
Lithium	mg/L	0.040	0.017	0.016	0.013	0.019	0.013	0.015	0.015	0.013	-	-
Mercury	mg/L	0.0020	<0.000070	<0.000070	0.000084	<0.000070	<0.000070	<0.000070	<0.000070	<0.000070	-	-
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	-	-
Selenium	mg/L	0.050	0.0064	0.0078	0.0029	0.0022	0.0015	0.0035	0.002	0.0023	-	-
Sulfate	mg/L	250	250	250	190	260	260	270	240	250	230	220
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	-	-
TDS	mg/L	500	550	650	590	590	570	750	560	570	520	560
Radium-226	pCi/L	-	0.180	0.132	0.199	0.268	0.143	-	0.023	0.118	-	-
Radium-228	pCi/L	-	0.099	0.299	0.585	-0.146	0.346	-	0.289	0.138	-	-
Combined Radium	pCi/L	5	0.279	0.431	0.748	0.122	0.489	-	0.312	0.256	-	-

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama		WELL ID:	MW-10					
INSTALLATION DATE:	10/17/13	WELL DEPTH (FT-BTOC):	41.46	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	34.14	WELL TYPE:	II			
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/19/2018	8/14/2018	4/9/2019	9/26/2019	3/25/2020	9/23/2020	4/20/2021	9/30/2021	4/27/2022	10/13/2022
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.00054	<0.00046	<0.00046	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium	mg/L	2.0	0.034	0.03	0.034	0.029	0.028	0.032	0.026	0.024	0.023	0.03
Beryllium	mg/L	0.004	0.0016	0.00068	0.00082	<0.00100	0.001	<0.0010	0.0015	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	0.57	0.36	0.53	0.39	0.54	0.41	0.8	0.531	0.646	0.392
Cadmium	mg/L	0.005	0.0011	0.00067	0.00084	<0.00100	0.0014	<0.0010	0.0018	<0.0010	0.0015	<0.0010
Calcium	mg/L	-	100	87	78	79	114	86	140	76.5	112	72.9
Chloride	mg/L	250	110	71	68	73	91	74	111	60.9	101	69.3
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0010	<0.001	0.003	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.0076	0.0047	0.0047	0.0038	0.0060	0.0040	0.006	0.003	0.006	0.0030
Fluoride	mg/L	4.0	0.07	0.07	0.06	<0.125	0.236	<0.125	<0.125	<0.125	0.282	<0.125
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00100	<0.0010	0.0014	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.021	0.016	0.012	0.0149	<0.0250	0.0155	0.019	0.0113	0.016	0.0141
Mercury	mg/L	0.0020	<0.000070	<0.000070	<0.000070	<0.000200	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.00200	<0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	0.0025	0.0019	0.0030	0.0021	0.0010	0.0020	0.003	0.003	0.003	0.001
Sulfate	mg/L	250	290	200	210	386	397	234	389	210	346	208
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.001000	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	670	490	460	458	642	469	779	445	708	452
Radium-226	pCi/L	-	-	0.334	0.092	0.664	1.230	0.391	-0.134	-0.0307	0.103	-0.209
Radium-228	pCi/L	-	-	0.089	0.165	0.699	0.959	0.094	0.253	0.317	0.423	0.474
Combined Radium	pCi/L	5	-	0.423	0.257	1.363	2.189	0.485	0.253	0.317	0.526	0.474

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama		WELL ID:	MW-10			
INSTALLATION DATE:	10/17/13	WELL DEPTH (FT-BTOC):	41.46	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL):	34.14	WELL TYPE: DIAMETER (IN):	II 2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

Constituent	Units	GWPS	Sample Date								
			4/12/2023	10/18/2023							
Antimony	mg/L	0.006	<0.0010	<0.0010							
Arsenic	mg/L	0.010	<0.0010	<0.0010							
Barium	mg/L	2.0	0.03	0.035							
Beryllium	mg/L	0.004	<0.0010	<0.0010							
Boron	mg/L	-	0.537	0.355							
Cadmium	mg/L	0.005	<0.0010	<0.0010							
Calcium	mg/L	-	90.9	67.7							
Chloride	mg/L	250	83.4	60.9							
Chromium	mg/L	0.100	<0.001	<0.001							
Cobalt	mg/L	0.013	0.004	0.002							
Fluoride	mg/L	4.0	<0.125	<0.125							
Lead	mg/L	0.015	<0.0010	<0.0010							
Lithium	mg/L	0.040	0.016	0.0156							
Mercury	mg/L	0.0020	<0.00020	<0.00020							
Molybdenum	mg/L	0.100	<0.001	<0.001							
Selenium	mg/L	0.050	0.001	0.001							
Sulfate	mg/L	250	296	197							
Thallium	mg/L	0.002	<0.0010	<0.0010							
TDS	mg/L	500	563	378							
Radium-226	pCi/L	-	0.450	2.89							
Radium-228	pCi/L	-	0.533	0.421							
Combined Radium	pCi/L	5	0.983	3.31							

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-11				
INSTALLATION DATE:	10/17/13	WELL DEPTH (FT-BTOC):	43.1	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	45.29	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	3/29/2016	5/18/2016	7/19/2016	9/19/2016	11/29/2016	2/2/2017	3/29/2017	5/24/2017	10/10/2017	12/12/2017
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	-	-
Arsenic	mg/L	0.010	<0.00046	0.0030	0.0031	0.0037	0.0028	0.0035	0.0029	0.0032	-	-
Barium	mg/L	2.0	0.039	0.02	0.022	0.026	0.022	0.024	0.025	0.025	-	-
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-
Boron	mg/L	-	0.95	14.0	12.0	11.0	13.0	7.8	6.0	5.7	7.8	8.7
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-
Calcium	mg/L	-	140	650	540	600	430	330	350	370	580	660
Chloride	mg/L	250	83	390	340	510	390	290	340	310	460	440
Chromium	mg/L	0.100	0.0018	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	-	-
Cobalt	mg/L	0.013	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	-	-
Fluoride	mg/L	4.0	0.05	1.6	1.8	1.8	1.7	2.4	2.2	2.2	2.1	2.0
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	-	-
Lithium	mg/L	0.040	<0.0032	0.075	0.065	0.100	0.079	0.062	0.067	0.062	-	-
Mercury	mg/L	0.0020	<0.000070	<0.000070	0.000086	<0.000070	<0.000070	<0.000070	0.000075	<0.000070	-	-
Molybdenum	mg/L	0.100	0.0013	0.190	0.210	0.220	0.220	0.260	0.240	0.230	-	-
Selenium	mg/L	0.050	0.0014	<0.00024	<0.00024	0.00036	<0.00024	<0.00024	<0.00024	<0.00024	-	-
Sulfate	mg/L	250	230	990	770	1200	830	550	700	680	920	910
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	-	-
TDS	mg/L	500	620	2800	2700	3300	2400	1700	1600	1700	2800	2700
Radium-226	pCi/L	-	0.152	0.287	0.242	0.219	0.605	-	0.082	0.118	-	-
Radium-228	pCi/L	-	0.101	0.837	0.633	0.860	0.637	-	1.060	0.567	-	-
Combined Radium	pCi/L	5	0.253	1.120	0.875	1.080	1.240	-	1.140	0.684	-	-

Monitoring Point Data Summary Table

Monitoring Point Data Summary Table													
SITE NAME:	Charles R. Lowman Power Plant			Location:	Leroy, Alabama			WELL ID:	MW-11				
INSTALLATION DATE:	10/17/13		WELL DEPTH (FT-BTOC):	43.1		SCREEN LENGTH (FT):	15.0		CASING ELEV (FT / MSL)	45.29		WELL TYPE:	II
												DIAMETER (IN):	2
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);													
			Sample Date										
Constituent	Units	GWPS	4/18/2018	8/15/2018	4/9/2019	6/5/2019	9/26/2019	3/25/2020	9/24/2020	4/20/2021	10/1/2021	4/27/2022	
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Arsenic	mg/L	0.010	0.0037	0.0029	0.0033	-	<0.0050	0.003	0.0035	0.0028	0.00330	0.0025	
Barium	mg/L	2.0	0.024	0.029	0.030	-	0.049	0.034	0.031	0.025	0.028	0.027	
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	-	<0.00500	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Boron	mg/L	-	8.0	6.3	8.6	-	13.4	12.8	9.1	7.52	7.19	5.92	
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	-	<0.00500	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Calcium	mg/L	-	470	250	390	-	623	507	326	267	243	198	
Chloride	mg/L	250	320	170	310	-	399	278	144	92.1	76	59	
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	-	<0.0050	<0.001	0.001	<0.001	<0.001	<0.001	
Cobalt	mg/L	0.013	<0.00040	<0.00040	<0.00040	-	<0.00500	<0.001	<0.001	<0.001	<0.001	<0.001	
Fluoride	mg/L	4.0	2	2.5	1.9	-	1.9	1.7	1.9	1.9	2.24	2.01	
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	-	<0.00500	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
Lithium	mg/L	0.040	0.0780	0.052	0.058	0.064	0.0746	0.0668	0.0543	0.0499	0.052	0.0419	
Mercury	mg/L	0.0020	<0.000070	<0.000070	<0.000070	-	<0.000200	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	
Molybdenum	mg/L	0.100	0.180	0.180	0.140	0.130	0.139	0.141	0.143	0.109	0.115	0.098	
Selenium	mg/L	0.050	<0.00024	<0.00024	<0.00071	-	<0.00500	<0.001	<0.001	<0.001	<0.001	<0.001	
Sulfate	mg/L	250	780	470	690	-	1330	1000	590	460	427	375	
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	-	<0.005000	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	
TDS	mg/L	500	2100	1300	1900	-	2840	2130	1400	1080	968	848	
Radium-226	pCi/L	-	-	0.266	0.158	-	0.497	0.756	0.389	-0.0747	0.0504	0.313	
Radium-228	pCi/L	-	-	0.588	0.521	-	1.090	0.566	0.147	0.558	1.61	-0.0160	
Combined Radium	pCi/L	5	-	0.855	0.679	-	1.587	1.322	0.536	0.558	1.66	0.313	

Monitoring Point Data Summary Table

Monitoring Point Data Summary Table											
SITE NAME:	Charles R. Lowman Power Plant			Location:	Leroy, Alabama			WELL ID:	MW-11		
INSTALLATION DATE:	10/17/13		WELL DEPTH (FT-BTOC):	43.1		SCREEN LENGTH (FT):	15.0		CASING ELEV (FT / MSL)	45.29	
	WELL TYPE:	II		DIAMETER (IN):	2						
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);											
			Sample Date								
Constituent	Units	GWPS	10/17/2022	4/12/2023	10/18/2023						
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010						
Arsenic	mg/L	0.010	0.0025	0.0028	0.0022						
Barium	mg/L	2.0	0.038	0.036	0.045						
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010						
Boron	mg/L	-	4.4	1.05	3.31						
Cadmium	mg/L	0.005	<0.0050	<0.0010	<0.0010						
Calcium	mg/L	-	146	185	131						
Chloride	mg/L	250	28.2	33.8	14.8						
Chromium	mg/L	0.100	<0.005	<0.001	<0.001						
Cobalt	mg/L	0.013	<0.005	<0.001	<0.001						
Fluoride	mg/L	4.0	2.03	1.74	1.93						
Lead	mg/L	0.015	<0.0050	<0.0010	<0.0010						
Lithium	mg/L	0.040	0.0516	0.043	0.0567						
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020						
Molybdenum	mg/L	0.100	0.097	0.092	0.092						
Selenium	mg/L	0.050	<0.001	<0.001	<0.001						
Sulfate	mg/L	250	262	260	169						
Thallium	mg/L	0.002	<0.0050	<0.0010	<0.0010						
TDS	mg/L	500	622	634	516						
Radium-226	pCi/L	-	0.301	0.325	1.230						
Radium-228	pCi/L	-	0.588	1.53	0.646						
Combined Radium	pCi/L	5	0.889	1.86	1.880						

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-12				
INSTALLATION DATE:	10/18/13	WELL DEPTH (FT-BTOC):	38.42	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	43.31	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	3/29/2016	5/18/2016	7/19/2016	9/19/2016	11/29/2016	2/1/2017	3/30/2017	5/25/2017	10/10/2017	4/19/2018
Antimony	mg/L	0.006	<0.001	<0.001	Dry	Dry	Dry	<0.0010	<0.0010	<0.0010	Dry	<0.0010
Arsenic	mg/L	0.010	0.0027	<0.00046	-	-	-	<0.00046	<0.00046	<0.00046	-	0.00053
Barium	mg/L	2.0	0.021	0.030	-	-	-	0.048	0.033	0.033	-	0.037
Beryllium	mg/L	0.004	<0.00034	<0.00034	-	-	-	<0.00034	<0.00034	<0.00034	-	<0.00034
Boron	mg/L	-	12	1.2	-	-	-	0.77	0.58	0.88	-	1.3
Cadmium	mg/L	0.005	<0.00034	<0.00034	-	-	-	<0.00034	<0.00034	<0.00034	-	0.0011
Calcium	mg/L	-	600	140	-	-	-	110	94	120	-	140
Chloride	mg/L	250	520	80	-	-	-	89	73	93	-	130
Chromium	mg/L	0.100	<0.0011	0.0028	-	-	-	<0.0011	0.0013	0.0023	-	<0.0011
Cobalt	mg/L	0.013	<0.00040	<0.00040	-	-	-	<0.00040	<0.00040	<0.00040	-	0.00062
Fluoride	mg/L	4.0	1.5	0.040	-	-	-	0.04	0.04	0.05	-	0.04
Lead	mg/L	0.015	<0.00035	<0.00035	-	-	-	<0.00035	<0.00035	<0.00035	-	<0.00035
Lithium	mg/L	0.040	0.1	0.0034	-	-	-	<0.0032	0.0035	0.0053	-	0.0200
Mercury	mg/L	0.0020	<0.000070	<0.000070	-	-	-	<0.000070	<0.000070	<0.000070	-	<0.000070
Molybdenum	mg/L	0.100	0.18	0.0011	-	-	-	<0.00085	0.0023	<0.00085	-	0.0016
Selenium	mg/L	0.050	0.00025	0.0042	-	-	-	0.00046	0.00024	<0.00024	-	0.00027
Sulfate	mg/L	250	870	250	-	-	-	180	180	210	-	250
Thallium	mg/L	0.002	<0.000085	<0.000085	-	-	-	<0.000085	<0.000085	<0.000085	-	<0.000085
TDS	mg/L	500	2700	690	-	-	-	530	460	560	-	800
Radium-226	pCi/L	-	0.313	0.125	-	-	-	-	0.051	0.092	-	-
Radium-228	pCi/L	-	0.481	0.245	-	-	-	-	0.029	0.230	-	-
Combined Radium	pCi/L	5	0.794	0.369	-	-	-	-	0.081	0.322	-	-

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-12				
INSTALLATION DATE:	10/18/13	WELL DEPTH (FT-BTOC):	38.42	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	43.31	WELL TYPE:	II			
								DIAMETER (IN):	2			
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	8/13/2018	4/9/2019	9/26/2019	3/24/2020	9/24/2020	4/21/2021	10/1/2021	4/25/2022	4/25/2022	4/18/2023
Antimony	mg/L	0.006	Dry	<0.0010	Dry	<0.0010	Dry	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	-	<0.00046	-	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium	mg/L	2.0	-	0.027	-	0.032	-	0.035	0.026	0.029	0.029	0.035
Beryllium	mg/L	0.004	-	<0.00034	-	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	-	1.3	-	0.698	-	0.46	0.6	0.343	0.343	0.572
Cadmium	mg/L	0.005	-	0.00037	-	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	-	120	-	141	-	112	107	100	100	139
Chloride	mg/L	250	-	110	-	84.9	-	49	57	47.8	47.8	26.6
Chromium	mg/L	0.100	-	<0.0011	-	<0.001	-	0.001	0.001	0.001	0.001	0.001
Cobalt	mg/L	0.013	-	<0.00040	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001
Fluoride	mg/L	4.0	-	0.05	-	<0.125	-	<0.125	<0.125	<0.125	<0.125	<0.125
Lead	mg/L	0.015	-	<0.00035	-	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	-	0.0074	-	0.00916	-	0.00582	<0.0050	0.00549	0.005	<0.008
Mercury	mg/L	0.0020	-	<0.000070	-	<0.00020	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	-	<0.0020	-	<0.001	-	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	-	<0.00071	-	<0.001	-	<0.001	0.001	0.002	0.002	0.008
Sulfate	mg/L	250	-	250	-	385	-	225	236	197	197	297
Thallium	mg/L	0.002	-	<0.000085	-	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	-	660	-	716	-	640	524	516	516	606
Radium-226	pCi/L	-	-	0.070	-	1.060	-	-0.112	-0.197	0.374	0.374	0.171
Radium-228	pCi/L	-	-	0.157	-	0.643	-	0.938	1.49	0.230	0.230	0.234
Combined Radium	pCi/L	5	-	0.228	-	1.703	-	0.938	1.49	0.604	0.604	0.405

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-12A				
INSTALLATION DATE:	08/02/16	WELL DEPTH (FT-BTOC):	46.31	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	43.39	WELL TYPE:	II			
							DIAMETER (IN):		2			
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	8/4/2016	9/19/2016	11/29/2016	2/1/2017	3/30/2017	5/25/2017	10/10/2017	12/13/2017	4/19/2018	8/14/2018
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	-	-	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.00051	<0.00046	<0.00046	<0.00046	<0.00046	<0.00046	-	-	0.00068	<0.00046
Barium	mg/L	2.0	0.033	0.025	0.026	0.076	0.046	0.037	-	-	0.055	0.028
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-	<0.00034	<0.00034
Boron	mg/L	-	0.75	0.75	0.97	1.3	0.59	0.68	0.83	0.7	2.4	0.78
Cadmium	mg/L	0.005	0.00072	0.00061	0.00077	0.00068	<0.00034	0.00069	-	-	0.00110	0.00047
Calcium	mg/L	-	170	160	150	130	92	110	120	120	190	110
Chloride	mg/L	250	91	91	98	120	74	90	83	77	180	91
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	0.0011	-	-	<0.0011	0.0018
Cobalt	mg/L	0.013	0.0065	0.0038	0.0044	0.0110	0.0042	0.0028	-	-	0.0340	0.0026
Fluoride	mg/L	4.0	0.04	0.04	<0.032	0.04	0.04	0.05	0.04	0.045	0.05	0.05
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	-	-	<0.00035	<0.00035
Lithium	mg/L	0.040	<0.0032	0.0034	0.0037	0.0170	0.0064	0.0061	-	-	0.045	0.0084
Mercury	mg/L	0.0020	<0.000070	<0.000070	<0.000070	<0.000070	0.000073	<0.000070	-	-	<0.000070	<0.000070
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	0.00088	-	-	<0.00085	0.00190
Selenium	mg/L	0.050	0.012	0.0077	0.0083	0.00037	<0.00024	0.002	-	-	0.00046	0.00091
Sulfate	mg/L	250	310	330	350	200	170	210	230	220	320	210
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	-	-	0.0001	<0.000085
TDS	mg/L	500	810	750	770	670	460	550	620	630	900	520
Radium-226	pCi/L	-	0.156	0.108	0.002	-	0.060	SD	-	-	-	0.282
Radium-228	pCi/L	-	0.251	0.243	0.206	-	0.340	SD	-	-	-	0.142
Combined Radium	pCi/L	5	0.406	0.351	0.208	-	0.400	SD	-	-	-	0.424

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama			WELL ID:	MW-12A				
INSTALLATION DATE:	08/02/16	WELL DEPTH (FT-BTOC):	46.31	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	43.39	WELL TYPE:		II	
								DIAMETER (IN):		2	

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

Constituent	Units	GWPS	Sample Date								
			4/9/2019	9/26/2019	3/24/2020	9/24/2020	4/21/2021	10/1/2021	4/26/2022	4/18/2023	10/17/2023
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	<0.00046	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	0.0597	<0.0010	<0.0010
Barium	mg/L	2.0	0.028	0.028	0.036	0.032	0.037	0.027	0.274	0.028	0.03
Beryllium	mg/L	0.004	<0.00034	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	1.3	0.67	0.65	0.66	0.43	0.56	0.5	0.414	0.57
Cadmium	mg/L	0.005	0.00056	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	110	109	141	99.7	97	95	115	90.5	105
Chloride	mg/L	250	110	84	85	77	67	74	46	58	48.5
Chromium	mg/L	0.100	<0.0011	0.00117	<0.001	0.002	<0.001	0.001	<0.001	<0.001	0.001
Cobalt	mg/L	0.013	0.0074	0.0032	0.0040	<0.001	0.0010	<0.001	0.013	<0.001	<0.001
Fluoride	mg/L	4.0	0.05	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125
Lead	mg/L	0.015	<0.00035	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.014	0.0087	<0.0250	0.0076	0.00869	0.00683	0.006	<0.008	0.005
Mercury	mg/L	0.0020	<0.000070	<0.000200	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.0020	<0.00100	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001
Selenium	mg/L	0.050	<0.00071	0.00206	<0.001	0.002	<0.001	<0.001	0.001	0.001	0.005
Sulfate	mg/L	250	240	261	395	232	211	241	190	211	247
Thallium	mg/L	0.002	<0.000085	<0.001000	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	660	557	717	538	575	242	460	447	518
Radium-226	pCi/L	-	0.079	0.588	0.812	0.056	0.0629	0.0106	0.0501	0.797	-0.191
Radium-228	pCi/L	-	0.350	0.869	0.759	-0.308	0.237	0.415	0.208	0.623	0.290
Combined Radium	pCi/L	5	0.429	1.457	1.571	0.056	0.300	0.426	0.258	1.42	0.290

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-13				
INSTALLATION DATE:	04/07/16	WELL DEPTH (FT-BTOC):	29.25	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	42.26	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	3/29/2016	5/18/2016	7/19/2016	9/19/2016	11/29/2016	1/30/2017	3/27/2017	5/22/2017	10/10/2017	12/12/2017
Antimony	mg/L	0.006	Dry	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	-	-
Arsenic	mg/L	0.010	-	0.00074	0.00074	0.00067	0.00088	0.00088	0.00083	0.00078	-	-
Barium	mg/L	2.0	-	0.11	0.057	0.059	0.091	0.12	0.11	0.08	-	-
Beryllium	mg/L	0.004	-	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-
Boron	mg/L	-	-	1.4	0.97	0.79	1.4	0.8	1.1	1.1	0.55	0.41
Cadmium	mg/L	0.005	-	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-
Calcium	mg/L	-	-	120	72	63	100	130	110	90	72	73
Chloride	mg/L	250	-	44	34	36	170	130	74	39	13	13
Chromium	mg/L	0.100	-	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	-	-
Cobalt	mg/L	0.013	-	0.00078	0.00048	0.00061	0.00088	0.00053	0.00072	<0.00040	-	-
Fluoride	mg/L	4.0	-	0.070	0.080	0.080	0.060	0.06	0.07	0.09	0.1	0.11
Lead	mg/L	0.015	-	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	-	-
Lithium	mg/L	0.040	-	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	-	-
Mercury	mg/L	0.0020	-	<0.000070	0.000083	<0.000070	<0.000070	<0.000070	0.000091	<0.000070	-	-
Molybdenum	mg/L	0.100	-	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	0.0051	<0.00085	-	-
Selenium	mg/L	0.050	-	0.00074	0.00027	0.00086	0.0016	0.0009	0.0035	0.0003	-	-
Sulfate	mg/L	250	-	230	130	90	120	170	160	120	63	58
Thallium	mg/L	0.002	-	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	-	-
TDS	mg/L	500	-	520	370	310	740	570	480	350	250	270
Radium-226	pCi/L	-	-	0.194	0.086	0.166	0.268	-	0.119	0.107	-	-
Radium-228	pCi/L	-	-	0.209	0.657	0.192	0.774	-	0.187	0.244	-	-
Combined Radium	pCi/L	5	-	0.403	0.743	0.358	1.040	-	0.306	0.351	-	-

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-13				
INSTALLATION DATE:	04/07/16	WELL DEPTH (FT-BTOC):	29.25	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	42.26	WELL TYPE:	II			
								DIAMETER (IN):	2			
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/18/2018	8/15/2018	4/9/2019	9/23/2019	3/25/2020	9/21/2020	4/19/2021	9/28/2021	5/2/2022	10/18/2022
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	Dry	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0028	<0.00046	0.00082	<0.0010	0.0027	-	0.0021	0.0018	0.00170	0.003
Barium	mg/L	2.0	0.067	0.08	0.068	0.075	0.097	-	0.092	0.111	0.095	0.085
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	<0.00100	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	0.31	0.46	0.36	0.58	0.237	-	0.3	0.346	1	0.682
Cadmium	mg/L	0.005	<0.00034	<0.00034	<0.00034	<0.00100	<0.0100	-	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	48	60	50	47	60	-	57.9	62.5	52.6	49.9
Chloride	mg/L	250	7.2	10	5.6	15	2.49	-	5	1.82	2.18	2.82
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0010	0.001	-	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	<0.00040	<0.00040	<0.00040	<0.00100	<0.001	-	<0.001	<0.001	<0.001	<0.001
Fluoride	mg/L	4.0	0.11	0.13	0.100	0.132	0.152	-	<0.125	0.203	<0.125	<0.125
Lead	mg/L	0.015	<0.00035	0.00088	<0.00035	<0.00100	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	<0.0011	<0.0011	<0.0011	<0.0050	<0.0250	-	<0.0050	<0.0050	<0.0050	<0.0050
Mercury	mg/L	0.0020	<0.000070	<0.000070	<0.000070	<0.000200	<0.00020	-	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.0020	<0.0010	<0.001	-	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	0.0014	0.00088	0.00076	<0.00100	0.001	-	0.003	0.002	0.001	<0.001
Sulfate	mg/L	250	41	49	32	42	42	-	48.1	47	46.9	30.9
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.00100	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	170	200	200	210	222	-	204	559	174	187
Radium-226	pCi/L	-	-	0.395	0.180	0.753	0.933	-	0.396	0.447	0.449	0.381
Radium-228	pCi/L	-	-	-0.077	0.194	0.865	0.571	-	0.371	1.19	0.699	-0.0108
Combined Radium	pCi/L	5	-	0.318	0.374	1.620	1.504	-	0.767	1.64	1.15	0.381

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-13A				
INSTALLATION DATE:	03/20/19	WELL DEPTH (FT-BTOC):	62.9	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT / MSL)	41.61	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/8/2019	8/1/2019	9/23/2019	11/18/2019	1/30/2020	3/25/2020	6/23/2020	9/21/2020	4/19/2021	9/28/2021
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0069	0.0123	0.0113	0.00988	0.0112	0.0132	0.0134	0.0105	0.0092	0.0103
Barium	mg/L	2.0	0.12	0.158	0.171	0.176	0.183	0.2	0.187	0.191	0.183	0.169
Beryllium	mg/L	0.004	<0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	0.022	0.0128	0.0187	0.0145	0.0133	0.024	0.023	0.012	0.02	0.03
Cadmium	mg/L	0.005	<0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	16	23	21	22	23	25	24	23	26.8	28.5
Chloride	mg/L	250	27	37	42	47	48	50	50	50	55.8	56.5
Chromium	mg/L	0.100	<0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.011	0.0116	0.0113	0.012	0.0116	0.013	0.012	0.01	0.01	0.011
Fluoride	mg/L	4.0	0.060	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125
Lead	mg/L	0.015	<0.00035	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.0050	<0.0050	0.0062	0.0051	0.0085	<0.0250	0.0064	0.0066	0.00673	0.0062
Mercury	mg/L	0.0020	<0.000070	<0.00020	<0.00020	<0.00020	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	<0.00071	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	54	83.3	76	81.2	85.7	89.6	72.6	72.8	75	86.5
Thallium	mg/L	0.002	<0.000085	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	190	264	289	236	278	266	287	242	312	340
Radium-226	pCi/L	-	0.205	0.278	0.889	0.559	0.059	0.670	0.767	0.468	0.234	0.501
Radium-228	pCi/L	-	0.128	0.871	0.849	0.864	0.371	0.588	0.706	0.837	0.761	1.32
Combined Radium	pCi/L	5	0.333	1.149	1.740	1.420	0.430	1.258	1.470	1.310	0.995	1.82

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama			WELL ID:	MW-13A		
INSTALLATION DATE:	03/20/19	WELL DEPTH (FT-BTOC):	62.9	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT / MSL):	41.61	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

Constituent	Units	GWPS	Sample Date									
			4/27/2022	10/17/2022	4/11/2023	10/17/2023						
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010						
Arsenic	mg/L	0.010	0.0092	0.0071	0.0081	0.0081						
Barium	mg/L	2.0	0.182	0.165	0.151	0.172						
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010						
Boron	mg/L	-	0.028	0.0320	0.068	0.123						
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010						
Calcium	mg/L	-	27.5	25	27.6	31						
Chloride	mg/L	250	60.9	65	71	75						
Chromium	mg/L	0.100	0.001	<0.005	<0.001	<0.001						
Cobalt	mg/L	0.013	0.011	0.012	0.011	0.012						
Fluoride	mg/L	4.0	<0.125	<0.125	<0.125	<0.125						
Lead	mg/L	0.015	<0.0010	<0.0050	<0.0010	<0.0010						
Lithium	mg/L	0.040	0.0062	0.00762	0.00949	0.0079						
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020						
Molybdenum	mg/L	0.100	<0.001	<0.001	<0.001	<0.001						
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001						
Sulfate	mg/L	250	80.7	91	91.3	92.7						
Thallium	mg/L	0.002	<0.0010	<0.0050	<0.0010	<0.0010						
TDS	mg/L	500	323	339	308	314						
Radium-226	pCi/L	-	0.220	0.403	0.073	1.01						
Radium-228	pCi/L	-	0.481	0.507	0.258	0.785						
Combined Radium	pCi/L	5	0.701	0.910	0.331	1.80						

Monitoring Point Data Summary Table

SITE NAME:		Charles R. Lowman Power Plant		Location:		Leroy, Alabama		WELL ID:		MW-14									
INSTALLATION DATE:		04/07/16		WELL DEPTH (FT-BTOC):		29.48		SCREEN LENGTH (FT):		15.0		CASING ELEV (FT / MSL)		38.56		WELL TYPE:		II	
												DIAMETER (IN):		2					
			Sample Date																
Constituent	Units	GWPS	3/29/2016	5/18/2016	7/19/2016	9/19/2016	11/29/2016	1/31/2017	3/29/2017	5/23/2017	10/10/2017	4/17/2018							
Antimony	mg/L	0.006	-	<0.0010	Dry	Dry	Dry	<0.0010	<0.0010	<0.0010	Dry	<0.0010							
Arsenic	mg/L	0.010	-	0.200	-	-	-	0.0008	0.0012	0.0013	-	0.017							
Barium	mg/L	2.0	-	0.29	-	-	-	0.21	0.063	0.12	-	0.23							
Beryllium	mg/L	0.004	-	<0.00034	-	-	-	0.00075	0.00053	<0.00034	-	<0.00034							
Boron	mg/L	-	-	0.320	-	-	-	3.4	3.6	1.4	-	1.7							
Cadmium	mg/L	0.005	-	<0.00034	-	-	-	0.0026	0.0015	0.0012	-	<0.00034							
Calcium	mg/L	-	-	94	-	-	-	160	160	100	-	180							
Chloride	mg/L	250	-	70	-	-	-	190	190	110	-	140							
Chromium	mg/L	0.100	-	<0.0011	-	-	-	<0.0011	<0.0011	<0.0011	-	<0.0011							
Cobalt	mg/L	0.013	-	0.0022	-	-	-	0.26	0.35	0.14	-	0.055							
Fluoride	mg/L	4.0	-	0.22	-	-	-	0.04	<0.032	0.06	-	0.15							
Lead	mg/L	0.015	-	<0.00035	-	-	-	<0.00035	<0.00035	<0.00035	-	<0.00035							
Lithium	mg/L	0.040	-	<0.0032	-	-	-	0.0035	<0.0032	<0.0032	-	<0.0011							
Mercury	mg/L	0.0020	-	<0.000070	-	-	-	<0.000070	<0.000070	<0.000070	-	<0.000070							
Molybdenum	mg/L	0.100	-	<0.00085	-	-	-	<0.00085	<0.00085	<0.00085	-	<0.00085							
Selenium	mg/L	0.050	-	0.0011	-	-	-	<0.00024	<0.00024	<0.00024	-	0.00085							
Sulfate	mg/L	250	-	<1.4	-	-	-	260	440	170	-	260							
Thallium	mg/L	0.002	-	<0.000085	-	-	-	0.00015	0.00014	0.00013	-	<0.000085							
TDS	mg/L	500	-	470	-	-	-	870	1100	580	-	970							
Radium-226	pCi/L	-	-	0.335	-	-	-	-	0.239	0.264	-	-							
Radium-228	pCi/L	-	-	0.692	-	-	-	-	0.263	0.111	-	-							
Combined Radium	pCi/L	5	-	1.030	-	-	-	-	0.502	0.375	-	-							

Monitoring Point Data Summary Table

Monitoring Point Data Summary Table												
SITE NAME:	Charles R. Lowman Power Plant			Location:	Leroy, Alabama			WELL ID:	MW-14			
INSTALLATION DATE:	04/07/16	WELL DEPTH (FT-BTOC):	29.48	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL):	38.56	WELL TYPE:	II			
								DIAMETER (IN):	2			
			Sample Date									
Constituent	Units	GWPS	8/13/2018	4/10/2019	6/5/2019	9/26/2019	3/24/2020	9/24/2020	4/22/2021	9/29/2021	4/26/2022	4/13/2023
Antimony	mg/L	0.006	Dry	<0.0010	-	Dry	<0.0010	Dry	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	-	0.017	0.019	-	0.0072	-	0.0132	0.0368	0.06350	0.014
Barium	mg/L	2.0	-	0.19	-	-	0.169	-	0.238	0.292	0.282	0.111
Beryllium	mg/L	0.004	-	<0.00034	-	-	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	-	0.77	-	-	0.92	-	0.7	0.352	0.544	1.12
Cadmium	mg/L	0.005	-	<0.00034	-	-	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	-	150	-	-	258	-	126	108	119	102
Chloride	mg/L	250	-	75	-	-	72.2	-	57	26.1	43.5	78.1
Chromium	mg/L	0.100	-	<0.0011	-	-	<0.001	-	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	-	0.043	-	-	0.052	-	0.025	0.014	0.014	0.059
Fluoride	mg/L	4.0	-	0.19	-	-	0.194	-	<0.125	0.178	0.186	<0.125
Lead	mg/L	0.015	-	<0.00035	-	-	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	-	0.0015	-	-	<0.0250	-	<0.0050	<0.0050	<0.0050	<0.008
Mercury	mg/L	0.0020	-	<0.000070	-	-	<0.00020	-	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	-	<0.00085	-	-	<0.001	-	<0.001	0.001	0.001	<0.001
Selenium	mg/L	0.050	-	<0.000071	-	-	<0.001	-	<0.001	0.001	0.001	<0.001
Sulfate	mg/L	250	-	160	-	-	281	-	123	51.1	98.9	214
Thallium	mg/L	0.002	-	<0.000085	-	-	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	-	780	-	-	678	-	667	522	613	466
Radium-226	pCi/L	-	-	0.219	-	-	0.818	-	0.695	0.559	0.160	0.0730
Radium-228	pCi/L	-	-	0.538	-	-	0.706	-	2.12	1.07	0.399	0.258
Combined Radium	pCi/L	5	-	0.757	-	-	1.524	-	2.82	1.63	0.559	0.331

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama			WELL ID:	MW-14A		
INSTALLATION DATE:	08/02/16	WELL DEPTH (FT-BTOC):	38.98	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL):	38.50	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

			Sample Date									
Constituent	Units	GWPS	8/4/2016	9/19/2016	12/1/2016	1/31/2017	3/29/2017	5/23/2017	10/10/2017	12/11/2017	4/17/2018	8/15/2018
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	-	-	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0015	0.0010	0.0036	0.0009	0.0014	0.0012	-	-	0.0045	0.0040
Barium	mg/L	2.0	0.49	0.035	0.060	0.037	0.035	0.046	-	-	0.05	0.056
Beryllium	mg/L	0.004	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	<0.00034	-	-	<0.00034	<0.00034
Boron	mg/L	-	4.4	5.0	6.0	4.5	4.4	4.2	3.6	3.6	3.9	2.3
Cadmium	mg/L	0.005	0.00087	0.0012	0.0012	0.0025	0.00073	0.0018	-	-	0.0016	0.0027
Calcium	mg/L	-	200	180	170	220	220	230	210	250	250	170
Chloride	mg/L	250	210	220	220	230	250	240	220	220	270	210
Chromium	mg/L	0.100	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011	-	-	<0.0011	<0.0011
Cobalt	mg/L	0.013	0.076	0.085	0.079	0.12	0.096	0.140	-	-	0.150	0.120
Fluoride	mg/L	4.0	0.050	0.050	0.050	<0.032	0.04	0.04	0.04	0.07	0.05	0.05
Lead	mg/L	0.015	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	<0.00035	-	-	<0.00035	<0.00035
Lithium	mg/L	0.040	0.063	0.044	0.035	0.044	0.045	0.018	-	-	0.047	0.016
Mercury	mg/L	0.0020	<0.000070	<0.000070	<0.000070	<0.000070	0.00011	<0.000070	-	-	<0.000070	<0.000070
Molybdenum	mg/L	0.100	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	<0.00085	-	-	<0.00085	<0.00085
Selenium	mg/L	0.050	<0.00024	<0.00024	<0.00024	<0.00024	<0.00024	0.00034	-	-	<0.00024	<0.00024
Sulfate	mg/L	250	340	390	360	300	470	480	390	460	460	360
Thallium	mg/L	0.002	<0.000085	<0.000085	<0.000085	<0.000085	<0.000085	0.000095	-	-	<0.000085	<0.000085
TDS	mg/L	500	1100	1100	1100	1200	1200	1100	1200	1300	1400	1100
Radium-226	pCi/L	-	0.282	0.202	0.574	-	0.276	0.118	-	-	-	0.404
Radium-228	pCi/L	-	0.931	0.615	0.409	-	0.372	0.469	-	-	-	0.334
Combined Radium	pCi/L	5	1.210	0.817	0.983	-	0.648	0.587	-	-	-	0.739

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama			WELL ID:	MW-14A		
INSTALLATION DATE:	08/02/16	WELL DEPTH (FT-BTOC):	38.98	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	38.50	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

			Sample Date									
Constituent	Units	GWPS	4/10/2019	6/5/2019	9/26/2019	3/23/2020	9/24/2020	4/22/2021	9/29/2021	5/4/2022	10/12/2022	4/13/2023
Antimony	mg/L	0.006	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0075	-	0.0042	0.0059	0.0076	0.0106	0.0117	0.0091	0.00540	0.0067
Barium	mg/L	2.0	0.072	-	0.053	0.070	0.064	0.055	0.085	0.075	0.061	0.055
Beryllium	mg/L	0.004	<0.00034	-	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	2.9	-	2.4	1.54	1.51	1.10	1.2	1.1	1.26	0.851
Cadmium	mg/L	0.005	<0.00034	-	0.00715	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	190	-	167	114	118	84	88.8	82.3	84.3	97
Chloride	mg/L	250	210	-	174	102	110	54	56	55.5	87.6	46.3
Chromium	mg/L	0.100	<0.0011	-	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.110	0.110	0.111	0.057	0.082	0.0360	0.039	0.048	0.042	0.035
Fluoride	mg/L	4.0	0.06	-	<0.125	<0.125	<0.125	<0.125	0.1	<0.125	<0.125	<0.125
Lead	mg/L	0.015	<0.00035	-	<0.00100	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.026	-	0.0177	0.0136	0.0103	0.0114	0.009	0.00693	0.007	0.0118
Mercury	mg/L	0.0020	<0.000070	-	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.00200	-	<0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	<0.00071	-	<0.00100	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	390	-	442	217	249	113	117	116	171	91
Thallium	mg/L	0.002	<0.000085	-	<0.001000	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	1000	-	933	636	684	512	518	492	548	392
Radium-226	pCi/L	-	0.225	-	0.409	0.598	0.179	0.000	-0.00967	0.368	0.324	0.703
Radium-228	pCi/L	-	0.445	-	0.837	0.958	0.365	0.472	0.527	0.209	0.574	0.613
Combined Radium	pCi/L	5	0.670	-	1.246	1.556	0.544	0.472	0.527	0.577	0.898	1.32

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-14B				
INSTALLATION DATE:		WELL DEPTH (FT-BTOC):		SCREEN LENGTH (FT):		CASING ELEV (FT / MSL):		WELL TYPE:	II			
								DIAMETER (IN):	2			
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	9/29/2021	4/26/2022	10/12/2022	4/13/2023	10/18/2023					
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
Arsenic	mg/L	0.010	0.001	<0.0010	0.0017	0.001	0.0016					
Barium	mg/L	2.0	0.172	0.089	0.179	0.069	0.152					
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
Boron	mg/L	-	2.6	0.4	2.9	0.338	1.44					
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
Calcium	mg/L	-	151	55.5	134	48.3	95.6					
Chloride	mg/L	250	165	68.9	184	63.1	108					
Chromium	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001					
Cobalt	mg/L	0.013	<0.001	<0.001	<0.001	<0.001	<0.001					
Fluoride	mg/L	4.0	<0.125	<0.125	<0.125	<0.125	<1.25					
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
Lithium	mg/L	0.040	0.194	0.0939	0.177	0.0834	0.141					
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020					
Molybdenum	mg/L	0.100	0.042	0.023	0.047	0.023	0.045					
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001	<0.001					
Sulfate	mg/L	250	358	88.9	387	73.6	196					
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
TDS	mg/L	500	955	454	1060	294	633					
Radium-226	pCi/L	-	0.201	0.547	0.494	0.148	1.11					
Radium-228	pCi/L	-	0.795	0.294	1.35	1.18	1.52					
Combined Radium	pCi/L	5	0.996	0.841	1.84	1.33	2.63					

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-15				
INSTALLATION DATE:	03/18/19	WELL DEPTH (FT-BTOC):	33.18	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	31.51	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/7/2019	7/31/2019	7/31/2019	9/24/2019	11/20/2019	1/30/2020	3/23/2020	6/22/2020	9/21/2020	4/20/2021
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0012	0.0023	0.0023	0.0016	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium	mg/L	2.0	0.093	0.0704	0.0704	0.0681	0.0738	0.0745	0.057	0.057	0.062	0.066
Beryllium	mg/L	0.004	<0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	0.052	0.0517	0.0517	0.0518	0.0447	0.0294	0.034	0.039	0.033	0.032
Cadmium	mg/L	0.005	<0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	22	14.7	14.7	14.5	12.4	12.5	10.7	12.1	11.3	11.4
Chloride	mg/L	250	14	8.91	8.91	8.58	8.43	7.65	5.96	5.34	5.56	6.65
Chromium	mg/L	0.100	<0.0011	<0.0010	<0.0010	0.00102	<0.0010	<0.0010	0.001	<0.001	0.001	0.001
Cobalt	mg/L	0.013	0.014	0.0092	0.0092	0.00544	0.00477	0.00218	0.001	0.004	<0.001	<0.001
Fluoride	mg/L	4.0	0.06	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125
Lead	mg/L	0.015	<0.00035	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.0038	-	<0.0050	<0.0050	<0.0050	<0.0050	0.00756	<0.0050	<0.005	<0.005
Mercury	mg/L	0.0020	<0.000070	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	<0.00071	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	34	32.8	32.8	29.6	32.1	36.3	27.3	26.8	28.4	27
Thallium	mg/L	0.002	<0.000085	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	150	104	104	128	98.9	106	76	87.7	112	83.3
Radium-226	pCi/L	-	0.112	-	0.320	1.160	0.565	-0.0495	0.612	0.749	0.062	0.522
Radium-228	pCi/L	-	0.105	-	0.912	0.897	0.927	0.381	0.817	0.722	1.220	0.784
Combined Radium	pCi/L	5	0.217	-	1.232	2.060	1.490	0.381	1.429	1.470	1.280	1.31

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama			WELL ID:	MW-15		
INSTALLATION DATE:	03/18/19	WELL DEPTH (FT-BTOC):	33.18	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL):	31.51	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

Constituent	Units	GWPS	Sample Date									
			10/4/2021	4/26/2022	10/12/2022	4/12/2023	10/17/2023					
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
Arsenic	mg/L	0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
Barium	mg/L	2.0	0.059	0.061	0.048	0.048	0.045					
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
Boron	mg/L	-	0.027	0.037	0.041	0.026	0.035					
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
Calcium	mg/L	-	13.1	9.38	9.16	9.78	8.15					
Chloride	mg/L	250	5.7	5.46	4.78	4.91	4.03					
Chromium	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001					
Cobalt	mg/L	0.013	0.001	<0.001	0.001	<0.001	<0.001					
Fluoride	mg/L	4.0	<0.125	<0.125	<0.125	<0.125	<0.125					
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
Lithium	mg/L	0.040	<0.0050	<0.0050	<0.0050	<0.008	<0.004					
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020					
Molybdenum	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001					
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001	<0.001					
Sulfate	mg/L	250	27.6	20.3	20.2	23.1	18.5					
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
TDS	mg/L	500	66	70	79.5	85.7	68					
Radium-226	pCi/L	-	0.401	0.0521	0.200	0.069	-0.253					
Radium-228	pCi/L	-	-0.415	0.393	0.473	0.622	0.828					
Combined Radium	pCi/L	5	0.401	0.445	0.673	0.691	0.828					

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-16				
INSTALLATION DATE:	03/19/19	WELL DEPTH (FT-BTOC):	42.23	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	34.70	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/8/2019	6/4/2019	7/31/2019	9/25/2019	11/19/2019	1/30/2020	3/23/2020	6/22/2020	9/22/2020	4/20/2021
Antimony	mg/L	0.006	<0.0010	-	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0046	-	0.0074	0.0086	0.0050	0.0032	0.0037	0.0037	0.0071	0.0025
Barium	mg/L	2.0	0.29	-	0.268	0.233	0.169	0.126	0.129	0.147	0.232	0.136
Beryllium	mg/L	0.004	<0.00034	-	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	2.5	-	2.18	1.89	2.67	1.53	1.02	1.48	1.36	1.19
Cadmium	mg/L	0.005	<0.00034	-	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	120	-	130	121	123	105	87.7	90.7	106	80.3
Chloride	mg/L	250	130	-	107	102	107	76	73.3	58.5	77.2	56.7
Chromium	mg/L	0.100	<0.0011	-	<0.0010	<0.0050	<0.0010	<0.0010	0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.030	-	0.0238	0.0223	0.02	0.0181	0.017	0.015	0.022	0.012
Fluoride	mg/L	4.0	0.09	-	<0.125	<0.125	<0.125	0.192	0.199	<0.125	<0.125	<0.125
Lead	mg/L	0.015	<0.00035	-	<0.0010	<0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.0460	-	0.0322	0.0353	0.0399	0.0379	0.0371	0.0429	0.0287	0.0526
Mercury	mg/L	0.0020	<0.000070	-	<0.00020	<0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.0020	<0.0020	0.00128	<0.0050	<0.0010	0.00118	0.001	0.001	<0.001	0.001
Selenium	mg/L	0.050	<0.00071	-	<0.0010	<0.0050	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	210	-	198	190	193	129	119	106	129	95.8
Thallium	mg/L	0.002	<0.000085	-	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	700	-	726	602	576	555	463	520	517	469
Radium-226	pCi/L	-	0.464	-	0.764	0.394	0.593	0.149	0.726	0.533	0.687	0.240
Radium-228	pCi/L	-	0.702	-	0.894	0.809	0.738	0.432	0.882	0.791	1.510	0.303
Combined Radium	pCi/L	5	1.170	-	1.658	1.246	1.330	0.581	1.608	1.320	2.200	0.543

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama			WELL ID:	MW-16		
INSTALLATION DATE:	03/19/19	WELL DEPTH (FT-BTOC):	42.23	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL):	34.70	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

			Sample Date								
Constituent	Units	GWPS	10/4/2021	4/26/2022	10/12/2022	4/12/2023	10/17/2023				
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010			
Arsenic	mg/L	0.010	0.0031	0.0018	0.0039	0.0014	0.0031				
Barium	mg/L	2.0	0.158	0.13	0.156	0.092	0.175				
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Boron	mg/L	-	1.24	0.767	0.712	0.55	0.75				
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Calcium	mg/L	-	87.3	70.4	71.4	59.3	74.2				
Chloride	mg/L	250	73.6	45.9	45.3	32.2	41.5				
Chromium	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001				
Cobalt	mg/L	0.013	0.016	0.011	0.016	0.006	0.015				
Fluoride	mg/L	4.0	<0.125	<0.125	<0.125	<0.125	<0.125				
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Lithium	mg/L	0.040	0.0519	0.0405	0.0334	0.0344	0.0337				
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020				
Molybdenum	mg/L	0.100	0.001	0.001	<0.001	<0.001	<0.001				
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001	<0.001				
Sulfate	mg/L	250	123	79.2	72.5	52.1	77				
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
TDS	mg/L	500	492	440	385	322	376				
Radium-226	pCi/L	-	-0.128	-0.0503	0.483	0.425	0.385				
Radium-228	pCi/L	-	0.585	0.923	0.618	0.561	0.633				
Combined Radium	pCi/L	5	0.585	0.923	1.10	0.986	1.02				

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-17				
INSTALLATION DATE:	03/19/19	WELL DEPTH (FT-BTOC):	41.7	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	36.23	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/8/2019	6/4/2019	7/31/2019	9/26/2019	11/19/2019	1/30/2020	3/25/2020	6/23/2020	9/22/2020	4/19/2021
Antimony	mg/L	0.006	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.016	0.029	0.030	0.016	0.052	0.046	0.054	0.043	0.024	0.0448
Barium	mg/L	2.0	0.260	-	0.217	0.099	0.097	0.073	0.071	0.096	0.152	0.057
Beryllium	mg/L	0.004	<0.00034	-	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	5.6	-	4.38	4.00	5.12	4.73	9.05	4.75	3.09	3.48
Cadmium	mg/L	0.005	<0.00034	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	220	-	188	162	185	212	350	194	131	147
Chloride	mg/L	250	240	-	166	143	179	196	170	184	126	129
Chromium	mg/L	0.100	<0.0011	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.042	0.013	0.0301	0.0322	0.0195	0.017	0.02	0.016	0.02	0.016
Fluoride	mg/L	4.0	1.1	-	0.342	0.339	1.48	1.71	1.21	1.32	0.322	1.37
Lead	mg/L	0.015	<0.00035	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.1500	0.0980	0.0897	0.0925	0.1320	0.1240	0.1150	0.1070	0.0469	0.109
Mercury	mg/L	0.0020	<0.000070	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	0.220	0.160	0.110	0.103	0.224	0.128	0.087	0.124	0.011	0.109
Selenium	mg/L	0.050	<0.00071	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	220	-	223	232	207	192	278	168	88.7	149
Thallium	mg/L	0.002	<0.000085	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	1300	-	945	765	792	1050	872	998	642	724
Radium-226	pCi/L	-	0.342	-	0.903	0.875	1.340	0.150	0.796	0.602	0.517	0.139
Radium-228	pCi/L	-	0.446	-	1.300	0.748	0.884	0.935	0.782	0.791	0.494	-0.113
Combined Radium	pCi/L	5	0.788	-	2.203	1.623	2.220	1.09	1.578	1.390	1.010	0.139

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama	WELL ID:	MW-17				
INSTALLATION DATE:	03/19/19	WELL DEPTH (FT-BTOC):	41.7	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL):	36.23	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

Constituent	Units	GWPS	Sample Date									
			9/28/2021	5/3/2022	10/12/2022	4/12/2023	10/26/2023					
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
Arsenic	mg/L	0.010	0.0634	0.0472	0.0214	0.0569	0.0177					
Barium	mg/L	2.0	0.061	0.058	0.158	0.054	0.075					
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
Boron	mg/L	-	2.93	2.77	2.66	2.33	2.28					
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
Calcium	mg/L	-	146	122	120	115	108					
Chloride	mg/L	250	123	103	109	102	98					
Chromium	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001					
Cobalt	mg/L	0.013	0.015	0.017	0.03	0.016	0.025					
Fluoride	mg/L	4.0	1.96	1.69	0.472	1.43	0.94					
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
Lithium	mg/L	0.040	0.103	0.0877	0.047	0.0992	0.0652					
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020					
Molybdenum	mg/L	0.100	0.145	0.112	0.015	0.089	0.044					
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001	<0.001					
Sulfate	mg/L	250	164	141	174	157	123					
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010					
TDS	mg/L	500	695	600	672	603	526					
Radium-226	pCi/L	-	0.0650	0.0549	0.216	-0.254	0.493					
Radium-228	pCi/L	-	0.603	0.623	0.763	0.0709	1.20					
Combined Radium	pCi/L	5	0.668	0.678	0.979	0.0709	1.69					

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-18				
INSTALLATION DATE:	03/20/19	WELL DEPTH (FT-BTOC):	53.03	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT / MSL)	32.64	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/7/2019	8/1/2019	9/24/2019	11/19/2019	1/29/2020	3/25/2020	6/23/2020	9/22/2020	4/19/2021	9/29/2021
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0063	<0.0010	<0.0010	<0.0010	0.00691	0.0044	0.0015	<0.0010	0.0067	<0.0010
Barium	mg/L	2.0	0.290	0.156	0.148	0.139	0.284	0.271	0.191	0.128	0.273	0.115
Beryllium	mg/L	0.004	<0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	0.17	0.132	0.145	0.134	0.073	0.078	0.109	0.168	0.07	0.108
Cadmium	mg/L	0.005	<0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	45	36.4	34.5	33.4	45.5	42.7	37.8	32	52.9	30.4
Chloride	mg/L	250	16	14.9	15.5	17.3	12.3	12.6	12.8	13.7	12.1	13.1
Chromium	mg/L	0.100	<0.0011	<0.0010	<0.0010	0.0014	<0.0010	0.001	0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.0046	<0.0010	<0.0010	<0.0010	0.0049	0.004	<0.001	<0.001	0.002	<0.001
Fluoride	mg/L	4.0	0.11	<0.125	<0.125	0.135	0.271	0.129	<0.125	<0.125	0.138	0.143
Lead	mg/L	0.015	<0.00035	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.0030	<0.0050	<0.0050	<0.0050	<0.0050	<0.0250	<0.0050	<0.005	<0.0050	<0.0050
Mercury	mg/L	0.0020	<0.000070	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	<0.00071	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	17	35	28	27	<1.00	3.65	12.8	25.2	<1.00	30.6
Thallium	mg/L	0.002	<0.000085	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	260	196	220	157	263	227	208	170	238	163
Radium-226	pCi/L	-	0.463	0.786	0.465	0.703	0.327	0.710	0.731	0.000	0.199	0.509
Radium-228	pCi/L	-	0.173	0.799	0.785	0.853	0.836	0.665	0.778	0.228	0.274	0.341
Combined Radium	pCi/L	5	0.636	1.585	1.250	1.560	1.16	1.375	1.510	0.228	0.473	0.850

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama	WELL ID:	MW-18				
INSTALLATION DATE:	03/20/19	WELL DEPTH (FT-BTOC):	53.03	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT / MSL):	32.64	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

Constituent	Units	GWPS	Sample Date							
			4/26/2022	10/12/2022	4/12/2023	10/19/2023				
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	0.0015				
Arsenic	mg/L	0.010	0.0031	<0.0010	0.0109	<0.0010				
Barium	mg/L	2.0	0.228	0.14	0.186	0.141				
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010				
Boron	mg/L	-	0.085	0.145	0.098	0.117				
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010				
Calcium	mg/L	-	47.4	34.1	43.9	32.3				
Chloride	mg/L	250	12.4	12.5	<0.001	9.71				
Chromium	mg/L	0.100	<0.001	<0.001	<0.001	<0.001				
Cobalt	mg/L	0.013	0.001	<0.001	<0.125	<0.001				
Fluoride	mg/L	4.0	0.146	<0.125	<0.0010	<0.125				
Lead	mg/L	0.015	<0.0010	<0.0010		<0.0010				
Lithium	mg/L	0.040	<0.0050	<0.0050	<0.008	<0.004				
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020				
Molybdenum	mg/L	0.100	<0.001	<0.001	<0.001	<0.001				
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001				
Sulfate	mg/L	250	1.15	28	2.04	18				
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010				
TDS	mg/L	500	234	239	208	148				
Radium-226	pCi/L	-	0.256	-0.245	-0.551	0.270				
Radium-228	pCi/L	-	0.420	0.283	0.809	0.438				
Combined Radium	pCi/L	5	0.676	0.283	0.809	0.708				

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-19				
INSTALLATION DATE:	03/20/19	WELL DEPTH (FT-BTOC):	53.13	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	50.76	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/7/2019	6/4/2019	8/1/2019	9/25/2019	11/20/2019	1/29/2020	3/25/2020	6/23/2020	9/22/2020	4/20/2021
Antimony	mg/L	0.006	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	<0.00046	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Barium	mg/L	2.0	0.095	-	0.0751	0.0641	0.0470	0.0517	0.063	0.064	0.059	0.05
Beryllium	mg/L	0.004	<0.00034	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	0.38	-	0.295	0.328	0.309	0.241	0.261	0.239	0.33	0.172
Cadmium	mg/L	0.005	0.00049	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	41	-	42.7	39.3	34.5	34.2	39.3	34.1	37.4	28
Chloride	mg/L	250	31	-	31.2	30.1	25.1	12.6	19.1	17.5	23.4	9.31
Chromium	mg/L	0.100	<0.0011	-	0.0011	0.0011	<0.0010	<0.0010	0.0010	0.0010	<0.001	<0.001
Cobalt	mg/L	0.013	0.014	-	0.00845	0.00723	0.0068	0.00444	0.005	0.005	0.005	0.001
Fluoride	mg/L	4.0	0.04	-	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125	<0.125
Lead	mg/L	0.015	<0.00035	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.0110	0.0090	0.0079	0.0092	0.0093	0.0139	<0.0250	0.0084	0.0102	0.0103
Mercury	mg/L	0.0020	<0.000070	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.0020	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	<0.00071	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	90	-	107	94	91	73.7	84.7	72.5	84.3	49.1
Thallium	mg/L	0.002	<0.000085	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	210	-	258	283	229	145	220	220	217	166
Radium-226	pCi/L	-	0.155	-	1.020	0.967	0.576	-0.0524	0.523	0.107	0.201	-0.0630
Radium-228	pCi/L	-	0.376	-	1.010	0.915	0.811	0.702	0.602	0.833	0.322	0.131
Combined Radium	pCi/L	5	0.530	-	2.030	1.880	1.390	0.702	1.125	1.900	0.523	0.131

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama			WELL ID:	MW-19		
INSTALLATION DATE:	03/20/19	WELL DEPTH (FT-BTOC):	53.13	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL):	50.76	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

			Sample Date								
Constituent	Units	GWPS	9/28/2021	4/26/2022	10/18/2022	4/13/2023	10/17/2023				
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Arsenic	mg/L	0.010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Barium	mg/L	2.0	0.063	0.066	0.072	0.052	0.074				
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Boron	mg/L	-	0.207	0.199	0.243	0.186	0.215				
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010				
Calcium	mg/L	-	28.4	28.5	31.8	26.5	30.9				
Chloride	mg/L	250	11.2	11.2	22.9	<0.001	18.9				
Chromium	mg/L	0.100	<0.001	<0.001	<0.005	0.001	<0.001				
Cobalt	mg/L	0.013	0.001	0.001	<0.005	<0.125	0.004				
Fluoride	mg/L	4.0	<0.125	<0.125	<0.125	<0.126	<0.125				
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0050	<0.00020	<0.0010				
Lithium	mg/L	0.040	0.00914	0.00874	0.00994	0.0134	0.00904				
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00021	<0.00020				
Molybdenum	mg/L	0.100	<0.001	<0.001	<0.005	<0.001	<0.001				
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001	<0.001				
Sulfate	mg/L	250	61.9	57.3	79.8	63.4	66.9				
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0050	<0.0010	<0.0010				
TDS	mg/L	500	170	188	235	126	226				
Radium-226	pCi/L	-	0.384	0.189	0.0626	0.276	0.0860				
Radium-228	pCi/L	-	0.465	0.134	-0.0644	0.321	0.123				
Combined Radium	pCi/L	5	0.849	0.323	0.0626	0.597	0.209				

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-20				
INSTALLATION DATE:	03/21/19	WELL DEPTH (FT-BTOC):	33.41	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT / MSL)	30.01	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/6/2019	6/4/2019	8/1/2019	9/25/2019	11/20/2019	1/29/2020	3/25/2020	6/23/2020	9/21/2020	4/20/2021
Antimony	mg/L	0.006	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.051	0.036	0.042	0.033	0.036	0.036	0.038	0.038	0.045	0.0289
Barium	mg/L	2.0	0.15	-	0.135	0.120	0.130	0.131	0.140	0.166	0.139	0.133
Beryllium	mg/L	0.004	<0.00034	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	0.089	-	0.0535	0.0659	0.0625	0.0556	0.055	0.06	0.066	0.061
Cadmium	mg/L	0.005	<0.00034	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	48	-	54.8	48.1	45.2	44.6	45.8	48.4	49.9	49.2
Chloride	mg/L	250	9.4	-	9.17	8.12	10.1	9.51	9.86	9.81	10.4	7.83
Chromium	mg/L	0.100	<0.0011	-	<0.0010	<0.0010	0.00191	<0.0010	<0.001	0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.0027	-	0.00193	<0.0010	0.0028	0.00156	0.003	0.006	<0.001	<0.001
Fluoride	mg/L	4.0	0.14	-	0.203	0.160	0.155	0.357	0.158	<0.125	0.147	0.164
Lead	mg/L	0.015	<0.00035	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.0015	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0250	<0.0050	<0.005	<0.0050
Mercury	mg/L	0.0020	<0.000070	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.0020	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	<0.00071	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	26	-	23	<1	13.4	11.1	28.4	41.9	11.1	11.5
Thallium	mg/L	0.002	<0.000085	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	170	-	245	212	202	146	208	246	242	233
Radium-226	pCi/L	-	0.148	-	0.926	0.857	0.752	0.292	0.758	0.777	0.111	0.300
Radium-228	pCi/L	-	0.298	-	0.772	0.930	0.729	0.400	0.639	0.948	0.919	0.332
Combined Radium	pCi/L	5	0.447	-	1.698	1.790	1.480	0.692	1.397	1.730	1.030	0.632

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama			WELL ID:	MW-20		
INSTALLATION DATE:	03/21/19	WELL DEPTH (FT-BTOC):	33.41	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT / MSL)	30.01	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

			Sample Date								
Constituent	Units	GWPS	10/4/2021	5/4/2022	10/11/2022	4/11/2023	10/24/2023				
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Arsenic	mg/L	0.010	0.0294	0.0282	0.0244	0.0259	0.0242				
Barium	mg/L	2.0	0.12	0.13	0.085	0.122	0.102				
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Boron	mg/L	-	0.063	0.081	0.073	0.064	0.087				
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Calcium	mg/L	-	41.2	43.1	46.0	47.0	42.8				
Chloride	mg/L	250	4.98	5.99	5.36	5.15	4.92				
Chromium	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001				
Cobalt	mg/L	0.013	0.006	0.005	<0.001	0.003	<0.001				
Fluoride	mg/L	4.0	<0.125	<0.125	0.182	<0.125	0.163				
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
Lithium	mg/L	0.040	<0.0050	<0.0050	<0.0050	0.0134	<0.004				
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020				
Molybdenum	mg/L	0.100	<0.001	<0.001	<0.001	<0.001	<0.001				
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001	<0.001				
Sulfate	mg/L	250	32.5	28.7	<1.00	14.5	<1.00				
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010				
TDS	mg/L	500	180	206	185	210	128				
Radium-226	pCi/L	-	-0.0734	0.281	0.0807	0.116	0.121				
Radium-228	pCi/L	-	0.890	0.569	1.42	0.0930	1.12				
Combined Radium	pCi/L	5	0.890	0.850	1.50	0.209	1.24				

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-21				
INSTALLATION DATE:	03/21/19	WELL DEPTH (FT-BTOC):	36.45	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT / MSL)	30.00	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/6/2019	8/1/2019	9/25/2019	11/19/2019	1/29/2020	3/25/2020	6/24/2020	9/22/2020	4/21/2021	10/4/2021
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0059	0.00729	0.00632	0.00594	0.00866	0.0057	0.0051	0.007	0.0145	0.0083
Barium	mg/L	2.0	0.096	0.119	0.113	0.114	0.120	0.111	0.105	0.111	0.13	0.08
Beryllium	mg/L	0.004	<0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	0.14	0.216	0.305	0.268	0.291	0.201	0.265	0.251	0.349	0.277
Cadmium	mg/L	0.005	<0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	72.0	87.5	81.2	83.0	76.2	84.3	100	84.1	101	79.9
Chloride	mg/L	250	28.0	30.8	36.6	36.5	38.0	21.1	33.2	37.6	25	16.9
Chromium	mg/L	0.100	<0.0011	<0.0010	<0.0010	0.00114	0.00192	0.001	<0.001	<0.001	<0.001	0.001
Cobalt	mg/L	0.013	0.0034	<0.0010	<0.0010	0.00208	0.00289	0.004	0.005	<0.001	0.003	0.005
Fluoride	mg/L	4.0	0.09	0.138	0.125	<0.125	0.229	0.169	<0.125	0.127	0.163	<0.125
Lead	mg/L	0.015	<0.00035	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.0018	<0.0050	<0.0050	<0.0050	<0.0050	<0.0250	<0.0050	<0.005	<0.0050	<0.0050
Mercury	mg/L	0.0020	<0.000070	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	<0.00071	<0.0010	<0.0010	0.00186	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	25.0	27.3	18.4	46.0	18.4	49.3	67.6	9.3	51.8	89.5
Thallium	mg/L	0.002	<0.000085	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	220	330	300	296	265	314	369	298	424	294
Radium-226	pCi/L	-	0.127	0.776	0.757	0.674	0.156	0.843	0.557	0.116	0.446	-0.226
Radium-228	pCi/L	-	0.092	0.811	0.718	0.912	0.150	0.715	0.909	0.360	-0.123	0.414
Combined Radium	pCi/L	5	0.219	1.587	1.475	1.590	0.306	1.558	1.470	0.476	0.446	0.414

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama		WELL ID:	MW-21			
INSTALLATION DATE:	03/21/19	WELL DEPTH (FT-BTOC):	36.45	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT / MSL):	30.00	WELL TYPE:	II	
								DIAMETER (IN):	2	

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

Constituent	Units	GWPS	Sample Date							
			5/3/2022	10/13/2022	4/11/2023	10/24/2023				
Antimony	mg/L	0.006	<0.0010	<0.0010	0.0055	<0.0010				
Arsenic	mg/L	0.010	0.0134	0.0055	0.09	0.0041				
Barium	mg/L	2.0	0.109	0.11	<0.0010	0.095				
Beryllium	mg/L	0.004	<0.0010	<0.0010	0.276	<0.0010				
Boron	mg/L	-	0.282	0.273	<0.0010	0.291				
Cadmium	mg/L	0.005	<0.0010	<0.0010	80.1	<0.0010				
Calcium	mg/L	-	87.0	79.2	19.9	74.8				
Chloride	mg/L	250	19.2	27.5	<0.001	19.8				
Chromium	mg/L	0.100	<0.001	0.001	0.001	<0.001				
Cobalt	mg/L	0.013	0.004	<0.001	<1.25	<0.001				
Fluoride	mg/L	4.0	<0.125	<0.125	<0.125	0.129				
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0010				
Lithium	mg/L	0.040	<0.0050	<0.0050	<0.008	<0.004				
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020				
Molybdenum	mg/L	0.100	<0.001	<0.001	<0.001	0.001				
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001				
Sulfate	mg/L	250	81.7	21.2	38.9	19.4				
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010				
TDS	mg/L	500	313	312	312	252				
Radium-226	pCi/L	-	0.356	0.000	0.393	0.0520				
Radium-228	pCi/L	-	0.340	0.721	0.382	0.741				
Combined Radium	pCi/L	5	0.696	0.721	0.775	0.793				

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-22				
INSTALLATION DATE:	03/21/19	WELL DEPTH (FT-BTOC):	33.55	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT / MSL)	30.24	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/7/2019	7/31/2019	9/26/2019	11/19/2019	1/29/2020	3/23/2020	6/23/2020	9/21/2020	4/20/2021	9/30/2021
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.0027	0.00391	0.00422	0.00577	0.00504	0.0051	0.0046	0.0051	0.0044	0.0060
Barium	mg/L	2.0	0.2	0.138	0.137	0.147	0.177	0.158	0.132	0.136	0.156	0.143
Beryllium	mg/L	0.004	<0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	0.12	0.0867	0.0968	0.102	<0.0100	0.091	0.101	0.116	0.1	0.107
Cadmium	mg/L	0.005	<0.00034	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	120	135	134	127	12.4	136	139	31.7	118	132
Chloride	mg/L	250	19.0	17.2	17.3	18.5	17.8	19.7	10.5	13.6	13	10.6
Chromium	mg/L	0.100	<0.0011	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.00910	0.00257	0.00244	0.00159	0.00187	0.002	0.003	0.002	0.003	0.003
Fluoride	mg/L	4.0	0.110	<0.125	<0.125	<0.125	0.206	0.246	<0.125	<0.125	<0.125	<0.125
Lead	mg/L	0.015	<0.00035	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Lithium	mg/L	0.040	0.0012	<0.0050	<0.0050	<0.0050	<0.0050	<0.005	0.174	<0.005	<0.0050	<0.0050
Mercury	mg/L	0.0020	<0.000070	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	<0.0020	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001
Selenium	mg/L	0.050	<0.00071	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	12.0	21.4	8.6	13.2	5.8	16.2	36.3	15.5	11.7	20.6
Thallium	mg/L	0.002	<0.000085	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
TDS	mg/L	500	360	420	390	383	364	402	429	434	406	420
Radium-226	pCi/L	-	0.283	0.245	0.637	0.756	0.452	0.179	0.433	0.113	0.0712	0.396
Radium-228	pCi/L	-	0.450	0.801	0.693	0.815	0.309	0.777	0.896	1.020	0.265	0.609
Combined Radium	pCi/L	5	0.733	1.046	1.330	1.570	0.761	0.956	1.330	1.130	0.336	1.01

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama			WELL ID:	MW-22		
INSTALLATION DATE:	03/21/19	WELL DEPTH (FT-BTOC):	33.55	SCREEN LENGTH (FT):	10.0	CASING ELEV (FT / MSL):	30.24	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

			Sample Date									
Constituent	Units	GWPS	5/2/2022	10/13/2022	4/12/2023	10/24/2023						
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010						
Arsenic	mg/L	0.010	0.0057	0.004	0.0024	0.0036						
Barium	mg/L	2.0	0.15	0.139	0.139	0.137						
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010						
Boron	mg/L	-	0.106	0.094	0.099	0.102						
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010						
Calcium	mg/L	-	130	114	124	113						
Chloride	mg/L	250	10.8	11	11.6	9.93						
Chromium	mg/L	0.100	<0.001	<0.001	<0.001	<0.001						
Cobalt	mg/L	0.013	0.00200	0.001	<0.001	<0.001						
Fluoride	mg/L	4.0	<0.125	<0.125	<0.125	<0.125						
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0010						
Lithium	mg/L	0.040	<0.0050	<0.0050	<0.008	<0.004						
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020						
Molybdenum	mg/L	0.100	<0.001	<0.001	<0.001	<0.001						
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001						
Sulfate	mg/L	250	20.8	2.9	1.42	<1.00						
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010						
TDS	mg/L	500	404	393	402	338						
Radium-226	pCi/L	-	0.107	0.386	0.510	0.000						
Radium-228	pCi/L	-	0.356	0.639	0.496	0.229						
Combined Radium	pCi/L	5	0.463	1.03	1.01	0.229						

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-23				
INSTALLATION DATE:	03/21/19	WELL DEPTH (FT-BTOC):	43.85	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	38.86	WELL TYPE:	II			
									DIAMETER (IN):	2		
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	4/8/2019	6/5/2019	8/1/2019	9/27/2019	11/19/2019	1/30/2020	3/23/2020	6/24/2020	9/24/2020	4/22/2021
Antimony	mg/L	0.006	<0.0010	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Arsenic	mg/L	0.010	0.042	0.120	0.111	0.193	0.241	0.348	0.305	0.244	0.189	0.3240
Barium	mg/L	2.0	0.12	-	0.0616	0.0529	0.0541	0.0754	0.059	0.066	0.055	0.071
Beryllium	mg/L	0.004	<0.00034	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Boron	mg/L	-	8.1	-	9.7	13.2	13.1	13.1	11.3	12.2	11.8	14.2
Cadmium	mg/L	0.005	<0.00034	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Calcium	mg/L	-	370	-	393	433	481	563	484	557	543	640
Chloride	mg/L	250	350	-	378	349	359	460	454	432	401	483
Chromium	mg/L	0.100	<0.0011	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
Cobalt	mg/L	0.013	0.00059	-	0.00462	0.00371	0.00464	0.01100	0.01100	0.01100	0.00900	0.014
Fluoride	mg/L	4.0	3.20	-	2.07	2.96	0.81	2.05	1.43	1.12	1.76	1.69
Lead	mg/L	0.015	<0.00035	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.100
Lithium	mg/L	0.040	0.2000	0.1200	0.1260	0.2000	0.1970	0.1680	0.1350	0.2510	0.1690	0.154
Mercury	mg/L	0.0020	<0.000070	-	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Molybdenum	mg/L	0.100	0.210	0.170	0.138	0.222	0.215	0.0701	0.084	0.077	0.092	0.076
Selenium	mg/L	0.050	<0.00071	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.001	<0.001	<0.001	<0.001
Sulfate	mg/L	250	620	-	868	981	1010	1240	1020	1040	1090	1110
Thallium	mg/L	0.002	<0.000085	-	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0050
TDS	mg/L	500	2000	-	2100	2200	2170	2910	2200	2830	2430	2730
Radium-226	pCi/L	-	0.377	-	0.820	0.588	0.225	0.414	0.621	0.869	0.280	0.240
Radium-228	pCi/L	-	0.776	-	0.830	0.898	0.833	0.563	0.771	0.982	1.910	0.539
Combined Radium	pCi/L	5	1.150	-	1.650	1.486	1.060	0.977	1.392	1.850	2.190	0.779

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant	Location:	Leroy, Alabama			WELL ID:	MW-23		
INSTALLATION DATE:	03/21/19	WELL DEPTH (FT-BTOC):	43.85	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	38.86	WELL TYPE:	II
								DIAMETER (IN):	2

Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);

			Sample Date								
Constituent	Units	GWPS	10/1/2021	5/4/2022	10/18/2022	4/18/2023	10/25/2023				
Antimony	mg/L	0.006	<0.0050	<0.0100	<0.0100	<0.0100	<0.0100	<0.0100			
Arsenic	mg/L	0.010	0.254	0.241	0.1170	0.1860	0.1300				
Barium	mg/L	2.0	0.057	0.071	0.041	0.042	0.034				
Beryllium	mg/L	0.004	<0.0010	<0.0100	<0.0100	<0.0100	<0.0100				
Boron	mg/L	-	13.1	12.6	7.61	8.68	7.12				
Cadmium	mg/L	0.005	<0.0050	<0.0100	<0.0100	<0.0100	<0.0100				
Calcium	mg/L	-	561	504	354	396	344				
Chloride	mg/L	250	434	469	43.4	299	211				
Chromium	mg/L	0.100	<0.001	<0.010	<0.010	<0.010	<0.010				
Cobalt	mg/L	0.013	0.011	0.016	<0.010	<0.010	<0.010				
Fluoride	mg/L	4.0	2.29	2.21	2.48	2.02	0.367				
Lead	mg/L	0.015	<0.0050	<0.0100	<0.0100	<0.0100	<0.0100				
Lithium	mg/L	0.040	0.173	0.145	0.136	0.165	0.128				
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020				
Molybdenum	mg/L	0.100	0.102	0.084	0.132	0.123	0.147				
Selenium	mg/L	0.050	<0.001	<0.010	<0.010	<0.010	<0.010				
Sulfate	mg/L	250	1110	1140	169	983	768				
Thallium	mg/L	0.002	<0.0050	<0.0100	<0.0100	<0.0100	<0.0100				
TDS	mg/L	500	2860	2930	1780	1950	1620				
Radium-226	pCi/L	-	0.396	0.276	0.0782	0.551	0.173				
Radium-228	pCi/L	-	1.24	0.842	0.725	0.721	0.773				
Combined Radium	pCi/L	5	1.64	1.12	0.803	1.27	0.946				

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-24				
INSTALLATION DATE:	04/06/20	WELL DEPTH (FT-BTOC):	53.08	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	40.84	WELL TYPE:	II			
								DIAMETER (IN):	2			
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	6/24/2020	9/22/2020	4/21/2021	9/28/2021	5/3/2022	10/18/2022	4/13/2023	10/26/2023		
Antimony	mg/L	0.006	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0100	<0.0010	<0.0010		
Arsenic	mg/L	0.010	0.002	0.003	0.001	0.001	0.002	<0.0100	0.0033	0.002		
Barium	mg/L	2.0	0.061	0.071	0.124	0.056	0.14	0.162	0.121	0.128		
Beryllium	mg/L	0.004	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0100	<0.0010	<0.0010		
Boron	mg/L	-	11.5	8.45	7.8	2.65	4.93	5.34	1.83	3.11		
Cadmium	mg/L	0.005	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0500	<0.0010	<0.0010		
Calcium	mg/L	-	506	403	393	143	222	242	122	170		
Chloride	mg/L	250	338	270	267	60.9	130	28.6	75.4	95.2		
Chromium	mg/L	0.100	0.002	<0.001	<0.001	<0.001	<0.001	<0.050	<0.001	<0.001		
Cobalt	mg/L	0.013	<0.001	0.00200	0.005	<0.001	0.002	<0.050	0.004	0.00100		
Fluoride	mg/L	4.0	0.345	0.969	0.713	1.31	0.88	0.321	1.11	1.55		
Lead	mg/L	0.015	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0500	<0.0010	<0.0010		
Lithium	mg/L	0.040	0.1500	0.1430	0.1990	0.1140	0.1360	0.1050	0.0744	0.0709		
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		
Molybdenum	mg/L	0.100	0.009	0.019	0.007	0.004	0.011	<0.050	0.008	0.014		
Selenium	mg/L	0.050	<0.001	<0.001	<0.001	<0.001	<0.001	<0.010	<0.001	<0.001		
Sulfate	mg/L	250	1110	851	717	204	375	106	214	372		
Thallium	mg/L	0.002	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0500	<0.0010	<0.0010		
TDS	mg/L	500	2310	1930	1810	682	1080	1240	543	853		
Radium-226	pCi/L	-	0.538	0.227	0.174	0.0721	0.752	0.595	0.0634	0.297		
Radium-228	pCi/L	-	1.280	0.604	1.57	0.814	0.525	0.747	0.700	0.892		
Combined Radium	pCi/L	5	1.820	0.831	1.74	0.886	1.28	1.34	0.763	1.19		

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama		WELL ID:	MW-25					
INSTALLATION DATE:	04/07/20	WELL DEPTH (FT-BTOC):	51.12	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	39.65	WELL TYPE:	II			
							DIAMETER (IN):	2				
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	6/24/2020	9/23/2020	4/22/2021	10/5/2021	5/4/2022	10/13/2022	4/13/2023	10/26/2023		
Antimony	mg/L	0.006	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0100	<0.0010	<0.0100		
Arsenic	mg/L	0.010	0.002	<0.0050	0.022	0.007	0.012	<0.0100	0.0146	<0.0100		
Barium	mg/L	2.0	0.049	0.042	0.056	0.046	0.044	0.054	0.036	0.049		
Beryllium	mg/L	0.004	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0100	<0.0010	<0.0100		
Boron	mg/L	-	16.6	17.8	11.1	12.6	9.91	15.2	9.05	13.5		
Cadmium	mg/L	0.005	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0100	<0.0010	<0.0100		
Calcium	mg/L	-	538	589	282	325	239	492	261	514		
Chloride	mg/L	250	424	402	229	277	218	330	232	246		
Chromium	mg/L	0.100	0.001	<0.005	<0.001	<0.001	<0.001	<0.010	<0.001	<0.010		
Cobalt	mg/L	0.013	0.02100	0.01700	<0.001	0.003	0.001	0.01100	0.001	0.01100		
Fluoride	mg/L	4.0	0.576	0.72	1.05	0.759	0.34	0.563	0.719	0.365		
Lead	mg/L	0.015	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0100	<0.0010	<0.0100		
Lithium	mg/L	0.040	<0.0050	0.1850	0.1500	0.1200	0.1200	0.1490	0.127	0.1390		
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		
Molybdenum	mg/L	0.100	0.051	0.182	0.078	0.047	0.074	0.076	0.093	0.081		
Selenium	mg/L	0.050	<0.001	<0.005	<0.001	<0.001	<0.001	<0.010	<0.001	<0.010		
Sulfate	mg/L	250	1220	1330	716	919	693	1360	708	1220		
Thallium	mg/L	0.002	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0100	<0.0010	<0.0100		
TDS	mg/L	500	2620	2850	1550	1820	1590	2740	1360	2750		
Radium-226	pCi/L	-	0.533	0.261	0.000	0.269	0.0545	-0.0651	0.204	-0.124		
Radium-228	pCi/L	-	1.120	0.636	1.83	0.513	0.553	0.600	1.31	1.21		
Combined Radium	pCi/L	5	1.650	0.897	1.83	0.782	0.608	0.600	1.51	1.21		

Monitoring Point Data Summary Table

SITE NAME:	Charles R. Lowman Power Plant		Location:	Leroy, Alabama			WELL ID:	MW-26				
INSTALLATION DATE:	04/07/20	WELL DEPTH (FT-BTOC):	42.35	SCREEN LENGTH (FT):	15.0	CASING ELEV (FT / MSL)	33.94	WELL TYPE:	II			
								DIAMETER (IN):	2			
Notes: BTOC (Below Top of Casing); MSL (Mean Sea Level);												
			Sample Date									
Constituent	Units	GWPS	6/24/2020	9/24/2020	4/22/2021	10/5/2021	5/4/2022	10/18/2022	4/18/2023	10/26/2023		
Antimony	mg/L	0.006	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		
Arsenic	mg/L	0.010	<0.0010	<0.0050	<0.0010	0.001	0.001	<0.0010	0.001	<0.0010		
Barium	mg/L	2.0	0.095	0.086	0.132	0.149	0.131	0.116	0.096	0.115		
Beryllium	mg/L	0.004	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		
Boron	mg/L	-	0.195	0.354	0.3	0.373	0.448	0.529	0.265	0.443		
Cadmium	mg/L	0.005	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		
Calcium	mg/L	-	50.5	44.6	79.7	95.1	85.1	75.2	61.6	68.4		
Chloride	mg/L	250	4.45	6.27	5.27	11.9	12	19.3	3.19	21.6		
Chromium	mg/L	0.100	0.001	<0.005	0.001	0.001	0.001	<0.005	0.001	<0.001		
Cobalt	mg/L	0.013	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001		
Fluoride	mg/L	4.0	0.144	0.17	0.173	<0.125	<0.125	0.142	0.144	0.161		
Lead	mg/L	0.015	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		
Lithium	mg/L	0.040	<0.0050	<0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.008	<0.004		
Mercury	mg/L	0.0020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020		
Molybdenum	mg/L	0.100	0.006	0.006	0.005	0.006	0.006	0.005	0.006	0.004		
Selenium	mg/L	0.050	0.008	0.006	0.03	0.017	0.02	0.004	0.014	0.004		
Sulfate	mg/L	250	29	38.3	40.4	89.2	101	109	44	92.8		
Thallium	mg/L	0.002	<0.0010	<0.0050	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010		
TDS	mg/L	500	224	202	272	368	396	338	263	304		
Radium-226	pCi/L	-	0.562	0.307	0.145	0.122	0.110	0.140	0.284	0.000		
Radium-228	pCi/L	-	0.762	0.009	0.976	0.621	0.296	0.576	0.559	0.418		
Combined Radium	pCi/L	5	1.320	0.316	1.12	0.743	0.406	0.716	0.843	0.418		

APPENDIX E
APRIL 2023 ASSESSMENT MONITORING
LABORATORY REPORTS



5/10/2023

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL, 36420

Ref: Analytical Testing
Lab Report Number: 23-104-0001
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Dear Mr. Alan Barck:

Waypoint Analytical, LLC (Andalusia) received sample(s) on 4/14/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

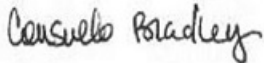
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Consuelo C Bradley

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	SC #84002
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #80215	PA DEP #68-03195

Sample Summary Table

Report Number: 23-104-0001
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
97659	MW-1	Aqueous	04/11/2023 11:40	04/14/2023 09:00	EPA-904.0	
97659	MW-1	Aqueous	04/11/2023 11:40	04/14/2023 09:00	EPA-903.1	
97660	MW-2	Aqueous	04/11/2023 13:35	04/14/2023 09:00	EPA-904.0	
97660	MW-2	Aqueous	04/11/2023 13:35	04/14/2023 09:00	EPA-903.1	
97661	MW-3	Aqueous	04/10/2023 13:55	04/14/2023 09:00	EPA-903.1	
97661	MW-3	Aqueous	04/10/2023 13:55	04/14/2023 09:00	EPA-904.0	
97662	MW-4	Aqueous	04/10/2023 16:00	04/14/2023 09:00	EPA-903.1	
97662	MW-4	Aqueous	04/10/2023 16:00	04/14/2023 09:00	EPA-904.0	
97663	MW-6	Aqueous	04/12/2023 12:35	04/14/2023 09:00	EPA-904.0	
97663	MW-6	Aqueous	04/12/2023 12:35	04/14/2023 09:00	EPA-903.1	
97664	MW-7	Aqueous	04/12/2023 11:00	04/14/2023 09:00	EPA-904.0	
97664	MW-7	Aqueous	04/12/2023 11:00	04/14/2023 09:00	EPA-903.1	
97665	MW-8	Aqueous	04/12/2023 13:20	04/14/2023 09:00	EPA-904.0	
97665	MW-8	Aqueous	04/12/2023 13:20	04/14/2023 09:00	EPA-903.1	
97666	MW-9	Aqueous	04/11/2023 10:35	04/14/2023 09:00	EPA-903.1	
97666	MW-9	Aqueous	04/11/2023 10:35	04/14/2023 09:00	EPA-904.0	
97667	MW-10	Aqueous	04/12/2023 14:50	04/14/2023 09:00	EPA-904.0	
97667	MW-10	Aqueous	04/12/2023 14:50	04/14/2023 09:00	EPA-903.1	
97668	MW-11	Aqueous	04/12/2023 15:30	04/14/2023 09:00	EPA-904.0	
97668	MW-11	Aqueous	04/12/2023 15:30	04/14/2023 09:00	EPA-903.1	
97669	MW-13	Aqueous	04/10/2023 14:40	04/14/2023 09:00	EPA-904.0	
97669	MW-13	Aqueous	04/10/2023 14:40	04/14/2023 09:00	EPA-903.1	
97670	MW-14	Aqueous	04/13/2023 11:35	04/14/2023 09:00	EPA-904.0	
97670	MW-14	Aqueous	04/13/2023 11:35	04/14/2023 09:00	EPA-903.1	
97671	MW-14A	Aqueous	04/13/2023 12:20	04/14/2023 09:00	EPA-904.0	

Sample Summary Table

Report Number: 23-104-0001
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
97671	MW-14A	Aqueous	04/13/2023 12:20	04/14/2023 09:00	EPA-903.1	
97672	MW-14B	Aqueous	04/13/2023 13:15	04/14/2023 09:00	EPA-904.0	
97672	MW-14B	Aqueous	04/13/2023 13:15	04/14/2023 09:00	EPA-903.1	
97673	MW-13A	Aqueous	04/11/2023 09:40	04/14/2023 09:00	EPA-904.0	
97673	MW-13A	Aqueous	04/11/2023 09:40	04/14/2023 09:00	EPA-903.1	
97674	MW-15	Aqueous	04/12/2023 08:00	04/14/2023 09:00	EPA-903.1	
97674	MW-15	Aqueous	04/12/2023 08:00	04/14/2023 09:00	EPA-904.0	
97675	MW-16	Aqueous	04/12/2023 09:00	04/14/2023 09:00	EPA-904.0	
97675	MW-16	Aqueous	04/12/2023 09:00	04/14/2023 09:00	EPA-903.1	
97676	MW-17	Aqueous	04/12/2023 10:15	04/14/2023 09:00	EPA-904.0	
97676	MW-17	Aqueous	04/12/2023 10:15	04/14/2023 09:00	EPA-903.1	
97677	MW-18	Aqueous	04/12/2023 16:20	04/14/2023 09:00	EPA-904.0	
97677	MW-18	Aqueous	04/12/2023 16:20	04/14/2023 09:00	EPA-903.1	
97678	MW-19	Aqueous	04/13/2023 08:30	04/14/2023 09:00	EPA-904.0	
97678	MW-19	Aqueous	04/13/2023 08:30	04/14/2023 09:00	EPA-903.1	
97679	MW-20	Aqueous	04/11/2023 14:30	04/14/2023 09:00	EPA-904.0	
97679	MW-20	Aqueous	04/11/2023 14:30	04/14/2023 09:00	EPA-903.1	
97680	MW-21	Aqueous	04/11/2023 16:25	04/14/2023 09:00	EPA-904.0	
97680	MW-21	Aqueous	04/11/2023 16:25	04/14/2023 09:00	EPA-903.1	
97681	MW-22	Aqueous	04/12/2023 14:00	04/14/2023 09:00	EPA-904.0	
97681	MW-22	Aqueous	04/12/2023 14:00	04/14/2023 09:00	EPA-903.1	
97682	MW-24	Aqueous	04/13/2023 07:40	04/14/2023 09:00	EPA-904.0	
97682	MW-24	Aqueous	04/13/2023 07:40	04/14/2023 09:00	EPA-903.1	
97683	MW-25	Aqueous	04/13/2023 10:30	04/14/2023 09:00	EPA-904.0	
97683	MW-25	Aqueous	04/13/2023 10:30	04/14/2023 09:00	EPA-903.1	

May 09, 2023

Ms. Consuelo Bradley
Waypoint Analytical LLC-AL
107A Northside Office Park Dr.
Andalusia, AL 36421

RE: Project: 23-104-0001
Pace Project No.: 30579946

Dear Ms. Bradley:

Enclosed are the analytical results for sample(s) received by the laboratory on April 18, 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

(Greensburg, PA) - Revision 1 - This report replaces the 05/04/23 report. This project was revised on 05/09/23 to split report.

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

Sincerely,



Nikayla M. Yasurek
nikayla.yasurek@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Ms. Kim Stricklan, Waypoint Analytical LLC-AL



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 23-104-0001
Pace Project No.: 30579946

Pace Analytical Services Pennsylvania

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 23-104-0001

Pace Project No.: 30579946

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30579946001	23-104-0001 MW-1	Water	04/11/23 11:40	04/18/23 10:05
30579946002	23-104-0001 MW-2	Water	04/11/23 13:35	04/18/23 10:05
30579946003	23-104-0001 MW-3	Water	04/10/23 13:55	04/18/23 10:05
30579946004	23-104-0001 MW-4	Water	04/10/23 16:00	04/18/23 10:05
30579946005	23-104-0001 MW-6	Water	04/12/23 12:35	04/18/23 10:05
30579946006	23-104-0001 MW-7	Water	04/12/23 11:00	04/18/23 10:05
30579946007	23-104-0001 MW-8	Water	04/12/23 13:20	04/18/23 10:05
30579946008	23-104-0001 MW-9	Water	04/11/23 10:35	04/18/23 10:05
30579946009	23-104-0001 MW-10	Water	04/12/23 14:50	04/18/23 10:05
30579946010	23-104-0001 MW-11	Water	04/12/23 15:30	04/18/23 10:05
30579946011	23-104-0001 MW-13	Water	04/10/23 14:40	04/18/23 10:05
30579946012	23-104-0001 MW-14	Water	04/13/23 11:35	04/18/23 10:05
30579946013	23-104-0001 MW-14A	Water	04/13/23 12:20	04/18/23 10:05
30579946014	23-104-0001 MW-14B	Water	04/13/23 13:15	04/18/23 10:05
30579946015	23-104-0001 MW-13A	Water	04/11/23 09:40	04/18/23 10:05
30579946016	23-104-0001 MW-15	Water	04/12/23 08:00	04/18/23 10:05
30579946017	23-104-0001 MW-16	Water	04/12/23 09:00	04/18/23 10:05
30579946018	23-104-0001 MW-17	Water	04/12/23 10:15	04/18/23 10:05
30579946019	23-104-0001 MW-18	Water	04/12/23 16:20	04/18/23 10:05
30579946020	23-104-0001 MW-19	Water	04/13/23 08:30	04/18/23 10:05
30579946021	23-104-0001 MW-20	Water	04/11/23 14:30	04/18/23 10:05
30579946022	23-104-0001 MW-21	Water	04/11/23 16:25	04/18/23 10:05
30579946023	23-104-0001 MW-22	Water	04/12/23 14:00	04/18/23 10:05
30579946024	23-104-0001 MW-24	Water	04/13/23 07:40	04/18/23 10:05
30579946025	23-104-0001 MW-25	Water	04/13/23 10:30	04/18/23 10:05

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 23-104-0001
Pace Project No.: 30579946

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30579946001	23-104-0001 MW-1	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30579946002	23-104-0001 MW-2	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30579946003	23-104-0001 MW-3	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30579946004	23-104-0001 MW-4	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30579946005	23-104-0001 MW-6	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30579946006	23-104-0001 MW-7	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30579946007	23-104-0001 MW-8	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30579946008	23-104-0001 MW-9	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30579946009	23-104-0001 MW-10	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30579946010	23-104-0001 MW-11	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30579946011	23-104-0001 MW-13	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30579946012	23-104-0001 MW-14	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30579946013	23-104-0001 MW-14A	EPA 903.1	CLM	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 23-104-0001
Pace Project No.: 30579946

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30579946014	23-104-0001 MW-14B	EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
30579946015	23-104-0001 MW-13A	EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
30579946016	23-104-0001 MW-15	EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
30579946017	23-104-0001 MW-16	EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
30579946018	23-104-0001 MW-17	EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
30579946019	23-104-0001 MW-18	EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
30579946020	23-104-0001 MW-19	EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	CLM	1	PASI-PA
30579946021	23-104-0001 MW-20	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	JDZ	1	PASI-PA
30579946022	23-104-0001 MW-21	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	JDZ	1	PASI-PA
30579946023	23-104-0001 MW-22	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	JDZ	1	PASI-PA
30579946024	23-104-0001 MW-24	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	JDZ	1	PASI-PA
30579946025	23-104-0001 MW-25	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	JDZ	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 23-104-0001
Pace Project No.: 30579946

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-104-0001

Pace Project No.: 30579946

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Waypoint Analytical LLC-AL

Date: May 09, 2023

General Information:

25 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-104-0001

Pace Project No.: 30579946

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Waypoint Analytical LLC-AL

Date: May 09, 2023

General Information:

25 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-104-0001
Pace Project No.: 30579946

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: Waypoint Analytical LLC-AL
Date: May 09, 2023

General Information:

25 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-104-0001

Pace Project No.: 30579946

Sample: 23-104-0001 MW-1		Lab ID: 30579946001	Collected: 04/11/23 11:40	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.249 ± 0.380 (0.611) C:NA T:79%	pCi/L	05/02/23 16:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.578 ± 0.425 (0.834) C:81% T:78%	pCi/L	04/28/23 11:37	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.827 ± 0.805 (1.45)	pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-2		Lab ID: 30579946002	Collected: 04/11/23 13:35	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.362 ± 0.333 (0.196) C:NA T:81%	pCi/L	05/02/23 16:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.273 ± 0.340 (0.720) C:85% T:82%	pCi/L	04/28/23 11:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.635 ± 0.673 (0.916)	pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-3		Lab ID: 30579946003	Collected: 04/10/23 13:55	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.195 ± 0.298 (0.480) C:NA T:89%	pCi/L	05/02/23 16:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.483 ± 0.393 (0.782) C:81% T:77%	pCi/L	04/28/23 11:38	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.678 ± 0.691 (1.26)	pCi/L	05/04/23 12:58	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-104-0001

Pace Project No.: 30579946

Sample: 23-104-0001 MW-4		Lab ID: 30579946004	Collected: 04/10/23 16:00	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0690 ± 0.557 (1.09) C:NA T:85%	pCi/L	05/02/23 16:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.47 ± 0.505 (0.683) C:81% T:81%	pCi/L	04/28/23 14:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.54 ± 1.06 (1.77)	pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-6		Lab ID: 30579946005	Collected: 04/12/23 12:35	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.294 ± 0.500 (0.882) C:NA T:80%	pCi/L	05/02/23 16:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.413 ± 0.366 (0.736) C:81% T:76%	pCi/L	04/28/23 14:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.707 ± 0.866 (1.62)	pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-7		Lab ID: 30579946006	Collected: 04/12/23 11:00	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.234 ± 0.405 (0.724) C:NA T:80%	pCi/L	05/02/23 16:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.08 ± 0.469 (0.747) C:81% T:74%	pCi/L	04/28/23 14:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.31 ± 0.874 (1.47)	pCi/L	05/04/23 12:58	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-104-0001

Pace Project No.: 30579946

Sample: 23-104-0001 MW-8		Lab ID: 30579946007	Collected: 04/12/23 13:20	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0711 ± 0.575 (1.18) C:NA T:90%	pCi/L	05/02/23 16:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.310 ± 0.337 (0.702) C:81% T:87%	pCi/L	04/28/23 14:44	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.310 ± 0.912 (1.88)	pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-9		Lab ID: 30579946008	Collected: 04/11/23 10:35	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.605 ± 0.615 (0.931) C:NA T:72%	pCi/L	05/02/23 16:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.755 ± 0.390 (0.678) C:81% T:83%	pCi/L	04/28/23 14:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.36 ± 1.01 (1.61)	pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-10		Lab ID: 30579946009	Collected: 04/12/23 14:50	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.450 ± 0.468 (0.696) C:NA T:76%	pCi/L	05/02/23 16:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.533 ± 0.418 (0.824) C:85% T:70%	pCi/L	04/28/23 14:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.983 ± 0.886 (1.52)	pCi/L	05/04/23 12:58	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-104-0001
Pace Project No.: 30579946

Sample: 23-104-0001 MW-11		Lab ID: 30579946010	Collected: 04/12/23 15:30	Received: 04/18/23 10:05	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.325 ± 0.372 (0.220)		pCi/L	05/02/23 16:43	13982-63-3	
		C:NA T:83%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	1.53 ± 0.550 (0.808)		pCi/L	04/28/23 11:55	15262-20-1	
		C:82% T:73%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.86 ± 0.922 (1.03)		pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-13		Lab ID: 30579946011	Collected: 04/10/23 14:40	Received: 04/18/23 10:05	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.464 ± 0.348 (0.179)		pCi/L	05/02/23 16:43	13982-63-3	
		C:NA T:90%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.772 ± 0.391 (0.687)		pCi/L	04/28/23 11:55	15262-20-1	
		C:81% T:83%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.24 ± 0.739 (0.866)		pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-14		Lab ID: 30579946012	Collected: 04/13/23 11:35	Received: 04/18/23 10:05	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.0730 ± 0.429 (0.877)		pCi/L	05/02/23 16:43	13982-63-3	
		C:NA T:83%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.258 ± 0.396 (0.856)		pCi/L	04/28/23 11:55	15262-20-1	
		C:78% T:75%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.331 ± 0.825 (1.73)		pCi/L	05/04/23 12:58	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-104-0001

Pace Project No.: 30579946

Sample: 23-104-0001 MW-14A		Lab ID: 30579946013	Collected: 04/13/23 12:20	Received: 04/18/23 10:05	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.703 ± 0.443 (0.190)		pCi/L	05/02/23 16:43	13982-63-3	
		C:NA T:82%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.613 ± 0.451 (0.888)		pCi/L	04/28/23 11:55	15262-20-1	
		C:81% T:71%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.32 ± 0.894 (1.08)		pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-14B		Lab ID: 30579946014	Collected: 04/13/23 13:15	Received: 04/18/23 10:05	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.148 ± 0.460 (0.890)		pCi/L	05/02/23 16:43	13982-63-3	
		C:NA T:82%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	1.18 ± 0.445 (0.673)		pCi/L	04/28/23 11:56	15262-20-1	
		C:82% T:83%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.33 ± 0.905 (1.56)		pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-13A		Lab ID: 30579946015	Collected: 04/11/23 09:40	Received: 04/18/23 10:05	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.485 ± 0.454 (0.644)		pCi/L	05/02/23 16:43	13982-63-3	
		C:NA T:85%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.740 ± 0.447 (0.836)		pCi/L	04/28/23 11:56	15262-20-1	
		C:78% T:74%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.23 ± 0.901 (1.48)		pCi/L	05/04/23 12:58	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-104-0001
Pace Project No.: 30579946

Sample: 23-104-0001 MW-15		Lab ID: 30579946016	Collected: 04/12/23 08:00	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0686 ± 0.313 (0.637) C:NA T:86%	pCi/L	05/02/23 16:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.622 ± 0.362 (0.669) C:84% T:84%	pCi/L	04/28/23 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.691 ± 0.675 (1.31)	pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-16		Lab ID: 30579946017	Collected: 04/12/23 09:00	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.425 ± 0.557 (0.928) C:NA T:80%	pCi/L	05/02/23 16:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.561 ± 0.376 (0.721) C:83% T:76%	pCi/L	04/28/23 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.986 ± 0.933 (1.65)	pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-17		Lab ID: 30579946018	Collected: 04/12/23 10:15	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.254 ± 0.599 (1.34) C:NA T:83%	pCi/L	05/02/23 16:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.0709 ± 0.363 (0.825) C:81% T:74%	pCi/L	04/28/23 14:57	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.0709 ± 0.962 (2.17)	pCi/L	05/04/23 12:58	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-104-0001
Pace Project No.: 30579946

Sample: 23-104-0001 MW-18		Lab ID: 30579946019	Collected: 04/12/23 16:20	Received: 04/18/23 10:05	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	-0.551 ± 0.437 (1.11)		pCi/L	05/02/23 16:56	13982-63-3	
		C:NA T:93%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.809 ± 0.389 (0.673)		pCi/L	04/28/23 14:58	15262-20-1	
		C:80% T:90%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.809 ± 0.826 (1.78)		pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-19		Lab ID: 30579946020	Collected: 04/13/23 08:30	Received: 04/18/23 10:05	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.276 ± 0.478 (0.854)		pCi/L	05/02/23 16:56	13982-63-3	
		C:NA T:76%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.321 ± 0.386 (0.817)		pCi/L	04/28/23 14:58	15262-20-1	
		C:83% T:74%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.597 ± 0.864 (1.67)		pCi/L	05/04/23 12:58	7440-14-4	

Sample: 23-104-0001 MW-20		Lab ID: 30579946021	Collected: 04/11/23 14:30	Received: 04/18/23 10:05	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.116 ± 0.425 (0.817)		pCi/L	05/02/23 14:55	13982-63-3	
		C:NA T:98%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.0930 ± 0.285 (0.640)		pCi/L	04/28/23 15:03	15262-20-1	
		C:82% T:92%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.209 ± 0.710 (1.46)		pCi/L	05/03/23 12:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-104-0001
Pace Project No.: 30579946

Sample: 23-104-0001 MW-21		Lab ID: 30579946022	Collected: 04/11/23 16:25	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.393 ± 0.447 (0.706) C:NA T:92%	pCi/L	05/02/23 14:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.382 ± 0.387 (0.807) C:83% T:86%	pCi/L	04/28/23 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.775 ± 0.834 (1.51)	pCi/L	05/03/23 12:49	7440-14-4	

Sample: 23-104-0001 MW-22		Lab ID: 30579946023	Collected: 04/12/23 14:00	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.510 ± 0.562 (0.900) C:NA T:94%	pCi/L	05/02/23 14:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.496 ± 0.346 (0.679) C:82% T:97%	pCi/L	04/28/23 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.01 ± 0.908 (1.58)	pCi/L	05/03/23 12:49	7440-14-4	

Sample: 23-104-0001 MW-24		Lab ID: 30579946024	Collected: 04/13/23 07:40	Received: 04/18/23 10:05	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.0634 ± 0.512 (1.00) C:NA T:96%	pCi/L	05/02/23 15:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.700 ± 0.387 (0.712) C:83% T:91%	pCi/L	04/28/23 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.763 ± 0.899 (1.71)	pCi/L	05/03/23 12:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-104-0001

Pace Project No.: 30579946

Sample: 23-104-0001 MW-25 **Lab ID: 30579946025** Collected: 04/13/23 10:30 Received: 04/18/23 10:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.204 ± 0.518 (0.960) C:NA T:90%	pCi/L	05/02/23 15:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	1.31 ± 0.498 (0.781) C:83% T:83%	pCi/L	04/28/23 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.51 ± 1.02 (1.74)	pCi/L	05/03/23 12:49	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 23-104-0001

Pace Project No.: 30579946

QC Batch: 582464

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30579946001, 30579946002, 30579946003, 30579946004, 30579946005, 30579946006, 30579946007, 30579946008, 30579946009, 30579946010, 30579946011, 30579946012, 30579946013, 30579946014, 30579946015, 30579946016, 30579946017, 30579946018, 30579946019, 30579946020

METHOD BLANK: 2828830

Matrix: Water

Associated Lab Samples: 30579946001, 30579946002, 30579946003, 30579946004, 30579946005, 30579946006, 30579946007, 30579946008, 30579946009, 30579946010, 30579946011, 30579946012, 30579946013, 30579946014, 30579946015, 30579946016, 30579946017, 30579946018, 30579946019, 30579946020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0934 ± 0.224 (0.434) C:NA T:98%	pCi/L	05/02/23 16:25	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 23-104-0001

Pace Project No.: 30579946

QC Batch: 582463

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30579946021, 30579946022, 30579946023, 30579946024, 30579946025

METHOD BLANK: 2828825

Matrix: Water

Associated Lab Samples: 30579946021, 30579946022, 30579946023, 30579946024, 30579946025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.577 ± 0.300 (0.514) C:82% T:92%	pCi/L	04/28/23 15:02	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 23-104-0001

Pace Project No.: 30579946

QC Batch: 582462

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30579946021, 30579946022, 30579946023, 30579946024, 30579946025

METHOD BLANK: 2828819

Matrix: Water

Associated Lab Samples: 30579946021, 30579946022, 30579946023, 30579946024, 30579946025

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0503 ± 0.230 (0.467) C:NA T:99%	pCi/L	05/02/23 14:35	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 23-104-0001
Pace Project No.: 30579946

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.

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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 Main 334.343.9799
 www.waypointanalytical.com

04/17/2023 13:16:11

Page 1 of 6

Export Batch Report

Created: 4/17/2023 13:15:48

Export Batch Id : 619EXP

Computer: WPALMS-157

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code	Description
23-104-0001	05/12/2023	04/11/2023 11:40	MW-1	AQU 97659	EPA-903.1	001	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/11/2023 11:40	MW-1	AQU 97659	EPA-904.0	002	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/11/2023 13:35	MW-2	AQU 97660	EPA-903.1	003	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/11/2023 13:35	MW-2	AQU 97660	EPA-904.0	004	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/10/2023 13:55	MW-3	AQU 97661	EPA-903.1	005	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/10/2023 13:55	MW-3	AQU 97661	EPA-904.0		Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/10/2023 16:00	MW-4	AQU 97662	EPA-903.1		Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/10/2023 16:00	MW-4	AQU 97662	EPA-904.0		Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/12/2023 12:35	MW-6	AQU 97663	EPA-903.1		Radium 226/228/Total Radium (Sub to Pace in PA)

WO# : 30579946



Sampled By	Client	Method of Shipment	Blank / Cooler Temp.
Retinquished By (sign)	Consuelo Bradley	Date / Time	04/17/2023 09:00
Received By (sign)	[Signature]	Date / Time	4-18-23 10:05
Retinquished By (sign)		Date / Time	



107A Northside Office Park Drive, Andalusia, AL 36421
 Main 334.343.9799
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04/17/2023 13:16:11

Export Batch Report

Export Batch Id : 619EXP

Created: 4/17/2023 13:15:48

Computer: WPALMS-157

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No Method No	Fee Code Description
23-104-0001	05/12/2023	04/12/2023 12:35	MW-6	AQU 97663 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/12/2023 11:00	MW-7	AQU 97664 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 006
23-104-0001	05/12/2023	04/12/2023 11:00	MW-7	AQU 97664 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/12/2023 13:20	MW-8	AQU 97665 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 007
23-104-0001	05/12/2023	04/12/2023 13:20	MW-8	AQU 97665 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/11/2023 10:35	MW-9	AQU 97666 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 008
23-104-0001	05/12/2023	04/11/2023 10:35	MW-9	AQU 97666 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/12/2023 14:50	MW-10	AQU 97667 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 009
23-104-0001	05/12/2023	04/12/2023 14:50	MW-10	AQU 97667 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)

WO# : 30579946

PH: NMY Due Date: 05/09/23

CLIENT: WAYPOINT-AL

Sampled By	Method of Shipment	Blank / Cooler Temp.	Received By (sign)	Date / Time
Client			<i>[Signature]</i>	4-18-23 10:05
Requisitioned By (sign)			<i>[Signature]</i>	
Requisitioned By (sign)			<i>[Signature]</i>	



107A Northside Office Park Drive, Andalusia, AL 36421
 Main 334.343.9799
 www.waypointanalytical.com

04/17/2023 13:16:11

Export Batch Report

Export Batch Id : 619EXP

Created: 4/17/2023 13:15:48

Computer: WPALMS-157

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code Description
23-104-0001	05/12/2023	04/12/2023 15:30	MW-11	AQU 97668	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 010
23-104-0001	05/12/2023	04/12/2023 15:30	MW-11	AQU 97668	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/10/2023 14:40	MW-13	AQU 97669	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 011
23-104-0001	05/12/2023	04/10/2023 14:40	MW-13	AQU 97669	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/13/2023 11:35	MW-14	AQU 97670	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 012
23-104-0001	05/12/2023	04/13/2023 11:35	MW-14	AQU 97670	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/13/2023 12:20	MW-14A	AQU 97671	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 013
23-104-0001	05/12/2023	04/13/2023 12:20	MW-14A	AQU 97671	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/13/2023 13:15	MW-14B	AQU 97672	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 014

WO# : 30579946

PH: NMY Due Date: 05/09/23

CLIENT: WAYPOINT-AL

Sampled By	Method of Shipment	Blank / Cooler Temp.	Date / Time	Date / Time
Client			04/17/2023 15:00	4-18-23
Consuelo C Bradley			Received By (sign)	10:05
			Received By (sign)	



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04/17/2023 13:16:11

Export Batch Report

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Created: 4/17/2023 13:15:48

Computer: WPALMS-157

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No Method No	Fee Code Description
23-104-0001	05/12/2023	04/13/2023 13:15	MW-14B	AQU 97672 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/11/2023 09:40	MW-13A	AQU 97673 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 015
23-104-0001	05/12/2023	04/11/2023 09:40	MW-13A	AQU 97673 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/12/2023 08:00	MW-15	AQU 97674 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 016
23-104-0001	05/12/2023	04/12/2023 08:00	MW-15	AQU 97674 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/12/2023 09:00	MW-16	AQU 97675 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 017
23-104-0001	05/12/2023	04/12/2023 09:00	MW-16	AQU 97675 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/12/2023 10:15	MW-17	AQU 97676 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 018
23-104-0001	05/12/2023	04/12/2023 10:15	MW-17	AQU 97676 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)

WO#: 30579946
PM: NMY Due Date: 05/09/23
CLIENT: WAYPOINT-AL

Sampled By	Method of Shipment	Blank / Cooler Temp.	Date / Time
Client			
Retinquished By (sign) Consuelo C Bradley	Date / Time 04/17/2023 15:00	Received By (sign) Z. Alherson	Date / Time 4-18-23 10:05
Retinquished By (sign) 36	Date / Time	Received By (sign)	Date / Time



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04/17/2023 13:16:11

Export Batch Report

Export Batch Id : 619EXP

Created: 4/17/2023 13:15:48

Computer: WPALMS-157

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code Description
23-104-0001	05/12/2023	04/12/2023 16:20	MW-18	AQU 97677	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 019
23-104-0001	05/12/2023	04/12/2023 16:20	MW-18	AQU 97677	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA) 020
23-104-0001	05/12/2023	04/13/2023 08:30	MW-19	AQU 97678	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 021
23-104-0001	05/12/2023	04/13/2023 08:30	MW-19	AQU 97678	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA) 022
23-104-0001	05/12/2023	04/11/2023 14:30	MW-20	AQU 97679	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 023
23-104-0001	05/12/2023	04/11/2023 14:30	MW-20	AQU 97679	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/11/2023 16:25	MW-21	AQU 97680	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/11/2023 16:25	MW-21	AQU 97680	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/12/2023 14:00	MW-22	AQU 97681	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)

WO#: 30579946

PH: NMY Due Date: 05/09/23
 CLIENT: WAYPOINT-AL

Sampled By	Method of Shipment	Blank / Cooler Temp.
Consuelo C Bradley		
Retinquished By (signature)	Date / Time	Received By (signature)
Consuelo C Bradley	04/17/2023 01:50	Z. Roberts
Retinquished By (signature)	Date / Time	Received By (signature)

10:05



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 Main 334.343.9799
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04/17/2023 13:16:11

Export Batch Report

Export Batch Id : 619EXP

Created: 4/17/2023 13:15:48

Computer: WPALMS-157

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

<u>Report No</u>	<u>Due Date</u>	<u>Sample Date</u>	<u>Customer Sample No</u>	<u>Rush Matrix Lab No</u>	<u>Method No</u>	<u>Fee Code</u>	<u>Description</u>
23-104-0001	05/12/2023	04/12/2023 14:00	MW-22	AQU 97681	EPA-904.0	Radium 226/228	Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/13/2023 07:40	MW-24	AQU 97682	EPA-903.1	Radium 226/228	Total Radium (Sub to Pace in PA) 024
23-104-0001	05/12/2023	04/13/2023 07:40	MW-24	AQU 97682	EPA-904.0	Radium 226/228	Total Radium (Sub to Pace in PA)
23-104-0001	05/12/2023	04/13/2023 10:30	MW-25	AQU 97683	EPA-903.1	Radium 226/228	Total Radium (Sub to Pace in PA) 025
23-104-0001	05/12/2023	04/13/2023 10:30	MW-25	AQU 97683	EPA-904.0	Radium 226/228	Total Radium (Sub to Pace in PA)
23-104-0004	05/12/2023	04/10/2023 12:55	TW-1	AQU 97710	EPA-903.1	Radium 226/228	Total Radium (Sub to Pace in PA) 026
23-104-0004	05/12/2023	04/10/2023 12:55	TW-1	AQU 97710	EPA-904.0	Radium 226/228	Total Radium (Sub to Pace in PA)

WO# : 30579946

PM: NMY

Due Date: 05/09/23

CLIENT: WAYPOINT-AL

Sampled By	Method of Shipment	Blank / Cooler Temp.
Client		
Required By (sign) Consuelo Bradley	Date / Time 04/17/2023 0:50	Received By (sign) [Signature]
Required By (sign) 36	Date / Time	Date / Time 4-18-23 10:05

DC#_Title: ENV-FRM-GBUR-0088 v04_Sample Condition Upon Receipt-
Pittsburgh

Effective Date: 02/03/2023



WO#: 30579946

PM: NMY Due Date: 05/09/23
CLIENT: WAYPOINT-AL

Client Name: Pace Waypoint

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking Number: 1Z9X04850145808796

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Thermometer Used: 16 Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp 10.3°C Correction Factor: 0°C Final Temp: 10.3°C
Temp should be above freezing to 6°C

Examined By	<u>PS</u>
Labeled By	<u>PS</u>
Temped By	<u>PS</u>

pH paper Lot#	<u>1003121</u>
D.P.D. Residual Chlorine Lot #	<u> </u>

Comments:	Yes	No	NA	
Chain of Custody Present	/			1.
Chain of Custody Filled Out: -Were client corrections present on COC	/			2.
Chain of Custody Relinquished	/			3.
Sampler Name & Signature on COC:		/		4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	/			5.
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used: -Pace Containers Used	/			10.
Containers Intact:	/			11.
Orthophosphate field filtered:			/	12.
Hex Cr Aqueous samples field filtered:			/	13.
Organic Samples checked for dechlorination			/	14.
Filtered volume received for dissolved tests:			/	15.
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	/			16.
All containers meet method preservation requirements:	/			Initial when completed <u>PS</u> Date/Time of Preservation
				Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			/	17.
624.1: Headspace in VOA Vials (0mm)			/	18.
Trip Blank Present:			/	Trip blank custody seal present? YES or NO
Rad Samples Screened <0.5 mrem/hr.	/			Initial when completed <u>PS</u> Date: Survey Meter SN:
Comments:				

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Client _____ Site 23-104-0001 Profile Number 11627 Notes _____
 Page 1 of 3

Sample Line Item	Amber Glass					Plastic					Vials					Other									
	AG1H	AG3S	AG3U	AG5U	AG5T	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WG9U	WG9V	ZPLC	GJUN	12GN	GN	BG1U	
001																									
002						2																			
003						2																			
004						2																			
005						2																			
006						2																			
007						2																			
008						2																			
009						2																			
010						2																			
011						2																			
012						2																			

WO#: 30579946
 PM: NMY Due Date: 05/09/23
 CLIENT: WAYPOINT-AL

Container Codes

Glass	
GJUN	1 Gallon Jug with HNO3
AG5U	100mL amber glass unpreserved
AG5T	100mL amber glass Na Thiosulfate
GJUN	1 Gallon Jug
AG1S	1L amber glass H2SO4
AG1H	1L amber glass HCl
AG1T	1L amber glass NA Thiosulfate
BG1U	1L clear glass unpreserved
AG3S	250mL amber glass H2SO4
AG3U	250mL amber glass unpreserved
DG9S	40mL amber VOA vial H2SO4
VG9U	40mL clear VOA vial
VG9T	40mL clear VOA vial Na Thiosulfate
VG9H	40mL clear VOA vial HCl
JGFU	4oz amber wide jar
WG9U	4oz wide jar unpreserved
BG2U	500mL clear glass unpreserved
AG2U	500mL amber glass unpreserved
WG9U	8oz wide jar unpreserved
GN	General

Plastic/Misc.	
GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved
EZI	5g Encore
VOAK	Kit Volatile Solid
I	Wipe/Swab
ZPLC	Siploc Bag
WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe

Client _____ Profile Number _____
 Site _____ Notes _____
 Page 2 of 3

Sample Line Item	Matrix	Amber Glass						Plastic						Vials						Other								
		AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WG9U	WGKU	ZPLC	GUCB	GJN	12GN	GN	BG1U	
013	WT						2																					
014							2																					
015							2																					
016							2																					
017							2																					
018							2																					
019							2																					
020							2																					
022							2																					
023							2																					
024							2																					

WO# : 30579946

PM: NNY Due Date: 05/09/23
 CLIENT: WAYPOINT-AL

Container Codes

Glass	
GJN	1 Gallon Jug with HNO3
AG5U	100mL amber glass unpreserved
AG5T	100mL amber glass Na Thiosulfate
GJN	1 Gallon Jug
AG1S	1L amber glass H2SO4
AG1H	1L amber glass HCl
AG1T	1L amber glass NA Thiosulfate
BG1U	1L clear glass unpreserved
AG3S	250mL amber glass H2SO4
AG3U	250mL amber glass unpreserved
DG9S	40mL amber VOA vial H2SO4
VG9U	40mL clear VOA vial
VG9T	40mL clear VOA vial Na Thiosulfate
VG9H	40mL clear VOA vial HCl
JGFU	4oz amber wide jar
WG9U	4oz wide jar unpreserved
BG2U	500mL clear glass unpreserved
AG2U	500mL amber glass unpreserved
WGKU	8oz wide jar unpreserved
GN	General

Plastic/Misc.	
GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250mL plastic NaOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved
EZI	5g Encore
VOAK	Kit Volatile Solid
I	Wipe/Swab
ZPLC	Siploc Bag
WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe



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 Main 334.343.9799
 www.waypointanalytical.com

05/09/2023 09:46:11

Export Batch Report

Export Batch Id : 619EXP

Created: 4/17/2023 13:15:48

Computer: WPALMS-157

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
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From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Sample Date	Rush	Matrix	Lab No	Method No	Fee Code Description
23-104-0001	04/11/2023 11:40		AQU	97659	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/11/2023 11:40		AQU	97659	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/11/2023 13:35		AQU	97660	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/11/2023 13:35		AQU	97660	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/10/2023 13:55		AQU	97661	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/10/2023 13:55		AQU	97661	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/10/2023 16:00		AQU	97662	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/10/2023 16:00		AQU	97662	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 12:35		AQU	97663	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 12:35		AQU	97663	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 11:00		AQU	97664	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 11:00		AQU	97664	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 13:20		AQU	97665	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 13:20		AQU	97665	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/11/2023 10:35		AQU	97666	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/11/2023 10:35		AQU	97666	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 14:50		AQU	97667	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 14:50		AQU	97667	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)

Sampled By <i>Client</i>	Method of Shipment	Blank / Cooler Temp.	
Remarks <i>Reprint</i>			
Relinquished By (sign) <i>C. Bradley</i>	Date / Time <i>2023 04/17/150 @1500</i>	Received By (sign)	Date / Time
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

05/09/2023 09:46:11

Export Batch Report

Export Batch Id : 619EXP

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Computer: WPALMS-157

User: Consuelo C Bradley

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Report No	Sample Date	Rush	Matrix	Lab No	Method No	Fee Code Description
23-104-0001	04/12/2023 15:30		AQU	97668	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 15:30		AQU	97668	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/10/2023 14:40		AQU	97669	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/10/2023 14:40		AQU	97669	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/13/2023 11:35		AQU	97670	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/13/2023 11:35		AQU	97670	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/13/2023 12:20		AQU	97671	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/13/2023 12:20		AQU	97671	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/13/2023 13:15		AQU	97672	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/13/2023 13:15		AQU	97672	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/11/2023 09:40		AQU	97673	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/11/2023 09:40		AQU	97673	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 08:00		AQU	97674	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 08:00		AQU	97674	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 09:00		AQU	97675	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 09:00		AQU	97675	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 10:15		AQU	97676	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 10:15		AQU	97676	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)

Sampled By <i>Client</i>	Method of Shipment	Blank / Cooler Temp.	
Remarks			
Relinquished By (sign) <i>Consuelo C Bradley</i>	Date / Time <i>04/17/2023 @ 15:50</i>	Received By (sign)	Date / Time
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

05/09/2023 09:46:11

Export Batch Report

Export Batch Id : 619EXP

Created: 4/17/2023 13:15:48

Computer: WPALMS-157

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
1638 Roseytown Road / Suites 2,3 & 4
Greensburg, PA 15601
724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
107A Northside Office Park Drive
Andalusia, AL 36421
334-343-9799

Report No	Sample Date	Rush	Matrix	Lab No	Method No	Fee Code Description
23-104-0001	04/12/2023 16:20		AQU	97677	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 16:20		AQU	97677	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/13/2023 08:30		AQU	97678	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/13/2023 08:30		AQU	97678	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/11/2023 14:30		AQU	97679	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/11/2023 14:30		AQU	97679	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/11/2023 16:25		AQU	97680	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/11/2023 16:25		AQU	97680	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 14:00		AQU	97681	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/12/2023 14:00		AQU	97681	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/13/2023 07:40		AQU	97682	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/13/2023 07:40		AQU	97682	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/13/2023 10:30		AQU	97683	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-104-0001	04/13/2023 10:30		AQU	97683	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)

Sampled By <i>Client</i>	Method of Shipment	Blank / Cooler Temp.	
Remarks			
Relinquished By (sign) <i>Consuelo Bradley</i>	Date / Time 04/17/2023 01:50	Received By (sign)	Date / Time
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

Shipment Receipt Form

Customer Number: **00001**

Customer Name: **CDG Engineers Associates**

Report Number: **23-104-0001**

Shipping Method

Fed Ex US Postal Lab Other :
 UPS Client Courier Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:


Date & Time:

Client Name/Address		Client Project Manager/Contact		Billing Information		Method of Shipment		Matrix Key	
CDG Inc		Alan Barck		<input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed		<input type="checkbox"/> Fed Ex <input type="checkbox"/> Courier <input type="checkbox"/> USPS <input type="checkbox"/> Instant Drop Off Other		WW - Wastewater DW - Drinking Water P - Product M - Misc	
Project Description PowerSouth Lowman		Project/Site Location (City/State) Jackson, AL		Project Manager Email		Purchase Order Number		Site/Facility ID #	
Project Number A02123004-001		Project Manager Phone #		Number of Containers 5		Matrix (Refer to Key) S GUG		Required Analysis / Preservation	
Waypoint ANALYTICAL 2793 Whitten Road Memphis, TN 38133 (901) 213-2400		Unless noted, all containers per Table II of 40 CFR Part 136.		(G)rab or (C)omposite		Date 4/11/23 1140 4/11/23 1335 4/10/23 1355 4/10/23 1600 4/12/23 1235 4/12/23 1100 4/12/23 1320 4/11/23 1036 4/12/23 1450 4/12/23 1530		A Cool < 10C B Cool <= 6C C H2SO4 pH<2 D None Required E NaOH pH>10 F HNO3 pH<2 G H I	
Sample Identification MW-1 MW-2 MW-3 MW-4 MW-6 MW-7 MW-8 MW-9 MW-10 MW-11		Sample Time		Sampled by: (Name - Print) Grant Marcus		CDG Engineers Associates 23-104-0001 04-16-2023 18:18:57		CDG Engineers Associates 23-104-0001 04-16-2023 18:07:48	
For Laboratory Use Only Lab Comments		Relinquished by: (SIGNATURE) Relinquished by: (SIGNATURE) Relinquished by: (SIGNATURE)		Client Remarks/Comments		Date Time 4-13-23 1700 Date Time 04/14/23 0900		Received by: (SIGNATURE) Received by: (SIGNATURE) Received by: (SIGNATURE)	
Date 4/11/23 1140 4/11/23 1335 4/10/23 1355 4/10/23 1600 4/12/23 1235 4/12/23 1100 4/12/23 1320 4/11/23 1036 4/12/23 1450 4/12/23 1530		Date 4/11/23 1140 4/11/23 1335 4/10/23 1355 4/10/23 1600 4/12/23 1235 4/12/23 1100 4/12/23 1320 4/11/23 1036 4/12/23 1450 4/12/23 1530		Date Time 4-13-23 1700 Date Time 04/14/23 0900		Date Time 4-13-23 1700 Date Time 04/14/23 0900		Date Time 4-13-23 1700 Date Time 04/14/23 0900	

For Laboratory Use Only

<p>Client Name / Address CDG, Inc</p>	<p>Client Project Manager/Contact</p>	<p>Billing Information</p>	<p>Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> Courier <input type="checkbox"/> Other <input type="checkbox"/> USPS <input type="checkbox"/> Client Drop Off</p>																																																																													
<p>Project Description Power South Lowman</p>	<p>Project/Site Location (City/State)</p>	<p>RUSH - Additional charges apply Special Detection Limit(s) Date Results Needed</p>	<p>Matrix Key WW - Wastewater DW - Drinking Water P - Product W - Groundwater S - Soil/Solid O - Oil M - Misc</p>																																																																													
<p>Project Number 202223004/001</p>	<p>Project Manager (Email)</p>	<p>Project Manager (Phone #)</p>	<p>Site/Facility ID #</p>																																																																													
<p>Waypoint A ANALYTICAL 279 J Whitten Road Memphis, TN 38133 (901) 213-2400</p>	<p>Number of Containers 5</p>	<p>Sample Identification Unless noted, all containers per Table II of 42 CFR Part 136.</p>	<p>Matrix Key A Cool < 10C B Cool <= 6C C H2SO4 pH <= 2 D None Required E NaOH pH > 10 F HNO3 pH < 2 G H⁺ H Cl</p>																																																																													
<table border="1"> <thead> <tr> <th>Date</th> <th>Time</th> <th>Sample Identification</th> <th>Number of Containers</th> <th>Sampled by (Name - Print)</th> <th>Required Analysis / Preservative</th> <th>Client Remarks/Comments</th> </tr> </thead> <tbody> <tr> <td>4/10/23</td> <td>1440</td> <td>MW-13</td> <td>5</td> <td>Grant Marum</td> <td></td> <td></td> </tr> <tr> <td>4/13/23</td> <td>1135</td> <td>MW-14</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4/13/23</td> <td>1220</td> <td>MW-14A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4/13/23</td> <td>1315</td> <td>MW-14B</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4/11/23</td> <td>0940</td> <td>MW-13A</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4/12/23</td> <td>0800</td> <td>MW-15</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4/12/23</td> <td>0900</td> <td>MW-16</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4/12/23</td> <td>1015</td> <td>MW-17</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4/12/23</td> <td>1620</td> <td>MW-18</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4/13/23</td> <td>0830</td> <td>MW-19</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Date	Time	Sample Identification	Number of Containers	Sampled by (Name - Print)	Required Analysis / Preservative	Client Remarks/Comments	4/10/23	1440	MW-13	5	Grant Marum			4/13/23	1135	MW-14					4/13/23	1220	MW-14A					4/13/23	1315	MW-14B					4/11/23	0940	MW-13A					4/12/23	0800	MW-15					4/12/23	0900	MW-16					4/12/23	1015	MW-17					4/12/23	1620	MW-18					4/13/23	0830	MW-19					<p>Barcode 1: 23-104-0001, 04-16-2023, 18:18:57 Barcode 2: 23-104-0001, 04-16-2023, 18:07:48</p>	<p>Barcode 1: 23-104-0001, 04-16-2023, 18:18:57 Barcode 2: 23-104-0001, 04-16-2023, 18:07:48</p>	<p>Barcode 1: 23-104-0001, 04-16-2023, 18:18:57 Barcode 2: 23-104-0001, 04-16-2023, 18:07:48</p>
Date	Time	Sample Identification	Number of Containers	Sampled by (Name - Print)	Required Analysis / Preservative	Client Remarks/Comments																																																																										
4/10/23	1440	MW-13	5	Grant Marum																																																																												
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4/12/23	1620	MW-18																																																																														
4/13/23	0830	MW-19																																																																														
<p>Lab Comments</p>	<p>Relinquished by: (SIGNATURE) <i>Grant Marum</i></p>	<p>Relinquished by: (SIGNATURE) <i>Grant Marum</i></p>	<p>Received by: (SIGNATURE) <i>Carole Pooley</i></p>																																																																													
<p>Date Time 4/13/23 1100</p>	<p>Date Time 04/14/23 0800</p>	<p>Date Time</p>	<p>Date Time</p>																																																																													

For Laboratory Use Only

Client Name / Address CDX, Inc		Billing Information <input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed		Client Project Manager/Contact		Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Courier <input type="checkbox"/> Client Drop Off <input type="checkbox"/> Other		Matrix Key WW - Wastewater W - Groundwater DW - Drinking Water S - Soil / Solid O - Oil P - Product M - Misc	
Project Description Powersouth Lowman		Project/Site Location (City/State)		Project Manager Email		Purchase Order Number		Site/Facility ID #	
Project Number R02123004/001		Project Manager Phone #		Project Manager Email		Purchase Order Number		Site/Facility ID #	
 <p>279 J. Whitten Road Memphis, TN 38133 (901) 213-7400</p>		<p>Unless noted, all containers per Table II of 40 CFR Part 136.</p>		<p>Number of Containers</p>		<p>Matrix (Refer to Key)</p>		<p>(Grab or Composite)</p>	
<p>Sample Identification</p>		<p>Required Analysis / Preservation</p>		<p>Required Analysis / Preservation</p>		<p>Required Analysis / Preservation</p>		<p>Required Analysis / Preservation</p>	
Date	Time	Sample ID	Time	Analysis	Preservation	Analysis	Preservation	Analysis	Preservation
4/14/23	1430	MW-20							
4/14/23	1625	MW-21							
4/14/23	1400	MW-22							
4/13/23	0740	MW-24							
4/15/23	1030	MW-25							
For Laboratory Use Only		Lab Comments		Sampled by: (Name - Print)		Client Remarks/Comments		Date Time	
Y / N	Quantity	Y / N	Y / N	Grant Marcum		4-13-23 1700		04/14/23 0900	
Blank/ Cooler Temp	Y / N	Y / N	Y / N	Relinquished by: (SIGNATURE)		Relinquished by: (SIGNATURE)		Date Time	
				Relinquished by: (SIGNATURE)		Relinquished by: (SIGNATURE)		Date Time	
				Relinquished by: (SIGNATURE)		Relinquished by: (SIGNATURE)		Date Time	

CDG Engineers Associates
00001
04-16-2023
18:07:48
23-104-0001

CDG Engineers Associates
00001
04-16-2023
18:18:57
23-104-0002

5/18/2023

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL, 36420

Ref: Analytical Testing
Revised Lab Report Number: 23-104-9002 (Original Report 23-104-0002)
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Dear Mr. Alan Barck:

Waypoint Analytical, LLC (Andalusia) received sample(s) on 4/14/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

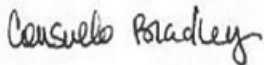
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Consuelo C Bradley

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	SC #84002
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #80215	PA DEP #68-03195

Sample Summary Table

Report Number: 23-104-9002
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
97684	MW-1	Aqueous	04/11/2023 11:40	04/14/2023 09:00	6020A	
97684	MW-1	Aqueous	04/11/2023 11:40	04/14/2023 09:00	6020B	WP MTN
97684	MW-1	Aqueous	04/11/2023 11:40	04/14/2023 09:00	9056A	WP MTN
97684	MW-1	Aqueous	04/11/2023 11:40	04/14/2023 09:00	2540C-2011	WP MTN
97684	MW-1	Aqueous	04/11/2023 11:40	04/14/2023 09:00	7470A	WP MTN
97685	MW-2	Aqueous	04/11/2023 13:35	04/14/2023 09:00	6020A	
97685	MW-2	Aqueous	04/11/2023 13:35	04/14/2023 09:00	7470A	WP MTN
97685	MW-2	Aqueous	04/11/2023 13:35	04/14/2023 09:00	2540C-2011	WP MTN
97685	MW-2	Aqueous	04/11/2023 13:35	04/14/2023 09:00	9056A	WP MTN
97685	MW-2	Aqueous	04/11/2023 13:35	04/14/2023 09:00	6020B	WP MTN
97686	MW-3	Aqueous	04/10/2023 13:55	04/14/2023 09:00	6020A	
97686	MW-3	Aqueous	04/10/2023 13:55	04/14/2023 09:00	6020B	WP MTN
97686	MW-3	Aqueous	04/10/2023 13:55	04/14/2023 09:00	9056A	WP MTN
97686	MW-3	Aqueous	04/10/2023 13:55	04/14/2023 09:00	7470A	WP MTN
97687	MW-4	Aqueous	04/10/2023 16:00	04/14/2023 09:00	6020A	
97687	MW-4	Aqueous	04/10/2023 16:00	04/14/2023 09:00	9056A	WP MTN
97687	MW-4	Aqueous	04/10/2023 16:00	04/14/2023 09:00	7470A	WP MTN
97687	MW-4	Aqueous	04/10/2023 16:00	04/14/2023 09:00	6020B	WP MTN
97688	MW-6	Aqueous	04/12/2023 12:35	04/14/2023 09:00	6020A	
97688	MW-6	Aqueous	04/12/2023 12:35	04/14/2023 09:00	9056A	WP MTN
97688	MW-6	Aqueous	04/12/2023 12:35	04/14/2023 09:00	7470A	WP MTN
97688	MW-6	Aqueous	04/12/2023 12:35	04/14/2023 09:00	6020B	WP MTN
97688	MW-6	Aqueous	04/12/2023 12:35	04/14/2023 09:00	2540C-2011	WP MTN
97689	MW-7	Aqueous	04/12/2023 11:00	04/14/2023 09:00	6020A	
97689	MW-7	Aqueous	04/12/2023 11:00	04/14/2023 09:00	9056A	WP MTN

: Test America Laboratory - PA, Pittsburgh, PA
WP MTN - Memphis, TN: Waypoint Analytical - TN, Memphis, TN

Sample Summary Table

Report Number: 23-104-9002
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
97689	MW-7	Aqueous	04/12/2023 11:00	04/14/2023 09:00	6020B	WP MTN
97689	MW-7	Aqueous	04/12/2023 11:00	04/14/2023 09:00	7470A	WP MTN
97689	MW-7	Aqueous	04/12/2023 11:00	04/14/2023 09:00	2540C-2011	WP MTN
97690	MW-8	Aqueous	04/12/2023 13:20	04/14/2023 09:00	6020A	
97690	MW-8	Aqueous	04/12/2023 13:20	04/14/2023 09:00	6020B	WP MTN
97690	MW-8	Aqueous	04/12/2023 13:20	04/14/2023 09:00	2540C-2011	WP MTN
97690	MW-8	Aqueous	04/12/2023 13:20	04/14/2023 09:00	9056A	WP MTN
97690	MW-8	Aqueous	04/12/2023 13:20	04/14/2023 09:00	7470A	WP MTN
97691	MW-9	Aqueous	04/11/2023 10:35	04/14/2023 09:00	6020A	
97691	MW-9	Aqueous	04/11/2023 10:35	04/14/2023 09:00	9056A	WP MTN
97691	MW-9	Aqueous	04/11/2023 10:35	04/14/2023 09:00	7470A	WP MTN
97691	MW-9	Aqueous	04/11/2023 10:35	04/14/2023 09:00	6020B	WP MTN
97691	MW-9	Aqueous	04/11/2023 10:35	04/14/2023 09:00	2540C-2011	WP MTN
97692	MW-10	Aqueous	04/12/2023 14:50	04/14/2023 09:00	6020A	
97692	MW-10	Aqueous	04/12/2023 14:50	04/14/2023 09:00	9056A	WP MTN
97692	MW-10	Aqueous	04/12/2023 14:50	04/14/2023 09:00	7470A	WP MTN
97692	MW-10	Aqueous	04/12/2023 14:50	04/14/2023 09:00	6020B	WP MTN
97692	MW-10	Aqueous	04/12/2023 14:50	04/14/2023 09:00	2540C-2011	WP MTN
97693	MW-11	Aqueous	04/12/2023 15:30	04/14/2023 09:00	6020A	
97693	MW-11	Aqueous	04/12/2023 15:30	04/14/2023 09:00	9056A	WP MTN
97693	MW-11	Aqueous	04/12/2023 15:30	04/14/2023 09:00	7470A	WP MTN
97693	MW-11	Aqueous	04/12/2023 15:30	04/14/2023 09:00	6020B	WP MTN
97693	MW-11	Aqueous	04/12/2023 15:30	04/14/2023 09:00	2540C-2011	WP MTN
97694	MW-13	Aqueous	04/10/2023 14:40	04/14/2023 09:00	6020A	
97694	MW-13	Aqueous	04/10/2023 14:40	04/14/2023 09:00	9056A	WP MTN

: Test America Laboratory - PA, Pittsburgh, PA
WP MTN - Memphis, TN: Waypoint Analytical - TN, Memphis, TN

Sample Summary Table

Report Number: 23-104-9002
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
97694	MW-13	Aqueous	04/10/2023 14:40	04/14/2023 09:00	7470A	WP MTN
97694	MW-13	Aqueous	04/10/2023 14:40	04/14/2023 09:00	6020B	WP MTN
97695	MW-14	Aqueous	04/13/2023 11:35	04/14/2023 09:00	6020A	
97695	MW-14	Aqueous	04/13/2023 11:35	04/14/2023 09:00	9056A	WP MTN
97695	MW-14	Aqueous	04/13/2023 11:35	04/14/2023 09:00	7470A	WP MTN
97695	MW-14	Aqueous	04/13/2023 11:35	04/14/2023 09:00	6020B	WP MTN
97695	MW-14	Aqueous	04/13/2023 11:35	04/14/2023 09:00	2540C-2011	WP MTN
97696	MW-14A	Aqueous	04/13/2023 12:20	04/14/2023 09:00	6020A	
97696	MW-14A	Aqueous	04/13/2023 12:20	04/14/2023 09:00	9056A	WP MTN
97696	MW-14A	Aqueous	04/13/2023 12:20	04/14/2023 09:00	7470A	WP MTN
97696	MW-14A	Aqueous	04/13/2023 12:20	04/14/2023 09:00	6020B	WP MTN
97696	MW-14A	Aqueous	04/13/2023 12:20	04/14/2023 09:00	2540C-2011	WP MTN
97697	MW-14B	Aqueous	04/13/2023 13:15	04/14/2023 09:00	6020A	
97697	MW-14B	Aqueous	04/13/2023 13:15	04/14/2023 09:00	2540C-2011	WP MTN
97697	MW-14B	Aqueous	04/13/2023 13:15	04/14/2023 09:00	9056A	WP MTN
97697	MW-14B	Aqueous	04/13/2023 13:15	04/14/2023 09:00	7470A	WP MTN
97697	MW-14B	Aqueous	04/13/2023 13:15	04/14/2023 09:00	6020B	WP MTN
97698	MW-13A	Aqueous	04/11/2023 09:40	04/14/2023 09:00	6020A	
97698	MW-13A	Aqueous	04/11/2023 09:40	04/14/2023 09:00	9056A	WP MTN
97698	MW-13A	Aqueous	04/11/2023 09:40	04/14/2023 09:00	7470A	WP MTN
97698	MW-13A	Aqueous	04/11/2023 09:40	04/14/2023 09:00	6020B	WP MTN
97698	MW-13A	Aqueous	04/11/2023 09:40	04/14/2023 09:00	2540C-2011	WP MTN
97699	MW-15	Aqueous	04/12/2023 08:00	04/14/2023 09:00	6020A	
97699	MW-15	Aqueous	04/12/2023 08:00	04/14/2023 09:00	9056A	WP MTN
97699	MW-15	Aqueous	04/12/2023 08:00	04/14/2023 09:00	7470A	WP MTN

: Test America Laboratory - PA, Pittsburgh, PA
WP MTN - Memphis, TN: Waypoint Analytical - TN, Memphis, TN

Sample Summary Table

Report Number: 23-104-9002
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
97699	MW-15	Aqueous	04/12/2023 08:00	04/14/2023 09:00	6020B	WP MTN
97699	MW-15	Aqueous	04/12/2023 08:00	04/14/2023 09:00	2540C-2011	WP MTN
97700	MW-16	Aqueous	04/12/2023 09:00	04/14/2023 09:00	6020A	
97700	MW-16	Aqueous	04/12/2023 09:00	04/14/2023 09:00	9056A	WP MTN
97700	MW-16	Aqueous	04/12/2023 09:00	04/14/2023 09:00	7470A	WP MTN
97700	MW-16	Aqueous	04/12/2023 09:00	04/14/2023 09:00	6020B	WP MTN
97700	MW-16	Aqueous	04/12/2023 09:00	04/14/2023 09:00	2540C-2011	WP MTN
97701	MW-17	Aqueous	04/12/2023 10:15	04/14/2023 09:00	6020A	
97701	MW-17	Aqueous	04/12/2023 10:15	04/14/2023 09:00	9056A	WP MTN
97701	MW-17	Aqueous	04/12/2023 10:15	04/14/2023 09:00	7470A	WP MTN
97701	MW-17	Aqueous	04/12/2023 10:15	04/14/2023 09:00	6020B	WP MTN
97701	MW-17	Aqueous	04/12/2023 10:15	04/14/2023 09:00	2540C-2011	WP MTN
97702	MW-18	Aqueous	04/12/2023 16:20	04/14/2023 09:00	6020A	
97702	MW-18	Aqueous	04/12/2023 16:20	04/14/2023 09:00	9056A	WP MTN
97702	MW-18	Aqueous	04/12/2023 16:20	04/14/2023 09:00	7470A	WP MTN
97702	MW-18	Aqueous	04/12/2023 16:20	04/14/2023 09:00	6020B	WP MTN
97702	MW-18	Aqueous	04/12/2023 16:20	04/14/2023 09:00	2540C-2011	WP MTN
97703	MW-19	Aqueous	04/13/2023 08:30	04/14/2023 09:00	6020A	
97703	MW-19	Aqueous	04/13/2023 08:30	04/14/2023 09:00	9056A	WP MTN
97703	MW-19	Aqueous	04/13/2023 08:30	04/14/2023 09:00	7470A	WP MTN
97703	MW-19	Aqueous	04/13/2023 08:30	04/14/2023 09:00	6020B	WP MTN
97703	MW-19	Aqueous	04/13/2023 08:30	04/14/2023 09:00	2540C-2011	WP MTN
97704	MW-20	Aqueous	04/11/2023 14:30	04/14/2023 09:00	6020A	
97704	MW-20	Aqueous	04/11/2023 14:30	04/14/2023 09:00	9056A	WP MTN
97704	MW-20	Aqueous	04/11/2023 14:30	04/14/2023 09:00	7470A	WP MTN

: Test America Laboratory - PA, Pittsburgh, PA
WP MTN - Memphis, TN: Waypoint Analytical - TN, Memphis, TN

Sample Summary Table

Report Number: 23-104-9002
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
97704	MW-20	Aqueous	04/11/2023 14:30	04/14/2023 09:00	6020B	WP MTN
97704	MW-20	Aqueous	04/11/2023 14:30	04/14/2023 09:00	2540C-2011	WP MTN
97705	MW-21	Aqueous	04/11/2023 16:25	04/14/2023 09:00	6020A	
97705	MW-21	Aqueous	04/11/2023 16:25	04/14/2023 09:00	9056A	WP MTN
97705	MW-21	Aqueous	04/11/2023 16:25	04/14/2023 09:00	7470A	WP MTN
97705	MW-21	Aqueous	04/11/2023 16:25	04/14/2023 09:00	6020B	WP MTN
97705	MW-21	Aqueous	04/11/2023 16:25	04/14/2023 09:00	2540C-2011	WP MTN
97706	MW-22	Aqueous	04/12/2023 14:00	04/14/2023 09:00	6020A	
97706	MW-22	Aqueous	04/12/2023 14:00	04/14/2023 09:00	9056A	WP MTN
97706	MW-22	Aqueous	04/12/2023 14:00	04/14/2023 09:00	7470A	WP MTN
97706	MW-22	Aqueous	04/12/2023 14:00	04/14/2023 09:00	6020B	WP MTN
97706	MW-22	Aqueous	04/12/2023 14:00	04/14/2023 09:00	2540C-2011	WP MTN
97707	MW-24	Aqueous	04/13/2023 07:40	04/14/2023 09:00	6020A	
97707	MW-24	Aqueous	04/13/2023 07:40	04/14/2023 09:00	9056A	WP MTN
97707	MW-24	Aqueous	04/13/2023 07:40	04/14/2023 09:00	7470A	WP MTN
97707	MW-24	Aqueous	04/13/2023 07:40	04/14/2023 09:00	6020B	WP MTN
97707	MW-24	Aqueous	04/13/2023 07:40	04/14/2023 09:00	2540C-2011	WP MTN
97708	MW-25	Aqueous	04/13/2023 10:30	04/14/2023 09:00	6020A	
97708	MW-25	Aqueous	04/13/2023 10:30	04/14/2023 09:00	9056A	WP MTN
97708	MW-25	Aqueous	04/13/2023 10:30	04/14/2023 09:00	7470A	WP MTN
97708	MW-25	Aqueous	04/13/2023 10:30	04/14/2023 09:00	6020B	WP MTN
97708	MW-25	Aqueous	04/13/2023 10:30	04/14/2023 09:00	2540C-2011	WP MTN



Client: CDG Engineers Associates
Project: CDG
Lab Report Number: 23-104-9002
Date: 5/18/2023

CASE NARRATIVE

Metals Analyses Method 6020B

Sample 97707

Analyte: Calcium

QC Batch No: L678063/L676979

The matrix spike and/or the matrix spike duplicate was outside quality control acceptance ranges. A dilution test was performed and passed quality control acceptance ranges. No matrix interference is suspected.

Anions by Ion Chromatography Method 9056A

Sample 97705 (MW-21)

QC Batch No: L677837/L677756

The sample was diluted due to the nature of the sample matrix. Reporting limits have been adjusted accordingly.

This report is revised

The report was revised to include TDS analysis for Sample 97699 (MW-15). The analysis was completed but was mistakenly omitted for the original report.



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00001

CDG Engineers Associates
 Mr. Alan Barck
 P.O. Box 278
 Andalusia, AL 36420

Project CDG
 Information : PowerSouth Lowman
 Project# R021223004

Original Report Date : 05/01/2023
 Revised Report Date: 05/18/2023
 Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97684**
 Sample ID : **MW-1**

Matrix: **Aqueous**
 Sampled: **4/11/2023 11:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	29.9	mg/L	1.00	1	04/21/23 11:22	SRJ	9056A
Chloride	1.87	mg/L	0.400	1	04/21/23 11:22	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 11:22	SRJ	9056A
Total Dissolved Solids	188	mg/L	49.0	1	04/18/23 18:01	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 00:31	CPW	6020B
Arsenic	0.0012	mg/L	0.0010	1	04/22/23 00:31	CPW	6020B
Barium	0.117	mg/L	0.001	1	04/22/23 00:31	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 00:31	CPW	6020B
Boron	0.019	mg/L	0.010	1	04/22/23 00:31	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 00:31	CPW	6020B
Calcium	33.2	mg/L	1.00	5	04/24/23 20:30	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 00:31	CPW	6020B
Cobalt	0.007	mg/L	0.001	1	04/22/23 00:31	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 00:31	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/20/23 13:09	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 00:31	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 00:31	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 00:31	CPW	6020B

**Qualifiers/
Definitions**

DF Dilution Factor MQL Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
Revised Report Date: 05/18/2023
Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97685**
Sample ID : **MW-2**

Matrix: **Aqueous**
Sampled: **4/11/2023 13:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	20.9	mg/L	1.00	1	04/21/23 11:48	SRJ	9056A
Chloride	1.14	mg/L	0.400	1	04/21/23 11:48	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 11:48	SRJ	9056A
Total Dissolved Solids	58.4	mg/L	24.7	1	04/18/23 18:01	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 00:35	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	04/22/23 00:35	CPW	6020B
Barium	0.064	mg/L	0.001	1	04/22/23 00:35	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 00:35	CPW	6020B
Boron	0.018	mg/L	0.010	1	04/22/23 00:35	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 00:35	CPW	6020B
Calcium	3.41	mg/L	0.200	1	04/22/23 00:35	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 00:35	CPW	6020B
Cobalt	0.010	mg/L	0.001	1	04/22/23 00:35	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 00:35	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/20/23 13:10	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 00:35	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 00:35	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 00:35	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
Revised Report Date: 05/18/2023
Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97686**

Matrix: **Aqueous**

Sample ID : **MW-3**

Sampled: **4/10/2023 13:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	26.4	mg/L	1.00	1	04/21/23 12:14	SRJ	9056A
Chloride	1.68	mg/L	0.400	1	04/21/23 12:14	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 12:14	SRJ	9056A
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 00:39	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	04/22/23 00:39	CPW	6020B
Barium	0.092	mg/L	0.001	1	04/22/23 00:39	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 00:39	CPW	6020B
Boron	0.019	mg/L	0.010	1	04/22/23 00:39	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 00:39	CPW	6020B
Calcium	6.57	mg/L	0.200	1	04/22/23 00:39	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 00:39	CPW	6020B
Cobalt	0.021	mg/L	0.001	1	04/22/23 00:39	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 00:39	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 12:52	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 00:39	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 00:39	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 00:39	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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00001

CDG Engineers Associates
 Mr. Alan Barck
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 Andalusia, AL 36420

Project CDG
 Information : PowerSouth Lowman
 Project# R021223004

Original Report Date : 05/01/2023
 Revised Report Date: 05/18/2023
 Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97687**

Matrix: **Aqueous**

Sample ID : **MW-4**

Sampled: **4/10/2023 16:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	678	mg/L	10.0	10	04/21/23 12:53	SRJ	9056A
Chloride	397	mg/L	4.00	10	04/21/23 12:53	SRJ	9056A
Fluoride (w/o distillation)	0.400	mg/L	0.125	1	04/21/23 12:40	SRJ	9056A
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 00:43	CPW	6020B
Arsenic	0.0212	mg/L	0.0010	1	04/22/23 00:43	CPW	6020B
Barium	0.050	mg/L	0.001	1	04/22/23 00:43	CPW	6020B
Beryllium	0.0033	mg/L	0.0010	1	04/22/23 00:43	CPW	6020B
Boron	2.04	mg/L	0.050	5	04/24/23 20:38	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 00:43	CPW	6020B
Calcium	210	mg/L	4.00	20	04/24/23 20:34	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 00:43	CPW	6020B
Cobalt	0.580	mg/L	0.005	5	04/24/23 20:38	CPW	6020B
Lead	0.0013	mg/L	0.0010	1	04/22/23 00:43	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 12:54	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 00:43	CPW	6020B
Selenium	0.005	mg/L	0.001	1	04/22/23 00:43	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 00:43	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
Revised Report Date: 05/18/2023
Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97688**
Sample ID : **MW-6**

Matrix: **Aqueous**
Sampled: **4/12/2023 12:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	123	mg/L	1.00	1	04/21/23 13:06	SRJ	9056A
Chloride	9.31	mg/L	0.400	1	04/21/23 13:06	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 13:06	SRJ	9056A
Total Dissolved Solids	357	mg/L	51.0	1	04/19/23 14:18	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 00:47	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	04/22/23 00:47	CPW	6020B
Barium	0.045	mg/L	0.001	1	04/22/23 00:47	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 00:47	CPW	6020B
Boron	0.166	mg/L	0.010	1	04/22/23 00:47	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 00:47	CPW	6020B
Calcium	75.5	mg/L	2.00	10	04/24/23 20:42	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 00:47	CPW	6020B
Cobalt	0.001	mg/L	0.001	1	04/22/23 00:47	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 00:47	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 12:55	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 00:47	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 00:47	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 00:47	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
Revised Report Date: 05/18/2023
Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97689**

Matrix: **Aqueous**

Sample ID : **MW-7**

Sampled: **4/12/2023 11:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	50.0	mg/L	1.00	1	04/21/23 13:57	SRJ	9056A
Chloride	3.03	mg/L	0.400	1	04/21/23 13:57	SRJ	9056A
Fluoride (w/o distillation)	1.98	mg/L	0.125	1	04/21/23 13:57	SRJ	9056A
Total Dissolved Solids	278	mg/L	50.0	1	04/19/23 14:18	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 00:51	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	04/22/23 00:51	CPW	6020B
Barium	0.084	mg/L	0.001	1	04/22/23 00:51	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 00:51	CPW	6020B
Boron	0.830	mg/L	0.010	1	04/22/23 00:51	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 00:51	CPW	6020B
Calcium	65.0	mg/L	2.00	10	04/24/23 20:54	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 00:51	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	04/22/23 00:51	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 00:51	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 12:59	FDS	7470A
Molybdenum	0.012	mg/L	0.001	1	04/22/23 00:51	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 00:51	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 00:51	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
Revised Report Date: 05/18/2023
Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97690**

Matrix: **Aqueous**

Sample ID : **MW-8**

Sampled: **4/12/2023 13:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	<1.00	mg/L	1.00	1	04/21/23 14:23	SRJ	9056A
Chloride	13.8	mg/L	0.400	1	04/21/23 14:23	SRJ	9056A
Fluoride (w/o distillation)	0.225	mg/L	0.125	1	04/21/23 14:23	SRJ	9056A
Total Dissolved Solids	198	mg/L	50.5	1	04/19/23 14:18	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 00:55	CPW	6020B
Arsenic	0.0125	mg/L	0.0010	1	04/22/23 00:55	CPW	6020B
Barium	0.072	mg/L	0.001	1	04/22/23 00:55	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 00:55	CPW	6020B
Boron	0.260	mg/L	0.010	1	04/22/23 00:55	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 00:55	CPW	6020B
Calcium	50.0	mg/L	1.00	5	04/24/23 20:57	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 00:55	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	04/22/23 00:55	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 00:55	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 13:01	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 00:55	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 00:55	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 00:55	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
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Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97691**
Sample ID : **MW-9**

Matrix: **Aqueous**
Sampled: **4/11/2023 10:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	602	mg/L	10.0	10	04/21/23 15:02	SRJ	9056A
Chloride	131	mg/L	4.00	10	04/21/23 15:02	SRJ	9056A
Fluoride (w/o distillation)	0.140	mg/L	0.125	1	04/21/23 14:49	SRJ	9056A
Total Dissolved Solids	1200	mg/L	83.3	1	04/18/23 18:01	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 00:58	CPW	6020B
Arsenic	0.0011	mg/L	0.0010	1	04/22/23 00:58	CPW	6020B
Barium	0.049	mg/L	0.001	1	04/22/23 00:58	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 00:58	CPW	6020B
Boron	5.04	mg/L	0.100	10	04/24/23 21:05	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 00:58	CPW	6020B
Calcium	132	mg/L	10.0	50	04/24/23 21:01	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 00:58	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	04/22/23 00:58	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 00:58	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 13:02	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 00:58	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 00:58	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 00:58	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
Revised Report Date: 05/18/2023
Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97692**

Matrix: **Aqueous**

Sample ID : **MW-10**

Sampled: **4/12/2023 14:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	296	mg/L	10.0	10	04/21/23 15:28	SRJ	9056A
Chloride	83.4	mg/L	0.400	1	04/21/23 15:15	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 15:15	SRJ	9056A
Total Dissolved Solids	563	mg/L	51.0	1	04/19/23 14:18	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 01:02	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	04/22/23 01:02	CPW	6020B
Barium	0.030	mg/L	0.001	1	04/22/23 01:02	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 01:02	CPW	6020B
Boron	0.537	mg/L	0.010	1	04/22/23 01:02	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 01:02	CPW	6020B
Calcium	90.9	mg/L	2.00	10	04/24/23 21:09	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 01:02	CPW	6020B
Cobalt	0.004	mg/L	0.001	1	04/22/23 01:02	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 01:02	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 13:04	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 01:02	CPW	6020B
Selenium	0.001	mg/L	0.001	1	04/22/23 01:02	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 01:02	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
Revised Report Date: 05/18/2023
Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97693**

Matrix: **Aqueous**

Sample ID : **MW-11**

Sampled: **4/12/2023 15:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	260	mg/L	10.0	10	04/21/23 15:53	SRJ	9056A
Chloride	33.8	mg/L	0.400	1	04/21/23 15:41	SRJ	9056A
Fluoride (w/o distillation)	1.74	mg/L	0.125	1	04/21/23 15:41	SRJ	9056A
Total Dissolved Solids	634	mg/L	50.5	1	04/19/23 14:18	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 01:14	CPW	6020B
Arsenic	0.0028	mg/L	0.0010	1	04/22/23 01:14	CPW	6020B
Barium	0.036	mg/L	0.001	1	04/22/23 01:14	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 01:14	CPW	6020B
Boron	1.05	mg/L	0.200	20	04/24/23 21:13	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 01:14	CPW	6020B
Calcium	185	mg/L	4.00	20	04/24/23 21:13	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 01:14	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	04/22/23 01:14	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 01:14	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 13:05	FDS	7470A
Molybdenum	0.092	mg/L	0.001	1	04/22/23 01:14	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 01:14	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 01:14	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
Revised Report Date: 05/18/2023
Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97694**
Sample ID : **MW-13**

Matrix: **Aqueous**
Sampled: **4/10/2023 14:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	27.9	mg/L	1.00	1	04/21/23 16:32	SRJ	9056A
Chloride	1.94	mg/L	0.400	1	04/21/23 16:32	SRJ	9056A
Fluoride (w/o distillation)	0.130	mg/L	0.125	1	04/21/23 16:32	SRJ	9056A
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 01:18	CPW	6020B
Arsenic	0.0098	mg/L	0.0010	1	04/22/23 01:18	CPW	6020B
Barium	0.096	mg/L	0.001	1	04/22/23 01:18	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 01:18	CPW	6020B
Boron	0.204	mg/L	0.010	1	04/22/23 01:18	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 01:18	CPW	6020B
Calcium	53.8	mg/L	2.00	10	04/24/23 21:17	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 01:18	CPW	6020B
Cobalt	0.002	mg/L	0.001	1	04/22/23 01:18	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 01:18	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 13:06	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 01:18	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 01:18	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 01:18	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
Revised Report Date: 05/18/2023
Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97695**
Sample ID : **MW-14**

Matrix: **Aqueous**
Sampled: **4/13/2023 11:35**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	214	mg/L	10.0	10	04/21/23 17:11	SRJ	9056A
Chloride	78.1	mg/L	0.400	1	04/21/23 16:58	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 16:58	SRJ	9056A
Total Dissolved Solids	466	mg/L	50.0	1	04/20/23 17:15	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 01:22	CPW	6020B
Arsenic	0.0140	mg/L	0.0010	1	04/22/23 01:22	CPW	6020B
Barium	0.111	mg/L	0.001	1	04/22/23 01:22	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 01:22	CPW	6020B
Boron	1.12	mg/L	0.100	10	04/24/23 21:21	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 01:22	CPW	6020B
Calcium	102	mg/L	2.00	10	04/24/23 21:21	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 01:22	CPW	6020B
Cobalt	0.059	mg/L	0.001	1	04/22/23 01:22	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 01:22	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 13:08	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 01:22	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 01:22	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 01:22	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
Revised Report Date: 05/18/2023
Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97696**
Sample ID : **MW-14A**

Matrix: **Aqueous**
Sampled: **4/13/2023 12:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	91.0	mg/L	1.00	1	04/21/23 17:24	SRJ	9056A
Chloride	46.3	mg/L	0.400	1	04/21/23 17:24	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 17:24	SRJ	9056A
Total Dissolved Solids	392	mg/L	52.0	1	04/20/23 17:15	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 01:26	CPW	6020B
Arsenic	0.0067	mg/L	0.0010	1	04/22/23 01:26	CPW	6020B
Barium	0.055	mg/L	0.001	1	04/22/23 01:26	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 01:26	CPW	6020B
Boron	0.851	mg/L	0.010	1	04/22/23 01:26	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 01:26	CPW	6020B
Calcium	97.0	mg/L	2.00	10	04/24/23 21:25	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 01:26	CPW	6020B
Cobalt	0.035	mg/L	0.001	1	04/22/23 01:26	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 01:26	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 13:09	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 01:26	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 01:26	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 01:26	CPW	6020B

**Qualifiers/
Definitions**

DF Dilution Factor MQL Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
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Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97697**
Sample ID : **MW-14B**

Matrix: **Aqueous**
Sampled: **4/13/2023 13:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	73.6	mg/L	1.00	1	04/21/23 17:50	SRJ	9056A
Chloride	63.1	mg/L	0.400	1	04/21/23 17:50	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 17:50	SRJ	9056A
Total Dissolved Solids	294	mg/L	52.0	1	04/20/23 17:15	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 01:30	CPW	6020B
Arsenic	0.0010	mg/L	0.0010	1	04/22/23 01:30	CPW	6020B
Barium	0.069	mg/L	0.001	1	04/22/23 01:30	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 01:30	CPW	6020B
Boron	0.338	mg/L	0.010	1	04/22/23 01:30	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 01:30	CPW	6020B
Calcium	48.3	mg/L	1.00	5	04/24/23 21:29	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 01:30	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	04/22/23 01:30	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 01:30	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 13:11	FDS	7470A
Molybdenum	0.023	mg/L	0.001	1	04/22/23 01:30	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 01:30	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 01:30	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
Revised Report Date: 05/18/2023
Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97698**
Sample ID : **MW-13A**

Matrix: **Aqueous**
Sampled: **4/11/2023 9:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	91.3	mg/L	1.00	1	04/21/23 18:16	SRJ	9056A
Chloride	71.3	mg/L	0.400	1	04/21/23 18:16	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 18:16	SRJ	9056A
Total Dissolved Solids	308	mg/L	51.0	1	04/18/23 18:01	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 01:34	CPW	6020B
Arsenic	0.0081	mg/L	0.0010	1	04/22/23 01:34	CPW	6020B
Barium	0.151	mg/L	0.001	1	04/22/23 01:34	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 01:34	CPW	6020B
Boron	0.068	mg/L	0.010	1	04/22/23 01:34	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 01:34	CPW	6020B
Calcium	27.6	mg/L	1.00	5	04/24/23 21:40	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 01:34	CPW	6020B
Cobalt	0.011	mg/L	0.001	1	04/22/23 01:34	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 01:34	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 13:12	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 01:34	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 01:34	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 01:34	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
Revised Report Date: 05/18/2023
Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97699**
Sample ID : **MW-15**

Matrix: **Aqueous**
Sampled: **4/12/2023 8:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	23.1	mg/L	1.00	1	04/21/23 19:07	SRJ	9056A
Chloride	4.91	mg/L	0.400	1	04/21/23 19:07	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 19:07	SRJ	9056A
Total Dissolved Solids	85.7	mg/L	50.0	1	04/19/23 14:18	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 01:38	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	04/22/23 01:38	CPW	6020B
Barium	0.048	mg/L	0.001	1	04/22/23 01:38	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 01:38	CPW	6020B
Boron	0.026	mg/L	0.010	1	04/22/23 01:38	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 01:38	CPW	6020B
Calcium	9.78	mg/L	0.200	1	04/22/23 01:38	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 01:38	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	04/22/23 01:38	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 01:38	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 13:16	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 01:38	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 01:38	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 01:38	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
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Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97700**
Sample ID : **MW-16**

Matrix: **Aqueous**
Sampled: **4/12/2023 9:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	52.1	mg/L	1.00	1	04/21/23 19:33	SRJ	9056A
Chloride	32.2	mg/L	0.400	1	04/21/23 19:33	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 19:33	SRJ	9056A
Total Dissolved Solids	322	mg/L	50.0	1	04/19/23 14:18	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 01:42	CPW	6020B
Arsenic	0.0014	mg/L	0.0010	1	04/22/23 01:42	CPW	6020B
Barium	0.092	mg/L	0.001	1	04/22/23 01:42	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 01:42	CPW	6020B
Boron	0.550	mg/L	0.010	1	04/22/23 01:42	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 01:42	CPW	6020B
Calcium	59.3	mg/L	2.00	10	04/24/23 21:44	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 01:42	CPW	6020B
Cobalt	0.006	mg/L	0.001	1	04/22/23 01:42	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 01:42	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/21/23 13:18	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 01:42	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 01:42	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 01:42	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
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Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97701**

Matrix: **Aqueous**

Sample ID : **MW-17**

Sampled: **4/12/2023 10:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	157	mg/L	10.0	10	04/21/23 20:12	SRJ	9056A
Chloride	102	mg/L	4.00	10	04/21/23 20:12	SRJ	9056A
Fluoride (w/o distillation)	1.43	mg/L	0.125	1	04/21/23 19:59	SRJ	9056A
Total Dissolved Solids	603	mg/L	80.6	1	04/19/23 14:18	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 01:46	CPW	6020B
Arsenic	0.0569	mg/L	0.0010	1	04/22/23 01:46	CPW	6020B
Barium	0.054	mg/L	0.001	1	04/22/23 01:46	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 01:46	CPW	6020B
Boron	2.33	mg/L	0.050	5	04/24/23 21:52	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 01:46	CPW	6020B
Calcium	115	mg/L	4.00	20	04/24/23 21:48	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 01:46	CPW	6020B
Cobalt	0.016	mg/L	0.001	1	04/22/23 01:46	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 01:46	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/26/23 12:57	FDS	7470A
Molybdenum	0.089	mg/L	0.001	1	04/22/23 01:46	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 01:46	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 01:46	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
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Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97702**
Sample ID : **MW-18**

Matrix: **Aqueous**
Sampled: **4/12/2023 16:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	2.04	mg/L	1.00	1	04/21/23 20:25	SRJ	9056A
Chloride	12.5	mg/L	0.400	1	04/21/23 20:25	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 20:25	SRJ	9056A
Total Dissolved Solids	208	mg/L	51.5	1	04/19/23 14:18	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 01:49	CPW	6020B
Arsenic	0.0109	mg/L	0.0010	1	04/22/23 01:49	CPW	6020B
Barium	0.186	mg/L	0.001	1	04/22/23 01:49	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 01:49	CPW	6020B
Boron	0.098	mg/L	0.010	1	04/22/23 01:49	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 01:49	CPW	6020B
Calcium	43.9	mg/L	2.00	10	04/24/23 21:56	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 01:49	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	04/22/23 01:49	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 01:49	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/26/23 12:59	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 01:49	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 01:49	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 01:49	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
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Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97703**
Sample ID : **MW-19**

Matrix: **Aqueous**
Sampled: **4/13/2023 8:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	63.4	mg/L	1.00	1	04/21/23 20:50	SRJ	9056A
Chloride	9.32	mg/L	0.400	1	04/21/23 20:50	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 20:50	SRJ	9056A
Total Dissolved Solids	126	mg/L	50.0	1	04/20/23 17:15	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 03:39	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	04/22/23 03:39	CPW	6020B
Barium	0.052	mg/L	0.001	1	04/22/23 03:39	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 03:39	CPW	6020B
Boron	0.186	mg/L	0.010	1	04/22/23 03:39	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 03:39	CPW	6020B
Calcium	26.5	mg/L	1.00	5	04/24/23 18:49	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 03:39	CPW	6020B
Cobalt	0.001	mg/L	0.001	1	04/22/23 03:39	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 03:39	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/26/23 13:00	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 03:39	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 03:39	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 03:39	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
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Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97704**
Sample ID : **MW-20**

Matrix: **Aqueous**
Sampled: **4/11/2023 14:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	14.5	mg/L	1.00	1	04/21/23 21:42	SRJ	9056A
Chloride	5.15	mg/L	0.400	1	04/21/23 21:42	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 21:42	SRJ	9056A
Total Dissolved Solids	210	mg/L	50.5	1	04/18/23 18:01	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 03:43	CPW	6020B
Arsenic	0.0259	mg/L	0.0010	1	04/22/23 03:43	CPW	6020B
Barium	0.122	mg/L	0.001	1	04/22/23 03:43	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 03:43	CPW	6020B
Boron	0.064	mg/L	0.010	1	04/22/23 03:43	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 03:43	CPW	6020B
Calcium	47.0	mg/L	1.00	5	04/24/23 18:53	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 03:43	CPW	6020B
Cobalt	0.003	mg/L	0.001	1	04/22/23 03:43	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 03:43	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/26/23 13:05	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 03:43	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 03:43	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 03:43	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
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Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97705**

Matrix: **Aqueous**

Sample ID : **MW-21**

Sampled: **4/11/2023 16:25**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	38.9	mg/L	10.0	10	04/21/23 22:08	SRJ	9056A
Chloride	19.9	mg/L	4.00	10	04/21/23 22:08	SRJ	9056A
Fluoride (w/o distillation)	<1.25	mg/L	1.25	10	04/21/23 22:08	SRJ	9056A
Total Dissolved Solids	312	mg/L	51.0	1	04/18/23 18:01	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 03:47	CPW	6020B
Arsenic	0.0055	mg/L	0.0010	1	04/22/23 03:47	CPW	6020B
Barium	0.090	mg/L	0.001	1	04/22/23 03:47	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 03:47	CPW	6020B
Boron	0.276	mg/L	0.010	1	04/22/23 03:47	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 03:47	CPW	6020B
Calcium	80.1	mg/L	2.00	10	04/24/23 18:57	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 03:47	CPW	6020B
Cobalt	0.001	mg/L	0.001	1	04/22/23 03:47	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 03:47	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/26/23 13:06	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 03:47	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 03:47	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 03:47	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
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Received : 04/14/2023

Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97706**
Sample ID : **MW-22**

Matrix: **Aqueous**
Sampled: **4/12/2023 14:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	1.42	mg/L	1.00	1	04/21/23 22:34	SRJ	9056A
Chloride	11.6	mg/L	0.400	1	04/21/23 22:34	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/21/23 22:34	SRJ	9056A
Total Dissolved Solids	402	mg/L	51.0	1	04/19/23 14:18	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 03:51	CPW	6020B
Arsenic	0.0024	mg/L	0.0010	1	04/22/23 03:51	CPW	6020B
Barium	0.139	mg/L	0.001	1	04/22/23 03:51	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 03:51	CPW	6020B
Boron	0.099	mg/L	0.010	1	04/22/23 03:51	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 03:51	CPW	6020B
Calcium	124	mg/L	4.00	20	04/24/23 19:00	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 03:51	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	04/22/23 03:51	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 03:51	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/26/23 13:07	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/22/23 03:51	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 03:51	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 03:51	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
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Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97707**

Matrix: **Aqueous**

Sample ID : **MW-24**

Sampled: **4/13/2023 7:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	214	mg/L	10.0	10	04/21/23 23:12	SRJ	9056A
Chloride	75.4	mg/L	0.400	1	04/21/23 22:59	SRJ	9056A
Fluoride (w/o distillation)	1.11	mg/L	0.125	1	04/21/23 22:59	SRJ	9056A
Total Dissolved Solids	543	mg/L	51.0	1	04/20/23 17:15	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/22/23 03:55	CPW	6020B
Arsenic	0.0033	mg/L	0.0010	1	04/22/23 03:55	CPW	6020B
Barium	0.121	mg/L	0.001	1	04/22/23 03:55	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/22/23 03:55	CPW	6020B
Boron	1.83	mg/L	0.100	10	04/24/23 19:08	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/22/23 03:55	CPW	6020B
Calcium	122	mg/L	2.00	10	04/24/23 19:08	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/22/23 03:55	CPW	6020B
Cobalt	0.004	mg/L	0.001	1	04/22/23 03:55	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/22/23 03:55	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/26/23 13:09	FDS	7470A
Molybdenum	0.008	mg/L	0.001	1	04/22/23 03:55	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/22/23 03:55	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/22/23 03:55	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

00001

CDG Engineers Associates
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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Original Report Date : 05/01/2023
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Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97708**

Matrix: **Aqueous**

Sample ID : **MW-25**

Sampled: **4/13/2023 10:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	708	mg/L	10.0	10	04/21/23 23:38	SRJ	9056A
Chloride	232	mg/L	4.00	10	04/21/23 23:38	SRJ	9056A
Fluoride (w/o distillation)	0.719	mg/L	0.125	1	04/21/23 23:25	SRJ	9056A
Total Dissolved Solids	1360	mg/L	78.1	1	04/20/23 17:15	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/21/23 05:53	CPW	6020B
Arsenic	0.0146	mg/L	0.0010	1	04/21/23 05:53	CPW	6020B
Barium	0.036	mg/L	0.001	1	04/21/23 05:53	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/21/23 05:53	CPW	6020B
Boron	9.05	mg/L	0.200	20	04/21/23 17:56	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/21/23 05:53	CPW	6020B
Calcium	261	mg/L	4.00	20	04/21/23 17:56	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/21/23 05:53	CPW	6020B
Cobalt	0.001	mg/L	0.001	1	04/21/23 05:53	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/21/23 05:53	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/26/23 13:10	FDS	7470A
Molybdenum	0.093	mg/L	0.001	1	04/21/23 05:53	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/21/23 05:53	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/21/23 05:53	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Consuelo Bradley
Waypoint Analytical, Inc.
107A Northside Office Park Drive
Andalusia, Alabama 36421

Generated 5/1/2023 6:13:16 AM

JOB DESCRIPTION

23-104-0002

JOB NUMBER

180-155217-1

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



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5/1/2023 6:13:16 AM

Authorized for release by
Andy Johnson, Manager of Project Management
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(615)301-5045



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Case Narrative

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

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Job ID: 180-155217-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative
180-155217-1

Receipt

The samples were received on 4/18/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-23 *
Connecticut	State	PH-0590	06-29-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-28-24
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23 *
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-23 *
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-28-24
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-155217-1	MW-1	Water	04/11/23 11:40	04/18/23 09:30
180-155217-2	MW-2	Water	04/11/23 13:35	04/18/23 09:30
180-155217-3	MW-3	Water	04/10/23 13:55	04/18/23 09:30
180-155217-4	MW-4	Water	04/10/23 16:00	04/18/23 09:30
180-155217-5	MW-6	Water	04/12/23 12:35	04/18/23 09:30
180-155217-6	MW-7	Water	04/12/23 11:00	04/18/23 09:30
180-155217-7	MW-8	Water	04/12/23 13:20	04/18/23 09:30
180-155217-8	MW-9	Water	04/11/23 10:35	04/18/23 09:30
180-155217-9	MW-10	Water	04/12/23 14:50	04/18/23 09:30
180-155217-10	MW-18	Water	04/12/23 16:20	04/18/23 09:30
180-155217-11	MW-19	Water	04/13/23 08:30	04/18/23 09:30
180-155217-12	MW-20	Water	04/11/23 14:30	04/18/23 09:30
180-155217-13	MW-21	Water	04/11/23 16:25	04/18/23 09:30
180-155217-14	MW-22	Water	04/12/23 14:00	04/18/23 09:30
180-155217-15	MW-24	Water	04/13/23 07:40	04/18/23 09:30
180-155217-16	MW-25	Water	04/13/23 10:30	04/18/23 09:30
180-155217-17	TW-1	Water	04/10/23 12:55	04/18/23 09:30
180-155217-18	MW-11	Water	04/12/23 15:30	04/18/23 09:30
180-155217-19	MW-13	Water	04/10/23 14:40	04/18/23 09:30
180-155217-20	MW-14	Water	04/13/23 11:35	04/18/23 09:30
180-155217-21	MW-14A	Water	04/13/23 12:20	04/18/23 09:30
180-155217-22	MW-14B	Water	04/13/23 13:15	04/18/23 09:30
180-155217-23	MW-13A	Water	04/11/23 09:40	04/18/23 09:30
180-155217-24	MW-15	Water	04/12/23 08:00	04/18/23 09:30
180-155217-25	MW-16	Water	04/12/23 09:00	04/18/23 09:30
180-155217-26	MW-17	Water	04/12/23 10:15	04/18/23 09:30

Method Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Method	Method Description	Protocol	Laboratory
EPA 6020A	Metals (ICP/MS)	SW846	EET CLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Client Sample ID: MW-1

Lab Sample ID: 180-155217-1

Date Collected: 04/11/23 11:40

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 19:27	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-2

Lab Sample ID: 180-155217-2

Date Collected: 04/11/23 13:35

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 19:46	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-3

Lab Sample ID: 180-155217-3

Date Collected: 04/10/23 13:55

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 19:49	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-4

Lab Sample ID: 180-155217-4

Date Collected: 04/10/23 16:00

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 19:51	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-6

Lab Sample ID: 180-155217-5

Date Collected: 04/12/23 12:35

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 19:54	AJC	EET CLE
Instrument ID: I14										

Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Client Sample ID: MW-7

Lab Sample ID: 180-155217-6

Date Collected: 04/12/23 11:00

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 19:57	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-8

Lab Sample ID: 180-155217-7

Date Collected: 04/12/23 13:20

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 19:59	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-9

Lab Sample ID: 180-155217-8

Date Collected: 04/11/23 10:35

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:02	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-10

Lab Sample ID: 180-155217-9

Date Collected: 04/12/23 14:50

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:10	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-18

Lab Sample ID: 180-155217-10

Date Collected: 04/12/23 16:20

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:13	AJC	EET CLE
Instrument ID: I14										

Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Client Sample ID: MW-19

Lab Sample ID: 180-155217-11

Date Collected: 04/13/23 08:30

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:16	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-20

Lab Sample ID: 180-155217-12

Date Collected: 04/11/23 14:30

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:19	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-21

Lab Sample ID: 180-155217-13

Date Collected: 04/11/23 16:25

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:21	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-22

Lab Sample ID: 180-155217-14

Date Collected: 04/12/23 14:00

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:24	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-24

Lab Sample ID: 180-155217-15

Date Collected: 04/13/23 07:40

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:27	AJC	EET CLE
Instrument ID: I14										

Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Client Sample ID: MW-25

Lab Sample ID: 180-155217-16

Date Collected: 04/13/23 10:30

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:29	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: TW-1

Lab Sample ID: 180-155217-17

Date Collected: 04/10/23 12:55

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:32	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-11

Lab Sample ID: 180-155217-18

Date Collected: 04/12/23 15:30

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:35	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-13

Lab Sample ID: 180-155217-19

Date Collected: 04/10/23 14:40

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:43	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-14

Lab Sample ID: 180-155217-20

Date Collected: 04/13/23 11:35

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:46	AJC	EET CLE
Instrument ID: I14										

Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Client Sample ID: MW-14A

Lab Sample ID: 180-155217-21

Date Collected: 04/13/23 12:20

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571102	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 15:01	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-14B

Lab Sample ID: 180-155217-22

Date Collected: 04/13/23 13:15

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571102	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 15:15	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-13A

Lab Sample ID: 180-155217-23

Date Collected: 04/11/23 09:40

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571102	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 15:17	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-15

Lab Sample ID: 180-155217-24

Date Collected: 04/12/23 08:00

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571102	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 15:25	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-16

Lab Sample ID: 180-155217-25

Date Collected: 04/12/23 09:00

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571102	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 15:28	AJC	EET CLE
Instrument ID: I14										

Eurofins Pittsburgh

Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Client Sample ID: MW-17

Lab Sample ID: 180-155217-26

Date Collected: 04/12/23 10:15

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571102	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 15:31	AJC	EET CLE

Instrument ID: I14

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Analyst References:

Lab: EET CLE

Batch Type: Prep

AJC = Alexander Colosi

Batch Type: Analysis

AJC = Alexander Colosi

Client Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Client Sample ID: MW-1

Date Collected: 04/11/23 11:40

Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-1

Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 19:27	1

Client Sample ID: MW-2

Date Collected: 04/11/23 13:35

Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-2

Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 19:46	1

Client Sample ID: MW-3

Date Collected: 04/10/23 13:55

Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-3

Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 19:49	1

Client Sample ID: MW-4

Date Collected: 04/10/23 16:00

Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-4

Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 19:51	1

Client Sample ID: MW-6

Date Collected: 04/12/23 12:35

Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-5

Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 19:54	1

Client Sample ID: MW-7

Date Collected: 04/12/23 11:00

Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-6

Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0784		0.00800		mg/L		04/27/23 14:00	04/28/23 19:57	1

Client Sample ID: MW-8

Date Collected: 04/12/23 13:20

Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-7

Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 19:59	1

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Client Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Client Sample ID: MW-9

Lab Sample ID: 180-155217-8

Date Collected: 04/11/23 10:35

Matrix: Water

Date Received: 04/18/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 20:02	1

Client Sample ID: MW-10

Lab Sample ID: 180-155217-9

Date Collected: 04/12/23 14:50

Matrix: Water

Date Received: 04/18/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0160		0.00800		mg/L		04/27/23 14:00	04/28/23 20:10	1

Client Sample ID: MW-18

Lab Sample ID: 180-155217-10

Date Collected: 04/12/23 16:20

Matrix: Water

Date Received: 04/18/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 20:13	1

Client Sample ID: MW-19

Lab Sample ID: 180-155217-11

Date Collected: 04/13/23 08:30

Matrix: Water

Date Received: 04/18/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0134		0.00800		mg/L		04/27/23 14:00	04/28/23 20:16	1

Client Sample ID: MW-20

Lab Sample ID: 180-155217-12

Date Collected: 04/11/23 14:30

Matrix: Water

Date Received: 04/18/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 20:19	1

Client Sample ID: MW-21

Lab Sample ID: 180-155217-13

Date Collected: 04/11/23 16:25

Matrix: Water

Date Received: 04/18/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 20:21	1

Client Sample ID: MW-22

Lab Sample ID: 180-155217-14

Date Collected: 04/12/23 14:00

Matrix: Water

Date Received: 04/18/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 20:24	1

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Client Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Client Sample ID: MW-24
Date Collected: 04/13/23 07:40
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-15
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0744		0.00800		mg/L		04/27/23 14:00	04/28/23 20:27	1

Client Sample ID: MW-25
Date Collected: 04/13/23 10:30
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-16
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.127		0.00800		mg/L		04/27/23 14:00	04/28/23 20:29	1

Client Sample ID: TW-1
Date Collected: 04/10/23 12:55
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-17
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 20:32	1

Client Sample ID: MW-11
Date Collected: 04/12/23 15:30
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-18
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0430		0.00800		mg/L		04/27/23 14:00	04/28/23 20:35	1

Client Sample ID: MW-13
Date Collected: 04/10/23 14:40
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-19
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 20:43	1

Client Sample ID: MW-14
Date Collected: 04/13/23 11:35
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-20
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 20:46	1

Client Sample ID: MW-14A
Date Collected: 04/13/23 12:20
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-21
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0118		0.00800		mg/L		04/27/23 14:00	04/28/23 15:01	1

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Client Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Client Sample ID: MW-14B

Lab Sample ID: 180-155217-22

Date Collected: 04/13/23 13:15

Matrix: Water

Date Received: 04/18/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0834		0.00800		mg/L		04/27/23 14:00	04/28/23 15:15	1

Client Sample ID: MW-13A

Lab Sample ID: 180-155217-23

Date Collected: 04/11/23 09:40

Matrix: Water

Date Received: 04/18/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00949		0.00800		mg/L		04/27/23 14:00	04/28/23 15:17	1

Client Sample ID: MW-15

Lab Sample ID: 180-155217-24

Date Collected: 04/12/23 08:00

Matrix: Water

Date Received: 04/18/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 15:25	1

Client Sample ID: MW-16

Lab Sample ID: 180-155217-25

Date Collected: 04/12/23 09:00

Matrix: Water

Date Received: 04/18/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0344		0.00800		mg/L		04/27/23 14:00	04/28/23 15:28	1

Client Sample ID: MW-17

Lab Sample ID: 180-155217-26

Date Collected: 04/12/23 10:15

Matrix: Water

Date Received: 04/18/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0992		0.00800		mg/L		04/27/23 14:00	04/28/23 15:31	1

QC Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Method: EPA 6020A - Metals (ICP/MS)

Lab Sample ID: MB 240-571100/1-A
Matrix: Water
Analysis Batch: 571449

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 571100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 19:22	1

Lab Sample ID: LCS 240-571100/2-A
Matrix: Water
Analysis Batch: 571449

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 571100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.4820		mg/L		96	80 - 120

Lab Sample ID: 180-155217-1 MS
Matrix: Water
Analysis Batch: 571449

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 571100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	ND		0.500	0.4913		mg/L		97	75 - 125

Lab Sample ID: 180-155217-1 MSD
Matrix: Water
Analysis Batch: 571449

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 571100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	ND		0.500	0.4883		mg/L		97	75 - 125	1	20

Lab Sample ID: MB 240-571102/1-A
Matrix: Water
Analysis Batch: 571449

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 571102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 14:56	1

Lab Sample ID: LCS 240-571102/2-A
Matrix: Water
Analysis Batch: 571449

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 571102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.4727		mg/L		95	80 - 120

Lab Sample ID: 180-155217-21 MS
Matrix: Water
Analysis Batch: 571449

Client Sample ID: MW-14A
Prep Type: Total Recoverable
Prep Batch: 571102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.0118		0.500	0.4955		mg/L		97	75 - 125

Lab Sample ID: 180-155217-21 MSD
Matrix: Water
Analysis Batch: 571449

Client Sample ID: MW-14A
Prep Type: Total Recoverable
Prep Batch: 571102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.0118		0.500	0.4976		mg/L		97	75 - 125	0	20

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QC Association Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Metals

Prep Batch: 571100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155217-1	MW-1	Total Recoverable	Water	3005A	
180-155217-2	MW-2	Total Recoverable	Water	3005A	
180-155217-3	MW-3	Total Recoverable	Water	3005A	
180-155217-4	MW-4	Total Recoverable	Water	3005A	
180-155217-5	MW-6	Total Recoverable	Water	3005A	
180-155217-6	MW-7	Total Recoverable	Water	3005A	
180-155217-7	MW-8	Total Recoverable	Water	3005A	
180-155217-8	MW-9	Total Recoverable	Water	3005A	
180-155217-9	MW-10	Total Recoverable	Water	3005A	
180-155217-10	MW-18	Total Recoverable	Water	3005A	
180-155217-11	MW-19	Total Recoverable	Water	3005A	
180-155217-12	MW-20	Total Recoverable	Water	3005A	
180-155217-13	MW-21	Total Recoverable	Water	3005A	
180-155217-14	MW-22	Total Recoverable	Water	3005A	
180-155217-15	MW-24	Total Recoverable	Water	3005A	
180-155217-16	MW-25	Total Recoverable	Water	3005A	
180-155217-17	TW-1	Total Recoverable	Water	3005A	
180-155217-18	MW-11	Total Recoverable	Water	3005A	
180-155217-19	MW-13	Total Recoverable	Water	3005A	
180-155217-20	MW-14	Total Recoverable	Water	3005A	
MB 240-571100/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-571100/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-155217-1 MS	MW-1	Total Recoverable	Water	3005A	
180-155217-1 MSD	MW-1	Total Recoverable	Water	3005A	

Prep Batch: 571102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155217-21	MW-14A	Total Recoverable	Water	3005A	
180-155217-22	MW-14B	Total Recoverable	Water	3005A	
180-155217-23	MW-13A	Total Recoverable	Water	3005A	
180-155217-24	MW-15	Total Recoverable	Water	3005A	
180-155217-25	MW-16	Total Recoverable	Water	3005A	
180-155217-26	MW-17	Total Recoverable	Water	3005A	
MB 240-571102/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-571102/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
180-155217-21 MS	MW-14A	Total Recoverable	Water	3005A	
180-155217-21 MSD	MW-14A	Total Recoverable	Water	3005A	

Analysis Batch: 571449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155217-1	MW-1	Total Recoverable	Water	EPA 6020A	571100
180-155217-2	MW-2	Total Recoverable	Water	EPA 6020A	571100
180-155217-3	MW-3	Total Recoverable	Water	EPA 6020A	571100
180-155217-4	MW-4	Total Recoverable	Water	EPA 6020A	571100
180-155217-5	MW-6	Total Recoverable	Water	EPA 6020A	571100
180-155217-6	MW-7	Total Recoverable	Water	EPA 6020A	571100
180-155217-7	MW-8	Total Recoverable	Water	EPA 6020A	571100
180-155217-8	MW-9	Total Recoverable	Water	EPA 6020A	571100
180-155217-9	MW-10	Total Recoverable	Water	EPA 6020A	571100
180-155217-10	MW-18	Total Recoverable	Water	EPA 6020A	571100
180-155217-11	MW-19	Total Recoverable	Water	EPA 6020A	571100

Eurofins Pittsburgh

QC Association Summary

Client: Waypoint Analytical, Inc.
 Project/Site: 23-104-0002

Job ID: 180-155217-1

Metals (Continued)

Analysis Batch: 571449 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155217-12	MW-20	Total Recoverable	Water	EPA 6020A	571100
180-155217-13	MW-21	Total Recoverable	Water	EPA 6020A	571100
180-155217-14	MW-22	Total Recoverable	Water	EPA 6020A	571100
180-155217-15	MW-24	Total Recoverable	Water	EPA 6020A	571100
180-155217-16	MW-25	Total Recoverable	Water	EPA 6020A	571100
180-155217-17	TW-1	Total Recoverable	Water	EPA 6020A	571100
180-155217-18	MW-11	Total Recoverable	Water	EPA 6020A	571100
180-155217-19	MW-13	Total Recoverable	Water	EPA 6020A	571100
180-155217-20	MW-14	Total Recoverable	Water	EPA 6020A	571100
180-155217-21	MW-14A	Total Recoverable	Water	EPA 6020A	571102
180-155217-22	MW-14B	Total Recoverable	Water	EPA 6020A	571102
180-155217-23	MW-13A	Total Recoverable	Water	EPA 6020A	571102
180-155217-24	MW-15	Total Recoverable	Water	EPA 6020A	571102
180-155217-25	MW-16	Total Recoverable	Water	EPA 6020A	571102
180-155217-26	MW-17	Total Recoverable	Water	EPA 6020A	571102
MB 240-571100/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	571100
MB 240-571102/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	571102
LCS 240-571100/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	571100
LCS 240-571102/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	571102
180-155217-1 MS	MW-1	Total Recoverable	Water	EPA 6020A	571100
180-155217-1 MSD	MW-1	Total Recoverable	Water	EPA 6020A	571100
180-155217-21 MS	MW-14A	Total Recoverable	Water	EPA 6020A	571102
180-155217-21 MSD	MW-14A	Total Recoverable	Water	EPA 6020A	571102





107A Northside Office Park Drive, Andalusia, AL 36421
Main 334.343.9799
www.waypointanalytical.com

04/17/2023 14:42:11

Export Batch Report

Export Batch Id : 621EXP

Created: 4/17/2023 14:41:58

Computer: WPALMS-157

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Test America Laboratory - PA
301 Alpha Drive / RIDC Park
Pittsburgh, PA 152382907
412-963-7058

From: Waypoint Analytical, LLC (Andalusia)
107A Northside Office Park Drive
Andalusia, AL 36421
334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code Description
23-104-0002	05/12/2023	04/11/2023 11:40	MW-1	AQU	97684	SW-6020A (Test America)
23-104-0002	05/12/2023	04/11/2023 13:35	MW-2	AQU	97685	SW-6020A (Test America)
23-104-0002	05/12/2023	04/10/2023 13:55	MW-3	AQU	97686	SW-6020A (Test America)
23-104-0002	05/12/2023	04/10/2023 16:00	MW-4	AQU	97687	SW-6020A (Test America)
23-104-0002	05/12/2023	04/12/2023 12:35	MW-6	AQU	97688	SW-6020A (Test America)
23-104-0002	05/12/2023	04/12/2023 11:00	MW-7	AQU	97689	SW-6020A (Test America)
23-104-0002	05/12/2023	04/12/2023 13:20	MW-8	AQU	97690	SW-6020A (Test America)
23-104-0002	05/12/2023	04/11/2023 10:35	MW-9	AQU	97691	SW-6020A (Test America)
23-104-0002	05/12/2023	04/12/2023 14:50	MW-10	AQU	97692	SW-6020A (Test America)



Sampled By	Client	Method of Shipment	Blank / Cooler Temp.
Relinquished By (sign)	Consuelo Bradley	Date / Time	04/17/2023 15:00
Received By (sign)	EARTNE	Date / Time	4/18/23 9:30
Relinquished By (sign)		Date / Time	
Received By (sign)		Date / Time	





107A Northside Office Park Drive, Andalusia, AL 36421
Main 334.343.9799
www.waypointanalytical.com

04/17/2023 14:42:11

Export Batch Report

Export Batch Id : 621EXP

Created: 4/17/2023 14:41:58

Computer: WPALMS-157

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Test America Laboratory - PA
301 Alpha Drive / RIDC Park
Pittsburgh, PA 152382907
412-963-7058

From: Waypoint Analytical, LLC (Andalusia)
107A Northside Office Park Drive
Andalusia, AL 36421
334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No Method No	Fee Code Description
23-104-0002	05/12/2023	04/12/2023 15:30	MW-11	AQU 97693 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/10/2023 14:40	MW-13	AQU 97694 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/13/2023 11:35	MW-14	AQU 97695 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/13/2023 12:20	MW-14A	AQU 97696 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/13/2023 13:15	MW-14B	AQU 97697 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/11/2023 09:40	MW-13A	AQU 97698 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/12/2023 08:00	MW-15	AQU 97699 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/12/2023 09:00	MW-16	AQU 97700 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/12/2023 10:15	MW-17	AQU 97701 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)

Sampled By	Method of Shipment	Blank / Cooler Temp.
Remarks		
Relinquished By (sign)	Date / Time	Received By (sign)
Consuelo Bradley	04/17/2023 01:50	[Signature]
Relinquished By (sign)	Date / Time	Received By (sign)





107A Northside Office Park Drive, Andalusia, AL 36421
 Main 334.343.9799
 www.waypointanalytical.com

04/17/2023 14:42:11

Export Batch Report

Export Batch Id : 621EXP

Created: 4/17/2023 14:41:58

Computer: WPALMS-157

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

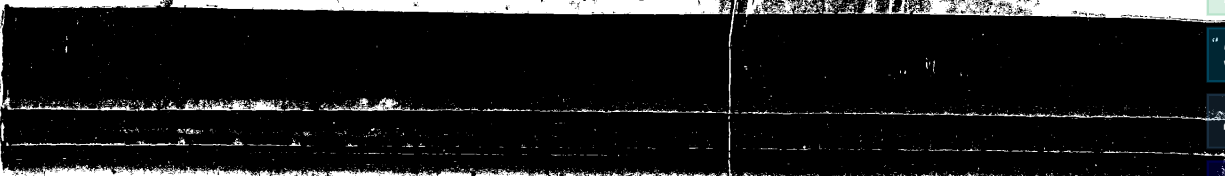
To: Test America Laboratory - PA
 301 Alpha Drive / RIDC Park
 Pittsburgh, PA 152382907
 412-963-7058

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code Description
23-104-0002	05/12/2023	04/12/2023 16:20	MW-18	AQU 97702	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/13/2023 08:30	MW-19	AQU 97703	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/11/2023 14:30	MW-20	AQU 97704	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/11/2023 16:25	MW-21	AQU 97705	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/12/2023 14:00	MW-22	AQU 97706	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/13/2023 07:40	MW-24	AQU 97707	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/13/2023 10:30	MW-25	AQU 97708	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0003	05/12/2023	04/10/2023 12:55	TW-1	AQU 97709	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)

Sampled By	Client	Method of Shipment	Blank / Cooler Temp.
Relinquished By (sign)	Consuelo Bradley	Date / Time	04/17/2023 @ 1500
Relinquished By (sign)		Date / Time	
Received By (sign)	<i>[Signature]</i>	Date / Time	4/18/23 9:30
Received By (sign)		Date / Time	





- 1
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- 11
- 12
- 13

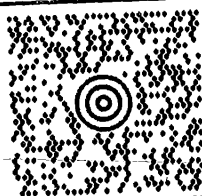
CONSUELO BRADLEY
 (334) 343-9799
 WAYPOINT ANALYTICAL - ALABAMA
 107A NORTHSIDE OFFICE PARK DR
 ANDALUSIA AL 36421

15 LBS

1 OF 1

SHIP TO:

SAMPLE RECEIVING
 (412) 963-7058
 TEST AMERICA LABORATORY - PA
 RIDC PARK
 301 ALPHA DRIVE
 PITTSBURGH PA 15238-2907



PA 152 9-22



UPS NEXT DAY AIR

TRACKING #: 1Z 9X0 Y85 01 4431 5427

1

Uncorrected temp
 Thermometer ID 43 17

CF 0 Initials JD

PT-WI-SR-001 effective 11/8/18



BILLING: P/P

Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Lab PM: Johnson, Andy	Carrier Tracking No(s): 180-485369 1																																																																																																						
Client Contact: Shipping/Receiving		E-Mail: Andy.Johnson@et.eurofins.com	Page: 1 of 3																																																																																																						
Company: Eurofins Environment Testing North Centre		Accreditations Required (See note):	Job #: 180-155217-1																																																																																																						
Address: 180 S. Van Buren Avenue, Barborton, OH, 44203		Analysis Requested																																																																																																							
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #	<table border="1"> <thead> <tr> <th>Sample ID (Lab ID)</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, O=wastewater, BT=tissue, AA=air)</th> <th>Preservation Code:</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>6020A/3005A (MOD) Custom Sublist</th> <th>Total Number of Containers</th> <th>Special Instructions/Note:</th> </tr> </thead> <tbody> <tr> <td>MW-1 (180-155217-1)</td> <td>4/11/23</td> <td>11:40 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>1</td> <td rowspan="10">M60</td> </tr> <tr> <td>MW-2 (180-155217-2)</td> <td>4/11/23</td> <td>13:35 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>MW-3 (180-155217-3)</td> <td>4/10/23</td> <td>13:55 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>MW-4 (180-155217-4)</td> <td>4/10/23</td> <td>16:00 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>MW-6 (180-155217-5)</td> <td>4/12/23</td> <td>12:35 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>MW-7 (180-155217-6)</td> <td>4/12/23</td> <td>11:00 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>MW-8 (180-155217-7)</td> <td>4/12/23</td> <td>13:20 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>MW-9 (180-155217-8)</td> <td>4/11/23</td> <td>10:35 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>1</td> </tr> <tr> <td>MW-10 (180-155217-9)</td> <td>4/12/23</td> <td>14:50 Central</td> <td>Water</td> <td>Water</td> <td>X</td> <td>X</td> <td></td> <td></td> <td>1</td> </tr> </tbody> </table>		Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, AA=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom Sublist	Total Number of Containers	Special Instructions/Note:	MW-1 (180-155217-1)	4/11/23	11:40 Central	Water	Water	X	X			1	M60	MW-2 (180-155217-2)	4/11/23	13:35 Central	Water	Water	X	X			1	MW-3 (180-155217-3)	4/10/23	13:55 Central	Water	Water	X	X			1	MW-4 (180-155217-4)	4/10/23	16:00 Central	Water	Water	X	X			1	MW-6 (180-155217-5)	4/12/23	12:35 Central	Water	Water	X	X			1	MW-7 (180-155217-6)	4/12/23	11:00 Central	Water	Water	X	X			1	MW-8 (180-155217-7)	4/12/23	13:20 Central	Water	Water	X	X			1	MW-9 (180-155217-8)	4/11/23	10:35 Central	Water	Water	X	X			1	MW-10 (180-155217-9)	4/12/23	14:50 Central	Water	Water	X	X			1
Sample ID (Lab ID)	Sample Date			Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, AA=air)	Preservation Code:	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom Sublist	Total Number of Containers	Special Instructions/Note:																																																																																													
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Due Date Requested: 5/8/2023	TAT Requested (days):	Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:																																																																																																							
Project Name: 23-104-0002	Project #: 18021257	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)																																																																																																							
Site	SSOV#	Special Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For Months																																																																																																							
Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.		Special Instructions/QC Requirements:																																																																																																							
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)		Method of Shipment:																																																																																																							
Empty Kit Relinquished by:		Date:																																																																																																							
Relinquished by: [Signature]		Date/Time: 4/25/23 8:00																																																																																																							
Relinquished by: [Signature]		Date/Time:																																																																																																							
Relinquished by: [Signature]		Date/Time:																																																																																																							
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Cooler Temperature(s) °C and Other Remarks:																																																																																																							



Eurofins - Canton Sample Receipt Form/Narrative Login # : _____

Barberton Facility

Client ETA Site Name _____ Cooler unpacked by: Nancy Rye

Cooler Received on 4-25-23 Opened on 4-25-23

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
IR GUN # 22 (CF +0.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity each Yes No NA
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 -Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
 4. Did custody papers accompany the sample(s)? Yes No
 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
 10. Were correct bottle(s) used for the test(s) indicated? Yes No
 11. Sufficient quantity received to perform indicated analyses? Yes No
 12. Are these work share samples and all listed on the COC? Yes No
 If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC20304
 14. Were VOAs on the COC? Yes No
 15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
 17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login Sample Receipt Checklist

Client: Waypoint Analytical, Inc.

Job Number: 180-155217-1

Login Number: 155217

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Quality Control Data

Client ID: CDG Engineers Associates

Project Description: CDG

Report No: 23-104-9002

QC Analytical Batch: L676867

Analysis Method: 2540C-2011

Analysis Description: Total Dissolved Solids

Lab Reagent Blank LRB Matrix: AQU

Associated Lab Samples: 97684, 97685, 97691, 97698, 97704, 97705

Parameter	Units	Blank Result	MQL	Analyzed
Total Dissolved Solids	mg/L	<25.0	25.0	04/18/23 18:01

Laboratory Control Sample LCS

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Total Dissolved Solids	mg/L	250	262	105	90-110

Duplicate Q 91918-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Dissolved Solids	mg/L	175	169	3.4	10	04/18/23 18:01

Quality Control Data

Client ID: CDG Engineers Associates

Project Description: CDG

Report No: 23-104-9002

QC Analytical Batch: L677098

Analysis Method: 2540C-2011

Analysis Description: Total Dissolved Solids

Lab Reagent Blank

LRB

Matrix: AQU

Associated Lab Samples: 97688, 97689, 97690, 97692, 97693, 97699, 97700, 97701, 97702, 97706

Parameter	Units	Blank Result	MQL	Analyzed
Total Dissolved Solids	mg/L	<50.0	50.0	04/19/23 14:18

Laboratory Control Sample

LCS

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Total Dissolved Solids	mg/L	250	255	102	90-110

Duplicate

N 97699-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Dissolved Solids	mg/L	85.7	71.4	18.2*	10	04/19/23 14:18

Quality Control Data

Client ID: CDG Engineers Associates

Project Description: CDG

Report No: 23-104-9002

QC Analytical Batch: L677404

Analysis Method: 2540C-2011

Analysis Description: Total Dissolved Solids

Lab Reagent Blank LRB Matrix: AQU

Associated Lab Samples: 97695, 97696, 97697, 97703, 97707, 97708

Parameter	Units	Blank Result	MQL	Analyzed
Total Dissolved Solids	mg/L	21.0	12.5	04/20/23 17:15

Laboratory Control Sample LCS

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Total Dissolved Solids	mg/L	250	261	104	90-110

Duplicate N 97707-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Dissolved Solids	mg/L	543	538	0.9	10	04/20/23 17:15

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L676954 **QC Analytical Batch(es):** L677774,L678063
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L676954 Matrix: AQU
Associated Lab Samples: 97684, 97685, 97686, 97687, 97688, 97689, 97690, 97691, 97692, 97693, 97694, 97695, 97696, 97697, 97698, 97699, 97700, 97701, 97702

Parameter	Units	Blank Result	MQL	Analyzed
Antimony	mg/L	<0.0010	0.0010	04/22/23 00:11
Arsenic	mg/L	<0.0010	0.0010	04/22/23 00:11
Barium	mg/L	<0.001	0.001	04/22/23 00:11
Beryllium	mg/L	<0.0010	0.0010	04/22/23 00:11
Boron	mg/L	<0.010	0.010	04/22/23 00:11
Cadmium	mg/L	<0.0010	0.0010	04/22/23 00:11
Calcium	mg/L	<0.200	0.200	04/22/23 00:11
Chromium	mg/L	<0.001	0.001	04/22/23 00:11
Cobalt	mg/L	<0.001	0.001	04/22/23 00:11
Lead	mg/L	<0.0010	0.0010	04/22/23 00:11
Molybdenum	mg/L	<0.001	0.001	04/22/23 00:11
Selenium	mg/L	<0.001	0.001	04/22/23 00:11
Thallium	mg/L	<0.0010	0.0010	04/22/23 00:11

Laboratory Control Sample LCS-L676954

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Antimony	mg/L	0.100	0.102	102	80-120
Arsenic	mg/L	0.0500	0.0493	99.0	80-120
Barium	mg/L	0.100	0.095	95.0	80-120
Beryllium	mg/L	0.0500	0.0501	100	80-120
Boron	mg/L	0.500	0.477	95.0	80-120
Cadmium	mg/L	0.0100	0.0096	96.0	80-120
Calcium	mg/L	10.0	10.2	102	80-120
Chromium	mg/L	0.100	0.095	95.0	80-120
Cobalt	mg/L	0.100	0.096	96.0	80-120
Lead	mg/L	0.0500	0.0480	96.0	80-120

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L676954 **QC Analytical Batch(es):** L677774,L678063
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Laboratory Control Sample LCS-L676954

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Molybdenum	mg/L	0.100	0.101	101	80-120
Selenium	mg/L	0.100	0.099	99.0	80-120
Thallium	mg/L	0.0100	0.0094	94.0	80-120

Matrix Spike & Matrix Spike Duplicate N 97702-MS-L676954 N 97702-MSD-L676954

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Antimony	mg/L	<0.0010	0.100	0.100	0.101	0.0999	101	100	75-125	1.0	20
Arsenic	mg/L	0.0109	0.0500	0.0500	0.0586	0.0599	95.0	98.0	75-125	2.1	20
Barium	mg/L	0.186	0.100	0.100	0.284	0.292	98.0	106	75-125	2.7	20
Beryllium	mg/L	<0.0010	0.0500	0.0500	0.0482	0.0498	96.0	100	75-125	3.2	20
Boron	mg/L	0.098	0.500	0.500	0.557	0.571	92.0	95.0	75-125	2.4	20
Cadmium	mg/L	<0.0010	0.0100	0.0100	0.0093	0.0095	94.0	95.0	75-125	1.3	20
Calcium	mg/L	43.9	10.0	10.0	54.3	55.3	104	114	75-125	1.8	20
Chromium	mg/L	<0.001	0.100	0.100	0.093	0.096	92.0	96.0	75-125	3.6	20
Cobalt	mg/L	<0.001	0.100	0.100	0.092	0.096	91.0	96.0	75-125	4.9	20
Lead	mg/L	<0.0010	0.0500	0.0500	0.0472	0.0490	94.0	98.0	75-125	3.7	20
Molybdenum	mg/L	<0.001	0.100	0.100	0.101	0.104	101	104	75-125	2.9	20
Selenium	mg/L	<0.001	0.100	0.100	0.094	0.098	95.0	98.0	75-125	3.3	20
Thallium	mg/L	<0.0010	0.0100	0.0100	0.0093	0.0097	94.0	98.0	75-125	3.9	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L676979 **QC Analytical Batch(es):** L677774,L678063
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L676979 Matrix: AQU
Associated Lab Samples: 97703, 97704, 97705, 97706, 97707

Parameter	Units	Blank Result	MQL	Analyzed
Antimony	mg/L	<0.0010	0.0010	04/22/23 02:17
Arsenic	mg/L	<0.0010	0.0010	04/22/23 02:17
Barium	mg/L	<0.001	0.001	04/22/23 02:17
Beryllium	mg/L	<0.0010	0.0010	04/22/23 02:17
Boron	mg/L	<0.010	0.010	04/22/23 02:17
Cadmium	mg/L	<0.0010	0.0010	04/22/23 02:17
Calcium	mg/L	<0.200	0.200	04/22/23 02:17
Chromium	mg/L	<0.001	0.001	04/22/23 02:17
Cobalt	mg/L	<0.001	0.001	04/22/23 02:17
Lead	mg/L	<0.0010	0.0010	04/22/23 02:17
Molybdenum	mg/L	<0.001	0.001	04/22/23 02:17
Selenium	mg/L	<0.001	0.001	04/22/23 02:17
Thallium	mg/L	<0.0010	0.0010	04/22/23 02:17

Laboratory Control Sample LCS-L676979

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Antimony	mg/L	0.100	0.100	100	80-120
Arsenic	mg/L	0.0500	0.0478	96.0	80-120
Barium	mg/L	0.100	0.093	93.0	80-120
Beryllium	mg/L	0.0500	0.0477	95.0	80-120
Boron	mg/L	0.500	0.485	97.0	80-120
Cadmium	mg/L	0.0100	0.0093	93.0	80-120
Calcium	mg/L	10.0	9.92	99.0	80-120
Chromium	mg/L	0.100	0.093	93.0	80-120
Cobalt	mg/L	0.100	0.094	95.0	80-120
Lead	mg/L	0.0500	0.0478	96.0	80-120

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L676979 **QC Analytical Batch(es):** L677774,L678063
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Laboratory Control Sample LCS-L676979

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Molybdenum	mg/L	0.100	0.102	102	80-120
Selenium	mg/L	0.100	0.097	98.0	80-120
Thallium	mg/L	0.0100	0.0091	92.0	80-120

Matrix Spike & Matrix Spike Duplicate N 97707-MS-L676979 N 97707-MSD-L676979

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Antimony	mg/L	<0.0010	0.100	0.100	0.101	0.101	101	101	75-125	0.0	20
Arsenic	mg/L	0.0033	0.0500	0.0500	0.0533	0.0535	100	100	75-125	0.3	20
Barium	mg/L	0.121	0.100	0.100	0.208	0.209	87.0	88.0	75-125	0.4	20
Beryllium	mg/L	<0.0010	0.0500	0.0500	0.0469	0.0488	94.0	98.0	75-125	3.9	20
Boron	mg/L	1.83	0.500	0.500	2.40	2.38	114	110	75-125	0.8	20
Cadmium	mg/L	<0.0010	0.0100	0.0100	0.0096	0.0094	96.0	95.0	75-125	1.5	20
Calcium	mg/L	122	10.0	10.0	132	137	100	150*	75-125	3.7	20
Chromium	mg/L	<0.001	0.100	0.100	0.095	0.096	95.0	96.0	75-125	1.1	20
Cobalt	mg/L	0.004	0.100	0.100	0.097	0.097	93.0	93.0	75-125	0.0	20
Lead	mg/L	<0.0010	0.0500	0.0500	0.0488	0.0489	98.0	98.0	75-125	0.2	20
Molybdenum	mg/L	0.008	0.100	0.100	0.114	0.117	106	109	75-125	2.5	20
Selenium	mg/L	<0.001	0.100	0.100	0.106	0.104	106	104	75-125	1.9	20
Thallium	mg/L	<0.0010	0.0100	0.0100	0.0097	0.0097	97.0	98.0	75-125	0.4	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L676980 **QC Analytical Batch(es):** L677479
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L676980 Matrix: AQU
Associated Lab Samples: 97708

Parameter	Units	Blank Result	MQL	Analyzed
Antimony	mg/L	<0.0010	0.0010	04/21/23 05:45
Arsenic	mg/L	<0.0010	0.0010	04/21/23 05:45
Barium	mg/L	<0.001	0.001	04/21/23 05:45
Beryllium	mg/L	<0.0010	0.0010	04/21/23 05:45
Boron	mg/L	<0.010	0.010	04/21/23 05:45
Cadmium	mg/L	<0.0010	0.0010	04/21/23 05:45
Calcium	mg/L	<0.200	0.200	04/21/23 05:45
Chromium	mg/L	<0.001	0.001	04/21/23 05:45
Cobalt	mg/L	<0.001	0.001	04/21/23 05:45
Lead	mg/L	<0.0010	0.0010	04/21/23 05:45
Molybdenum	mg/L	<0.001	0.001	04/21/23 05:45
Selenium	mg/L	<0.001	0.001	04/21/23 05:45
Thallium	mg/L	<0.0010	0.0010	04/21/23 05:45

Laboratory Control Sample LCS-L676980

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Antimony	mg/L	0.100	0.0967	97.0	80-120
Arsenic	mg/L	0.0500	0.0514	103	80-120
Barium	mg/L	0.100	0.092	93.0	80-120
Beryllium	mg/L	0.0500	0.0508	102	80-120
Boron	mg/L	0.500	0.486	97.0	80-120
Cadmium	mg/L	0.0100	0.0100	100	80-120
Calcium	mg/L	10.0	10.1	101	80-120
Chromium	mg/L	0.100	0.099	99.0	80-120
Cobalt	mg/L	0.100	0.099	99.0	80-120
Lead	mg/L	0.0500	0.0476	95.0	80-120

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L676980 **QC Analytical Batch(es):** L677479
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Laboratory Control Sample LCS-L676980

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Molybdenum	mg/L	0.100	0.101	101	80-120
Selenium	mg/L	0.100	0.101	101	80-120
Thallium	mg/L	0.0100	0.0093	93.0	80-120

Matrix Spike & Matrix Spike Duplicate N 97709-MS-L676980 N 97709-MSD-L676980

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Antimony	mg/L	<0.0010	0.100	0.100	0.0942	0.0935	94.0	94.0	75-125	0.7	20
Arsenic	mg/L	<0.0010	0.0500	0.0500	0.0511	0.0493	101	98.0	75-125	3.5	20
Barium	mg/L	0.104	0.100	0.100	0.193	0.192	89.0	88.0	75-125	0.5	20
Beryllium	mg/L	<0.0010	0.0500	0.0500	0.0505	0.0509	100	101	75-125	0.7	20
Boron	mg/L	0.028	0.500	0.500	0.498	0.495	94.0	93.0	75-125	0.6	20
Cadmium	mg/L	<0.0010	0.0100	0.0100	0.0107	0.0099	107	99.0	75-125	7.4	20
Calcium	mg/L	3.40	10.0	10.0	13.6	13.3	102	99.0	75-125	2.2	20
Chromium	mg/L	0.001	0.100	0.100	0.100	0.100	98.0	98.0	75-125	0.0	20
Cobalt	mg/L	0.005	0.100	0.100	0.105	0.104	99.0	98.0	75-125	0.9	20
Lead	mg/L	<0.0010	0.0500	0.0500	0.0482	0.0467	96.0	93.0	75-125	3.1	20
Molybdenum	mg/L	<0.001	0.100	0.100	0.105	0.102	105	102	75-125	2.8	20
Selenium	mg/L	<0.001	0.100	0.100	0.098	0.095	99.0	96.0	75-125	2.6	20
Thallium	mg/L	<0.0010	0.0100	0.0100	0.0095	0.0093	96.0	93.0	75-125	2.2	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L677161 **QC Analytical Batch(es):** L677369
QC Prep Batch Method: 7470A **Analysis Method:** 7470A
Analysis Description: Total Aqueous Mercury Analysis - CVAA

Lab Reagent Blank LRB-L677161 Matrix: AQU
Associated Lab Samples: 97684, 97685

Parameter	Units	Blank Result	MQL	Analyzed
Mercury	mg/L	<0.00020	0.00020	04/20/23 12:32

Laboratory Control Sample LCS-L677161

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/L	0.00500	0.00557	111	80-120

Matrix Spike & Matrix Spike Duplicate N 97685-MS-L677161 N 97685-MSD-L677161

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/L	<0.00040	0.00500	0.00500	0.00500	0.00498	100	100	80-120	0.4	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L677391 **QC Analytical Batch(es):** L677640
QC Prep Batch Method: 7470A **Analysis Method:** 7470A
Analysis Description: Total Aqueous Mercury Analysis - CVAA

Lab Reagent Blank LRB-L677391 Matrix: AQU
Associated Lab Samples: 97686, 97687, 97688, 97689, 97690, 97691, 97692, 97693, 97694, 97695, 97696, 97697, 97698, 97699, 97700

Parameter	Units	Blank Result	MQL	Analyzed
Mercury	mg/L	<0.00020	0.00020	04/21/23 12:42

Laboratory Control Sample LCS-L677391

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/L	0.00500	0.00541	108	80-120

Matrix Spike & Matrix Spike Duplicate N 97700-MS-L677391 N 97700-MSD-L677391

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/L	<0.00040	0.00500	0.00500	0.00434	0.00474	87.0	95.0	80-120	8.8	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L678303 **QC Analytical Batch(es):** L678490
QC Prep Batch Method: 7470A **Analysis Method:** 7470A
Analysis Description: Total Aqueous Mercury Analysis - CVAA

Lab Reagent Blank LRB-L678303 Matrix: AQU
Associated Lab Samples: 97701, 97702, 97703, 97704, 97705, 97706, 97707, 97708

Parameter	Units	Blank Result	MQL	Analyzed
Mercury	mg/L	<0.00020	0.00020	04/26/23 12:50

Laboratory Control Sample LCS-L678303

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/L	0.00500	0.00457	91.0	80-120

Matrix Spike & Matrix Spike Duplicate N 97709-MS-L678303 N 97709-MSD-L678303

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/L	<0.00040	0.00500	0.00500	0.00518	0.00510	104	102	80-120	1.5	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L677754 **QC Analytical Batch(es):** L677838
QC Prep Batch Method: SW-9056A (PREP) **Analysis Method:** 9056A
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank LRB-L677754 Matrix: AQU
 Associated Lab Samples: 97684, 97685, 97686, 97687, 97688, 97689, 97690, 97691, 97692, 97693, 97694, 97695, 97696

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/L	<0.400	0.400	04/21/23 09:14
Fluoride (w/o distillation)	mg/L	<0.125	0.125	04/21/23 09:14
Sulfate	mg/L	<1.00	1.00	04/21/23 09:14

Laboratory Control Sample & LCSD LCS-L677754 LCSD-L677754

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Chloride	mg/L	50.0	53.4	52.5	107	105	80-120	1.6	20
Fluoride (w/o distillation)	mg/L	6.25	6.26	6.26	100	100	80-120	0.0	20
Sulfate	mg/L	62.5	67.9	66.7	109	107	80-120	1.7	20

Matrix Spike & Matrix Spike Duplicate N 97684-MS-L677754 N 97684-MSD-L677754

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/L	1.87	55.6	55.6	62.9	61.1	110	107	80-120	2.9	15
Fluoride (w/o distillation)	mg/L	<0.138	6.94	6.94	7.24	7.03	104	101	80-120	2.9	15
Sulfate	mg/L	29.9	69.4	69.4	103	100	105	101	80-120	2.9	15

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L677756 **QC Analytical Batch(es):** L677837
QC Prep Batch Method: SW-9056A (PREP) **Analysis Method:** 9056A
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank LRB-L677756 Matrix: AQU
Associated Lab Samples: 97697, 97698, 97699, 97700, 97701, 97702, 97703, 97704, 97705, 97706, 97707, 97708

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/L	<0.400	0.400	04/21/23 16:06
Fluoride (w/o distillation)	mg/L	<0.125	0.125	04/21/23 16:06
Sulfate	mg/L	<1.00	1.00	04/21/23 16:06

Laboratory Control Sample & LCSD LCS-L677756 LCSD-L677756

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Chloride	mg/L	50.0	52.5	52.7	105	105	80-120	0.3	20
Fluoride (w/o distillation)	mg/L	6.25	6.26	6.24	100	100	80-120	0.3	20
Sulfate	mg/L	62.5	66.7	61.0	107	98.0	80-120	8.9	20

Matrix Spike & Matrix Spike Duplicate N 97709-MS-L677756 N 97709-MSD-L677756

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/L	7.73	55.6	55.6	66.6	66.3	106	105	80-120	0.4	15
Fluoride (w/o distillation)	mg/L	<0.138	6.94	6.94	7.23	7.19	104	104	80-120	0.5	15
Sulfate	mg/L	29.6	69.4	69.4	100	99.5	101	101	80-120	0.5	15

Shipment Receipt Form

Customer Number: **00001**
 Customer Name: **CDG Engineers Associates**
 Report Number: **23-104-0002**

Shipping Method

Fed Ex US Postal Lab Other :
 UPS Client Courier Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

Client Name/Address		Client Project Manager/Contact		Billing Information		For Laboratory Use Only	
CDG Inc		Alan Barck		<input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed		Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input type="checkbox"/> Instant Drop Off Other	
Project Description		Project/Site Location (City/State)		Matrix (Refer to Key)		Matrix Key	
PowerSouth Lowman		Jackson, AL		5 GUG		WW - Wastewater DW - Drinking Water P - Product M - Misc	
Project Number		Project Manager Phone #		Number of Containers		Site/Facility ID #	
A02123004-001				5			
 2793 Whitten Road Memphis, TN 38133 (901) 213-2400		Unless noted, all containers per Table II of 40 CFR Part 136.		Required Analysis / Preservation		Cool < 10C Cool <= 6C H2SO4 pH<2 None Required NaOH pH>10 HNO3 pH<2	
Date	Time	Sample Identification	(G)rab or (C)omposite				
4/11/23	1140	MW-1	G				
4/11/23	1335	MW-2	G				
4/10/23	1355	MW-3	G				
4/10/23	1600	MW-4	G				
4/12/23	1235	MW-6	G				
4/12/23	1100	MW-7	G				
4/12/23	1320	MW-8	G				
4/11/23	1036	MW-9	G				
4/12/23	1450	MW-10	G				
4/12/23	1530	MW-11	G				
For Laboratory Use Only		Lab Comments		Client Remarks/Comments			
Y/N	Y/N	Y/N	Y/N	Date Time	Received by: (SIGNATURE)	Date Time	
				4-13-23 1700	<i>[Signature]</i>	04/14/23 0900	
Blank/Cooler Temp				Date Time	Received by: (SIGNATURE)	Date Time	

For Laboratory Use Only

Client Name / Address CDG, Inc Powersouth Lowman		Client Project Manager/Contact RUSH - Additional charges apply Special Detection Limit(s) Date Results Needed		Billing Information Method of Shipment: <input type="checkbox"/> Fed Ex <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input type="checkbox"/> Client Drop Off <input type="checkbox"/> Other		Matrix Key WW - Wastewater DW - Drinking Water P - Product W - Groundwater S - Soil O - Oil M - Misc	
Project Description 202223004/001		Project/Site Location (City/State) Project Manager (Email) Project Manager (Phone #)		Purchase Order Number Site/Facility ID #		Method of Shipment Fed Ex USPS Courier Client Drop Off Other	
Client Name / Address CDG, Inc Powersouth Lowman		Client Project Manager/Contact RUSH - Additional charges apply Special Detection Limit(s) Date Results Needed		Billing Information Method of Shipment: Fed Ex USPS Courier Client Drop Off Other		Matrix Key WW - Wastewater DW - Drinking Water P - Product W - Groundwater S - Soil O - Oil M - Misc	
Project Description 202223004/001		Project/Site Location (City/State) Project Manager (Email) Project Manager (Phone #)		Purchase Order Number Site/Facility ID #		Method of Shipment Fed Ex USPS Courier Client Drop Off Other	
Waypoint Analytical 279 J Whitten Road Memphis, TN 38133 (901) 213-2400		Unless noted, all containers per Table II of 42 CFR Part 136.		Required Analysis / Preservative		A Cool < 10C (Micro Only) B Cool <= 6C C H2SO4 pH <= 2 D None Required E NaOH pH > 10 F HNO3 pH < 2 G H+ H C	
Sample Identification Date Time 4/10/23 1440 4/13/23 1135 4/13/23 1220 4/13/23 1315 4/11/23 0940 4/12/23 0800 4/12/23 0900 4/12/23 1015 4/12/23 1620 4/13/23 0830		Number of Containers 5 5 5 5 5 5 5 5 5 5 5		Sampled by (Name - Print) Grant Marcum		CDG Engineers Associates 23-104-0001 04-16-2023 18:18:57	
Lab Comments Relinquished by: (SIGNATURE) Relinquished by: (SIGNATURE) Relinquished by: (SIGNATURE)		Client Remarks/Comments Received by: (SIGNATURE) Received by: (SIGNATURE) Received by: (SIGNATURE)		CDG Engineers Associates 23-104-0001 04-16-2023 18:07:48		Date Time 4/13/23 1100 4/13/23 1100 4/13/23 1100	

5/11/2023

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL, 36420

Ref: Analytical Testing
Lab Report Number: 23-109-0005
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Dear Mr. Alan Barck:

Waypoint Analytical, LLC (Andalusia) received sample(s) on 4/19/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

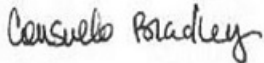
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Consuelo C Bradley

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	SC #84002
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #80215	PA DEP #68-03195

Sample Summary Table

Report Number: 23-109-0005
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
97869	MW-5	Aqueous	04/18/2023 15:40	04/19/2023 10:00	EPA-904.0	
97869	MW-5	Aqueous	04/18/2023 15:40	04/19/2023 10:00	EPA-903.1	
97870	MW-5A	Aqueous	04/18/2023 15:10	04/19/2023 10:00	EPA-903.1	
97870	MW-5A	Aqueous	04/18/2023 15:10	04/19/2023 10:00	EPA-904.0	
97871	MW-12	Aqueous	04/18/2023 11:20	04/19/2023 10:00	EPA-904.0	
97871	MW-12	Aqueous	04/18/2023 11:20	04/19/2023 10:00	EPA-903.1	
97872	MW-12A	Aqueous	04/18/2023 10:45	04/19/2023 10:00	EPA-903.1	
97872	MW-12A	Aqueous	04/18/2023 10:45	04/19/2023 10:00	EPA-904.0	
97873	MW-23	Aqueous	04/18/2023 14:15	04/19/2023 10:00	EPA-904.0	
97873	MW-23	Aqueous	04/18/2023 14:15	04/19/2023 10:00	EPA-903.1	
97874	MW-26	Aqueous	04/18/2023 13:05	04/19/2023 10:00	EPA-904.0	
97874	MW-26	Aqueous	04/18/2023 13:05	04/19/2023 10:00	EPA-903.1	
97875	Duplicate	Aqueous	04/18/2023	04/19/2023 10:00	EPA-904.0	
97875	Duplicate	Aqueous	04/18/2023	04/19/2023 10:00	EPA-903.1	
97876	Rinsate Blank	Aqueous	04/18/2023 19:00	04/19/2023 10:00	EPA-903.1	
97876	Rinsate Blank	Aqueous	04/18/2023 19:00	04/19/2023 10:00	EPA-904.0	
97877	Field Blank	Aqueous	04/18/2023 19:00	04/19/2023 10:00	EPA-904.0	
97877	Field Blank	Aqueous	04/18/2023 19:00	04/19/2023 10:00	EPA-903.1	

May 11, 2023

Ms. Consuelo Bradley
Waypoint Analytical LLC-AL
107A Northside Office Park Dr.
Andalusia, AL 36421

RE: Project: 23-109-0005
Pace Project No.: 30581385

Dear Ms. Bradley:

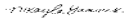
Enclosed are the analytical results for sample(s) received by the laboratory on April 21, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise 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,



Nikayla M. Yasurek
nikayla.yasurek@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Ms. Kim Stricklan, Waypoint Analytical LLC-AL



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 23-109-0005
Pace Project No.: 30581385

Pace Analytical Services Pennsylvania

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

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 23-109-0005
Pace Project No.: 30581385

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30581385001	23-109-0005 / MW-5	Water	04/18/23 15:40	04/21/23 10:10
30581385002	23-109-0005 / MW-5A	Water	04/18/23 15:10	04/21/23 10:10
30581385003	23-109-0005 / MW-12	Water	04/18/23 11:20	04/21/23 10:10
30581385004	23-109-0005 / MW-12A	Water	04/18/23 10:45	04/21/23 10:10
30581385005	23-109-0005 / MW-23	Water	04/18/23 14:15	04/21/23 10:10
30581385006	23-109-0005 / MW-26	Water	04/18/23 13:05	04/21/23 10:10
30581385007	23-109-0005 / Duplicate	Water	04/18/23 00:00	04/21/23 10:10
30581385008	23-109-0005 / Rinsate Blank	Water	04/18/23 19:00	04/21/23 10:10
30581385009	23-109-0005 / Field Blank	Water	04/18/23 19:00	04/21/23 10:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 23-109-0005
Pace Project No.: 30581385

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30581385001	23-109-0005 / MW-5	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30581385002	23-109-0005 / MW-5A	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30581385003	23-109-0005 / MW-12	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30581385004	23-109-0005 / MW-12A	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30581385005	23-109-0005 / MW-23	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30581385006	23-109-0005 / MW-26	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30581385007	23-109-0005 / Duplicate	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30581385008	23-109-0005 / Rinsate Blank	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30581385009	23-109-0005 / Field Blank	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-109-0005

Pace Project No.: 30581385

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Waypoint Analytical LLC-AL

Date: May 11, 2023

General Information:

9 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-109-0005

Pace Project No.: 30581385

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Waypoint Analytical LLC-AL

Date: May 11, 2023

General Information:

9 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-109-0005

Pace Project No.: 30581385

Method: Total Radium Calculation

Description: Total Radium 228+226

Client: Waypoint Analytical LLC-AL

Date: May 11, 2023

General Information:

9 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-109-0005

Pace Project No.: 30581385

Sample: 23-109-0005 / MW-5		Lab ID: 30581385001	Collected: 04/18/23 15:40	Received: 04/21/23 10:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.443 ± 0.437 (0.665) C:NA T:92%	pCi/L	05/10/23 13:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.04 ± 0.439 (0.693) C:78% T:81%	pCi/L	05/04/23 14:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.48 ± 0.876 (1.36)	pCi/L	05/11/23 11:54	7440-14-4	

Sample: 23-109-0005 / MW-5A		Lab ID: 30581385002	Collected: 04/18/23 15:10	Received: 04/21/23 10:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.449 ± 0.385 (0.522) C:NA T:88%	pCi/L	05/10/23 13:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.847 ± 0.415 (0.709) C:79% T:85%	pCi/L	05/04/23 14:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.30 ± 0.800 (1.23)	pCi/L	05/11/23 11:54	7440-14-4	

Sample: 23-109-0005 / MW-12		Lab ID: 30581385003	Collected: 04/18/23 11:20	Received: 04/21/23 10:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.171 ± 0.371 (0.685) C:NA T:93%	pCi/L	05/10/23 13:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.234 ± 0.335 (0.719) C:83% T:80%	pCi/L	05/04/23 14:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.405 ± 0.706 (1.40)	pCi/L	05/11/23 11:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-109-0005

Pace Project No.: 30581385

Sample: 23-109-0005 / MW-12A		Lab ID: 30581385004	Collected: 04/18/23 10:45	Received: 04/21/23 10:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.797 ± 0.584 (0.803)		pCi/L	05/10/23 13:39	13982-63-3	
		C:NA T:95%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.623 ± 0.376 (0.689)		pCi/L	05/04/23 14:42	15262-20-1	
		C:79% T:82%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.42 ± 0.960 (1.49)		pCi/L	05/11/23 11:54	7440-14-4	

Sample: 23-109-0005 / MW-23		Lab ID: 30581385005	Collected: 04/18/23 14:15	Received: 04/21/23 10:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.551 ± 0.577 (0.903)		pCi/L	05/10/23 13:39	13982-63-3	
		C:NA T:86%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.721 ± 0.400 (0.719)		pCi/L	05/04/23 14:43	15262-20-1	
		C:82% T:81%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.27 ± 0.977 (1.62)		pCi/L	05/11/23 11:54	7440-14-4	

Sample: 23-109-0005 / MW-26		Lab ID: 30581385006	Collected: 04/18/23 13:05	Received: 04/21/23 10:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.284 ± 0.262 (0.154)		pCi/L	05/10/23 13:52	13982-63-3	
		C:NA T:89%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.559 ± 0.336 (0.612)		pCi/L	05/04/23 14:43	15262-20-1	
		C:83% T:85%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.843 ± 0.598 (0.766)		pCi/L	05/11/23 11:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-109-0005

Pace Project No.: 30581385

Sample: 23-109-0005 / Duplicate		Lab ID: 30581385007	Collected: 04/18/23 00:00	Received: 04/21/23 10:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.265 ± 0.276 (0.389) C:NA T:100%	pCi/L	05/10/23 13:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.16 ± 0.459 (0.692) C:81% T:79%	pCi/L	05/04/23 14:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.43 ± 0.735 (1.08)	pCi/L	05/11/23 11:54	7440-14-4	

Sample: 23-109-0005 / Rinsate Blank		Lab ID: 30581385008	Collected: 04/18/23 19:00	Received: 04/21/23 10:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.0518 ± 0.236 (0.558) C:NA T:98%	pCi/L	05/10/23 13:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.475 ± 0.372 (0.735) C:80% T:84%	pCi/L	05/04/23 14:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.475 ± 0.608 (1.29)	pCi/L	05/11/23 11:54	7440-14-4	

Sample: 23-109-0005 / Field Blank		Lab ID: 30581385009	Collected: 04/18/23 19:00	Received: 04/21/23 10:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.163 ± 0.353 (0.814) C:NA T:90%	pCi/L	05/10/23 13:52	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.328 ± 0.320 (0.656) C:83% T:85%	pCi/L	05/04/23 14:43	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.328 ± 0.673 (1.47)	pCi/L	05/11/23 11:54	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 23-109-0005

Pace Project No.: 30581385

QC Batch: 583663

Analysis Method: EPA 903.1

QC Batch Method: EPA 903.1

Analysis Description: 903.1 Radium-226

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30581385001, 30581385002, 30581385003, 30581385004, 30581385005, 30581385006, 30581385007, 30581385008, 30581385009

METHOD BLANK: 2834521

Matrix: Water

Associated Lab Samples: 30581385001, 30581385002, 30581385003, 30581385004, 30581385005, 30581385006, 30581385007, 30581385008, 30581385009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.216 ± 0.225 (0.318) C:NA T:89%	pCi/L	05/10/23 13:24	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: 23-109-0005

Pace Project No.: 30581385

QC Batch: 583665

Analysis Method: EPA 904.0

QC Batch Method: EPA 904.0

Analysis Description: 904.0 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30581385001, 30581385002, 30581385003, 30581385004, 30581385005, 30581385006, 30581385007, 30581385008, 30581385009

METHOD BLANK: 2834522

Matrix: Water

Associated Lab Samples: 30581385001, 30581385002, 30581385003, 30581385004, 30581385005, 30581385006, 30581385007, 30581385008, 30581385009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.335 ± 0.279 (0.553) C:84% T:91%	pCi/L	05/04/23 11:38	

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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without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: 23-109-0005

Pace Project No.: 30581385

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.

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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



107A Northside Office Park Drive, Andalusia, AL 36421
 Main 334.343.9799
 www.waypointanalytical.com

04/20/2023 13:40:58

Export Batch Report

Export Batch Id : 622EXP

Page 1 of 2

Created: 4/20/2023 13:40:47

Computer: WPALMS-121

User: Consuelo C Bradley
 Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No Due Date Sample Date Customer Sample No

23-109-0005	05/18/2023	04/18/2023 15:40	MW-5
23-109-0005	05/18/2023	04/18/2023 15:40	MW-5
23-109-0005	05/18/2023	04/18/2023 15:10	MW-5A
23-109-0005	05/18/2023	04/18/2023 15:10	MW-5A
23-109-0005	05/18/2023	04/18/2023 11:20	MW-12
23-109-0005	05/18/2023	04/18/2023 11:20	MW-12
23-109-0005	05/18/2023	04/18/2023 10:45	MW-12A
23-109-0005	05/18/2023	04/18/2023 10:45	MW-12A
23-109-0005	05/18/2023	04/18/2023 14:15	MW-23

Rush Matrix Lab No Method No

AQU	97869	EPA-903.1
AQU	97869	EPA-904.0
AQU	97870	EPA-903.1
AQU	97870	EPA-904.0
AQU	97871	EPA-903.1
AQU	97871	EPA-904.0
AQU	97872	EPA-903.1
AQU	97872	EPA-904.0
AQU	97873	EPA-903.1

Fee Code Description

Radium 226/228/Total Radium (Sub to Pace in PA)	001
Radium 226/228/Total Radium (Sub to Pace in PA)	002
Radium 226/228/Total Radium (Sub to Pace in PA)	003
Radium 226/228/Total Radium (Sub to Pace in PA)	004
Radium 226/228/Total Radium (Sub to Pace in PA)	005

Sampled By <i>Client</i>	Method of Shipment	Blank / Cocier Temp.
Relinquished By (signature) <i>Consuelo Bradley</i>	Date / Time 04/20/2023 01:50	Received By (signature) <i>[Signature]</i>
Relinquished By (signature)	Date / Time	Received By (signature)
17		

WO#: 30581385





107A Northside Office Park Drive, Andalusia, AL 36421
 Main 334.343.9799
 www.waypointanalytical.com

04/20/2023 13:40:58

Export Batch Report

Export Batch Id : 622EXP

Page 2 of 2

Created: 4/20/2023 13:40:47
 Computer: WPALMS-121
 User: Consuelo C Bradley
 Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No
23-109-0005	05/18/2023	04/18/2023 14:15	MW-23
23-109-0005	05/18/2023	04/18/2023 13:05	MW-26
23-109-0005	05/18/2023	04/18/2023 13:05	MW-26
23-109-0005	05/18/2023	04/18/2023	Duplicate
23-109-0005	05/18/2023	04/18/2023	Duplicate
23-109-0005	05/18/2023	04/18/2023 19:00	Rinsate Blank
23-109-0005	05/18/2023	04/18/2023 19:00	Rinsate Blank
23-109-0005	05/18/2023	04/18/2023 19:00	Field Blank
23-109-0005	05/18/2023	04/18/2023 19:00	Field Blank

Rush Matrix Lab No	Method No	Fee Code	Description
AQU 97873	EPA-904.0	Radium 226/228/Total Radium	(Sub to Pace in PA)
AQU 97874	EPA-903.1	Radium 226/228/Total Radium	(Sub to Pace in PA) 006
AQU 97874	EPA-904.0	Radium 226/228/Total Radium	(Sub to Pace in PA)
AQU 97875	EPA-903.1	Radium 226/228/Total Radium	(Sub to Pace in PA) 007
AQU 97875	EPA-904.0	Radium 226/228/Total Radium	(Sub to Pace in PA)
AQU 97876	EPA-903.1	Radium 226/228/Total Radium	(Sub to Pace in PA) 008
AQU 97876	EPA-904.0	Radium 226/228/Total Radium	(Sub to Pace in PA)
AQU 97877	EPA-903.1	Radium 226/228/Total Radium	(Sub to Pace in PA) 009
AQU 97877	EPA-904.0	Radium 226/228/Total Radium	(Sub to Pace in PA)

Sampled By	Client	Method of Shipment	Blank / Cooler Temp.
Remarks			

Relinquished By (sign) Consuelo Bradley	Date / Time 04/20/2023 08:50	Received By (sign) [Signature]	Date / Time 4/20/23 10:10
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

WO#: 30581385

PM: NMY Due Date: 05/12/23
 CLIENT: WAYPOINT-AL



DC# Title: ENV-FRM-GBUR-0088 v04_Sample Condition Upon Receipt
Pittsburgh

Effective Date: 02/03/2023

WO#: 30581385

PM: NMY

Due Date: 05/12/23

Client Name: Waypoint

CLIENT: WAYPOINT-AL

Courier: Fed Ex UPS USPS Client Commercial Pace Oth

Tracking Number: 129X0485014351 8666/129X04850145290152

Examined By	PS
Labeled By	PS
Temped By	PS

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Thermometer Used: 17 Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp 11.2 °C Correction Factor: +.6 °C Final Temp: 11.8 °C

Temp should be above freezing to 6°C

Comments:	pH paper Lot#			D.P.D. Residual Chlorine Lot #
	Yes	No	NA	
Chain of Custody Present	/			1003121
Chain of Custody Filled Out:	/			1.
-Were client corrections present on COC		/		2.
Chain of Custody Relinquished	/			3.
Sampler Name & Signature on COC:	/	/		4.
Sample Labels match COC:	/			5.
-Includes date/time/ID				
Matrix: WT				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10.
-Pace Containers Used		/		
Containers Intact:	/			11.
Orthophosphate field filtered:			/	12.
Hex Cr Aqueous samples field filtered:			/	13.
Organic Samples checked for dechlorination			/	14.
Filtered volume received for dissolved tests:			/	15.
All containers checked for preservation:	/			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				PH<2
All containers meet method preservation requirements:	/			Initial when completed PS Date/Time of Preservation
				Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			/	17.
624.1: Headspace in VOA Vials (0mm)			/	18.
Trip Blank Present:			/	Trip blank custody seal present? YES or NO
Rad Samples Screened <0.5 mrem/hr.	/			Initial when completed PS Date: 4/22/23 Survey Meter SN: 1563
Comments:				

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Client

Site

622EXP

Page 1 of 1

Profile Number

11627

Notes

Sample Line Item	Matrix	Amber Glass						Plastic						Vials						Other									
		AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WG9U	WG9T	WG9U	ZPLC	GCUB	GJN	12GN	GN	BG1U	
001	WT						2																						
002							2																						
003							2																						
004							2																						
005							2																						
006							2																						
007							2																						
008							2																						
009							2																						

WO#: 30581385
 PM: NMY Due Date: 05/12/23
 CLIENT: WAYPOINT-AL

Container Codes

Glass	
GJN	1 Gallon Jug with HNO3
AG5U	100mL amber glass unpreserved
AG5T	100mL amber glass Na Thiosulfate
GJN	1 Gallon Jug
AG1S	1L amber glass H2SO4
AG1H	1L amber glass HCl
AG1T	1L amber glass NA Thiosulfate
BG1U	1L clear glass unpreserved
AG3S	250mL amber glass H2SO4
AG3U	250mL amber glass unpreserved
DG9S	40mL amber VOA vial H2SO4
VG9U	40mL clear VOA vial
VG9T	40mL clear VOA vial Na Thiosulfate
VG9H	40mL clear VOA vial HCl
JGFU	4oz amber wide jar
WGFU	4oz wide jar unpreserved
BG2U	500mL clear glass unpreserved
AG2U	500mL amber glass unpreserved
WGKU	8oz wide jar unpreserved
GN	General

Plastic/Misc.	
GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved
EZ1	5g Encore
VOAK	Kit Volatile Solid
I	Wipe/Swab
ZPLC	Siploc Bag
WT	Water
SL	Solid
OL	Non-Aq Liquid
WIP	Wipe

Shipment Receipt Form

Customer Number: **00001**
 Customer Name: **CDG Engineers Associates**
 Report Number: **23-109-0005**

Shipping Method

Fed Ex US Postal Lab Other :
 UPS Client Courier Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

Client Name/Address
 CDG, Inc.

Client Project Manager/Contact
 Alan Beck

Billing Information
 RUSH - Additional charges apply
 Special Detection Limit(s)
 Date Results Needed

For Laboratory Use Only

Project Description
 R021223004
 Auth #5 PSEC Lowman

Project/Site Location (City/State)
 Jackson, AL

Method of Shipment
 Fed Ex UPS USPS
 Courier Client Drop Off
 Other

Matrix Key
 WW - Wastewater GW - Groundwater
 DW - Drinking Water S - Soil / Solid O - Oil
 P - Product M - Misc

Project Number
 R021223004-001

Project Manager Email

Project Manager Phone #

Purchase Order Number

Site/Facility ID #

Waypoint ANALYTICAL
 2790 Whitten Road
 Memphis, TN 38133
 (901) 213-2400

Unless noted, all containers per Table II of 40 CFR Part 136.

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(g)rab or (c)omposite	Required Analysis / Preservative
11/14/23	1540	MW-5	5	GW G	2	2-Nitric Plastic Lits
	1510	MW-5A	5		2	2-Nitric Plastic Quart
	1120	MW-12	5		2	2-Nitric Plastic Quart
	1045	MW-12A	5		2	2-Nitric Plastic Quart
	1415	MW-23	5		2	2-Nitric Plastic Quart
	1305	MW-26	5		2	2-Nitric Plastic Quart
	1559	MW-3	1		2	2-Nitric Plastic Quart
	1620	MW-4	1		2	2-Nitric Plastic Quart
	1605	MW-13	1		2	2-Nitric Plastic Quart
	00:00	Duplicate	5		2	2-Nitric Plastic Quart

Client Remarks/Comments
 Sampled by (Name - Print)
 Grant Marcum - CD6

Relinquished by: (SIGNATURE)
[Signature]

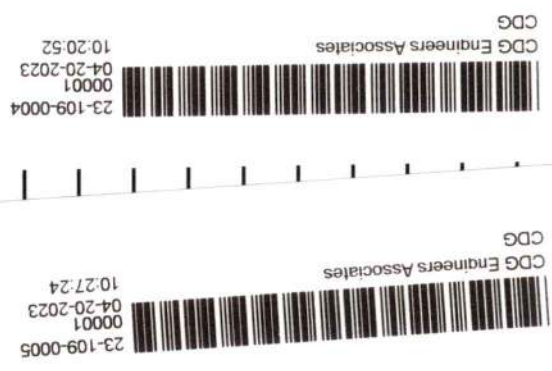
Relinquished by: (SIGNATURE)
[Signature]

Relinquished by: (SIGNATURE)
[Signature]

Date Time
 4-19-23 0930

Received by: (SIGNATURE)
[Signature]

Date Time
 04/19/2023 01000



For Laboratory Use Only

Billing Information

Client Project Manager/Contact

Client Name/Address

CDG, Inc
 Alan Borch
 Project Description
 Auth # 5
 Lowman CCR
 Project Number
 R021223004-001

Project/Site Location (City/State)
 Jackson, AL

Method of Shipment
 Fed Ex UPS USPS
 Courier Client Drop Off
 Other

Matrix Key
 WW - Wastewater GW - Groundwater
 DW - Drinking Water S - Soil /Solid O - Oil
 P - Product M - Misc

Project Manager Email
 Project Manager Phone #

Number of Containers
 Matrix (Refer to Key)
 (G)rab or (C)omposite

RUSH - Additional charges apply
 Special Detection Limit(s)
 Date Results Needed

Required Analysis / Preservative

Sample Identification
 Date Time
 4/16/23 1900
 4/16/23 1910

Unless noted, all containers per Table II of 40 CFR Part 136.

Waypoint ANALYTICAL
 2790 Whitten Road
 Memphis, TN 38133
 (901) 213-2400

Pl. Nitric
 2 Nitric
 Pl. Nitric
 2 Nitric
 Pl. Nitric
 1 Nitric

CDG Engineers Associates
 23-109-0005
 04-20-2023
 10:27:24

CDG Engineers Associates
 23-109-0004
 04-20-2023
 10:20:52

Client Remarks/Comments

Sampled by (Name - Print)
 Grant Marcum

Relinquished by: (SIGNATURE)
 Relinquished by: (SIGNATURE)
 Relinquished by: (SIGNATURE)

Received by: (SIGNATURE)
 Received by: (SIGNATURE)
 Received by: (SIGNATURE)

Date Time
 4-19-23 0930
 Date Time
 04/19/23 1000

5/15/2023

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL, 36420

Ref: Analytical Testing
Lab Report Number: 23-109-0004
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Dear Mr. Alan Barck:

Waypoint Analytical, LLC (Andalusia) received sample(s) on 4/19/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

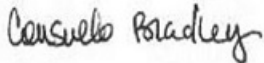
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Consuelo C Bradley

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	SC #84002
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #80215	PA DEP #68-03195

Sample Summary Table

Report Number: 23-109-0004
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
97857	MW-5	Aqueous	04/18/2023 15:40	04/19/2023 10:00	6020A	
97857	MW-5	Aqueous	04/18/2023 15:40	04/19/2023 10:00	7470A	WP MTN
97857	MW-5	Aqueous	04/18/2023 15:40	04/19/2023 10:00	9056A	WP MTN
97857	MW-5	Aqueous	04/18/2023 15:40	04/19/2023 10:00	2540C-2011	WP MTN
97857	MW-5	Aqueous	04/18/2023 15:40	04/19/2023 10:00	6020B	WP MTN
97858	MW-5A	Aqueous	04/18/2023 15:10	04/19/2023 10:00	6020A	
97858	MW-5A	Aqueous	04/18/2023 15:10	04/19/2023 10:00	9056A	WP MTN
97858	MW-5A	Aqueous	04/18/2023 15:10	04/19/2023 10:00	7470A	WP MTN
97858	MW-5A	Aqueous	04/18/2023 15:10	04/19/2023 10:00	6020B	WP MTN
97858	MW-5A	Aqueous	04/18/2023 15:10	04/19/2023 10:00	2540C-2011	WP MTN
97859	MW-12	Aqueous	04/18/2023 11:20	04/19/2023 10:00	6020A	
97859	MW-12	Aqueous	04/18/2023 11:20	04/19/2023 10:00	7470A	WP MTN
97859	MW-12	Aqueous	04/18/2023 11:20	04/19/2023 10:00	9056A	WP MTN
97859	MW-12	Aqueous	04/18/2023 11:20	04/19/2023 10:00	6020B	WP MTN
97859	MW-12	Aqueous	04/18/2023 11:20	04/19/2023 10:00	2540C-2011	WP MTN
97860	MW-12A	Aqueous	04/18/2023 10:45	04/19/2023 10:00	6020A	
97860	MW-12A	Aqueous	04/18/2023 10:45	04/19/2023 10:00	9056A	WP MTN
97860	MW-12A	Aqueous	04/18/2023 10:45	04/19/2023 10:00	7470A	WP MTN
97860	MW-12A	Aqueous	04/18/2023 10:45	04/19/2023 10:00	6020B	WP MTN
97860	MW-12A	Aqueous	04/18/2023 10:45	04/19/2023 10:00	2540C-2011	WP MTN
97861	MW-23	Aqueous	04/18/2023 14:15	04/19/2023 10:00	6020A	
97861	MW-23	Aqueous	04/18/2023 14:15	04/19/2023 10:00	9056A	WP MTN
97861	MW-23	Aqueous	04/18/2023 14:15	04/19/2023 10:00	7470A	WP MTN
97861	MW-23	Aqueous	04/18/2023 14:15	04/19/2023 10:00	6020B	WP MTN
97861	MW-23	Aqueous	04/18/2023 14:15	04/19/2023 10:00	2540C-2011	WP MTN

: Test America Laboratory - PA, Pittsburgh, PA
WP MTN - Memphis, TN: Waypoint Analytical - TN, Memphis, TN

Sample Summary Table

Report Number: 23-109-0004
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

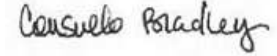
Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
97862	MW-26	Aqueous	04/18/2023 13:05	04/19/2023 10:00	6020A	
97862	MW-26	Aqueous	04/18/2023 13:05	04/19/2023 10:00	9056A	WP MTN
97862	MW-26	Aqueous	04/18/2023 13:05	04/19/2023 10:00	7470A	WP MTN
97862	MW-26	Aqueous	04/18/2023 13:05	04/19/2023 10:00	6020B	WP MTN
97862	MW-26	Aqueous	04/18/2023 13:05	04/19/2023 10:00	2540C-2011	WP MTN
97863	MW-3	Aqueous	04/18/2023 15:59	04/19/2023 10:00	2540C-2011	WP MTN
97864	MW-4	Aqueous	04/18/2023 16:20	04/19/2023 10:00	2540C-2011	WP MTN
97865	MW-13	Aqueous	04/18/2023 16:05	04/19/2023 10:00	2540C-2011	WP MTN
97866	Duplicate	Aqueous	04/18/2023	04/19/2023 10:00	6020A	
97866	Duplicate	Aqueous	04/18/2023	04/19/2023 10:00	9056A	WP MTN
97866	Duplicate	Aqueous	04/18/2023	04/19/2023 10:00	7470A	WP MTN
97866	Duplicate	Aqueous	04/18/2023	04/19/2023 10:00	6020B	WP MTN
97866	Duplicate	Aqueous	04/18/2023	04/19/2023 10:00	2540C-2011	WP MTN
97867	Rinsate Blank	Aqueous	04/18/2023 19:00	04/19/2023 10:00	6020A	
97867	Rinsate Blank	Aqueous	04/18/2023 19:00	04/19/2023 10:00	9056A	WP MTN
97867	Rinsate Blank	Aqueous	04/18/2023 19:00	04/19/2023 10:00	7470A	WP MTN
97867	Rinsate Blank	Aqueous	04/18/2023 19:00	04/19/2023 10:00	6020B	WP MTN
97867	Rinsate Blank	Aqueous	04/18/2023 19:00	04/19/2023 10:00	2540C-2011	WP MTN
97868	Field Blank	Aqueous	04/18/2023 19:10	04/19/2023 10:00	6020A	
97868	Field Blank	Aqueous	04/18/2023 19:10	04/19/2023 10:00	9056A	WP MTN
97868	Field Blank	Aqueous	04/18/2023 19:10	04/19/2023 10:00	7470A	WP MTN
97868	Field Blank	Aqueous	04/18/2023 19:10	04/19/2023 10:00	6020B	WP MTN
97868	Field Blank	Aqueous	04/18/2023 19:10	04/19/2023 10:00	2540C-2011	WP MTN

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 05/15/2023
Received : 04/19/2023



Report Number : **23-109-0004**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **97857**

Matrix: **Aqueous**

Sample ID : **MW-5**

Sampled: **4/18/2023 15:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	38.4	mg/L	10.0	10	05/11/23 13:05	SRJ	9056A
Chloride	20.4	mg/L	4.00	10	05/11/23 13:05	SRJ	9056A
Fluoride (w/o distillation)	<1.25	mg/L	1.25	10	05/11/23 13:05	SRJ	9056A
Total Dissolved Solids	645	mg/L	51.0	1	04/24/23 14:39	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/26/23 05:44	CPW	6020B
Arsenic	0.0197	mg/L	0.0010	1	04/26/23 05:44	CPW	6020B
Barium	0.172	mg/L	0.001	1	04/26/23 05:44	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/26/23 05:44	CPW	6020B
Boron	0.468	mg/L	0.010	1	04/26/23 16:15	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/26/23 05:44	CPW	6020B
Calcium	90.6	mg/L	2.00	10	04/26/23 16:11	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/26/23 05:44	CPW	6020B
Cobalt	0.013	mg/L	0.001	1	04/26/23 05:44	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/26/23 05:44	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	05/09/23 13:07	FDS	7470A
Molybdenum	0.001	mg/L	0.001	1	04/27/23 20:43	CPW	6020B
Selenium	0.003	mg/L	0.001	1	04/26/23 05:44	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/26/23 05:44	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

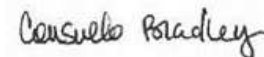
Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 05/15/2023
Received : 04/19/2023



Report Number : **23-109-0004**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **97858**

Matrix: **Aqueous**

Sample ID : **MW-5A**

Sampled: **4/18/2023 15:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	114	mg/L	1.00	1	05/11/23 13:31	SRJ	9056A
Chloride	95.5	mg/L	4.00	10	05/11/23 13:44	SRJ	9056A
Fluoride (w/o distillation)	1.27	mg/L	0.125	1	05/11/23 13:31	SRJ	9056A
Total Dissolved Solids	524	mg/L	51.0	1	04/24/23 14:39	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/26/23 05:48	CPW	6020B
Arsenic	0.0037	mg/L	0.0010	1	04/26/23 05:48	CPW	6020B
Barium	0.078	mg/L	0.001	1	04/26/23 05:48	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/26/23 05:48	CPW	6020B
Boron	1.67	mg/L	0.050	5	04/26/23 16:24	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/26/23 05:48	CPW	6020B
Calcium	102	mg/L	2.00	10	04/26/23 16:20	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/26/23 05:48	CPW	6020B
Cobalt	0.014	mg/L	0.001	1	04/26/23 05:48	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/26/23 05:48	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	05/09/23 13:11	FDS	7470A
Molybdenum	0.085	mg/L	0.001	1	04/26/23 05:48	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/26/23 05:48	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/26/23 05:48	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

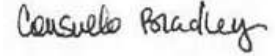
Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 05/15/2023
Received : 04/19/2023



Report Number : **23-109-0004**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **97859**
Sample ID : **MW-12**

Matrix: **Aqueous**
Sampled: **4/18/2023 11:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	297	mg/L	10.0	10	05/11/23 14:10	SRJ	9056A
Chloride	26.6	mg/L	0.400	1	05/11/23 13:57	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	05/11/23 13:57	SRJ	9056A
Total Dissolved Solids	606	mg/L	51.0	1	04/24/23 14:39	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/26/23 05:52	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	04/26/23 05:52	CPW	6020B
Barium	0.035	mg/L	0.001	1	04/26/23 05:52	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/26/23 05:52	CPW	6020B
Boron	0.572	mg/L	0.010	1	04/26/23 16:34	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/26/23 05:52	CPW	6020B
Calcium	139	mg/L	4.00	20	04/26/23 16:29	CPW	6020B
Chromium	0.001	mg/L	0.001	1	04/26/23 05:52	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	04/26/23 05:52	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/26/23 05:52	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	05/09/23 13:13	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/26/23 05:52	CPW	6020B
Selenium	0.008	mg/L	0.001	1	04/26/23 05:52	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/26/23 05:52	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

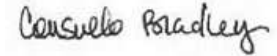
Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 05/15/2023
Received : 04/19/2023



Report Number : **23-109-0004**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **97860**
Sample ID : **MW-12A**

Matrix: **Aqueous**
Sampled: **4/18/2023 10:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	211	mg/L	10.0	10	05/11/23 14:35	SRJ	9056A
Chloride	58.0	mg/L	0.400	1	05/11/23 14:22	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	05/11/23 14:22	SRJ	9056A
Total Dissolved Solids	447	mg/L	51.0	1	04/24/23 14:39	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/26/23 05:56	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	04/26/23 05:56	CPW	6020B
Barium	0.028	mg/L	0.001	1	04/26/23 05:56	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/26/23 05:56	CPW	6020B
Boron	0.414	mg/L	0.010	1	04/26/23 16:45	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/26/23 05:56	CPW	6020B
Calcium	90.5	mg/L	2.00	10	04/26/23 16:40	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/26/23 05:56	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	04/26/23 05:56	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/26/23 05:56	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	05/09/23 13:14	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/26/23 05:56	CPW	6020B
Selenium	0.001	mg/L	0.001	1	04/26/23 05:56	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/26/23 05:56	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

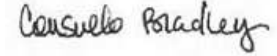
Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 05/15/2023
Received : 04/19/2023



Report Number : **23-109-0004**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **97861**
Sample ID : **MW-23**

Matrix: **Aqueous**
Sampled: **4/18/2023 14:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	983	mg/L	10.0	10	05/11/23 15:01	SRJ	9056A
Chloride	299	mg/L	4.00	10	05/11/23 15:01	SRJ	9056A
Fluoride (w/o distillation)	2.02	mg/L	0.125	1	05/11/23 14:48	SRJ	9056A
Total Dissolved Solids	1950	mg/L	50.0	1	04/24/23 14:39	CJR	2540C-2011
Antimony	<0.0100	mg/L	0.0100	10	04/26/23 06:00	CPW	6020B
Arsenic	0.186	mg/L	0.0100	10	04/26/23 06:00	CPW	6020B
Barium	0.042	mg/L	0.010	10	04/26/23 06:00	CPW	6020B
Beryllium	<0.0100	mg/L	0.0100	10	04/26/23 06:00	CPW	6020B
Boron	8.68	mg/L	0.100	10	04/26/23 17:02	CPW	6020B
Cadmium	<0.0100	mg/L	0.0100	10	04/26/23 06:00	CPW	6020B
Calcium	396	mg/L	10.0	50	04/26/23 16:57	CPW	6020B
Chromium	<0.010	mg/L	0.010	10	04/26/23 06:00	CPW	6020B
Cobalt	<0.010	mg/L	0.010	10	04/26/23 06:00	CPW	6020B
Lead	<0.0100	mg/L	0.0100	10	04/26/23 06:00	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	05/09/23 13:16	FDS	7470A
Molybdenum	0.123	mg/L	0.010	10	04/26/23 06:00	CPW	6020B
Selenium	<0.010	mg/L	0.010	10	04/26/23 06:00	CPW	6020B
Thallium	<0.0100	mg/L	0.0100	10	04/26/23 06:00	CPW	6020B

**Qualifiers/
Definitions**

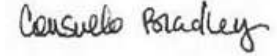
DF Dilution Factor MQL Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 05/15/2023
Received : 04/19/2023



Report Number : **23-109-0004**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **97862**
Sample ID : **MW-26**

Matrix: **Aqueous**
Sampled: **4/18/2023 13:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	44.0	mg/L	1.00	1	05/11/23 15:40	SRJ	9056A
Chloride	3.19	mg/L	0.400	1	05/11/23 15:40	SRJ	9056A
Fluoride (w/o distillation)	0.144	mg/L	0.125	1	05/11/23 15:40	SRJ	9056A
Total Dissolved Solids	263	mg/L	51.0	1	04/24/23 14:39	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/26/23 06:04	CPW	6020B
Arsenic	0.0011	mg/L	0.0010	1	04/26/23 06:04	CPW	6020B
Barium	0.096	mg/L	0.001	1	04/26/23 06:04	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/26/23 06:04	CPW	6020B
Boron	0.265	mg/L	0.010	1	04/26/23 17:11	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/26/23 06:04	CPW	6020B
Calcium	61.6	mg/L	2.00	10	04/26/23 17:06	CPW	6020B
Chromium	0.001	mg/L	0.001	1	04/26/23 06:04	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	04/26/23 06:04	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/26/23 06:04	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	05/09/23 13:17	FDS	7470A
Molybdenum	0.006	mg/L	0.001	1	04/26/23 06:04	CPW	6020B
Selenium	0.014	mg/L	0.001	1	04/26/23 06:04	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/26/23 06:04	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



107A Northside Office Park Drive, Andalusia, AL 36421
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Project CDG
 Information : PowerSouth Lowman
 Project# R021223004

Report Date : 05/15/2023
 Received : 04/19/2023

Consuelo Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **97863**
 Sample ID : **MW-3**

Matrix: **Aqueous**
 Sampled: **4/18/2023 15:59**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Dissolved Solids	<25.2	mg/L	25.2	1	04/24/23 14:39	CJR	2540C-2011

**Qualifiers/
 Definitions**

DF Dilution Factor MQL Method Quantitation Limit



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Project CDG
 Information : PowerSouth Lowman
 Project# R021223004

Report Date : 05/15/2023
 Received : 04/19/2023

Consuelo Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **97864**
 Sample ID : **MW-4**

Matrix: **Aqueous**
 Sampled: **4/18/2023 16:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Dissolved Solids	1600	mg/L	51.0	1	04/24/23 14:39	CJR	2540C-2011

**Qualifiers/
 Definitions**

DF Dilution Factor MQL Method Quantitation Limit



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Project CDG
 Information : PowerSouth Lowman
 Project# R021223004

Report Date : 05/15/2023
 Received : 04/19/2023

Consuelo Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **97865**
 Sample ID : **MW-13**

Matrix: **Aqueous**
 Sampled: **4/18/2023 16:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Total Dissolved Solids	228	mg/L	50.0	1	04/24/23 14:39	CJR	2540C-2011

**Qualifiers/
 Definitions**

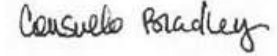
DF Dilution Factor MQL Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 05/15/2023
Received : 04/19/2023



Report Number : **23-109-0004**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **97866**
Sample ID : **Duplicate**

Matrix: **Aqueous**
Sampled: **4/18/2023 0:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	977	mg/L	10.0	10	05/11/23 16:19	SRJ	9056A
Chloride	297	mg/L	4.00	10	05/11/23 16:19	SRJ	9056A
Fluoride (w/o distillation)	2.02	mg/L	0.125	1	05/11/23 16:06	SRJ	9056A
Total Dissolved Solids	2000	mg/L	51.0	1	04/24/23 14:39	CJR	2540C-2011
Antimony	<0.0100	mg/L	0.0100	10	04/26/23 06:08	CPW	6020B
Arsenic	0.179	mg/L	0.0100	10	04/26/23 06:08	CPW	6020B
Barium	0.041	mg/L	0.010	10	04/26/23 06:08	CPW	6020B
Beryllium	<0.0100	mg/L	0.0100	10	04/26/23 06:08	CPW	6020B
Boron	8.52	mg/L	0.100	10	04/26/23 17:20	CPW	6020B
Cadmium	<0.0100	mg/L	0.0100	10	04/26/23 06:08	CPW	6020B
Calcium	385	mg/L	10.0	50	04/26/23 17:15	CPW	6020B
Chromium	<0.010	mg/L	0.010	10	04/26/23 06:08	CPW	6020B
Cobalt	<0.010	mg/L	0.010	10	04/26/23 06:08	CPW	6020B
Lead	<0.0100	mg/L	0.0100	10	04/26/23 06:08	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	05/09/23 13:18	FDS	7470A
Molybdenum	0.124	mg/L	0.010	10	04/26/23 06:08	CPW	6020B
Selenium	<0.010	mg/L	0.010	10	04/26/23 06:08	CPW	6020B
Thallium	<0.0100	mg/L	0.0100	10	04/26/23 06:08	CPW	6020B

**Qualifiers/
Definitions**

DF Dilution Factor

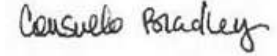
MQL Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 05/15/2023
Received : 04/19/2023



Report Number : **23-109-0004**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **97867**

Matrix: **Aqueous**

Sample ID : **Rinsate Blank**

Sampled: **4/18/2023 19:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	<1.00	mg/L	1.00	1	05/11/23 16:32	SRJ	9056A
Chloride	<0.400	mg/L	0.400	1	05/11/23 16:32	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	05/11/23 16:32	SRJ	9056A
Total Dissolved Solids	<12.5	mg/L	12.5	1	04/24/23 14:39	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/26/23 06:12	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	04/26/23 06:12	CPW	6020B
Barium	<0.001	mg/L	0.001	1	04/26/23 06:12	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/26/23 06:12	CPW	6020B
Boron	0.022	mg/L	0.010	1	04/26/23 17:25	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/26/23 06:12	CPW	6020B
Calcium	<0.200	mg/L	0.200	1	04/26/23 06:12	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/26/23 06:12	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	04/26/23 06:12	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/26/23 06:12	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	05/09/23 13:20	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/26/23 06:12	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/26/23 06:12	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/26/23 06:12	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

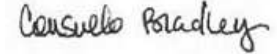
Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 05/15/2023
Received : 04/19/2023



Report Number : **23-109-0004**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **97868**
Sample ID : **Field Blank**

Matrix: **Aqueous**
Sampled: **4/18/2023 19:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	<1.00	mg/L	1.00	1	05/11/23 16:57	SRJ	9056A
Chloride	<0.400	mg/L	0.400	1	05/11/23 16:57	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	05/11/23 16:57	SRJ	9056A
Total Dissolved Solids	<12.6	mg/L	12.6	1	04/24/23 14:39	CJR	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	04/26/23 06:16	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	04/26/23 06:16	CPW	6020B
Barium	<0.001	mg/L	0.001	1	04/26/23 06:16	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/26/23 06:16	CPW	6020B
Boron	<0.010	mg/L	0.010	1	04/26/23 17:29	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/26/23 06:16	CPW	6020B
Calcium	<0.200	mg/L	0.200	1	04/26/23 06:16	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	04/26/23 06:16	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	04/26/23 06:16	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/26/23 06:16	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	05/09/23 13:21	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/26/23 06:16	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/26/23 06:16	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/26/23 06:16	CPW	6020B

**Qualifiers/
Definitions**

DF Dilution Factor MQL Method Quantitation Limit

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Consuelo Bradley
Waypoint Analytical, Inc.
107A Northside Office Park Drive
Andalusia, Alabama 36421

Generated 5/1/2023 6:14:17 AM

JOB DESCRIPTION

23-109-0004

JOB NUMBER

180-155480-1

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



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5/1/2023 6:14:17 AM

Authorized for release by
Andy Johnson, Manager of Project Management
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(615)301-5045



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Case Narrative

Client: Waypoint Analytical, Inc.
Project/Site: 23-109-0004

Job ID: 180-155480-1

Job ID: 180-155480-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative
180-155480-1

Receipt

The samples were received on 4/21/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.5°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Definitions/Glossary

Client: Waypoint Analytical, Inc.
Project/Site: 23-109-0004

Job ID: 180-155480-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-109-0004

Job ID: 180-155480-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-23 *
Connecticut	State	PH-0590	06-29-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-28-24
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23 *
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-23 *
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-28-24
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-109-0004

Job ID: 180-155480-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-155480-1	MW-5	Water	04/18/23 15:40	04/21/23 09:30
180-155480-2	MW-5A	Water	04/18/23 15:10	04/21/23 09:30
180-155480-3	MW-12	Water	04/18/23 11:20	04/21/23 09:30
180-155480-4	MW-12A	Water	04/18/23 10:45	04/21/23 09:30
180-155480-5	MW-23	Water	04/18/23 14:15	04/21/23 09:30
180-155480-6	MW-26	Water	04/18/23 13:05	04/21/23 09:30
180-155480-7	DUPLICATE	Water	04/18/23 00:00	04/21/23 09:30
180-155480-8	RINSATE BLANK	Water	04/18/23 19:00	04/21/23 09:30
180-155480-9	FIELD BLANK	Water	04/18/23 19:10	04/21/23 09:30

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Method Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-109-0004

Job ID: 180-155480-1

Method	Method Description	Protocol	Laboratory
EPA 6020A	Metals (ICP/MS)	SW846	EET CLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-109-0004

Job ID: 180-155480-1

Client Sample ID: MW-5
Date Collected: 04/18/23 15:40
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571097	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 22:58	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-5A
Date Collected: 04/18/23 15:10
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571097	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 23:01	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-12
Date Collected: 04/18/23 11:20
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571097	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 23:09	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-12A
Date Collected: 04/18/23 10:45
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571097	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 23:12	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: MW-23
Date Collected: 04/18/23 14:15
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571097	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 23:15	AJC	EET CLE
Instrument ID: I14										

Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-109-0004

Job ID: 180-155480-1

Client Sample ID: MW-26
Date Collected: 04/18/23 13:05
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571097	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 23:17	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: DUPLICATE
Date Collected: 04/18/23 00:00
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571097	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 23:20	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: RINSATE BLANK
Date Collected: 04/18/23 19:00
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571097	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 23:23	AJC	EET CLE
Instrument ID: I14										

Client Sample ID: FIELD BLANK
Date Collected: 04/18/23 19:10
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571097	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 23:25	AJC	EET CLE
Instrument ID: I14										

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Analyst References:

Lab: EET CLE

Batch Type: Prep

AJC = Alexander Colosi

Batch Type: Analysis

AJC = Alexander Colosi

Client Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-109-0004

Job ID: 180-155480-1

Client Sample ID: MW-5
Date Collected: 04/18/23 15:40
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-1
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 22:58	1

Client Sample ID: MW-5A
Date Collected: 04/18/23 15:10
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-2
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0530		0.00800		mg/L		04/27/23 14:00	04/28/23 23:01	1

Client Sample ID: MW-12
Date Collected: 04/18/23 11:20
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-3
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 23:09	1

Client Sample ID: MW-12A
Date Collected: 04/18/23 10:45
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-4
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 23:12	1

Client Sample ID: MW-23
Date Collected: 04/18/23 14:15
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-5
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.165		0.00800		mg/L		04/27/23 14:00	04/28/23 23:15	1

Client Sample ID: MW-26
Date Collected: 04/18/23 13:05
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-6
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 23:17	1

Client Sample ID: DUPLICATE
Date Collected: 04/18/23 00:00
Date Received: 04/21/23 09:30

Lab Sample ID: 180-155480-7
Matrix: Water

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.167		0.00800		mg/L		04/27/23 14:00	04/28/23 23:20	1

Eurofins Pittsburgh

Client Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-109-0004

Job ID: 180-155480-1

Client Sample ID: RINSATE BLANK

Lab Sample ID: 180-155480-8

Date Collected: 04/18/23 19:00

Matrix: Water

Date Received: 04/21/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 23:23	1

Client Sample ID: FIELD BLANK

Lab Sample ID: 180-155480-9

Date Collected: 04/18/23 19:10

Matrix: Water

Date Received: 04/21/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 23:25	1

QC Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-109-0004

Job ID: 180-155480-1

Method: EPA 6020A - Metals (ICP/MS)

Lab Sample ID: MB 240-571097/1-A
Matrix: Water
Analysis Batch: 571449

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 571097

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 22:23	1

Lab Sample ID: LCS 240-571097/2-A
Matrix: Water
Analysis Batch: 571449

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 571097

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.4761		mg/L		95	80 - 120

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QC Association Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-109-0004

Job ID: 180-155480-1

Metals

Prep Batch: 571097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155480-1	MW-5	Total Recoverable	Water	3005A	
180-155480-2	MW-5A	Total Recoverable	Water	3005A	
180-155480-3	MW-12	Total Recoverable	Water	3005A	
180-155480-4	MW-12A	Total Recoverable	Water	3005A	
180-155480-5	MW-23	Total Recoverable	Water	3005A	
180-155480-6	MW-26	Total Recoverable	Water	3005A	
180-155480-7	DUPLICATE	Total Recoverable	Water	3005A	
180-155480-8	RINSATE BLANK	Total Recoverable	Water	3005A	
180-155480-9	FIELD BLANK	Total Recoverable	Water	3005A	
MB 240-571097/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 240-571097/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 571449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155480-1	MW-5	Total Recoverable	Water	EPA 6020A	571097
180-155480-2	MW-5A	Total Recoverable	Water	EPA 6020A	571097
180-155480-3	MW-12	Total Recoverable	Water	EPA 6020A	571097
180-155480-4	MW-12A	Total Recoverable	Water	EPA 6020A	571097
180-155480-5	MW-23	Total Recoverable	Water	EPA 6020A	571097
180-155480-6	MW-26	Total Recoverable	Water	EPA 6020A	571097
180-155480-7	DUPLICATE	Total Recoverable	Water	EPA 6020A	571097
180-155480-8	RINSATE BLANK	Total Recoverable	Water	EPA 6020A	571097
180-155480-9	FIELD BLANK	Total Recoverable	Water	EPA 6020A	571097
MB 240-571097/1-A	Method Blank	Total Recoverable	Water	EPA 6020A	571097
LCS 240-571097/2-A	Lab Control Sample	Total Recoverable	Water	EPA 6020A	571097



107A Northside Office Park Drive, Andalusia, AL 36421
Main 334.343.9799
www.waypointanalytical.com

04/20/2023 13:42:02

Export Batch Report

Export Batch Id : 623EXP

Created: 4/20/2023 13:41:50
Computer: WPALMS-121
User: Consuelo C Bradley
Project Manager: Consuelo C Bradley

To: Test America Laboratory - PA
301 Alpha Drive / RIDC Park
Pittsburgh, PA 152382907
412-963-7058

From: Waypoint Analytical, LLC (Andalusia)
107A Northside Office Park Drive
Andalusia, AL 36421
334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code	Description
23-109-0004	05/18/2023	04/18/2023 15:40	MW-5	AQU	97857	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-109-0004	05/18/2023	04/18/2023 15:10	MW-5A	AQU	97858	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-109-0004	05/18/2023	04/18/2023 11:20	MW-12	AQU	97859	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-109-0004	05/18/2023	04/18/2023 10:45	MW-12A	AQU	97860	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-109-0004	05/18/2023	04/18/2023 14:15	MW-23	AQU	97861	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-109-0004	05/18/2023	04/18/2023 13:05	MW-26	AQU	97862	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-109-0004	05/18/2023	04/18/2023	Duplicate	AQU	97866	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-109-0004	05/18/2023	04/18/2023 19:00	Rinsate Blank	AQU	97867	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-109-0004	05/18/2023	04/18/2023 19:10	Field Blank	AQU	97868	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)

Sampled By	Client	Method of Shipment	Blank / Cooler Temp.
Relinquished By (Sign)	Consuelo Bradley	Date / Time	04/20/2023 09:30
Relinquished By (Sign)		Date / Time	
Received By (sign)	<i>Richard Elifant</i>	Date / Time	4-21-23 09:30
Received By (sign)		Date / Time	



180-155480 Chain of Custody



- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

BILLING: P/P

PT-WI-SR-001 effective 11/8/18

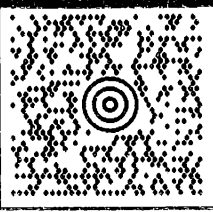
CF 0.0 Initials MC

Uncorrected temp 17 Thermometer ID 17

TRACKING #: 1Z 9X0 Y85 01 4545 8478

UPS NEXT DAY AIR

PA 152 9-22



PITTSBURGH PA 15238-2907

SHIP TO:
 SAMPLE RECEIVING
 (412) 963-7058
 TEST AMERICA LABORATORY - PA
 RIDG PARK
 301 ALPHA DRIVE

CONSUELO BRADLEY
 (34) 343-9799
 WAYPOINT ANALYTICAL - ALABAMA
 107A NORTHSIDE OFFICE PARK DRI
 ANDALUSIA AL 36421

12 LBS

1 OF 1



Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM: Johnson, Andy	Carrier Tracking No(s): 180-485369.1
Shipping/Receiving		E-Mail: Andy.Johnson@et.eurofins.com	Page: 1 of 1
Company: Eurofins Environment Testing North Cent		State of Origin: Alabama	Job #: 180-155480-1
Address: 180 S. Van Buren Avenue, Barberton, OH, 44203		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)	
Due Date Requested: 5/11/2023		Analysis Requested	
TAT Requested (days):		Total Number of Containers	
PO #:		6020A/3005A (MOD) Custom Sublist	
WO #:		Perform MS/MSD (Yes or No)	
Project #: 18021257		Field Filtered Sample (Yes or No)	
Site: SSOW#		Special Instructions/Note: m60	
Sample Identification - Client ID (Lab ID)			
MW-5 (180-155480-1)	Sample Date: 4/18/23	Sample Time: 15:40 Central	Matrix: Water
MW-5A (180-155480-2)	Sample Date: 4/18/23	Sample Time: 15:10 Central	Matrix: Water
MW-12 (180-155480-3)	Sample Date: 4/18/23	Sample Time: 11:20 Central	Matrix: Water
MW-12A (180-155480-4)	Sample Date: 4/18/23	Sample Time: 10:45 Central	Matrix: Water
MW-23 (180-155480-5)	Sample Date: 4/18/23	Sample Time: 14:15 Central	Matrix: Water
MW-26 (180-155480-6)	Sample Date: 4/18/23	Sample Time: 13:05 Central	Matrix: Water
DUPLICATE (180-155480-7)	Sample Date: 4/18/23	Sample Time: Central	Matrix: Water
RINSATE BLANK (180-155480-8)	Sample Date: 4/18/23	Sample Time: 19:00 Central	Matrix: Water
FIELD BLANK (180-155480-9)	Sample Date: 4/18/23	Sample Time: 19:10 Central	Matrix: Water

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date/Time: 4/18/23 1:00
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:

Received by: _____ Date/Time: 4-25-23 8:00
 Company: LETNC
 Received by: _____ Date/Time: _____
 Company: _____
 Received by: _____ Date/Time: _____
 Company: _____
 Cooler Temperature(s) °C and Other Remarks:

Eurofins - Canton Sample Receipt Form/Narrative Login # : _____
Barberton Facility

Client ETA Site Name _____ Cooler unpacked by: Nancy [Signature]
Cooler Received on 4-25-23 Opened on 4-25-23
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # ES Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None See Multiple Cooler Form

1. Cooler temperature upon receipt
IR GUN # 22 (CF +0.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity each Yes No
- Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
- Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
- Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shipper's packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Low HC203064
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
17. Was a LL Hg or Me Hg trip blank present? _____ Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____
Concerning _____

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION
Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION
Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____
VOA Sample Preservation - Date/Time VOAs Frozen: _____



Login Sample Receipt Checklist

Client: Waypoint Analytical, Inc.

Job Number: 180-155480-1

Login Number: 155480

List Source: Eurofins Pittsburgh

List Number: 1

Creator: Abernathy, Eric L

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-109-0004

QC Analytical Batch: L677893
Analysis Method: 2540C-2011
Analysis Description: Total Dissolved Solids

Lab Reagent Blank LRB Matrix: AQU
Associated Lab Samples: 97857, 97858, 97859, 97860, 97861, 97862, 97863, 97864, 97865, 97866, 97867, 97868

Parameter	Units	Blank Result	MQL	Analyzed
Total Dissolved Solids	mg/L	<12.5	12.5	04/24/23 14:39

Laboratory Control Sample LCS

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Total Dissolved Solids	mg/L	250	233	93.0	90-110

Duplicate N 97860-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Dissolved Solids	mg/L	447	465	3.9	10	04/24/23 14:39

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-109-0004

QC Prep: L677745 **QC Analytical Batch(es):** L678308,L678579
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L677745 Matrix: AQU
Associated Lab Samples: 97857, 97858, 97859, 97860, 97861, 97862, 97866, 97867, 97868

Parameter	Units	Blank Result	MQL	Analyzed
Antimony	mg/L	<0.0010	0.0010	04/26/23 04:57
Arsenic	mg/L	<0.0010	0.0010	04/26/23 04:57
Barium	mg/L	<0.001	0.001	04/26/23 04:57
Beryllium	mg/L	<0.0010	0.0010	04/26/23 04:57
Boron	mg/L	<0.010	0.010	04/26/23 16:02
Cadmium	mg/L	<0.0010	0.0010	04/26/23 04:57
Calcium	mg/L	<0.200	0.200	04/26/23 04:57
Chromium	mg/L	<0.001	0.001	04/26/23 04:57
Cobalt	mg/L	<0.001	0.001	04/26/23 04:57
Lead	mg/L	<0.0010	0.0010	04/26/23 04:57
Molybdenum	mg/L	<0.001	0.001	04/26/23 04:57
Selenium	mg/L	<0.001	0.001	04/26/23 04:57
Thallium	mg/L	<0.0010	0.0010	04/26/23 04:57

Laboratory Control Sample LCS-L677745

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Antimony	mg/L	0.100	0.0930	93.0	80-120
Arsenic	mg/L	0.0500	0.0449	90.0	80-120
Barium	mg/L	0.100	0.088	89.0	80-120
Beryllium	mg/L	0.0500	0.0425	85.0	80-120
Boron	mg/L	0.500	0.482	96.0	80-120
Cadmium	mg/L	0.0100	0.0097	97.0	80-120
Calcium	mg/L	10.0	9.04	90.0	80-120
Chromium	mg/L	0.100	0.090	90.0	80-120
Cobalt	mg/L	0.100	0.089	90.0	80-120
Lead	mg/L	0.0500	0.0451	90.0	80-120

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-109-0004

QC Prep: L677745 **QC Analytical Batch(es):** L678308,L678579
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Laboratory Control Sample LCS-L677745

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Molybdenum	mg/L	0.100	0.097	98.0	80-120
Selenium	mg/L	0.100	0.085	85.0	80-120
Thallium	mg/L	0.0100	0.0090	90.0	80-120

Matrix Spike & Matrix Spike Duplicate N 97868-MS-L677745 N 97868-MSD-L677745

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Antimony	mg/L	<0.0010	0.100	0.100	0.0885	0.0924	89.0	92.0	75-125	4.3	20
Arsenic	mg/L	<0.0010	0.0500	0.0500	0.0430	0.0459	86.0	92.0	75-125	6.5	20
Barium	mg/L	<0.001	0.100	0.100	0.082	0.087	82.0	87.0	75-125	6.0	20
Beryllium	mg/L	<0.0010	0.0500	0.0500	0.0403	0.0426	81.0	85.0	75-125	5.5	20
Boron	mg/L	<0.010	0.500	0.500	0.462	0.492	92.0	98.0	75-125	6.2	20
Cadmium	mg/L	<0.0010	0.0100	0.0100	0.0089	0.0094	90.0	95.0	75-125	4.9	20
Calcium	mg/L	<0.200	10.0	10.0	8.77	9.01	88.0	90.0	75-125	2.6	20
Chromium	mg/L	<0.001	0.100	0.100	0.087	0.090	87.0	90.0	75-125	3.4	20
Cobalt	mg/L	<0.001	0.100	0.100	0.085	0.090	86.0	90.0	75-125	5.3	20
Lead	mg/L	<0.0010	0.0500	0.0500	0.0434	0.0453	87.0	91.0	75-125	4.2	20
Molybdenum	mg/L	<0.001	0.100	0.100	0.095	0.099	96.0	99.0	75-125	3.9	20
Selenium	mg/L	<0.001	0.100	0.100	0.085	0.088	85.0	89.0	75-125	4.1	20
Thallium	mg/L	<0.0010	0.0100	0.0100	0.0085	0.0089	86.0	90.0	75-125	4.4	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-109-0004

QC Prep: L680798 **QC Analytical Batch(es):** L680954
QC Prep Batch Method: 7470A **Analysis Method:** 7470A
Analysis Description: Total Aqueous Mercury Analysis - CVAA

Lab Reagent Blank LRB-L680798 Matrix: AQU
Associated Lab Samples: 97857, 97858, 97859, 97860, 97861, 97862, 97866, 97867, 97868

Parameter	Units	Blank Result	MQL	Analyzed
Mercury	mg/L	<0.00020	0.00020	05/09/23 13:04

Laboratory Control Sample LCS-L680798

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/L	0.00500	0.00474	95.0	80-120

Matrix Spike & Matrix Spike Duplicate N 97868-MS-L680798 N 97868-MSD-L680798

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/L	<0.00040	0.00500	0.00500	0.00418	0.00524	84.0	105	80-120	22.5*	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-109-0004

QC Prep: L681620 **QC Analytical Batch(es):** L681735
QC Prep Batch Method: SW-9056A (PREP) **Analysis Method:** 9056A
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank LRB-L681620 Matrix: AQU
Associated Lab Samples: 97857, 97858, 97859, 97860, 97861, 97862, 97866, 97867, 97868

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/L	<0.400	0.400	05/11/23 09:09
Fluoride (w/o distillation)	mg/L	<0.125	0.125	05/11/23 09:09
Sulfate	mg/L	<1.00	1.00	05/11/23 09:09

Laboratory Control Sample & LCSD LCS-L681620 LCSD-L681620

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Chloride	mg/L	50.0	54.4	54.2	109	108	80-120	0.3	20
Fluoride (w/o distillation)	mg/L	6.25	6.36	6.35	102	102	80-120	0.1	20
Sulfate	mg/L	62.5	67.9	67.9	109	109	80-120	0.0	20

Matrix Spike & Matrix Spike Duplicate L 92235-MS-L681620 L 92235-MSD-L681620

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/L	8.29	52.6	52.6	66.2	65.1	110	108	80-120	1.6	15
Fluoride (w/o distillation)	mg/L	<0.131	6.58	6.58	7.23	7.08	110	108	80-120	2.0	15
Sulfate	mg/L	6.72	65.8	65.8	75.2	73.7	104	102	80-120	2.0	15

Shipment Receipt Form

Customer Number: **00001**
 Customer Name: **CDG Engineers Associates**
 Report Number: **23-109-0004**

Shipping Method

Fed Ex US Postal Lab Other :
 UPS Client Courier Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

Client Name/Address
 CDG, Inc.

Client Project Manager/Contact
 Alan Beck

Billing Information
 RUSH - Additional charges apply
 Special Detection Limit(s)
 Date Results Needed

For Laboratory Use Only

Project Description
 R021223004
 Auth #5 PSEC Lowman

Project/Site Location (City/State)
 Jackson, AL

Method of Shipment
 Fed Ex UPS USPS
 Courier Client Drop Off
 Other

Matrix Key
 WW - Wastewater GW - Groundwater
 DW - Drinking Water S - Soil / Solid O - Oil
 P - Product M - Misc

Project Number
 R021223004-001

Project Manager Email

Project Manager Phone #

Purchase Order Number

Site/Facility ID #

Waypoint ANALYTICAL
 2790 Whitten Road
 Memphis, TN 38133
 (901) 213-2400

Unless noted, all containers per Table II of 40 CFR Part 136.

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(g)rab or (c)omposite	Required Analysis / Preservative
11/14/23	1540	MW-5	5	GW	G	2 Nitric 2 Nitric Plastic Lits 2 Nitric Plastic Quart None Plastic Quart
	1510	MW-5A	5			
	1120	MW-12	5			
	1045	MW-12A	5			
	1415	MW-23	5			
	1305	MW-26	5			
	1559	MW-3	1			
	1620	MW-4	1			
	1605	MW-13	1			
	00:00	Duplicate	5			

Client Remarks/Comments
 Sampled by (Name - Print)
 Grant Marcum - C06

Ice	Custody Seals	Lab Comments
Y / N	Y / N	
Blank/Cooler Temp		

CDG Engineers Associates
 23-109-0004
 04-20-2023
 10:20:52

CDG Engineers Associates
 23-109-0005
 04-20-2023
 10:27:24

Date Time
 Received by: (SIGNATURE)
 4-19-23 09:30
 Received by: (SIGNATURE)
 Date Time
 Received by: (SIGNATURE)
 04/19/2023 09:10:00

APPENDIX F
OCTOBER 2023 ASSESSMENT MONITORING
LABORATORY REPORTS



11/10/2023

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL, 36420

Ref: Analytical Testing
Lab Report Number: 23-292-0002
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Dear Mr. Alan Barck:

Waypoint Analytical, LLC (Andalusia) received sample(s) on 10/19/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

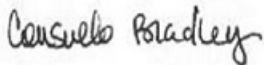
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Consuelo C Bradley

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	SC #84002
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #80215	PA DEP #68-03195

Sample Summary Table

Report Number: 23-292-0002
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
89335	MW-6	Aqueous	10/17/2023 09:50	10/19/2023 13:00	6020A	
89335	MW-6	Aqueous	10/17/2023 09:50	10/19/2023 13:00	7470A	WP MTN
89335	MW-6	Aqueous	10/17/2023 09:50	10/19/2023 13:00	2540C-2011	WP MTN
89335	MW-6	Aqueous	10/17/2023 09:50	10/19/2023 13:00	9056A	WP MTN
89335	MW-6	Aqueous	10/17/2023 09:50	10/19/2023 13:00	6020B	WP MTN
89336	MW-7	Aqueous	10/18/2023 08:20	10/19/2023 13:00	6020A	
89336	MW-7	Aqueous	10/18/2023 08:20	10/19/2023 13:00	2540C-2011	WP MTN
89336	MW-7	Aqueous	10/18/2023 08:20	10/19/2023 13:00	9056A	WP MTN
89336	MW-7	Aqueous	10/18/2023 08:20	10/19/2023 13:00	7470A	WP MTN
89336	MW-7	Aqueous	10/18/2023 08:20	10/19/2023 13:00	6020B	WP MTN
89337	MW-9	Aqueous	10/19/2023 08:15	10/19/2023 13:00	6020A	
89337	MW-9	Aqueous	10/19/2023 08:15	10/19/2023 13:00	7470A	WP MTN
89337	MW-9	Aqueous	10/19/2023 08:15	10/19/2023 13:00	9056A	WP MTN
89337	MW-9	Aqueous	10/19/2023 08:15	10/19/2023 13:00	6020B	WP MTN
89337	MW-9	Aqueous	10/19/2023 08:15	10/19/2023 13:00	2540C-2011	WP MTN
89338	MW-10	Aqueous	10/18/2023 09:30	10/19/2023 13:00	6020A	
89338	MW-10	Aqueous	10/18/2023 09:30	10/19/2023 13:00	9056A	WP MTN
89338	MW-10	Aqueous	10/18/2023 09:30	10/19/2023 13:00	7470A	WP MTN
89338	MW-10	Aqueous	10/18/2023 09:30	10/19/2023 13:00	6020B	WP MTN
89338	MW-10	Aqueous	10/18/2023 09:30	10/19/2023 13:00	2540C-2011	WP MTN
89339	MW-11	Aqueous	10/18/2023 13:20	10/19/2023 13:00	6020A	
89339	MW-11	Aqueous	10/18/2023 13:20	10/19/2023 13:00	9056A	WP MTN
89339	MW-11	Aqueous	10/18/2023 13:20	10/19/2023 13:00	7470A	WP MTN
89339	MW-11	Aqueous	10/18/2023 13:20	10/19/2023 13:00	6020B	WP MTN
89339	MW-11	Aqueous	10/18/2023 13:20	10/19/2023 13:00	2540C-2011	WP MTN

: Test America Laboratory - PA, Pittsburgh, PA
WP MTN - Memphis, TN: Waypoint Analytical - TN, Memphis, TN

Sample Summary Table

Report Number: 23-292-0002
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
89340	MW-12A	Aqueous	10/17/2023 07:40	10/19/2023 13:00	6020A	
89340	MW-12A	Aqueous	10/17/2023 07:40	10/19/2023 13:00	9056A	WP MTN
89340	MW-12A	Aqueous	10/17/2023 07:40	10/19/2023 13:00	7470A	WP MTN
89340	MW-12A	Aqueous	10/17/2023 07:40	10/19/2023 13:00	6020B	WP MTN
89340	MW-12A	Aqueous	10/17/2023 07:40	10/19/2023 13:00	2540C-2011	WP MTN
89341	MW-13A	Aqueous	10/17/2023 15:55	10/19/2023 13:00	6020A	
89341	MW-13A	Aqueous	10/17/2023 15:55	10/19/2023 13:00	2540C-2011	WP MTN
89341	MW-13A	Aqueous	10/17/2023 15:55	10/19/2023 13:00	9056A	WP MTN
89341	MW-13A	Aqueous	10/17/2023 15:55	10/19/2023 13:00	7470A	WP MTN
89341	MW-13A	Aqueous	10/17/2023 15:55	10/19/2023 13:00	6020B	WP MTN
89342	MW-14B	Aqueous	10/18/2023 15:20	10/19/2023 13:00	6020A	
89342	MW-14B	Aqueous	10/18/2023 15:20	10/19/2023 13:00	9056A	WP MTN
89342	MW-14B	Aqueous	10/18/2023 15:20	10/19/2023 13:00	7470A	WP MTN
89342	MW-14B	Aqueous	10/18/2023 15:20	10/19/2023 13:00	6020B	WP MTN
89342	MW-14B	Aqueous	10/18/2023 15:20	10/19/2023 13:00	2540C-2011	WP MTN
89343	MW-15	Aqueous	10/17/2023 13:45	10/19/2023 13:00	6020A	
89343	MW-15	Aqueous	10/17/2023 13:45	10/19/2023 13:00	9056A	WP MTN
89343	MW-15	Aqueous	10/17/2023 13:45	10/19/2023 13:00	7470A	WP MTN
89343	MW-15	Aqueous	10/17/2023 13:45	10/19/2023 13:00	6020B	WP MTN
89343	MW-15	Aqueous	10/17/2023 13:45	10/19/2023 13:00	2540C-2011	WP MTN
89344	MW-16	Aqueous	10/17/2023 14:55	10/19/2023 13:00	6020A	
89344	MW-16	Aqueous	10/17/2023 14:55	10/19/2023 13:00	9056A	WP MTN
89344	MW-16	Aqueous	10/17/2023 14:55	10/19/2023 13:00	7470A	WP MTN
89344	MW-16	Aqueous	10/17/2023 14:55	10/19/2023 13:00	6020B	WP MTN
89344	MW-16	Aqueous	10/17/2023 14:55	10/19/2023 13:00	2540C-2011	WP MTN

: Test America Laboratory - PA, Pittsburgh, PA
WP MTN - Memphis, TN: Waypoint Analytical - TN, Memphis, TN

Sample Summary Table

Report Number: 23-292-0002
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

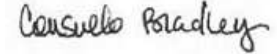
Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
89345	MW-18	Aqueous	10/19/2023 09:20	10/19/2023 13:00	6020A	
89345	MW-18	Aqueous	10/19/2023 09:20	10/19/2023 13:00	9056A	WP MTN
89345	MW-18	Aqueous	10/19/2023 09:20	10/19/2023 13:00	7470A	WP MTN
89345	MW-18	Aqueous	10/19/2023 09:20	10/19/2023 13:00	6020B	WP MTN
89345	MW-18	Aqueous	10/19/2023 09:20	10/19/2023 13:00	2540C-2011	WP MTN
89346	MW-19	Aqueous	10/17/2023 11:30	10/19/2023 13:00	6020A	
89346	MW-19	Aqueous	10/17/2023 11:30	10/19/2023 13:00	9056A	WP MTN
89346	MW-19	Aqueous	10/17/2023 11:30	10/19/2023 13:00	7470A	WP MTN
89346	MW-19	Aqueous	10/17/2023 11:30	10/19/2023 13:00	6020B	WP MTN
89346	MW-19	Aqueous	10/17/2023 11:30	10/19/2023 13:00	2540C-2011	WP MTN

00001

CDG Engineers Associates
Mr. Alan Barck
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Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/10/2023
Received : 10/19/2023



Report Number : **23-292-0002**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89335**

Matrix: **Aqueous**

Sample ID : **MW-6**

Sampled: **10/17/2023 9:50**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	54.1	mg/L	10.0	10	10/23/23 18:47	HMQ	9056A
Chloride	8.26	mg/L	4.00	10	10/23/23 18:47	HMQ	9056A
Fluoride (w/o distillation)	<1.25	mg/L	1.25	10	10/23/23 18:47	HMQ	9056A
Total Dissolved Solids	310	mg/L	50.0	1	10/23/23 15:00	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	10/31/23 20:47	CPW	6020B
Arsenic	0.0204	mg/L	0.0010	1	10/28/23 03:31	CPW	6020B
Barium	0.092	mg/L	0.001	1	10/28/23 03:31	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	10/31/23 20:47	CPW	6020B
Boron	0.296	mg/L	0.010	1	10/31/23 20:47	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	10/28/23 03:31	CPW	6020B
Calcium	74.6	mg/L	2.00	10	10/31/23 20:51	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	10/28/23 03:31	CPW	6020B
Cobalt	0.012	mg/L	0.001	1	10/28/23 03:31	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	10/28/23 03:31	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/26/23 14:37	FDS	7470A
Molybdenum	0.002	mg/L	0.001	1	10/28/23 03:31	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	10/28/23 03:31	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	10/28/23 03:31	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

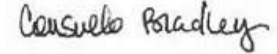
Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/10/2023
Received : 10/19/2023



Report Number : **23-292-0002**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89336**
Sample ID : **MW-7**

Matrix: **Aqueous**
Sampled: **10/18/2023 8:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	37.7	mg/L	1.00	1	10/23/23 19:12	HMQ	9056A
Chloride	2.53	mg/L	0.400	1	10/23/23 19:12	HMQ	9056A
Fluoride (w/o distillation)	2.46	mg/L	0.125	1	10/23/23 19:12	HMQ	9056A
Total Dissolved Solids	236	mg/L	50.0	1	10/24/23 15:15	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	10/28/23 03:35	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	10/28/23 03:35	CPW	6020B
Barium	0.085	mg/L	0.001	1	10/28/23 03:35	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	10/31/23 20:55	CPW	6020B
Boron	0.938	mg/L	0.010	1	10/31/23 20:55	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	10/28/23 03:35	CPW	6020B
Calcium	58.6	mg/L	2.00	10	10/31/23 20:59	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	10/28/23 03:35	CPW	6020B
Cobalt	0.001	mg/L	0.001	1	10/28/23 03:35	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	10/28/23 03:35	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/26/23 14:39	FDS	7470A
Molybdenum	0.019	mg/L	0.001	1	10/28/23 03:35	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	10/28/23 03:35	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	10/28/23 03:35	CPW	6020B

**Qualifiers/
Definitions**

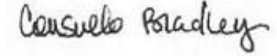
DF Dilution Factor MQL Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/10/2023
Received : 10/19/2023



Report Number : **23-292-0002**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89337**
Sample ID : **MW-9**

Matrix: **Aqueous**
Sampled: **10/19/2023 8:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	411	mg/L	10.0	10	10/23/23 19:38	HMQ	9056A
Chloride	135	mg/L	4.00	10	10/23/23 19:38	HMQ	9056A
Fluoride (w/o distillation)	<1.25	mg/L	1.25	10	10/23/23 19:38	HMQ	9056A
Total Dissolved Solids	1130	mg/L	83.3	1	10/24/23 15:15	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	10/28/23 03:39	CPW	6020B
Arsenic	0.0035	mg/L	0.0010	1	10/28/23 03:39	CPW	6020B
Barium	0.136	mg/L	0.001	1	10/28/23 03:39	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	10/31/23 21:12	CPW	6020B
Boron	6.61	mg/L	0.100	10	10/31/23 21:16	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	10/28/23 03:39	CPW	6020B
Calcium	253	mg/L	5.00	25	10/31/23 21:20	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	10/28/23 03:39	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	10/28/23 03:39	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	10/28/23 03:39	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/26/23 14:40	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	10/28/23 03:39	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	10/28/23 03:39	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	10/28/23 03:39	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

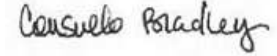
Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/10/2023
Received : 10/19/2023



Report Number : **23-292-0002**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89338**
Sample ID : **MW-10**

Matrix: **Aqueous**
Sampled: **10/18/2023 9:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	197	mg/L	10.0	10	10/23/23 20:17	HMQ	9056A
Chloride	60.9	mg/L	0.400	1	10/23/23 20:04	HMQ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	10/23/23 20:04	HMQ	9056A
Total Dissolved Solids	378	mg/L	50.0	1	10/24/23 15:15	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	10/28/23 03:44	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	10/28/23 03:44	CPW	6020B
Barium	0.035	mg/L	0.001	1	10/28/23 03:44	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	10/31/23 21:24	CPW	6020B
Boron	0.355	mg/L	0.010	1	10/31/23 21:24	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	10/28/23 03:44	CPW	6020B
Calcium	67.7	mg/L	2.00	10	10/31/23 21:28	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	10/28/23 03:44	CPW	6020B
Cobalt	0.002	mg/L	0.001	1	10/28/23 03:44	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	10/28/23 03:44	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/26/23 14:42	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	10/28/23 03:44	CPW	6020B
Selenium	0.001	mg/L	0.001	1	10/28/23 03:44	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	10/28/23 03:44	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

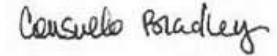
Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/10/2023
Received : 10/19/2023



Report Number : **23-292-0002**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89339**

Matrix: **Aqueous**

Sample ID : **MW-11**

Sampled: **10/18/2023 13:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	169	mg/L	10.0	10	10/23/23 20:30	HMQ	9056A
Chloride	14.8	mg/L	4.00	10	10/23/23 20:30	HMQ	9056A
Fluoride (w/o distillation)	1.93	mg/L	1.25	10	10/23/23 20:30	HMQ	9056A
Total Dissolved Solids	516	mg/L	50.0	1	10/24/23 15:15	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	10/28/23 03:48	CPW	6020B
Arsenic	0.0022	mg/L	0.0010	1	10/28/23 03:48	CPW	6020B
Barium	0.045	mg/L	0.001	1	10/28/23 03:48	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	10/31/23 21:32	CPW	6020B
Boron	3.31	mg/L	0.050	5	10/31/23 21:36	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	10/28/23 03:48	CPW	6020B
Calcium	131	mg/L	4.00	20	10/31/23 21:40	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	10/28/23 03:48	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	10/28/23 03:48	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	10/28/23 03:48	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/26/23 14:43	FDS	7470A
Molybdenum	0.092	mg/L	0.001	1	10/28/23 03:48	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	10/28/23 03:48	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	10/28/23 03:48	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

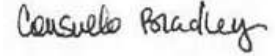
Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/10/2023
Received : 10/19/2023



Report Number : **23-292-0002**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89340**
Sample ID : **MW-12A**

Matrix: **Aqueous**
Sampled: **10/17/2023 7:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	247	mg/L	10.0	10	10/23/23 21:35	HMQ	9056A
Chloride	48.5	mg/L	0.400	1	10/23/23 21:22	HMQ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	10/23/23 21:22	HMQ	9056A
Total Dissolved Solids	518	mg/L	50.0	1	10/23/23 15:00	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	10/28/23 03:52	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	10/28/23 03:52	CPW	6020B
Barium	0.030	mg/L	0.001	1	10/28/23 03:52	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	10/31/23 21:44	CPW	6020B
Boron	0.570	mg/L	0.010	1	10/31/23 21:44	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	10/28/23 03:52	CPW	6020B
Calcium	105	mg/L	2.00	10	10/31/23 21:48	CPW	6020B
Chromium	0.001	mg/L	0.001	1	10/28/23 03:52	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	10/28/23 03:52	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	10/28/23 03:52	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/26/23 14:45	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	10/28/23 03:52	CPW	6020B
Selenium	0.005	mg/L	0.001	1	10/28/23 03:52	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	10/28/23 03:52	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

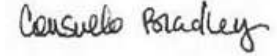
Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
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Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/10/2023
Received : 10/19/2023



Report Number : **23-292-0002**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89341**
Sample ID : **MW-13A**

Matrix: **Aqueous**
Sampled: **10/17/2023 15:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	92.7	mg/L	1.00	1	10/23/23 21:48	HMQ	9056A
Chloride	75.4	mg/L	0.400	1	10/23/23 21:48	HMQ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	10/23/23 21:48	HMQ	9056A
Total Dissolved Solids	314	mg/L	50.0	1	10/23/23 15:00	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	10/28/23 03:56	CPW	6020B
Arsenic	0.0081	mg/L	0.0010	1	10/28/23 03:56	CPW	6020B
Barium	0.172	mg/L	0.001	1	10/28/23 03:56	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	10/31/23 22:01	CPW	6020B
Boron	0.123	mg/L	0.010	1	10/31/23 22:01	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	10/28/23 03:56	CPW	6020B
Calcium	30.8	mg/L	1.00	5	10/31/23 22:05	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	10/28/23 03:56	CPW	6020B
Cobalt	0.012	mg/L	0.001	1	10/28/23 03:56	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	10/28/23 03:56	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/26/23 14:46	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	10/28/23 03:56	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	10/28/23 03:56	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	10/28/23 03:56	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

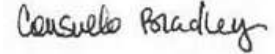
Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
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Andalusia, AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/10/2023
Received : 10/19/2023



Report Number : **23-292-0002**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89342**
Sample ID : **MW-14B**

Matrix: **Aqueous**
Sampled: **10/18/2023 15:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	196	mg/L	10.0	10	10/23/23 22:13	HMQ	9056A
Chloride	108	mg/L	4.00	10	10/23/23 22:13	HMQ	9056A
Fluoride (w/o distillation)	<1.25	mg/L	1.25	10	10/23/23 22:13	HMQ	9056A
Total Dissolved Solids	633	mg/L	83.3	1	10/24/23 15:15	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	10/28/23 04:00	CPW	6020B
Arsenic	0.0016	mg/L	0.0010	1	10/28/23 04:00	CPW	6020B
Barium	0.152	mg/L	0.001	1	10/28/23 04:00	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	10/31/23 22:09	CPW	6020B
Boron	1.44	mg/L	0.100	10	10/31/23 22:13	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	10/28/23 04:00	CPW	6020B
Calcium	95.6	mg/L	2.00	10	10/31/23 22:13	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	10/28/23 04:00	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	10/28/23 04:00	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	10/28/23 04:00	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/27/23 13:19	FDS	7470A
Molybdenum	0.045	mg/L	0.001	1	10/28/23 04:00	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	10/28/23 04:00	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	10/28/23 04:00	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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00001
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Project CDG
 Information : PowerSouth Lowman
 Project# R021223004

Report Date : 11/10/2023
 Received : 10/19/2023

Consuelo Bradley

Report Number : **23-292-0002**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89343**
 Sample ID : **MW-15**

Matrix: **Aqueous**
 Sampled: **10/17/2023 13:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	18.5	mg/L	1.00	1	10/23/23 22:39	HMQ	9056A
Chloride	4.03	mg/L	0.400	1	10/23/23 22:39	HMQ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	10/23/23 22:39	HMQ	9056A
Total Dissolved Solids	68.0	mg/L	33.3	1	10/23/23 12:50	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	10/28/23 04:04	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	10/28/23 04:04	CPW	6020B
Barium	0.045	mg/L	0.001	1	10/28/23 04:04	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	10/31/23 22:17	CPW	6020B
Boron	0.035	mg/L	0.010	1	10/31/23 22:17	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	10/28/23 04:04	CPW	6020B
Calcium	8.15	mg/L	0.200	1	10/28/23 04:04	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	10/28/23 04:04	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	10/28/23 04:04	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	10/28/23 04:04	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/27/23 13:20	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	10/28/23 04:04	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	10/28/23 04:04	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	10/28/23 04:04	CPW	6020B

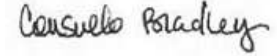
Qualifiers/ DF Dilution Factor MQL Method Quantitation Limit
Definitions

00001

CDG Engineers Associates
Mr. Alan Barck
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Andalusia, AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/10/2023
Received : 10/19/2023



Report Number : **23-292-0002**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89344**
Sample ID : **MW-16**

Matrix: **Aqueous**
Sampled: **10/17/2023 14:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	77.0	mg/L	1.00	1	10/23/23 23:05	HMQ	9056A
Chloride	41.5	mg/L	0.400	1	10/23/23 23:05	HMQ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	10/23/23 23:05	HMQ	9056A
Total Dissolved Solids	376	mg/L	50.0	1	10/23/23 15:00	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	10/28/23 04:08	CPW	6020B
Arsenic	0.0031	mg/L	0.0010	1	10/28/23 04:08	CPW	6020B
Barium	0.175	mg/L	0.001	1	10/28/23 04:08	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	10/31/23 22:21	CPW	6020B
Boron	0.750	mg/L	0.010	1	10/31/23 22:21	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	10/28/23 04:08	CPW	6020B
Calcium	74.2	mg/L	2.00	10	10/31/23 22:25	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	10/28/23 04:08	CPW	6020B
Cobalt	0.015	mg/L	0.001	1	10/28/23 04:08	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	10/28/23 04:08	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/27/23 13:22	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	10/28/23 04:08	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	10/28/23 04:08	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	10/28/23 04:08	CPW	6020B

**Qualifiers/
Definitions**

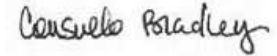
DF Dilution Factor MQL Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/10/2023
Received : 10/19/2023



Report Number : **23-292-0002**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89345**
Sample ID : **MW-18**

Matrix: **Aqueous**
Sampled: **10/19/2023 9:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	18.2	mg/L	1.00	1	10/23/23 23:57	HMQ	9056A
Chloride	9.71	mg/L	0.400	1	10/23/23 23:57	HMQ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	10/23/23 23:57	HMQ	9056A
Total Dissolved Solids	148	mg/L	50.0	1	10/24/23 15:15	A.B	2540C-2011
Antimony	0.0015	mg/L	0.0010	1	10/28/23 04:21	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	10/28/23 04:21	CPW	6020B
Barium	0.141	mg/L	0.001	1	10/28/23 04:21	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	10/31/23 22:29	CPW	6020B
Boron	0.117	mg/L	0.010	1	10/31/23 22:29	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	10/28/23 04:21	CPW	6020B
Calcium	32.3	mg/L	1.00	5	10/31/23 22:33	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	10/28/23 04:21	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	10/31/23 22:29	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	10/28/23 04:21	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/27/23 13:23	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	10/28/23 04:21	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	10/31/23 22:29	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	10/28/23 04:21	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

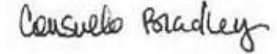
Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/10/2023
Received : 10/19/2023



Report Number : **23-292-0002**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89346**
Sample ID : **MW-19**

Matrix: **Aqueous**
Sampled: **10/17/2023 11:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	66.9	mg/L	1.00	1	10/24/23 00:22	HMQ	9056A
Chloride	18.9	mg/L	0.400	1	10/24/23 00:22	HMQ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	10/24/23 00:22	HMQ	9056A
Total Dissolved Solids	226	mg/L	50.0	1	10/23/23 12:50	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	10/28/23 04:25	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	10/28/23 04:25	CPW	6020B
Barium	0.074	mg/L	0.001	1	10/28/23 04:25	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	10/31/23 22:58	CPW	6020B
Boron	0.215	mg/L	0.010	1	10/31/23 22:58	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	10/28/23 04:25	CPW	6020B
Calcium	30.9	mg/L	1.00	5	10/31/23 23:18	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	10/28/23 04:25	CPW	6020B
Cobalt	0.004	mg/L	0.001	1	10/31/23 22:58	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	10/28/23 04:25	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/27/23 13:25	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	10/28/23 04:25	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	10/31/23 22:58	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	10/28/23 04:25	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



ANALYTICAL REPORT

PREPARED FOR

Attn: Consuelo Bradley
Waypoint Analytical, Inc.
107A Northside Office Park Drive
Andalusia, Alabama 36421

Generated 11/9/2023 12:58:23 PM

JOB DESCRIPTION

23-292-0002

JOB NUMBER

180-164216-1

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



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Authorized for release by
Andy Johnson, Senior Project Manager
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(615)818-9567



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Case Narrative

Client: Waypoint Analytical, Inc.
Project/Site: 23-292-0002

Job ID: 180-164216-1

Job ID: 180-164216-1

Laboratory: Eurofins Pittsburgh

Narrative

**Job Narrative
180-164216-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 10/20/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Definitions/Glossary

Client: Waypoint Analytical, Inc.
Project/Site: 23-292-0002

Job ID: 180-164216-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-292-0002

Job ID: 180-164216-1

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-23 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23 *
Georgia	State	10026 (NY)	03-31-24
Georgia	State Program	N/A	03-31-09 *
Illinois	NELAP	200003	09-30-23 *
Iowa	State	374	03-01-25
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	02-01-24
Kentucky (DW)	State	90029	01-01-24
Kentucky (UST)	State	108092	04-01-24
Kentucky (WW)	State	KY90029	12-31-23
Louisiana	NELAP	02031	06-30-23 *
Louisiana (All)	NELAP	02031	06-30-23 *
Maine	State	NY00044	12-04-24
Maryland	State	294	06-30-24
Massachusetts	State	M-NY044	07-01-24
Michigan	State	9937	04-01-24
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-23
New Jersey	NELAP	NY455	06-30-24
New York	NELAP	10026	03-31-24
Pennsylvania	NELAP	68-00281	08-31-24
Rhode Island	State	LAO00328	12-30-23
Texas	NELAP	T104704412-18-10	07-31-23 *
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	09-14-23 *
Washington	State	C784	02-10-24
Wisconsin	State	998310390	08-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-292-0002

Job ID: 180-164216-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-164216-1	MW-6	Water	10/17/23 09:50	10/20/23 10:00
180-164216-2	MW-7	Water	10/18/23 08:20	10/20/23 10:00
180-164216-3	MW-9	Water	10/19/23 08:15	10/20/23 10:00
180-164216-4	MW-10	Water	10/18/23 09:30	10/20/23 10:00
180-164216-5	MW-11	Water	10/18/23 13:20	10/20/23 10:00
180-164216-6	MW-12A	Water	10/17/23 07:40	10/20/23 10:00
180-164216-7	MW-13A	Water	10/17/23 15:55	10/20/23 10:00
180-164216-8	MW-14B	Water	10/18/23 15:20	10/20/23 10:00
180-164216-9	MW-15	Water	10/17/23 13:45	10/20/23 10:00
180-164216-10	MW-16	Water	10/17/23 14:55	10/20/23 10:00
180-164216-11	MW-18	Water	10/19/23 09:20	10/20/23 10:00
180-164216-12	MW-19	Water	10/17/23 11:30	10/20/23 10:00



Method Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-292-0002

Job ID: 180-164216-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET BUF
3020A	Preparation, Total Metals	SW846	EET BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-292-0002

Job ID: 180-164216-1

Client Sample ID: MW-6

Lab Sample ID: 180-164216-1

Date Collected: 10/17/23 09:50

Matrix: Water

Date Received: 10/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	689473	10/31/23 08:54	NVK	EET BUF
Total/NA	Analysis	6020B		1			691125	11/08/23 21:49	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-7

Lab Sample ID: 180-164216-2

Date Collected: 10/18/23 08:20

Matrix: Water

Date Received: 10/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	689473	10/31/23 08:54	NVK	EET BUF
Total/NA	Analysis	6020B		1			691125	11/08/23 22:07	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-9

Lab Sample ID: 180-164216-3

Date Collected: 10/19/23 08:15

Matrix: Water

Date Received: 10/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	689473	10/31/23 08:54	NVK	EET BUF
Total/NA	Analysis	6020B		1			691125	11/08/23 22:10	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-10

Lab Sample ID: 180-164216-4

Date Collected: 10/18/23 09:30

Matrix: Water

Date Received: 10/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	689473	10/31/23 08:54	NVK	EET BUF
Total/NA	Analysis	6020B		1			691125	11/08/23 22:12	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-11

Lab Sample ID: 180-164216-5

Date Collected: 10/18/23 13:20

Matrix: Water

Date Received: 10/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	689473	10/31/23 08:54	NVK	EET BUF
Total/NA	Analysis	6020B		1			691125	11/08/23 22:14	BMB	EET BUF

Instrument ID: Agilent7800

Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-292-0002

Job ID: 180-164216-1

Client Sample ID: MW-12A

Lab Sample ID: 180-164216-6

Date Collected: 10/17/23 07:40

Matrix: Water

Date Received: 10/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	689473	10/31/23 08:54	NVK	EET BUF
Total/NA	Analysis	6020B		1			691125	11/08/23 22:17	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-13A

Lab Sample ID: 180-164216-7

Date Collected: 10/17/23 15:55

Matrix: Water

Date Received: 10/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	689473	10/31/23 08:54	NVK	EET BUF
Total/NA	Analysis	6020B		1			691125	11/08/23 22:19	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-14B

Lab Sample ID: 180-164216-8

Date Collected: 10/18/23 15:20

Matrix: Water

Date Received: 10/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	689473	10/31/23 08:54	NVK	EET BUF
Total/NA	Analysis	6020B		1			691125	11/08/23 22:21	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-15

Lab Sample ID: 180-164216-9

Date Collected: 10/17/23 13:45

Matrix: Water

Date Received: 10/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	689473	10/31/23 08:54	NVK	EET BUF
Total/NA	Analysis	6020B		1			691125	11/08/23 22:23	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-16

Lab Sample ID: 180-164216-10

Date Collected: 10/17/23 14:55

Matrix: Water

Date Received: 10/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	689473	10/31/23 08:54	NVK	EET BUF
Total/NA	Analysis	6020B		1			691125	11/08/23 22:26	BMB	EET BUF

Instrument ID: Agilent7800

Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-292-0002

Job ID: 180-164216-1

Client Sample ID: MW-18

Lab Sample ID: 180-164216-11

Date Collected: 10/19/23 09:20

Matrix: Water

Date Received: 10/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	689473	10/31/23 08:54	NVK	EET BUF
Total/NA	Analysis	6020B		1			691125	11/08/23 22:28	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-19

Lab Sample ID: 180-164216-12

Date Collected: 10/17/23 11:30

Matrix: Water

Date Received: 10/20/23 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	689473	10/31/23 08:54	NVK	EET BUF
Total/NA	Analysis	6020B		1			691125	11/08/23 22:38	BMB	EET BUF

Instrument ID: Agilent7800

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Analyst References:

Lab: EET BUF

Batch Type: Prep

NVK = Nicholas Kibby

Batch Type: Analysis

BMB = Bryan Booth

Client Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-292-0002

Job ID: 180-164216-1

Client Sample ID: MW-6

Lab Sample ID: 180-164216-1

Date Collected: 10/17/23 09:50

Matrix: Water

Date Received: 10/20/23 10:00

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00564		0.00400		mg/L		10/31/23 08:54	11/08/23 21:49	1

Client Sample ID: MW-7

Lab Sample ID: 180-164216-2

Date Collected: 10/18/23 08:20

Matrix: Water

Date Received: 10/20/23 10:00

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0873		0.00400		mg/L		10/31/23 08:54	11/08/23 22:07	1

Client Sample ID: MW-9

Lab Sample ID: 180-164216-3

Date Collected: 10/19/23 08:15

Matrix: Water

Date Received: 10/20/23 10:00

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		10/31/23 08:54	11/08/23 22:10	1

Client Sample ID: MW-10

Lab Sample ID: 180-164216-4

Date Collected: 10/18/23 09:30

Matrix: Water

Date Received: 10/20/23 10:00

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0156		0.00400		mg/L		10/31/23 08:54	11/08/23 22:12	1

Client Sample ID: MW-11

Lab Sample ID: 180-164216-5

Date Collected: 10/18/23 13:20

Matrix: Water

Date Received: 10/20/23 10:00

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0567		0.00400		mg/L		10/31/23 08:54	11/08/23 22:14	1

Client Sample ID: MW-12A

Lab Sample ID: 180-164216-6

Date Collected: 10/17/23 07:40

Matrix: Water

Date Received: 10/20/23 10:00

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00537		0.00400		mg/L		10/31/23 08:54	11/08/23 22:17	1

Client Sample ID: MW-13A

Lab Sample ID: 180-164216-7

Date Collected: 10/17/23 15:55

Matrix: Water

Date Received: 10/20/23 10:00

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00791		0.00400		mg/L		10/31/23 08:54	11/08/23 22:19	1

Eurofins Pittsburgh

Client Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-292-0002

Job ID: 180-164216-1

Client Sample ID: MW-14B

Lab Sample ID: 180-164216-8

Date Collected: 10/18/23 15:20

Matrix: Water

Date Received: 10/20/23 10:00

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.141		0.00400		mg/L		10/31/23 08:54	11/08/23 22:21	1

Client Sample ID: MW-15

Lab Sample ID: 180-164216-9

Date Collected: 10/17/23 13:45

Matrix: Water

Date Received: 10/20/23 10:00

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		10/31/23 08:54	11/08/23 22:23	1

Client Sample ID: MW-16

Lab Sample ID: 180-164216-10

Date Collected: 10/17/23 14:55

Matrix: Water

Date Received: 10/20/23 10:00

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0337		0.00400		mg/L		10/31/23 08:54	11/08/23 22:26	1

Client Sample ID: MW-18

Lab Sample ID: 180-164216-11

Date Collected: 10/19/23 09:20

Matrix: Water

Date Received: 10/20/23 10:00

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		10/31/23 08:54	11/08/23 22:28	1

Client Sample ID: MW-19

Lab Sample ID: 180-164216-12

Date Collected: 10/17/23 11:30

Matrix: Water

Date Received: 10/20/23 10:00

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00904		0.00400		mg/L		10/31/23 08:54	11/08/23 22:38	1

QC Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-292-0002

Job ID: 180-164216-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 480-689473/1-A
Matrix: Water
Analysis Batch: 691125

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 689473

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		10/31/23 08:54	11/08/23 21:44	1

Lab Sample ID: LCS 480-689473/2-A
Matrix: Water
Analysis Batch: 691125

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 689473

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.0200	0.01978		mg/L		99	80 - 120

Lab Sample ID: 180-164216-1 MS
Matrix: Water
Analysis Batch: 691125

Client Sample ID: MW-6
Prep Type: Total/NA
Prep Batch: 689473

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.00564		0.0200	0.02596		mg/L		102	75 - 125

Lab Sample ID: 180-164216-1 MSD
Matrix: Water
Analysis Batch: 691125

Client Sample ID: MW-6
Prep Type: Total/NA
Prep Batch: 689473

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.00564		0.0200	0.02506		mg/L		97	75 - 125	4	20

QC Association Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-292-0002

Job ID: 180-164216-1

Metals

Prep Batch: 689473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164216-1	MW-6	Total/NA	Water	3020A	
180-164216-2	MW-7	Total/NA	Water	3020A	
180-164216-3	MW-9	Total/NA	Water	3020A	
180-164216-4	MW-10	Total/NA	Water	3020A	
180-164216-5	MW-11	Total/NA	Water	3020A	
180-164216-6	MW-12A	Total/NA	Water	3020A	
180-164216-7	MW-13A	Total/NA	Water	3020A	
180-164216-8	MW-14B	Total/NA	Water	3020A	
180-164216-9	MW-15	Total/NA	Water	3020A	
180-164216-10	MW-16	Total/NA	Water	3020A	
180-164216-11	MW-18	Total/NA	Water	3020A	
180-164216-12	MW-19	Total/NA	Water	3020A	
MB 480-689473/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-689473/2-A	Lab Control Sample	Total/NA	Water	3020A	
180-164216-1 MS	MW-6	Total/NA	Water	3020A	
180-164216-1 MSD	MW-6	Total/NA	Water	3020A	

Analysis Batch: 691125

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164216-1	MW-6	Total/NA	Water	6020B	689473
180-164216-2	MW-7	Total/NA	Water	6020B	689473
180-164216-3	MW-9	Total/NA	Water	6020B	689473
180-164216-4	MW-10	Total/NA	Water	6020B	689473
180-164216-5	MW-11	Total/NA	Water	6020B	689473
180-164216-6	MW-12A	Total/NA	Water	6020B	689473
180-164216-7	MW-13A	Total/NA	Water	6020B	689473
180-164216-8	MW-14B	Total/NA	Water	6020B	689473
180-164216-9	MW-15	Total/NA	Water	6020B	689473
180-164216-10	MW-16	Total/NA	Water	6020B	689473
180-164216-11	MW-18	Total/NA	Water	6020B	689473
180-164216-12	MW-19	Total/NA	Water	6020B	689473
MB 480-689473/1-A	Method Blank	Total/NA	Water	6020B	689473
LCS 480-689473/2-A	Lab Control Sample	Total/NA	Water	6020B	689473
180-164216-1 MS	MW-6	Total/NA	Water	6020B	689473
180-164216-1 MSD	MW-6	Total/NA	Water	6020B	689473



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 Main 334.343.9799
 www.waypointanalytical.com

10/19/2023 14:48:57

Page 1 of 2

Export Batch Report

Export Batch Id : 684EXP

Created: 10/19/2023 14:48:34

Computer: WPALMS-167

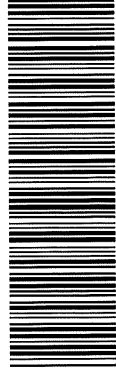
User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Test America Laboratory - PA
 301 Alpha Drive / RIDC Park
 Pittsburgh, PA 152382907
 412-963-7058

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code Description
23-292-0002	11/02/2023	10/17/2023 09:50	MW-6	AQU 89335	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-292-0002	11/02/2023	10/18/2023 08:20	MW-7	AQU 89336	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-292-0002	11/02/2023	10/19/2023 08:15	MW-9	AQU 89337	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-292-0002	11/02/2023	10/18/2023 09:30	MW-10	AQU 89338	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-292-0002	11/02/2023	10/18/2023 13:20	MW-11	AQU 89339	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-292-0002	11/02/2023	10/17/2023 07:40	MW-12A	AQU 89340	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-292-0002	11/02/2023	10/17/2023 15:55	MW-13A	AQU 89341	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-292-0002	11/02/2023	10/18/2023 15:20	MW-14B	AQU 89342	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-292-0002	11/02/2023	10/17/2023 13:45	MW-15	AQU 89343	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)



180-164216 Chain of Custody

Sampled By	Method of Shipment	Blank / Cooler Temp.
Remarks		
Relinquished By (sign)	Date / Time	Received By (sign)
<i>Consuelo C Bradley</i>	10/19/23 @ 15:00	<i>E.C. Bradley</i>
Relinquished By (sign)	Date / Time	Received By (sign)





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 Main 334.343.9799
 www.waypointanalytical.com

10/19/2023 14:48:57

Export Batch Report

Export Batch Id : 684EXP

Page 2 of 2

Created: 10/19/2023 14:48:34

Computer: WPALMS-167

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Test America Laboratory - PA
 301 Alpha Drive / RIDC Park
 Pittsburgh, PA 152382907
 412-963-7058

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

<u>Report No</u>	<u>Due Date</u>	<u>Sample Date</u>	<u>Customer Sample No</u>	<u>Rush Matrix Lab No Method No</u>	<u>Fee Code Description</u>
23-292-0002	11/02/2023	10/17/2023 14:55	MW-16	AQU 89344 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-292-0002	11/02/2023	10/19/2023 09:20	MW-18	AQU 89345 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-292-0002	11/02/2023	10/17/2023 11:30	MW-19	AQU 89346 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)

Sampled By <i>Client</i>	Method of Shipment	Blank / Cooler Temp.
Remarks <i>Level II Reporting</i>		
Relinquished By (sign) <i>Consuelo C Bradley</i>	Date / Time 10/19/23 2:50 P	Received By (sign) <i>Eli M...</i>
Relinquished By (sign)	Date / Time	Date / Time 10-20-23 10:00



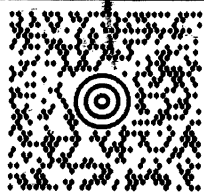
CONSUELO BRADLEY
(334) 343-9799
WAYPOINT ANALYTICAL - ALABAMA
107A NORTHSIDE OFFICE PARK DRI
AUSTIN, AL 36421

12 LBS

1 OF 1

SHIP TO:

SAMPLE RECEIVING
(412) 963-7058
TEST AMERICA LABORATORY - PA
RIDC PARK
301 ALPHA DRIVE
PITTSBURGH PA 15238-2907



PA 152 9 - 22



UPS NEXT DAY AIR

TRACKING #: 1Z 9X0 Y85 01 4489 9360

1

Uncorrected temp
Thermometer ID

3.2 °C

17

CF -0.4 Initials WL

PT-WI-SR-001 effective 11/8/18

BILLING P/P

WS 26.0:30 Zebra ZP 460 42.0A 10/2023



SEE NOTICE ON REVERSE regarding UPS Terms, and notice of limitation of liability, where allowed by law, shipper authorizes UPS to act as forwarding agent for export control and customs purposes, if reported from the US, shipper certifies that the commodities, technology or software were exported from the US in accordance with the Export Administration Regulations. Deviation contrary to law is prohibited.

180519

Chain of Custody Record



Environment Testing



Client Information (Sub Contract Lab)		Lab PM: Johnson, Andy	Carrier Tracking No(s): 180-498262.1							
Client Contact: Shipping/Receiving		E-Mail: Andy.Johnson@eurofins.com	Page: Page 1 of 2							
Company: Eurofins Environment Testing Northeast		Accreditations Required (See note): 180-164216-1								
Address: 10 Hazelwood Drive, Amherst, NY, 14228-2298		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Archlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:								
Due Date Requested: 11/9/2023		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)								
TAT Requested (days):		Analysis Requested								
PO #:		Total Number of Containers								
WO #:		60208/3020A LI by 6020A								
Project #:		Perform MS/MSD (Yes or No)								
SSOW#:		Field Filtered Sample (Yes or No)								
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weaver, Sealed, Open/air, etc.)	Preservation Code	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested	Total Number of Containers	Special Instructions/Note:
MW-6 (180-164216-1)	10/17/23	09:50 Central	Water	Water	X	X			1	
MW-7 (180-164216-2)	10/18/23	08:20 Central	Water	Water	X	X			1	
MW-9 (180-164216-3)	10/19/23	08:15 Central	Water	Water	X	X			1	
MW-10 (180-164216-4)	10/18/23	09:30 Central	Water	Water	X	X			1	
MW-11 (180-164216-5)	10/18/23	13:20 Central	Water	Water	X	X			1	
MW-12A (180-164216-6)	10/17/23	07:40 Central	Water	Water	X	X			1	
MW-13A (180-164216-7)	10/17/23	15:55 Central	Water	Water	X	X			1	
MW-14B (180-164216-8)	10/18/23	15:20 Central	Water	Water	X	X			1	
MW-15 (180-164216-9)	10/17/23	13:45 Central	Water	Water	X	X			1	

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____
 Relinquished by: _____ Date: _____
 Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: 15.2 # 1 No File

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: _____

Received by: _____ Date/Time: 10-25-23 17:00
 Received by: _____ Date/Time: 10/20/23 10:00
 Received by: _____ Date/Time: _____
 Company: Eurofins Pittsburgh
 Company: Eurofins Pittsburgh
 Company: Eurofins Pittsburgh



Chain of Custody Record



Client Information (Sub Contract Lab) Client Contact: Johnson, Andy Shipping/Receiving: Andy.Johnson@eurofins.com Company: Eurofins Environment Testing Northeast, Alabama		Lab PM: Johnson, Andy E-Mail: Andy.Johnson@eurofins.com Carrier Tracking No(s): 180-498262.2 State of Origin: Alabama Page: Page 2 of 2 Job #: 180-164216-1	
Address: 10 Hazelwood Drive, Amherst, NY, 14228-2298 Phone: 716-691-2600(Tel) 716-691-7991(Fax) Email:		Due Date Requested: 11/9/2023 TAT Requested (days): PO #: WO #: Project #: 18021257 SOW#:	
Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Archlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)			
Sample Identification - Client ID (Lab ID)			
Sample Date 10/17/23 10/19/23 10/17/23	Sample Time 14:55 Central 09:20 Central 11:30 Central	Sample Type (C=Comp, G=grab) Water Water Water	Matrix (W=water, S=solid, O=soil, AT=Tissue, A=Air) Water Water Water
Field Filtered Sample (Yes or No)		Performance MS/MSD (Yes or No)	
X X X		X X X	
Total Number of Containers			
X 1 1 1			
Special Instructions/Note:			
Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.			
Possible Hazard Identification Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2 Empty Kit Relinquished by: Relinquished by: Relinquished by: Relinquished by: Custody Seals Intact: Custody Seal No.: Δ Yes Δ No			
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months			
Special Instructions/QC Requirements:			
Received by: [Signature] Date/Time: 10/20/23 1:00 PM Company: TPA			
Received by: Date/Time: Company:			
Received by: Date/Time: Company:			
Cooler Temperature(s) °C and Other Remarks:			



Login Sample Receipt Checklist

Client: Waypoint Analytical, Inc.

Job Number: 180-164216-1

Login Number: 164216

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is <= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Waypoint Analytical, Inc.

Job Number: 180-164216-1

Login Number: 164216

List Number: 2

Creator: Kolb, Chris M

List Source: Eurofins Buffalo

List Creation: 10/26/23 02:18 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	15.2 ir gun #1 no ice
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-292-0002

QC Analytical Batch: L712550
Analysis Method: 2540C-2011
Analysis Description: Total Dissolved Solids

Lab Reagent Blank LRB Matrix: AQU
Associated Lab Samples: 89335, 89340, 89341, 89344

Parameter	Units	Blank Result	MQL	Analyzed
Total Dissolved Solids	mg/L	<50.0	50.0	10/23/23 15:00

Laboratory Control Sample LCS

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Total Dissolved Solids	mg/L	250	236	94.0	90-110

Duplicate L 90170-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Dissolved Solids	mg/L	490	486	0.8	10	10/23/23 15:00

Quality Control Data

Client ID: CDG Engineers Associates

Project Description: CDG

Report No: 23-292-0002

QC Analytical Batch: L712551

Analysis Method: 2540C-2011

Analysis Description: Total Dissolved Solids

Lab Reagent Blank LRB Matrix: AQU

Associated Lab Samples: 89343, 89346

Parameter	Units	Blank Result	MQL	Analyzed
Total Dissolved Solids	mg/L	<33.3	33.3	10/23/23 12:50

Laboratory Control Sample LCS

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Total Dissolved Solids	mg/L	250	244	98.0	90-110

Duplicate L 90169-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Dissolved Solids	mg/L	360	328	9.3	10	10/23/23 12:50

Quality Control Data

Client ID: CDG Engineers Associates

Project Description: CDG

Report No: 23-292-0002

QC Analytical Batch: L712880

Analysis Method: 2540C-2011

Analysis Description: Total Dissolved Solids

Lab Reagent Blank LRB Matrix: AQU

Associated Lab Samples: 89336, 89337, 89338, 89339, 89342, 89345

Parameter	Units	Blank Result	MQL	Analyzed
Total Dissolved Solids	mg/L	<50.0	50.0	10/24/23 15:15

Laboratory Control Sample LCS

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Total Dissolved Solids	mg/L	250	244	98.0	90-110

Duplicate L 90153-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Dissolved Solids	mg/L	130	140	7.4	10	10/24/23 15:15

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-292-0002

QC Prep: L712602 **QC Analytical Batch(es):** L713929,L714509
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L712602 Matrix: AQU
Associated Lab Samples: 89335, 89336, 89337, 89338, 89339, 89340, 89341, 89342, 89343, 89344, 89345, 89346

Parameter	Units	Blank Result	MQL	Analyzed
Antimony	mg/L	<0.0010	0.0010	10/28/23 03:07
Arsenic	mg/L	<0.0010	0.0010	10/28/23 03:07
Barium	mg/L	<0.001	0.001	10/28/23 03:07
Beryllium	mg/L	<0.0010	0.0010	10/31/23 20:39
Boron	mg/L	<0.010	0.010	10/31/23 20:39
Cadmium	mg/L	<0.0010	0.0010	10/28/23 03:07
Calcium	mg/L	<0.200	0.200	10/28/23 03:07
Chromium	mg/L	<0.001	0.001	10/28/23 03:07
Cobalt	mg/L	<0.001	0.001	10/28/23 03:07
Lead	mg/L	<0.0010	0.0010	10/28/23 03:07
Molybdenum	mg/L	<0.001	0.001	10/28/23 03:07
Selenium	mg/L	<0.001	0.001	10/28/23 03:07
Thallium	mg/L	<0.0010	0.0010	10/28/23 03:07

Laboratory Control Sample LCS-L712602

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Antimony	mg/L	0.100	0.100	100	80-120
Arsenic	mg/L	0.0500	0.0526	105	80-120
Barium	mg/L	0.100	0.106	106	80-120
Beryllium	mg/L	0.0500	0.0502	100	80-120
Boron	mg/L	0.500	0.497	99.0	80-120
Cadmium	mg/L	0.0100	0.0097	98.0	80-120
Calcium	mg/L	10.0	9.63	96.0	80-120
Chromium	mg/L	0.100	0.095	95.0	80-120
Cobalt	mg/L	0.100	0.091	91.0	80-120
Lead	mg/L	0.0500	0.0491	98.0	80-120

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-292-0002

QC Prep: L712602 **QC Analytical Batch(es):** L713929,L714509
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Laboratory Control Sample LCS-L712602

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Molybdenum	mg/L	0.100	0.105	105	80-120
Selenium	mg/L	0.100	0.089	89.0	80-120
Thallium	mg/L	0.0100	0.0097	97.0	80-120

Matrix Spike & Matrix Spike Duplicate N 89346-MS-L712602 N 89346-MSD-L712602

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Antimony	mg/L	<0.0010	0.100	0.100	0.125	0.123	125	123	75-125	1.6	20
Arsenic	mg/L	<0.0010	0.0500	0.0500	0.0557	0.0558	111	112	75-125	0.1	20
Barium	mg/L	0.074	0.100	0.100	0.178	0.172	104	98.0	75-125	3.4	20
Beryllium	mg/L	<0.0010	0.0500	0.0500	0.0509	0.0475	102	95.0	75-125	6.9	20
Boron	mg/L	0.215	0.500	0.500	0.707	0.664	98.0	90.0	75-125	6.2	20
Cadmium	mg/L	<0.0010	0.0100	0.0100	0.0105	0.0102	99.0	96.0	75-125	2.8	20
Calcium	mg/L	30.9	10.0	10.0	41.1	38.8	102	79.0	75-125	5.7	20
Chromium	mg/L	<0.001	0.100	0.100	0.094	0.093	94.0	93.0	75-125	1.5	20
Cobalt	mg/L	0.004	0.100	0.100	0.094	0.091	91.0	88.0	75-125	3.2	20
Lead	mg/L	<0.0010	0.0500	0.0500	0.0494	0.0488	99.0	98.0	75-125	1.2	20
Molybdenum	mg/L	<0.001	0.100	0.100	0.108	0.106	108	106	75-125	1.8	20
Selenium	mg/L	<0.001	0.100	0.100	0.095	0.092	96.0	93.0	75-125	3.0	20
Thallium	mg/L	<0.0010	0.0100	0.0100	0.0099	0.0099	100	100	75-125	0.3	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-292-0002

QC Prep: L713278 **QC Analytical Batch(es):** L713515
QC Prep Batch Method: 7470A **Analysis Method:** 7470A
Analysis Description: Total Aqueous Mercury Analysis - CVAA

Lab Reagent Blank LRB-L713278 Matrix: AQU
Associated Lab Samples: 89335, 89336, 89337, 89338, 89339, 89340, 89341

Parameter	Units	Blank Result	MQL	Analyzed
Mercury	mg/L	<0.00020	0.00020	10/26/23 14:10

Laboratory Control Sample LCS-L713278

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/L	0.00400	0.00427	107	80-120

Matrix Spike & Matrix Spike Duplicate N 89341-MS-L713278 N 89341-MSD-L713278

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/L	<0.00020	0.00400	0.00400	0.00322	0.00343	81.0	86.0	80-120	6.3	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-292-0002

QC Prep: L713578 **QC Analytical Batch(es):** L713780
QC Prep Batch Method: 7470A **Analysis Method:** 7470A
Analysis Description: Total Aqueous Mercury Analysis - CVAA

Lab Reagent Blank LRB-L713578 Matrix: AQU
Associated Lab Samples: 89342, 89343, 89344, 89345, 89346

Parameter	Units	Blank Result	MQL	Analyzed
Mercury	mg/L	<0.00020	0.00020	10/27/23 12:51

Laboratory Control Sample LCS-L713578

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/L	0.00400	0.00383	96.0	80-120

Matrix Spike & Matrix Spike Duplicate L 92133-MS-L713578 L 92133-MSD-L713578

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/L	<0.00020	0.00400	0.00400	0.00379	0.00378	95.0	95.0	80-120	0.2	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-292-0002

QC Prep: L712709 **QC Analytical Batch(es):** L712712
QC Prep Batch Method: SW-9056A (PREP) **Analysis Method:** 9056A
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank LRB-L712709 Matrix: AQU
Associated Lab Samples: 89335, 89336, 89337, 89338, 89339, 89340, 89341, 89342, 89343, 89344, 89345, 89346

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/L	<0.400	0.400	10/23/23 18:21
Fluoride (w/o distillation)	mg/L	<0.125	0.125	10/23/23 18:21
Sulfate	mg/L	<1.00	1.00	10/23/23 18:21

Laboratory Control Sample & LCSD LCS-L712709 LCSD-L712709

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Chloride	mg/L	50.0	50.6	50.8	101	102	80-120	0.3	20
Fluoride (w/o distillation)	mg/L	6.25	6.21	6.30	99.0	101	80-120	1.4	20
Sulfate	mg/L	62.5	62.9	63.1	101	101	80-120	0.3	20

Matrix Spike & Matrix Spike Duplicate N 89336-MS-L712709 N 89336-MSD-L712709

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/L	2.53	52.6	52.6	28.1	28.4	49.0*	49.0*	80-120	1.0	15
Fluoride (w/o distillation)	mg/L	2.46	6.58	6.58	5.70	5.80	49.0*	51.0*	80-120	1.7	15
Sulfate	mg/L	37.7	65.8	65.8	69.8	70.3	49.0*	50.0*	80-120	0.7	15

Shipment Receipt Form

Customer Number: **00001**
 Customer Name: **CDG Engineers Associates**
 Report Number: **23-292-0002**

Shipping Method

Fed Ex US Postal Lab Other :
 UPS Client Courier Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

For Laboratory Use Only

Billing Information

Client Project Manager/Contact

Client Name/Address

Project Description

Project/Site Location (City/State)

**RUSH - Additional charges apply
Special Detection Limit(s)
Date Results Needed**

Method of Shipment
Fed Ex UPS
Courier Client Drop Off
Other

Matrix Key
WW - Wastewater GW - Groundwater
DW - Drinking Water S - Soil /Solid O - Oil
P - Product M - Misc

Project Number

Project Manager Phone #

Project Manager Email

Purchase Order Number

Site/Facility ID #

R021223004-005



2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Unless noted, all containers
per Table II of 40 CFR Part
136.

alan.barck@edge.com

Rad: um 24/28
1-Liter HNO3
Metals
1-qt HNO3
TDS
None 1-qt

Sample Identification

Date

Time

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(g)rab or (C)omposite	Required Analysis / Preservative
10/17	0950	MW-6	5	GW	G	2 2 1
10/18	0820	MW-7	1			2 2 1
10/19	0815	MW-9	1			2 2 1
10/18	0930	MW-10	1			2 2 1
10/18	1320	MW-11	1			2 2 1
10/17	0740	MW-12A	1			2 2 1
10/17	1555	MW-13A	1			2 2 1
10/18	1520	MW-14B	1			2 2 1
10/17	1345	MW-15	1			2 2 1
10/17	1455	MW-16	1			2 2 1

For Laboratory Use Only

Sampled by (Name - Print)

Client Remarks/Comments

Ice Y/N
Custody Seals Y/N

Lab Comments

Grant Marcum

Relinquished by: (SIGNATURE)

Date Time 10/17/23 1230

Received by: (SIGNATURE) Condele Powley-WPA AL

Date Time 10/19/23 1300

Blank/Cooler Temp

Relinquished by: (SIGNATURE)

Date Time

Received by: (SIGNATURE)

Date Time

23-292-0002
00001
10-19-2023
13:46:10
CDG Engineers Associates



23-292-0001
00001
10-19-2023
13:28:24
CDG Engineers Associates



23-292-0001
00001
10-19-2023
13:28:24
CDG Engineers Associates

Matrix Key
Cool <= 6C
H2SO4 pH<2
None Required
NaOH pH>10
HNO3 pH<2
HCL pH<2
H3PO4 pH<2
Cool <= 6C NA25203

A
B
C
D
E
F
G
H

Cool < 10C NA25203 (Micro Only)

For Laboratory Use Only

Billing Information

Client Project Manager/Contact

Client Name/Address

Method of Shipment
 Fed Ex UPS USPS
 Courier Client Drop Off
 Other

Matrix Key
 WW - Wastewater GW - Groundwater
 DW - Drinking Water S - Soil /Solid O - Oil
 P - Product M - Misc

RUSH - Additional charges apply
 Special Detection Limit(s)
 Date Results Needed

Project Manager Email
 alan.barck@edge.com

Purchase Order Number

Site/Facility ID #

Project Manager Phone #

Project/Site Location (City/State)
 Jackson, AL

Alan Barck

CPG, Inc.
 PowerSouth
 Lowman

Project Description

Project Number
 R021223004-005

Waypoint ANALYTICAL
 2790 Whitten Road
 Memphis, TN 38133
 (901) 213-2400

Method of Shipment
 Fed Ex UPS USPS
 Courier Client Drop Off
 Other

Matrix Key
 WW - Wastewater GW - Groundwater
 DW - Drinking Water S - Soil /Solid O - Oil
 P - Product M - Misc

RUSH - Additional charges apply
 Special Detection Limit(s)
 Date Results Needed

Project Manager Email
 alan.barck@edge.com

Purchase Order Number

Site/Facility ID #

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Project/Site Location (City/State)
 Jackson, AL

Alan Barck

CPG, Inc.
 PowerSouth
 Lowman

Project Description

Project Number
 R021223004-005

Waypoint ANALYTICAL
 2790 Whitten Road
 Memphis, TN 38133
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Method of Shipment
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Matrix Key
 WW - Wastewater GW - Groundwater
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 P - Product M - Misc

RUSH - Additional charges apply
 Special Detection Limit(s)
 Date Results Needed

Project Manager Email
 alan.barck@edge.com

Purchase Order Number

Site/Facility ID #

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative
10/19	0920	MW-18	5	GW	6	1-qt HNO ₃ Metals TDS 1-qt Wate
10/17	1130	MW-19	5	GW	6	1-qt HNO ₃ Metals

Unless noted, all containers per Table II of 40 CFR Part 136.

Sample Identification

CDG Engineers Associates
 23-292-0001
 10-19-2023
 13:46:10

CDG Engineers Associates
 23-292-0001
 10-19-2023
 13:28:24

Comments/Notes

Method of Shipment
 Fed Ex UPS USPS
 Courier Client Drop Off
 Other

Matrix Key
 WW - Wastewater GW - Groundwater
 DW - Drinking Water S - Soil /Solid O - Oil
 P - Product M - Misc

RUSH - Additional charges apply
 Special Detection Limit(s)
 Date Results Needed

Project Manager Email
 alan.barck@edge.com

Purchase Order Number

Site/Facility ID #

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative
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10/17	1130	MW-19	5	GW	6	1-qt HNO ₃ Metals

Unless noted, all containers per Table II of 40 CFR Part 136.

Sample Identification

CDG Engineers Associates
 23-292-0001
 10-19-2023
 13:46:10

CDG Engineers Associates
 23-292-0001
 10-19-2023
 13:28:24

Comments/Notes

Method of Shipment
 Fed Ex UPS USPS
 Courier Client Drop Off
 Other

Matrix Key
 WW - Wastewater GW - Groundwater
 DW - Drinking Water S - Soil /Solid O - Oil
 P - Product M - Misc

RUSH - Additional charges apply
 Special Detection Limit(s)
 Date Results Needed

Project Manager Email
 alan.barck@edge.com

Purchase Order Number

Site/Facility ID #

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative
10/19	0920	MW-18	5	GW	6	1-qt HNO ₃ Metals TDS 1-qt Wate
10/17	1130	MW-19	5	GW	6	1-qt HNO ₃ Metals

Unless noted, all containers per Table II of 40 CFR Part 136.

Sample Identification

CDG Engineers Associates
 23-292-0001
 10-19-2023
 13:46:10

CDG Engineers Associates
 23-292-0001
 10-19-2023
 13:28:24

Comments/Notes

Ice		Custody Seals		Lab Comments	
Y/N	Y/N	Y/N	Y/N	Date	Time
				10/19/23	1300
Blank/Cooler Temp				Received by: (SIGNATURE)	Date
				Received by: (SIGNATURE)	Time
				Received by: (SIGNATURE)	Date
				Received by: (SIGNATURE)	Time

11/22/2023

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL, 36420

Ref: Analytical Testing
Lab Report Number: 23-299-0007
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Dear Mr. Alan Barck:

Waypoint Analytical, LLC (Andalusia) received sample(s) on 10/26/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

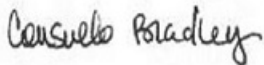
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Consuelo C Bradley

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	SC #84002
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #80215	PA DEP #68-03195

Sample Summary Table

Report Number: 23-299-0007
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
89547	MW-1	Aqueous	10/23/2023 16:30	10/26/2023 15:00	6020A	
89547	MW-1	Aqueous	10/23/2023 16:30	10/26/2023 15:00	7470A	WP MTN
89547	MW-1	Aqueous	10/23/2023 16:30	10/26/2023 15:00	9056A	WP MTN
89547	MW-1	Aqueous	10/23/2023 16:30	10/26/2023 15:00	6020B	WP MTN
89547	MW-1	Aqueous	10/23/2023 16:30	10/26/2023 15:00	2540C-2011	WP MTN
89548	MW-2R	Aqueous	10/25/2023 08:00	10/26/2023 15:00	6020A	
89548	MW-2R	Aqueous	10/25/2023 08:00	10/26/2023 15:00	2540C-2011	WP MTN
89548	MW-2R	Aqueous	10/25/2023 08:00	10/26/2023 15:00	6020B	WP MTN
89548	MW-2R	Aqueous	10/25/2023 08:00	10/26/2023 15:00	9056A	WP MTN
89548	MW-2R	Aqueous	10/25/2023 08:00	10/26/2023 15:00	7470A	WP MTN
89549	MW-4R	Aqueous	10/25/2023 13:10	10/26/2023 15:00	6020A	
89549	MW-4R	Aqueous	10/25/2023 13:10	10/26/2023 15:00	7470A	WP MTN
89549	MW-4R	Aqueous	10/25/2023 13:10	10/26/2023 15:00	9056A	WP MTN
89549	MW-4R	Aqueous	10/25/2023 13:10	10/26/2023 15:00	6020B	WP MTN
89549	MW-4R	Aqueous	10/25/2023 13:10	10/26/2023 15:00	2540C-2011	WP MTN
89550	MW-3	Aqueous	10/23/2023 12:40	10/26/2023 15:00	6020A	
89550	MW-3	Aqueous	10/23/2023 12:40	10/26/2023 15:00	9056A	WP MTN
89550	MW-3	Aqueous	10/23/2023 12:40	10/26/2023 15:00	7470A	WP MTN
89550	MW-3	Aqueous	10/23/2023 12:40	10/26/2023 15:00	6020B	WP MTN
89550	MW-3	Aqueous	10/23/2023 12:40	10/26/2023 15:00	2540C-2011	WP MTN
89551	MW-5A	Aqueous	10/24/2023 16:00	10/26/2023 15:00	6020A	
89551	MW-5A	Aqueous	10/24/2023 16:00	10/26/2023 15:00	9056A	WP MTN
89551	MW-5A	Aqueous	10/24/2023 16:00	10/26/2023 15:00	7470A	WP MTN
89551	MW-5A	Aqueous	10/24/2023 16:00	10/26/2023 15:00	6020B	WP MTN
89551	MW-5A	Aqueous	10/24/2023 16:00	10/26/2023 15:00	2540C-2011	WP MTN

: Test America Laboratory - PA, Pittsburgh, PA
WP MTN - Memphis, TN: Waypoint Analytical - TN, Memphis, TN

Sample Summary Table

Report Number: 23-299-0007
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
89552	MW-8	Aqueous	10/23/2023 14:40	10/26/2023 15:00	6020A	
89552	MW-8	Aqueous	10/23/2023 14:40	10/26/2023 15:00	9056A	WP MTN
89552	MW-8	Aqueous	10/23/2023 14:40	10/26/2023 15:00	7470A	WP MTN
89552	MW-8	Aqueous	10/23/2023 14:40	10/26/2023 15:00	6020B	WP MTN
89552	MW-8	Aqueous	10/23/2023 14:40	10/26/2023 15:00	2540C-2011	WP MTN
89553	MW-14A	Aqueous	10/24/2023 14:40	10/26/2023 15:00	6020A	
89553	MW-14A	Aqueous	10/24/2023 14:40	10/26/2023 15:00	2540C-2011	WP MTN
89553	MW-14A	Aqueous	10/24/2023 14:40	10/26/2023 15:00	9056A	WP MTN
89553	MW-14A	Aqueous	10/24/2023 14:40	10/26/2023 15:00	7470A	WP MTN
89553	MW-14A	Aqueous	10/24/2023 14:40	10/26/2023 15:00	6020B	WP MTN
89554	MW-17	Aqueous	10/26/2023 11:10	10/26/2023 15:00	6020A	
89554	MW-17	Aqueous	10/26/2023 11:10	10/26/2023 15:00	9056A	WP MTN
89554	MW-17	Aqueous	10/26/2023 11:10	10/26/2023 15:00	7470A	WP MTN
89554	MW-17	Aqueous	10/26/2023 11:10	10/26/2023 15:00	6020B	WP MTN
89554	MW-17	Aqueous	10/26/2023 11:10	10/26/2023 15:00	2540C-2011	WP MTN
89555	MW-20	Aqueous	10/24/2023 09:15	10/26/2023 15:00	6020A	
89555	MW-20	Aqueous	10/24/2023 09:15	10/26/2023 15:00	9056A	WP MTN
89555	MW-20	Aqueous	10/24/2023 09:15	10/26/2023 15:00	7470A	WP MTN
89555	MW-20	Aqueous	10/24/2023 09:15	10/26/2023 15:00	6020B	WP MTN
89555	MW-20	Aqueous	10/24/2023 09:15	10/26/2023 15:00	2540C-2011	WP MTN
89556	MW-21	Aqueous	10/24/2023 13:20	10/26/2023 15:00	6020A	
89556	MW-21	Aqueous	10/24/2023 13:20	10/26/2023 15:00	9056A	WP MTN
89556	MW-21	Aqueous	10/24/2023 13:20	10/26/2023 15:00	7470A	WP MTN
89556	MW-21	Aqueous	10/24/2023 13:20	10/26/2023 15:00	6020B	WP MTN
89556	MW-21	Aqueous	10/24/2023 13:20	10/26/2023 15:00	2540C-2011	WP MTN

: Test America Laboratory - PA, Pittsburgh, PA
WP MTN - Memphis, TN: Waypoint Analytical - TN, Memphis, TN

Sample Summary Table

Report Number: 23-299-0007
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
89557	MW-22	Aqueous	10/24/2023 07:30	10/26/2023 15:00	6020A	
89557	MW-22	Aqueous	10/24/2023 07:30	10/26/2023 15:00	9056A	WP MTN
89557	MW-22	Aqueous	10/24/2023 07:30	10/26/2023 15:00	7470A	WP MTN
89557	MW-22	Aqueous	10/24/2023 07:30	10/26/2023 15:00	6020B	WP MTN
89557	MW-22	Aqueous	10/24/2023 07:30	10/26/2023 15:00	2540C-2011	WP MTN
89558	MW-23	Aqueous	10/25/2023 14:55	10/26/2023 15:00	6020A	
89558	MW-23	Aqueous	10/25/2023 14:55	10/26/2023 15:00	9056A	WP MTN
89558	MW-23	Aqueous	10/25/2023 14:55	10/26/2023 15:00	7470A	WP MTN
89558	MW-23	Aqueous	10/25/2023 14:55	10/26/2023 15:00	6020B	WP MTN
89558	MW-23	Aqueous	10/25/2023 14:55	10/26/2023 15:00	2540C-2011	WP MTN
89559	MW-24	Aqueous	10/26/2023 12:15	10/26/2023 15:00	6020A	
89559	MW-24	Aqueous	10/26/2023 12:15	10/26/2023 15:00	6020B	WP MTN
89559	MW-24	Aqueous	10/26/2023 12:15	10/26/2023 15:00	2540C-2011	WP MTN
89559	MW-24	Aqueous	10/26/2023 12:15	10/26/2023 15:00	9056A	WP MTN
89559	MW-24	Aqueous	10/26/2023 12:15	10/26/2023 15:00	7470A	WP MTN
89560	MW-25	Aqueous	10/26/2023 07:45	10/26/2023 15:00	6020A	
89560	MW-25	Aqueous	10/26/2023 07:45	10/26/2023 15:00	9056A	WP MTN
89560	MW-25	Aqueous	10/26/2023 07:45	10/26/2023 15:00	7470A	WP MTN
89560	MW-25	Aqueous	10/26/2023 07:45	10/26/2023 15:00	6020B	WP MTN
89560	MW-25	Aqueous	10/26/2023 07:45	10/26/2023 15:00	2540C-2011	WP MTN
89561	MW-26	Aqueous	10/26/2023 09:05	10/26/2023 15:00	6020A	
89561	MW-26	Aqueous	10/26/2023 09:05	10/26/2023 15:00	9056A	WP MTN
89561	MW-26	Aqueous	10/26/2023 09:05	10/26/2023 15:00	7470A	WP MTN
89561	MW-26	Aqueous	10/26/2023 09:05	10/26/2023 15:00	6020B	WP MTN
89561	MW-26	Aqueous	10/26/2023 09:05	10/26/2023 15:00	2540C-2011	WP MTN

: Test America Laboratory - PA, Pittsburgh, PA
WP MTN - Memphis, TN: Waypoint Analytical - TN, Memphis, TN

Sample Summary Table

Report Number: 23-299-0007
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

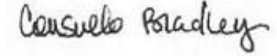
Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
89562	Field Blank	Aqueous	10/26/2023 12:00	10/26/2023 15:00	6020A	
89562	Field Blank	Aqueous	10/26/2023 12:00	10/26/2023 15:00	9056A	WP MTN
89562	Field Blank	Aqueous	10/26/2023 12:00	10/26/2023 15:00	7470A	WP MTN
89562	Field Blank	Aqueous	10/26/2023 12:00	10/26/2023 15:00	6020B	WP MTN
89562	Field Blank	Aqueous	10/26/2023 12:00	10/26/2023 15:00	2540C-2011	WP MTN
89563	Rinsate Blank	Aqueous	10/26/2023 12:10	10/26/2023 15:00	6020A	
89563	Rinsate Blank	Aqueous	10/26/2023 12:10	10/26/2023 15:00	9056A	WP MTN
89563	Rinsate Blank	Aqueous	10/26/2023 12:10	10/26/2023 15:00	7470A	WP MTN
89563	Rinsate Blank	Aqueous	10/26/2023 12:10	10/26/2023 15:00	6020B	WP MTN
89563	Rinsate Blank	Aqueous	10/26/2023 12:10	10/26/2023 15:00	2540C-2011	WP MTN
89609	Duplicate	Aqueous	10/25/2023	10/26/2023 15:00	6020A	
89609	Duplicate	Aqueous	10/25/2023	10/26/2023 15:00	9056A	WP MTN
89609	Duplicate	Aqueous	10/25/2023	10/26/2023 15:00	7470A	WP MTN
89609	Duplicate	Aqueous	10/25/2023	10/26/2023 15:00	6020B	WP MTN
89609	Duplicate	Aqueous	10/25/2023	10/26/2023 15:00	2540C-2011	WP MTN

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
Received : 10/26/2023



Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89547**

Matrix: **Aqueous**

Sample ID : **MW-1**

Sampled: **10/23/2023 16:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	21.9	mg/L	1.00	1	10/31/23 09:16	HMQ	9056A
Chloride	2.13	mg/L	0.400	1	10/31/23 09:16	HMQ	9056A
Fluoride (w/o distillation)	0.162	mg/L	0.125	1	10/31/23 09:16	HMQ	9056A
Total Dissolved Solids	118	mg/L	50.0	1	10/30/23 16:17	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 02:17	CPW	6020B
Arsenic	0.0031	mg/L	0.0010	1	11/02/23 02:17	CPW	6020B
Barium	0.131	mg/L	0.001	1	11/02/23 02:17	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 02:17	CPW	6020B
Boron	0.018	mg/L	0.010	1	11/02/23 02:17	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 02:17	CPW	6020B
Calcium	26.9	mg/L	1.00	5	11/02/23 15:31	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 02:17	CPW	6020B
Cobalt	0.007	mg/L	0.001	1	11/02/23 15:27	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 02:17	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:10	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	11/02/23 02:17	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/02/23 02:17	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 02:17	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

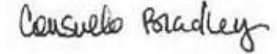
Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
Received : 10/26/2023



Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89548**
Sample ID : **MW-2R**

Matrix: **Aqueous**
Sampled: **10/25/2023 8:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	46.2	mg/L	1.00	1	10/31/23 09:42	HMQ	9056A
Chloride	10.8	mg/L	0.400	1	10/31/23 09:42	HMQ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	10/31/23 09:42	HMQ	9056A
Total Dissolved Solids	150	mg/L	50.0	1	11/01/23 09:04	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 02:21	CPW	6020B
Arsenic	0.0085	mg/L	0.0010	1	11/02/23 02:21	CPW	6020B
Barium	0.075	mg/L	0.001	1	11/02/23 02:21	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 02:21	CPW	6020B
Boron	0.015	mg/L	0.010	1	11/02/23 02:21	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 02:21	CPW	6020B
Calcium	17.2	mg/L	0.200	1	11/02/23 02:21	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 02:21	CPW	6020B
Cobalt	0.019	mg/L	0.001	1	11/02/23 15:35	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 02:21	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:11	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	11/02/23 02:21	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/02/23 02:21	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 02:21	CPW	6020B

**Qualifiers/
Definitions**

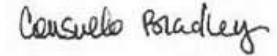
DF Dilution Factor MQL Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
Received : 10/26/2023



Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89549**
Sample ID : **MW-4R**

Matrix: **Aqueous**
Sampled: **10/25/2023 13:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	250	mg/L	10.0	10	10/31/23 10:21	HMQ	9056A
Chloride	100	mg/L	4.00	10	10/31/23 10:21	HMQ	9056A
Fluoride (w/o distillation)	0.136	mg/L	0.125	1	10/31/23 10:08	HMQ	9056A
Total Dissolved Solids	610	mg/L	83.3	1	11/01/23 09:04	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 02:34	CPW	6020B
Arsenic	0.0040	mg/L	0.0010	1	11/02/23 02:34	CPW	6020B
Barium	0.130	mg/L	0.001	1	11/02/23 02:34	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 02:34	CPW	6020B
Boron	2.14	mg/L	0.050	5	11/02/23 15:43	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 02:34	CPW	6020B
Calcium	98.6	mg/L	1.00	5	11/02/23 15:43	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 02:34	CPW	6020B
Cobalt	0.016	mg/L	0.001	1	11/02/23 15:39	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 02:34	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:12	FDS	7470A
Molybdenum	0.002	mg/L	0.001	1	11/02/23 02:34	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/02/23 02:34	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 02:34	CPW	6020B

**Qualifiers/
Definitions**

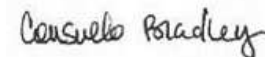
DF Dilution Factor MQL Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
Received : 10/26/2023



Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89550**

Matrix: **Aqueous**

Sample ID : **MW-3**

Sampled: **10/23/2023 12:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	19.4	mg/L	1.00	1	10/31/23 10:34	HMQ	9056A
Chloride	1.52	mg/L	0.400	1	10/31/23 10:34	HMQ	9056A
Fluoride (w/o distillation)	0.157	mg/L	0.125	1	10/31/23 10:34	HMQ	9056A
Total Dissolved Solids	<25.0	mg/L	25.0	1	10/30/23 16:17	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 02:38	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	11/02/23 02:38	CPW	6020B
Barium	0.089	mg/L	0.001	1	11/02/23 02:38	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 02:38	CPW	6020B
Boron	0.036	mg/L	0.010	1	11/02/23 02:38	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 02:38	CPW	6020B
Calcium	3.92	mg/L	0.200	1	11/02/23 16:00	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 02:38	CPW	6020B
Cobalt	0.022	mg/L	0.001	1	11/02/23 16:00	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 02:38	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:14	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	11/02/23 02:38	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/02/23 02:38	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 02:38	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

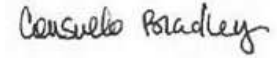
Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
Received : 10/26/2023



Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89551**
Sample ID : **MW-5A**

Matrix: **Aqueous**
Sampled: **10/24/2023 16:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	206	mg/L	10.0	10	10/31/23 11:13	HMQ	9056A
Chloride	85.5	mg/L	0.400	1	10/31/23 11:00	HMQ	9056A
Fluoride (w/o distillation)	1.30	mg/L	0.125	1	10/31/23 11:00	HMQ	9056A
Total Dissolved Solids	582	mg/L	50.0	1	10/30/23 16:17	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 02:42	CPW	6020B
Arsenic	0.0023	mg/L	0.0010	1	11/02/23 02:42	CPW	6020B
Barium	0.090	mg/L	0.001	1	11/02/23 02:42	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 02:42	CPW	6020B
Boron	2.12	mg/L	0.050	5	11/02/23 16:08	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 02:42	CPW	6020B
Calcium	131	mg/L	4.00	20	11/02/23 16:12	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 02:42	CPW	6020B
Cobalt	0.021	mg/L	0.001	1	11/02/23 16:04	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 02:42	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:15	FDS	7470A
Molybdenum	0.064	mg/L	0.001	1	11/02/23 02:42	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/02/23 02:42	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 02:42	CPW	6020B

**Qualifiers/
Definitions**

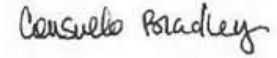
DF Dilution Factor MQL Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
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Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89552**

Matrix: **Aqueous**

Sample ID : **MW-8**

Sampled: **10/23/2023 14:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	<1.00	mg/L	1.00	1	10/31/23 11:51	HMQ	9056A
Chloride	23.8	mg/L	0.400	1	10/31/23 11:51	HMQ	9056A
Fluoride (w/o distillation)	0.206	mg/L	0.125	1	10/31/23 11:51	HMQ	9056A
Total Dissolved Solids	234	mg/L	50.0	1	10/30/23 16:17	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 02:46	CPW	6020B
Arsenic	0.0360	mg/L	0.0010	1	11/02/23 02:46	CPW	6020B
Barium	0.098	mg/L	0.001	1	11/02/23 02:46	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 02:46	CPW	6020B
Boron	0.123	mg/L	0.010	1	11/02/23 02:46	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 02:46	CPW	6020B
Calcium	69.1	mg/L	2.00	10	11/02/23 16:20	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 02:46	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	11/02/23 16:16	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 02:46	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:17	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	11/02/23 02:46	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/02/23 02:46	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 02:46	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

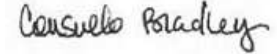
Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
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Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89553**
Sample ID : **MW-14A**

Matrix: **Aqueous**
Sampled: **10/24/2023 14:40**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	127	mg/L	10.0	10	10/31/23 12:30	HMQ	9056A
Chloride	63.9	mg/L	0.400	1	10/31/23 12:17	HMQ	9056A
Fluoride (w/o distillation)	0.137	mg/L	0.125	1	10/31/23 12:17	HMQ	9056A
Total Dissolved Solids	350	mg/L	50.0	1	10/30/23 16:17	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 02:50	CPW	6020B
Arsenic	0.0066	mg/L	0.0010	1	11/02/23 02:50	CPW	6020B
Barium	0.076	mg/L	0.001	1	11/02/23 02:50	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 02:50	CPW	6020B
Boron	0.953	mg/L	0.010	1	11/02/23 16:24	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 02:50	CPW	6020B
Calcium	81.1	mg/L	2.00	10	11/02/23 16:28	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 02:50	CPW	6020B
Cobalt	0.047	mg/L	0.001	1	11/02/23 16:24	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 02:50	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:21	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	11/02/23 02:50	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/02/23 02:50	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 02:50	CPW	6020B

**Qualifiers/
Definitions**

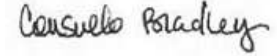
DF Dilution Factor MQL Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
Received : 10/26/2023



Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89554**
Sample ID : **MW-17**

Matrix: **Aqueous**
Sampled: **10/26/2023 11:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	123	mg/L	1.00	1	10/31/23 12:43	HMQ	9056A
Chloride	98.0	mg/L	4.00	10	10/31/23 12:56	HMQ	9056A
Fluoride (w/o distillation)	0.940	mg/L	0.125	1	10/31/23 12:43	HMQ	9056A
Total Dissolved Solids	526	mg/L	50.0	1	11/01/23 09:04	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 02:54	CPW	6020B
Arsenic	0.0177	mg/L	0.0010	1	11/02/23 02:54	CPW	6020B
Barium	0.075	mg/L	0.001	1	11/02/23 02:54	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 02:54	CPW	6020B
Boron	2.28	mg/L	0.050	5	11/02/23 16:36	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 02:54	CPW	6020B
Calcium	108	mg/L	4.00	20	11/02/23 16:49	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 02:54	CPW	6020B
Cobalt	0.025	mg/L	0.001	1	11/02/23 16:32	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 02:54	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:23	FDS	7470A
Molybdenum	0.044	mg/L	0.001	1	11/02/23 02:54	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/02/23 02:54	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 02:54	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

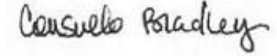
Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
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Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89555**
Sample ID : **MW-20**

Matrix: **Aqueous**
Sampled: **10/24/2023 9:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	<1.00	mg/L	1.00	1	10/31/23 13:09	HMQ	9056A
Chloride	4.92	mg/L	0.400	1	10/31/23 13:09	HMQ	9056A
Fluoride (w/o distillation)	0.163	mg/L	0.125	1	10/31/23 13:09	HMQ	9056A
Total Dissolved Solids	128	mg/L	50.0	1	10/30/23 16:17	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 02:58	CPW	6020B
Arsenic	0.0242	mg/L	0.0010	1	11/02/23 02:58	CPW	6020B
Barium	0.102	mg/L	0.001	1	11/02/23 02:58	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 02:58	CPW	6020B
Boron	0.087	mg/L	0.010	1	11/02/23 02:58	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 02:58	CPW	6020B
Calcium	42.8	mg/L	1.00	5	11/02/23 16:57	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 02:58	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	11/02/23 16:53	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 02:58	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:24	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	11/02/23 02:58	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/02/23 02:58	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 02:58	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

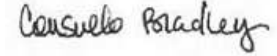
Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
Received : 10/26/2023



Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89556**
Sample ID : **MW-21**

Matrix: **Aqueous**
Sampled: **10/24/2023 13:20**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	19.4	mg/L	1.00	1	10/31/23 13:35	HMQ	9056A
Chloride	19.8	mg/L	0.400	1	10/31/23 13:35	HMQ	9056A
Fluoride (w/o distillation)	0.129	mg/L	0.125	1	10/31/23 13:35	HMQ	9056A
Total Dissolved Solids	252	mg/L	50.0	1	10/30/23 16:17	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 03:02	CPW	6020B
Arsenic	0.0041	mg/L	0.0010	1	11/02/23 03:02	CPW	6020B
Barium	0.095	mg/L	0.001	1	11/02/23 03:02	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 03:02	CPW	6020B
Boron	0.291	mg/L	0.010	1	11/02/23 03:02	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 03:02	CPW	6020B
Calcium	74.8	mg/L	2.00	10	11/02/23 17:05	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 03:02	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	11/02/23 17:01	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 03:02	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:25	FDS	7470A
Molybdenum	0.001	mg/L	0.001	1	11/02/23 03:02	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/02/23 03:02	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 03:02	CPW	6020B

**Qualifiers/
Definitions**

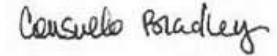
DF Dilution Factor MQL Method Quantitation Limit

00001

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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
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Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89557**
Sample ID : **MW-22**

Matrix: **Aqueous**
Sampled: **10/24/2023 7:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	<1.00	mg/L	1.00	1	10/31/23 15:43	HMQ	9056A
Chloride	9.93	mg/L	0.400	1	10/31/23 15:43	HMQ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	10/31/23 15:43	HMQ	9056A
Total Dissolved Solids	338	mg/L	50.0	1	10/30/23 16:17	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 03:06	CPW	6020B
Arsenic	0.0036	mg/L	0.0010	1	11/02/23 03:06	CPW	6020B
Barium	0.137	mg/L	0.001	1	11/02/23 03:06	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 03:06	CPW	6020B
Boron	0.102	mg/L	0.010	1	11/02/23 03:06	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 03:06	CPW	6020B
Calcium	113	mg/L	4.00	20	11/02/23 17:13	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 03:06	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	11/02/23 17:09	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 03:06	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:27	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	11/02/23 03:06	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/02/23 03:06	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 03:06	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

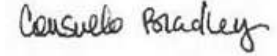
Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
Received : 10/26/2023



Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89558**
Sample ID : **MW-23**

Matrix: **Aqueous**
Sampled: **10/25/2023 14:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	768	mg/L	10.0	10	10/31/23 16:22	HMQ	9056A
Chloride	211	mg/L	4.00	10	10/31/23 16:22	HMQ	9056A
Fluoride (w/o distillation)	0.367	mg/L	0.125	1	10/31/23 16:09	HMQ	9056A
Total Dissolved Solids	1620	mg/L	83.3	1	11/01/23 09:04	A.B	2540C-2011
Antimony	<0.0100	mg/L	0.0100	10	11/02/23 03:10	CPW	6020B
Arsenic	0.130	mg/L	0.0100	10	11/02/23 03:10	CPW	6020B
Barium	0.034	mg/L	0.010	10	11/02/23 03:10	CPW	6020B
Beryllium	<0.0100	mg/L	0.0100	10	11/02/23 03:10	CPW	6020B
Boron	7.12	mg/L	0.100	10	11/02/23 03:10	CPW	6020B
Cadmium	<0.0100	mg/L	0.0100	10	11/02/23 03:10	CPW	6020B
Calcium	344	mg/L	10.0	50	11/02/23 17:17	CPW	6020B
Chromium	<0.010	mg/L	0.010	10	11/02/23 03:10	CPW	6020B
Cobalt	<0.010	mg/L	0.010	10	11/02/23 17:21	CPW	6020B
Lead	<0.0100	mg/L	0.0100	10	11/02/23 03:10	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:28	FDS	7470A
Molybdenum	0.147	mg/L	0.010	10	11/02/23 03:10	CPW	6020B
Selenium	<0.010	mg/L	0.010	10	11/02/23 03:10	CPW	6020B
Thallium	<0.0100	mg/L	0.0100	10	11/02/23 03:10	CPW	6020B

**Qualifiers/
Definitions**

DF Dilution Factor

MQL Method Quantitation Limit



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Project CDG
 Information : PowerSouth Lowman
 Project# R021223004

Report Date : 11/22/2023
 Received : 10/26/2023

Consuelo Bradley

Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89559**

Matrix: **Aqueous**

Sample ID : **MW-24**

Sampled: **10/26/2023 12:15**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	372	mg/L	10.0	10	10/31/23 17:43	HMQ	9056A
Chloride	95.2	mg/L	4.00	10	10/31/23 17:43	HMQ	9056A
Fluoride (w/o distillation)	1.55	mg/L	0.125	1	10/31/23 17:30	HMQ	9056A
Total Dissolved Solids	853	mg/L	83.3	1	11/01/23 09:04	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 03:23	CPW	6020B
Arsenic	0.0020	mg/L	0.0010	1	11/02/23 03:23	CPW	6020B
Barium	0.128	mg/L	0.001	1	11/02/23 03:23	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 03:23	CPW	6020B
Boron	3.11	mg/L	0.200	20	11/02/23 17:38	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 03:23	CPW	6020B
Calcium	170	mg/L	4.00	20	11/02/23 17:38	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 03:23	CPW	6020B
Cobalt	0.001	mg/L	0.001	1	11/02/23 17:25	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 03:23	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:30	FDS	7470A
Molybdenum	0.014	mg/L	0.001	1	11/02/23 03:23	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/02/23 03:23	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 03:23	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

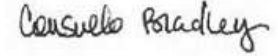
Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
Received : 10/26/2023



Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89560**
Sample ID : **MW-25**

Matrix: **Aqueous**
Sampled: **10/26/2023 7:45**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	1220	mg/L	100	100	11/01/23 11:58	HMQ	9056A
Chloride	246	mg/L	4.00	10	10/31/23 18:09	HMQ	9056A
Fluoride (w/o distillation)	0.365	mg/L	0.125	1	10/31/23 17:56	HMQ	9056A
Total Dissolved Solids	2750	mg/L	250	1	11/01/23 09:04	A.B	2540C-2011
Antimony	<0.0100	mg/L	0.0100	10	11/02/23 03:27	CPW	6020B
Arsenic	<0.0100	mg/L	0.0100	10	11/02/23 03:27	CPW	6020B
Barium	0.049	mg/L	0.010	10	11/02/23 03:27	CPW	6020B
Beryllium	<0.0100	mg/L	0.0100	10	11/02/23 03:27	CPW	6020B
Boron	13.5	mg/L	0.500	50	11/02/23 17:46	CPW	6020B
Cadmium	<0.0100	mg/L	0.0100	10	11/02/23 03:27	CPW	6020B
Calcium	514	mg/L	10.0	50	11/02/23 17:46	CPW	6020B
Chromium	<0.010	mg/L	0.010	10	11/02/23 03:27	CPW	6020B
Cobalt	0.011	mg/L	0.010	10	11/02/23 17:42	CPW	6020B
Lead	<0.0100	mg/L	0.0100	10	11/02/23 03:27	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:31	FDS	7470A
Molybdenum	0.081	mg/L	0.010	10	11/02/23 03:27	CPW	6020B
Selenium	<0.010	mg/L	0.010	10	11/02/23 03:27	CPW	6020B
Thallium	<0.0100	mg/L	0.0100	10	11/02/23 03:27	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

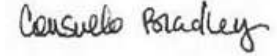
Method Quantitation Limit

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CDG Engineers Associates
Mr. Alan Barck
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Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
Received : 10/26/2023



Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89561**
Sample ID : **MW-26**

Matrix: **Aqueous**
Sampled: **10/26/2023 9:05**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	92.8	mg/L	1.00	1	10/31/23 18:22	HMQ	9056A
Chloride	21.6	mg/L	0.400	1	10/31/23 18:22	HMQ	9056A
Fluoride (w/o distillation)	0.161	mg/L	0.125	1	10/31/23 18:22	HMQ	9056A
Total Dissolved Solids	304	mg/L	50.0	1	11/01/23 09:04	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 03:31	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	11/02/23 03:31	CPW	6020B
Barium	0.115	mg/L	0.001	1	11/02/23 03:31	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 03:31	CPW	6020B
Boron	0.443	mg/L	0.010	1	11/02/23 17:50	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 03:31	CPW	6020B
Calcium	68.4	mg/L	2.00	10	11/02/23 17:54	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 03:31	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	11/02/23 17:50	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 03:31	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:33	FDS	7470A
Molybdenum	0.004	mg/L	0.001	1	11/02/23 03:31	CPW	6020B
Selenium	0.004	mg/L	0.001	1	11/02/23 03:31	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 03:31	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



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Report Date : 11/22/2023
 Received : 10/26/2023

Consuelo Bradley

Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89562**
 Sample ID : **Field Blank**

Matrix: **Aqueous**
 Sampled: **10/26/2023 12:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	<1.00	mg/L	1.00	1	10/31/23 19:14	HMQ	9056A
Chloride	<0.400	mg/L	0.400	1	10/31/23 19:14	HMQ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	10/31/23 19:14	HMQ	9056A
Total Dissolved Solids	<12.5	mg/L	12.5	1	11/01/23 09:04	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/02/23 03:35	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	11/02/23 03:35	CPW	6020B
Barium	<0.001	mg/L	0.001	1	11/02/23 03:35	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/02/23 03:35	CPW	6020B
Boron	<0.010	mg/L	0.010	1	11/02/23 18:27	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/02/23 03:35	CPW	6020B
Calcium	<0.200	mg/L	0.200	1	11/02/23 03:35	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/02/23 03:35	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	11/02/23 18:27	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/02/23 03:35	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:34	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	11/02/23 03:35	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/02/23 03:35	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/02/23 03:35	CPW	6020B

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit



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Project CDG
 Information : PowerSouth Lowman
 Project# R021223004

Report Date : 11/22/2023
 Received : 10/26/2023

Consuelo Bradley

Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89563**
 Sample ID : **Rinsate Blank**

Matrix: **Aqueous**
 Sampled: **10/26/2023 12:10**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	<1.00	mg/L	1.00	1	10/31/23 19:40	HMQ	9056A
Chloride	<0.400	mg/L	0.400	1	10/31/23 19:40	HMQ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	10/31/23 19:40	HMQ	9056A
Total Dissolved Solids	<12.5	mg/L	12.5	1	11/01/23 09:04	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/03/23 23:23	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	11/03/23 23:23	CPW	6020B
Barium	<0.001	mg/L	0.001	1	11/03/23 23:23	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/03/23 23:23	CPW	6020B
Boron	<0.010	mg/L	0.010	1	11/03/23 23:23	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/03/23 23:23	CPW	6020B
Calcium	<0.200	mg/L	0.200	1	11/03/23 23:23	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/03/23 23:23	CPW	6020B
Cobalt	<0.001	mg/L	0.001	1	11/03/23 23:23	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/03/23 23:23	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:38	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	11/03/23 23:23	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/03/23 23:23	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/03/23 23:23	CPW	6020B

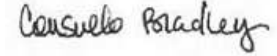
Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 11/22/2023
Received : 10/26/2023



Report Number : **23-299-0007**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89609**

Matrix: **Aqueous**

Sample ID : **Duplicate**

Sampled: **10/25/2023 0:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	79.1	mg/L	1.00	1	10/31/23 20:44	HMQ	9056A
Chloride	21.5	mg/L	0.400	1	10/31/23 20:44	HMQ	9056A
Fluoride (w/o distillation)	2.52	mg/L	0.125	1	10/31/23 20:31	HMQ	9056A
Total Dissolved Solids	1400	mg/L	83.3	1	10/30/23 16:17	A.B	2540C-2011
Antimony	<0.0100	mg/L	0.0100	10	11/04/23 03:57	CPW	6020B
Arsenic	0.135	mg/L	0.0100	10	11/04/23 03:57	CPW	6020B
Barium	0.036	mg/L	0.010	10	11/04/23 03:57	CPW	6020B
Beryllium	<0.0100	mg/L	0.0100	10	11/04/23 03:57	CPW	6020B
Boron	6.34	mg/L	0.100	10	11/04/23 03:57	CPW	6020B
Cadmium	<0.0100	mg/L	0.0100	10	11/04/23 03:57	CPW	6020B
Calcium	333	mg/L	10.0	50	11/06/23 17:22	CPW	6020B
Chromium	<0.010	mg/L	0.010	10	11/04/23 03:57	CPW	6020B
Cobalt	<0.010	mg/L	0.010	10	11/04/23 03:57	CPW	6020B
Lead	<0.0100	mg/L	0.0100	10	11/04/23 03:57	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:41	FDS	7470A
Molybdenum	0.148	mg/L	0.010	10	11/04/23 03:57	CPW	6020B
Selenium	<0.010	mg/L	0.010	10	11/04/23 03:57	CPW	6020B
Thallium	<0.0100	mg/L	0.0100	10	11/04/23 03:57	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit



ANALYTICAL REPORT

PREPARED FOR

Attn: Consuelo Bradley
Waypoint Analytical, Inc.
107A Northside Office Park Drive
Andalusia, Alabama 36421

Generated 11/22/2023 9:08:28 AM

JOB DESCRIPTION

23-299-0007

JOB NUMBER

180-164746-1

Eurofins Pittsburgh

Job Notes

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PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



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11/22/2023 9:08:28 AM

Authorized for release by
Andy Johnson, Senior Project Manager
Andy.Johnson@et.eurofinsus.com
(615)818-9567



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Case Narrative

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Job ID: 180-164746-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-164746-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/2/2023 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.6°C and 1.7°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Definitions/Glossary

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-23 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23 *
Georgia	State	10026 (NY)	03-31-24
Georgia	State Program	N/A	03-31-09 *
Illinois	NELAP	200003	09-30-23 *
Iowa	State	374	03-01-25
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	02-01-24
Kentucky (DW)	State	90029	01-01-24
Kentucky (UST)	State	108092	04-01-24
Kentucky (WW)	State	KY90029	12-31-23
Louisiana	NELAP	02031	06-30-23 *
Louisiana (All)	NELAP	02031	06-30-23 *
Maine	State	NY00044	12-04-24
Maryland	State	294	06-30-24
Massachusetts	State	M-NY044	07-01-24
Michigan	State	9937	04-01-24
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-23 *
New Jersey	NELAP	NY455	06-30-24
New York	NELAP	10026	03-31-24
Pennsylvania	NELAP	68-00281	08-31-24
Rhode Island	State	LAO00328	12-30-23
Texas	NELAP	T104704412-18-10	07-31-23 *
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	11-02-23 *
Washington	State	C784	02-10-24
Wisconsin	State	998310390	08-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-164746-1	MW-1	Water	10/23/23 16:30	11/02/23 09:50
180-164746-2	MW-2R	Water	10/25/23 08:00	11/02/23 09:50
180-164746-3	MW-4R	Water	10/25/23 13:10	11/02/23 09:50
180-164746-4	MW-3	Water	10/23/23 12:40	11/02/23 09:50
180-164746-5	MW-5A	Water	10/24/23 16:00	11/02/23 09:50
180-164746-6	MW-8	Water	10/23/23 14:40	11/02/23 09:50
180-164746-7	MW-14A	Water	10/24/23 14:40	11/02/23 09:50
180-164746-8	MW-17	Water	10/26/23 11:10	11/02/23 09:50
180-164746-9	MW-20	Water	10/24/23 09:15	11/02/23 09:50
180-164746-10	MW-21	Water	10/24/23 13:20	11/02/23 09:50
180-164746-11	MW-22	Water	10/24/23 07:30	11/02/23 09:50
180-164746-12	MW-23	Water	10/25/23 14:55	11/02/23 09:50
180-164746-13	MW-24	Water	10/26/23 12:15	11/02/23 09:50
180-164746-14	MW-25	Water	10/26/23 07:45	11/02/23 09:50
180-164746-15	MW-26	Water	10/26/23 09:05	11/02/23 09:50
180-164746-16	FIELD BLANK	Water	10/26/23 12:00	11/02/23 09:50
180-164746-17	RINSATE BLANK	Water	10/26/23 12:10	11/02/23 09:50
180-164746-18	DUPLICATE	Water	10/25/23 00:00	11/02/23 09:50



Method Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET BUF
3020A	Preparation, Total Metals	SW846	EET BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Client Sample ID: MW-1

Lab Sample ID: 180-164746-1

Date Collected: 10/23/23 16:30

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 17:33	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-2R

Lab Sample ID: 180-164746-2

Date Collected: 10/25/23 08:00

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 17:35	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-4R

Lab Sample ID: 180-164746-3

Date Collected: 10/25/23 13:10

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 17:37	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-3

Lab Sample ID: 180-164746-4

Date Collected: 10/23/23 12:40

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 17:40	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-5A

Lab Sample ID: 180-164746-5

Date Collected: 10/24/23 16:00

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 17:42	BMB	EET BUF

Instrument ID: Agilent7800

Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Client Sample ID: MW-8

Lab Sample ID: 180-164746-6

Date Collected: 10/23/23 14:40

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 17:44	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-14A

Lab Sample ID: 180-164746-7

Date Collected: 10/24/23 14:40

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 17:47	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-17

Lab Sample ID: 180-164746-8

Date Collected: 10/26/23 11:10

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 17:56	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-20

Lab Sample ID: 180-164746-9

Date Collected: 10/24/23 09:15

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 17:58	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-21

Lab Sample ID: 180-164746-10

Date Collected: 10/24/23 13:20

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 18:01	BMB	EET BUF

Instrument ID: Agilent7800

Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Client Sample ID: MW-22

Lab Sample ID: 180-164746-11

Date Collected: 10/24/23 07:30

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 18:03	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-23

Lab Sample ID: 180-164746-12

Date Collected: 10/25/23 14:55

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 18:05	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-24

Lab Sample ID: 180-164746-13

Date Collected: 10/26/23 12:15

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 18:08	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-25

Lab Sample ID: 180-164746-14

Date Collected: 10/26/23 07:45

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 18:10	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: MW-26

Lab Sample ID: 180-164746-15

Date Collected: 10/26/23 09:05

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 18:12	BMB	EET BUF

Instrument ID: Agilent7800

Eurofins Pittsburgh

Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 180-164746-16

Date Collected: 10/26/23 12:00

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 18:14	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: RINSATE BLANK

Lab Sample ID: 180-164746-17

Date Collected: 10/26/23 12:10

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 18:17	BMB	EET BUF

Instrument ID: Agilent7800

Client Sample ID: DUPLICATE

Lab Sample ID: 180-164746-18

Date Collected: 10/25/23 00:00

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 18:26	BMB	EET BUF

Instrument ID: Agilent7800

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Analyst References:

Lab: EET BUF

Batch Type: Prep

MP = Manisha Patel

Batch Type: Analysis

BMB = Bryan Booth

Client Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Client Sample ID: MW-1

Lab Sample ID: 180-164746-1

Date Collected: 10/23/23 16:30

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		11/17/23 08:06	11/21/23 17:33	1

Client Sample ID: MW-2R

Lab Sample ID: 180-164746-2

Date Collected: 10/25/23 08:00

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		11/17/23 08:06	11/21/23 17:35	1

Client Sample ID: MW-4R

Lab Sample ID: 180-164746-3

Date Collected: 10/25/23 13:10

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		11/17/23 08:06	11/21/23 17:37	1

Client Sample ID: MW-3

Lab Sample ID: 180-164746-4

Date Collected: 10/23/23 12:40

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		11/17/23 08:06	11/21/23 17:40	1

Client Sample ID: MW-5A

Lab Sample ID: 180-164746-5

Date Collected: 10/24/23 16:00

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0506		0.00400		mg/L		11/17/23 08:06	11/21/23 17:42	1

Client Sample ID: MW-8

Lab Sample ID: 180-164746-6

Date Collected: 10/23/23 14:40

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		11/17/23 08:06	11/21/23 17:44	1

Client Sample ID: MW-14A

Lab Sample ID: 180-164746-7

Date Collected: 10/24/23 14:40

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00709		0.00400		mg/L		11/17/23 08:06	11/21/23 17:47	1

Eurofins Pittsburgh

Client Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Client Sample ID: MW-17

Lab Sample ID: 180-164746-8

Date Collected: 10/26/23 11:10

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0652		0.00400		mg/L		11/17/23 08:06	11/21/23 17:56	1

Client Sample ID: MW-20

Lab Sample ID: 180-164746-9

Date Collected: 10/24/23 09:15

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		11/17/23 08:06	11/21/23 17:58	1

Client Sample ID: MW-21

Lab Sample ID: 180-164746-10

Date Collected: 10/24/23 13:20

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		11/17/23 08:06	11/21/23 18:01	1

Client Sample ID: MW-22

Lab Sample ID: 180-164746-11

Date Collected: 10/24/23 07:30

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		11/17/23 08:06	11/21/23 18:03	1

Client Sample ID: MW-23

Lab Sample ID: 180-164746-12

Date Collected: 10/25/23 14:55

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.128		0.00400		mg/L		11/17/23 08:06	11/21/23 18:05	1

Client Sample ID: MW-24

Lab Sample ID: 180-164746-13

Date Collected: 10/26/23 12:15

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.0709		0.00400		mg/L		11/17/23 08:06	11/21/23 18:08	1

Client Sample ID: MW-25

Lab Sample ID: 180-164746-14

Date Collected: 10/26/23 07:45

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.139		0.00400		mg/L		11/17/23 08:06	11/21/23 18:10	1

Eurofins Pittsburgh

Client Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Client Sample ID: MW-26

Lab Sample ID: 180-164746-15

Date Collected: 10/26/23 09:05

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		11/17/23 08:06	11/21/23 18:12	1

Client Sample ID: FIELD BLANK

Lab Sample ID: 180-164746-16

Date Collected: 10/26/23 12:00

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		11/17/23 08:06	11/21/23 18:14	1

Client Sample ID: RINSATE BLANK

Lab Sample ID: 180-164746-17

Date Collected: 10/26/23 12:10

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		11/17/23 08:06	11/21/23 18:17	1

Client Sample ID: DUPLICATE

Lab Sample ID: 180-164746-18

Date Collected: 10/25/23 00:00

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.130		0.00400		mg/L		11/17/23 08:06	11/21/23 18:26	1

QC Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 480-691418/1-A
Matrix: Water
Analysis Batch: 693060

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 691418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		11/17/23 08:06	11/21/23 17:09	1

Lab Sample ID: LCS 480-691418/2-A
Matrix: Water
Analysis Batch: 693060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 691418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.0200	0.01968		mg/L		98	80 - 120



QC Association Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0007

Job ID: 180-164746-1

Metals

Prep Batch: 691418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164746-1	MW-1	Total/NA	Water	3020A	
180-164746-2	MW-2R	Total/NA	Water	3020A	
180-164746-3	MW-4R	Total/NA	Water	3020A	
180-164746-4	MW-3	Total/NA	Water	3020A	
180-164746-5	MW-5A	Total/NA	Water	3020A	
180-164746-6	MW-8	Total/NA	Water	3020A	
180-164746-7	MW-14A	Total/NA	Water	3020A	
180-164746-8	MW-17	Total/NA	Water	3020A	
180-164746-9	MW-20	Total/NA	Water	3020A	
180-164746-10	MW-21	Total/NA	Water	3020A	
180-164746-11	MW-22	Total/NA	Water	3020A	
180-164746-12	MW-23	Total/NA	Water	3020A	
180-164746-13	MW-24	Total/NA	Water	3020A	
180-164746-14	MW-25	Total/NA	Water	3020A	
180-164746-15	MW-26	Total/NA	Water	3020A	
180-164746-16	FIELD BLANK	Total/NA	Water	3020A	
180-164746-17	RINSATE BLANK	Total/NA	Water	3020A	
180-164746-18	DUPLICATE	Total/NA	Water	3020A	
MB 480-691418/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-691418/2-A	Lab Control Sample	Total/NA	Water	3020A	

Analysis Batch: 693060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164746-1	MW-1	Total/NA	Water	6020B	691418
180-164746-2	MW-2R	Total/NA	Water	6020B	691418
180-164746-3	MW-4R	Total/NA	Water	6020B	691418
180-164746-4	MW-3	Total/NA	Water	6020B	691418
180-164746-5	MW-5A	Total/NA	Water	6020B	691418
180-164746-6	MW-8	Total/NA	Water	6020B	691418
180-164746-7	MW-14A	Total/NA	Water	6020B	691418
180-164746-8	MW-17	Total/NA	Water	6020B	691418
180-164746-9	MW-20	Total/NA	Water	6020B	691418
180-164746-10	MW-21	Total/NA	Water	6020B	691418
180-164746-11	MW-22	Total/NA	Water	6020B	691418
180-164746-12	MW-23	Total/NA	Water	6020B	691418
180-164746-13	MW-24	Total/NA	Water	6020B	691418
180-164746-14	MW-25	Total/NA	Water	6020B	691418
180-164746-15	MW-26	Total/NA	Water	6020B	691418
180-164746-16	FIELD BLANK	Total/NA	Water	6020B	691418
180-164746-17	RINSATE BLANK	Total/NA	Water	6020B	691418
180-164746-18	DUPLICATE	Total/NA	Water	6020B	691418
MB 480-691418/1-A	Method Blank	Total/NA	Water	6020B	691418
LCS 480-691418/2-A	Lab Control Sample	Total/NA	Water	6020B	691418



107A Northside Office Park Drive, Andalusia, AL 36421
 Main 334.343.9799
 www.waypointanalytical.com

11/01/2023 13:03:32

Export Batch Report

Export Batch Id : 698EXP

Created: 11/1/2023 13:03:18

Computer: WPALMS-160

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Test America Laboratory - PA
 301 Alpha Drive / RIDC Park
 Pittsburgh, PA 152382907
 412-963-7058

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No Method No	Fee Code Description
23-299-0007	11/09/2023	10/23/2023 16:30	MW-1	AQU 89547 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/25/2023 08:00	MW-2R	AQU 89548 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/25/2023 13:10	MW-4R	AQU 89549 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/23/2023 12:40	MW-3	AQU 89550 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/24/2023 16:00	MW-5A	AQU 89551 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/23/2023 14:40	MW-8	AQU 89552 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/24/2023 14:40	MW-14A	AQU 89553 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/26/2023 11:10	MW-17	AQU 89554 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/24/2023 09:15	MW-20	AQU 89555 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)



Sampled By	Method of Shipment	Blank / Cooler Temp.
Remarks		
Relinquished By (sign)	Date / Time	Date / Time
Consuelo Bradley	11/01/2023 2:50	11/2/23 09:50
Relinquished By (sign)	Date / Time	Date / Time





107A Northside Office Park Drive, Andalusia, AL 36421
 Main 334.343.9799
 www.waypointanalytical.com

11/01/2023 13:03:32

Export Batch Report

Export Batch Id : 698EXP

Page 2 of 2

Created: 11/1/2023 13:03:18

Computer: WPALMS-160

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Test America Laboratory - PA
 301 Alpha Drive / RIDC Park
 Pittsburgh, PA 152382907
 412-963-7058

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No Method No	Fee Code Description
23-299-0007	11/09/2023	10/24/2023 13:20	MW-21	AQU 89556 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/24/2023 07:30	MW-22	AQU 89557 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/25/2023 14:55	MW-23	AQU 89558 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/26/2023 12:15	MW-24	AQU 89559 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/26/2023 07:45	MW-25	AQU 89560 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/26/2023 09:05	MW-26	AQU 89561 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/26/2023 12:00	Field Blank	AQU 89562 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/26/2023 12:10	Rinsate Blank	AQU 89563 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-299-0007	11/09/2023	10/25/2023	Duplicate	AQU 89609 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)

Sampled By	Client	Method of Shipment	Blank / Cooler Temp.
Relinquished By (sign)	Consuelo C Bradley	Date / Time	11/01/2023 2:13:00
Relinquished By (sign)		Date / Time	
Received By (sign)	APR	Date / Time	11/2/23 09:50
Received By (sign)	EPITANE	Date / Time	



LABORATORY - PA
6238
S: MR
1: 65
- 1428
4514
1030
906
202 94120170 2 0712124 2023
15
9.9.0
1112
21411R



WS 26.0.30 Zebra ZP 450 44.0A 10/2023

BILLING: P/P

PT-MI-SR-001 effective 11/8/18
CF - 04
Initials
Thermometer ID
Uncorrected temp
3.6 °C
22

UPS NEXT DAY AIR
TRACKING #: 1Z 9X0 Y85 01 4305 4514



PA 152 9 - 22

PITTSBURGH PA 15238 - 2907
301 ALPHA DRIVE
RDC PARK

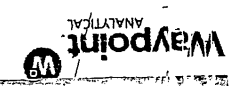
TEST AMERICA LABORATORY - PA
(412) 963 - 7058

SHIP TO:
SAMPLE RECEIVING

CONSUELO BRADLEY
WAYPOINT ANALYTICAL - ALABAMA
107A NORTHSIDE OFFICE PARK DRI
ANDALUSIA AL 36421

15 LBS

2 OF 3



1
2
3
4
5
6
7
8
9
0
11
12
13

LABORATORY - PA

6238

S: MR

1: 65

- 1428

4514

005

1030

15

NOV 2 07:02:24 2023
Z1411R

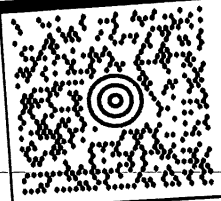
WS 26.0.80 Zebra ZP 450 44.0A 10/2023

BILLING: P/P

PT-MI-SR-001 effective 11/8/18
CF - 04 Initials
Thermometer ID
Uncorrected temp
36.22 °C

UPS NEXT DAY AIR
TRACKING #: 1Z 9X0 Y85 01 4305 4514

PA 152 9 - 22



PITTSBURGH PA 15238 - 2907
301 ALPHA DRIVE
RIDC PARK

TEST AMERICA LABORATORY - PA
(412) 963 - 7058

SHIP TO:
SAMPLE RECEIVING

CONSUELO BRADLEY
WAYPOINT ANALYTICAL - ALABAMA
(334) 343 - 9799
107A NORTHSIDE OFFICE PARK DR
ANDALUSIA AL 36421

15 LBS

2 OF 3





Client Information (Sub Contract Lab)		Lab PM	Carrier Tracking No(s)	COC No					
Client Contact Shipping/Receiving		Johnson, Andy		180-498856-1					
Company Eurofins Environment Testing Northeast		E-Mail: Andy.Johnson@et.eurofins.com	State of Origin: Alabama	Page: Page 1 of 2					
Address: 10 Hazelwood Drive, City: Amherst		Job # 180-164746-1							
State, Zip: NY, 14228-2298		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 X - EDTA Y - Tizma Z - other (specify)							
Phone: 716-691-2600(Tel) 716-691-7991(Fax)		Other: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDTA							
Email:		Accreditations Required (See note):							
Project Name: 23-299-0007		Analysis Requested							
Site:		Total Number of containers							
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, ANAL)	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	6020B/3020A LI by 6020A	Special Instructions/Note:
MW-1 (180-164746-1)		10/23/23	16:30 Central	Water	Water	X	X		
MW-2R (180-164746-2)		10/25/23	08:00 Central	Water	Water	X	X		
MW-4R (180-164746-3)		10/25/23	13:10 Central	Water	Water	X	X		
MW-3 (180-164746-4)		10/23/23	12:40 Central	Water	Water	X	X		
MW-5A (180-164746-5)		10/24/23	16:00 Central	Water	Water	X	X		
MW-8 (180-164746-6)		10/23/23	14:40 Central	Water	Water	X	X		
MW-14A (180-164746-7)		10/24/23	14:40 Central	Water	Water	X	X		
MW-17 (180-164746-8)		10/26/23	11:10 Central	Water	Water	X	X		
MW-20 (180-164746-9)		10/24/23	09:15 Central	Water	Water	X	X		
<p>Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.</p>									
<p>Possible Hazard Identification Unconfirmed</p>									
<p>Deliverable Requested: I, II, III, IV, Other (specify) _____ Primary Deliverable Rank: 2</p>									
<p>Empty Kit Relinquished by: _____ Date: _____ Time: _____</p>									
<p>Relinquished by: <i>[Signature]</i> Date: 11/3/23 1000 Company: EPHANE</p>									
<p>Relinquished by: _____ Date: _____ Time: _____</p>									
<p>Relinquished by: _____ Date: _____ Time: _____</p>									
<p>Custody Seals Intact: _____ Custody Seal No.: _____ Δ Yes Δ No</p>									
<p>Special Instructions/Disposal Requirements: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Received by: <i>[Signature]</i> Date/Time: 11/4/23 1000 Company: TPA Received by: _____ Date/Time: _____ Company: _____ Received by: _____ Date/Time: _____ Company: _____ Cooler Temperature(s) °C and Other Remarks: 3.03 # 1 ICE</p>									



Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Lab PM: Johnson, Andy	Carrier Tracking No(s):	COC No: 180-498856.2
Shipping/Receiving		E-Mail: Andy.Johnson@et.eurofins.com	State of Origin: Alabama	Page: Page 2 of 2
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note): 180-164746-1		
Address: 10 Hazelwood Drive,		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
City: Amherst		M - Hexane N - None O - AsNaO2 P - Na2OAS Q - Na2SO3 R - Na2SO4 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)		
State, Zip: NY, 14228-2298		Analysis Requested		
Phone: 716-691-2600(Tel) 716-691-7991(Fax)		Total Number of containers		
Email:		6020B/3020A LI by 6020A		
Project Name: 23-299-0007		Perform MS/MSD (Yes or No)		
Site:		Field Filtered Sample (Yes or No)		
		Preservation Code:		
		Matrix (Water, Seawater, Oil, etc.)		
		Sample Type (C=Comp, G=Grab)		
		Sample Time		
		Sample Date		
		Due Date Requested: 11/27/2023		
		TAT Requested (days):		
		PO #:		
		WO #:		
		Project #:		
		SSOW#:		
		Special Instructions/Note:		
Sample Identification - Client ID (Lab ID)				
MW-21 (180-164746-10)	10/24/23	13:20 Central	Water	1
MW-22 (180-164746-11)	10/24/23	07:30 Central	Water	1
MW-23 (180-164746-12)	10/25/23	14:55 Central	Water	1
MW-24 (180-164746-13)	10/26/23	12:15 Central	Water	1
MW-25 (180-164746-14)	10/26/23	07:45 Central	Water	1
MW-26 (180-164746-15)	10/26/23	09:05 Central	Water	1
FIELD BLANK (180-164746-16)	10/26/23	12:00 Central	Water	1
RINSATE BLANK (180-164746-17)	10/26/23	12:10 Central	Water	1
DUPLICATE (180-164746-18)	10/25/23	Central	Water	1
Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.				
Possible Hazard Identification				
Unconfirmed				
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2				
Empty Kit Relinquished by:				
Relinquished by: <i>APym</i> Date: 11/3/23 Time: 1000				
Relinquished by: <i>APym</i> Date: 11/3/23 Time: 1000				
Relinquished by: <i>APym</i> Date: 11/3/23 Time: 1000				
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No				
Custody Seal No.:				
Cooler Temperature(s) °C and Other Remarks:				
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements:				
Method of Shipment:				
Received by: <i>APym</i> Date/Time: 11/4/23 1000				
Received by: _____ Date/Time: _____				
Received by: _____ Date/Time: _____				
Company: _____				



Login Sample Receipt Checklist

Client: Waypoint Analytical, Inc.

Job Number: 180-164746-1

Login Number: 164746

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Waypoint Analytical, Inc.

Job Number: 180-164746-1

Login Number: 164746

List Number: 2

Creator: Yeager, Brian A

List Source: Eurofins Buffalo

List Creation: 11/06/23 01:08 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



Quality Control Data

Client ID: CDG Engineers Associates

Project Description: CDG

Report No: 23-299-0007

QC Analytical Batch: L714055

Analysis Method: 2540C-2011

Analysis Description: Total Dissolved Solids

Lab Reagent Blank

LRB

Matrix: AQU

Associated Lab Samples: 89547, 89550, 89551, 89552, 89553, 89555, 89556, 89557, 89609

Parameter	Units	Blank Result	MQL	Analyzed
Total Dissolved Solids	mg/L	<25.0	25.0	10/30/23 16:17

Laboratory Control Sample

LCS

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Total Dissolved Solids	mg/L	250	236	94.0	90-110

Duplicate

N 89609-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Dissolved Solids	mg/L	1400	1460	4.1	10	10/30/23 16:17

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0007

QC Analytical Batch: L714450
Analysis Method: 2540C-2011
Analysis Description: Total Dissolved Solids

Lab Reagent Blank LRB Matrix: AQU
Associated Lab Samples: 89548, 89549, 89554, 89558, 89559, 89560, 89561, 89562, 89563

Parameter	Units	Blank Result	MQL	Analyzed
Total Dissolved Solids	mg/L	<12.5	12.5	11/01/23 09:04

Laboratory Control Sample LCS

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Total Dissolved Solids	mg/L	250	254	102	90-110

Duplicate N 89565-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Dissolved Solids	mg/L	96.0	102	6.0	10	11/01/23 09:04

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0007

QC Prep: L713996 **QC Analytical Batch(es):** L714708,L714967
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L713996 Matrix: AQU
Associated Lab Samples: 89547, 89548, 89549, 89550, 89551, 89552, 89553, 89554, 89555, 89556, 89557, 89558, 89559, 89560, 89561, 89562

Parameter	Units	Blank Result	MQL	Analyzed
Antimony	mg/L	<0.0010	0.0010	11/02/23 01:52
Arsenic	mg/L	<0.0010	0.0010	11/02/23 01:52
Barium	mg/L	<0.001	0.001	11/02/23 01:52
Beryllium	mg/L	<0.0010	0.0010	11/02/23 01:52
Boron	mg/L	<0.010	0.010	11/02/23 01:52
Cadmium	mg/L	<0.0010	0.0010	11/02/23 01:52
Calcium	mg/L	<0.200	0.200	11/02/23 01:52
Chromium	mg/L	<0.001	0.001	11/02/23 01:52
Cobalt	mg/L	<0.001	0.001	11/02/23 15:19
Lead	mg/L	<0.0010	0.0010	11/02/23 01:52
Molybdenum	mg/L	<0.001	0.001	11/02/23 01:52
Selenium	mg/L	<0.001	0.001	11/02/23 01:52
Thallium	mg/L	<0.0010	0.0010	11/02/23 01:52

Laboratory Control Sample LCS-L713996

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Antimony	mg/L	0.100	0.0929	93.0	80-120
Arsenic	mg/L	0.0500	0.0473	95.0	80-120
Barium	mg/L	0.100	0.094	95.0	80-120
Beryllium	mg/L	0.0500	0.0505	101	80-120
Boron	mg/L	0.500	0.491	98.0	80-120
Cadmium	mg/L	0.0100	0.0094	94.0	80-120
Calcium	mg/L	10.0	9.68	97.0	80-120
Chromium	mg/L	0.100	0.090	91.0	80-120
Cobalt	mg/L	0.100	0.092	93.0	80-120
Lead	mg/L	0.0500	0.0468	94.0	80-120

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0007

QC Prep: L713996 **QC Analytical Batch(es):** L714708,L714967
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Laboratory Control Sample LCS-L713996

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Molybdenum	mg/L	0.100	0.087	87.0	80-120
Selenium	mg/L	0.100	0.097	97.0	80-120
Thallium	mg/L	0.0100	0.0096	97.0	80-120

Matrix Spike & Matrix Spike Duplicate N 89562-MS-L713996 N 89562-MSD-L713996

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Antimony	mg/L	<0.0010	0.100	0.100	0.0961	0.0953	96.0	95.0	75-125	0.8	20
Arsenic	mg/L	<0.0010	0.0500	0.0500	0.0485	0.0475	97.0	95.0	75-125	2.0	20
Barium	mg/L	<0.001	0.100	0.100	0.097	0.095	97.0	96.0	75-125	1.5	20
Beryllium	mg/L	<0.0010	0.0500	0.0500	0.0474	0.0467	95.0	93.0	75-125	1.4	20
Boron	mg/L	<0.010	0.500	0.500	0.466	0.472	93.0	94.0	75-125	1.2	20
Cadmium	mg/L	<0.0010	0.0100	0.0100	0.0099	0.0098	99.0	98.0	75-125	1.1	20
Calcium	mg/L	<0.200	10.0	10.0	9.86	9.74	99.0	97.0	75-125	1.2	20
Chromium	mg/L	<0.001	0.100	0.100	0.095	0.092	95.0	92.0	75-125	2.6	20
Cobalt	mg/L	<0.001	0.100	0.100	0.095	0.091	95.0	92.0	75-125	3.4	20
Lead	mg/L	<0.0010	0.0500	0.0500	0.0488	0.0479	98.0	96.0	75-125	1.8	20
Molybdenum	mg/L	<0.001	0.100	0.100	0.096	0.093	96.0	93.0	75-125	2.8	20
Selenium	mg/L	<0.001	0.100	0.100	0.100	0.096	100	96.0	75-125	3.9	20
Thallium	mg/L	<0.0010	0.0100	0.0100	0.0099	0.0097	100	97.0	75-125	2.2	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0007

QC Prep: L714355 **QC Analytical Batch(es):** L715204,L715433
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L714355 Matrix: AQU
Associated Lab Samples: 89563

Parameter	Units	Blank Result	MQL	Analyzed
Antimony	mg/L	<0.0010	0.0010	11/03/23 23:15
Arsenic	mg/L	<0.0010	0.0010	11/03/23 23:15
Barium	mg/L	<0.001	0.001	11/03/23 23:15
Beryllium	mg/L	<0.0010	0.0010	11/03/23 23:15
Boron	mg/L	<0.010	0.010	11/03/23 23:15
Cadmium	mg/L	<0.0010	0.0010	11/03/23 23:15
Calcium	mg/L	<0.200	0.200	11/03/23 23:15
Chromium	mg/L	<0.001	0.001	11/03/23 23:15
Cobalt	mg/L	<0.001	0.001	11/03/23 23:15
Lead	mg/L	<0.0010	0.0010	11/03/23 23:15
Molybdenum	mg/L	<0.001	0.001	11/03/23 23:15
Selenium	mg/L	<0.001	0.001	11/03/23 23:15
Thallium	mg/L	<0.0010	0.0010	11/03/23 23:15

Laboratory Control Sample LCS-L714355

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Antimony	mg/L	0.100	0.0970	97.0	80-120
Arsenic	mg/L	0.0500	0.0489	98.0	80-120
Barium	mg/L	0.100	0.097	97.0	80-120
Beryllium	mg/L	0.0500	0.0470	94.0	80-120
Boron	mg/L	0.500	0.471	94.0	80-120
Cadmium	mg/L	0.0100	0.0096	96.0	80-120
Calcium	mg/L	10.0	9.91	99.0	80-120
Chromium	mg/L	0.100	0.096	96.0	80-120
Cobalt	mg/L	0.100	0.091	92.0	80-120
Lead	mg/L	0.0500	0.0479	96.0	80-120

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0007

QC Prep: L714355 **QC Analytical Batch(es):** L715204,L715433
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Laboratory Control Sample LCS-L714355

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Molybdenum	mg/L	0.100	0.093	93.0	80-120
Selenium	mg/L	0.100	0.096	96.0	80-120
Thallium	mg/L	0.0100	0.0095	96.0	80-120

Matrix Spike & Matrix Spike Duplicate N 89589-MS-L714355 N 89589-MSD-L714355

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Antimony	mg/L	<0.0010	0.100	0.100	0.0967	0.0964	97.0	96.0	75-125	0.3	20
Arsenic	mg/L	<0.0010	0.0500	0.0500	0.0490	0.0494	97.0	98.0	75-125	0.8	20
Barium	mg/L	0.114	0.100	0.100	0.212	0.212	98.0	98.0	75-125	0.0	20
Beryllium	mg/L	<0.0010	0.0500	0.0500	0.0440	0.0447	88.0	89.0	75-125	1.5	20
Boron	mg/L	0.404	0.500	0.500	0.808	0.824	81.0	84.0	75-125	1.9	20
Cadmium	mg/L	<0.0010	0.0100	0.0100	0.0093	0.0092	94.0	93.0	75-125	1.2	20
Calcium	mg/L	68.3	10.0	10.0	78.8	80.0	105	117	75-125	1.5	20
Chromium	mg/L	<0.001	0.100	0.100	0.093	0.095	93.0	95.0	75-125	2.0	20
Cobalt	mg/L	<0.001	0.100	0.100	0.087	0.089	87.0	89.0	75-125	1.5	20
Lead	mg/L	<0.0010	0.0500	0.0500	0.0480	0.0483	96.0	97.0	75-125	0.6	20
Molybdenum	mg/L	0.004	0.100	0.100	0.098	0.096	94.0	92.0	75-125	2.4	20
Selenium	mg/L	0.004	0.100	0.100	0.098	0.102	95.0	98.0	75-125	3.0	20
Thallium	mg/L	<0.0010	0.0100	0.0100	0.0097	0.0096	97.0	97.0	75-125	0.9	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0007

QC Prep: L714594 **QC Analytical Batch(es):** L715204,L715433
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L714594 Matrix: AQU
Associated Lab Samples: 89609

Parameter	Units	Blank Result	MQL	Analyzed
Antimony	mg/L	<0.0010	0.0010	11/04/23 03:08
Arsenic	mg/L	<0.0010	0.0010	11/04/23 03:08
Barium	mg/L	<0.001	0.001	11/04/23 03:08
Beryllium	mg/L	<0.0010	0.0010	11/04/23 03:08
Boron	mg/L	<0.010	0.010	11/04/23 03:08
Cadmium	mg/L	<0.0010	0.0010	11/04/23 03:08
Calcium	mg/L	<0.200	0.200	11/04/23 03:08
Chromium	mg/L	<0.001	0.001	11/04/23 03:08
Cobalt	mg/L	<0.001	0.001	11/04/23 03:08
Lead	mg/L	<0.0010	0.0010	11/04/23 03:08
Molybdenum	mg/L	<0.001	0.001	11/04/23 03:08
Selenium	mg/L	<0.001	0.001	11/04/23 03:08
Thallium	mg/L	<0.0010	0.0010	11/04/23 03:08

Laboratory Control Sample LCS-L714594

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Antimony	mg/L	0.100	0.0975	98.0	80-120
Arsenic	mg/L	0.0500	0.0474	95.0	80-120
Barium	mg/L	0.100	0.099	99.0	80-120
Beryllium	mg/L	0.0500	0.0434	87.0	80-120
Boron	mg/L	0.500	0.431	86.0	80-120
Cadmium	mg/L	0.0100	0.0090	91.0	80-120
Calcium	mg/L	10.0	9.72	97.0	80-120
Chromium	mg/L	0.100	0.091	92.0	80-120
Cobalt	mg/L	0.100	0.088	88.0	80-120
Lead	mg/L	0.0500	0.0485	97.0	80-120

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0007

QC Prep: L714594 **QC Analytical Batch(es):** L715204,L715433
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Laboratory Control Sample LCS-L714594

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Molybdenum	mg/L	0.100	0.090	91.0	80-120
Selenium	mg/L	0.100	0.093	93.0	80-120
Thallium	mg/L	0.0100	0.0091	92.0	80-120

Matrix Spike & Matrix Spike Duplicate A 65453-MS-L714594 A 65453-MSD-L714594

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Antimony	mg/L	<0.0010	0.100	0.100	0.0702	0.0670	70.0*	67.0*	75-125	4.6	20
Arsenic	mg/L	0.0651	0.0500	0.0500	0.115	0.112	100	94.0	75-125	2.6	20
Barium	mg/L	0.696	0.100	0.100	0.821	0.804	125	108	75-125	2.0	20
Beryllium	mg/L	<0.0010	0.0500	0.0500	0.0432	0.0444	85.0	87.0	75-125	2.7	20
Boron	mg/L	0.378	0.500	0.500	0.777	0.764	80.0	77.0	75-125	1.6	20
Cadmium	mg/L	<0.0010	0.0100	0.0100	0.0101	0.0094	101	95.0	75-125	6.3	20
Calcium	mg/L	149	10.0	10.0	167	161	180*	120	75-125	3.6	20
Chromium	mg/L	0.017	0.100	0.100	0.116	0.113	99.0	96.0	75-125	2.6	20
Cobalt	mg/L	0.005	0.100	0.100	0.097	0.094	92.0	89.0	75-125	3.3	20
Lead	mg/L	0.0109	0.0500	0.0500	0.0588	0.0581	96.0	94.0	75-125	1.1	20
Molybdenum	mg/L	0.001	0.100	0.100	0.098	0.094	97.0	93.0	75-125	3.9	20
Selenium	mg/L	0.001	0.100	0.100	0.092	0.093	91.0	92.0	75-125	0.9	20
Thallium	mg/L	<0.0010	0.0100	0.0100	0.0098	0.0095	97.0	94.0	75-125	2.9	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0007

QC Prep: L714179 **QC Analytical Batch(es):** L714354
QC Prep Batch Method: 7470A **Analysis Method:** 7470A
Analysis Description: Total Aqueous Mercury Analysis - CVAA

Lab Reagent Blank LRB-L714179 Matrix: AQU
Associated Lab Samples: 89547, 89548, 89549, 89550, 89551, 89552, 89553, 89554, 89555, 89556, 89557, 89558, 89559, 89560, 89561, 89562, 89563, 89609

Parameter	Units	Blank Result	MQL	Analyzed
Mercury	mg/L	<0.00020	0.00020	10/31/23 13:07

Laboratory Control Sample LCS-L714179

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/L	0.00400	0.00361	90.0	80-120

Matrix Spike & Matrix Spike Duplicate N 89609-MS-L714179 N 89609-MSD-L714179

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/L	<0.00020	0.00400	0.00400	0.00356	0.00364	89.0	91.0	80-120	2.2	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0007

QC Prep: L714243 **QC Analytical Batch(es):** L714558
QC Prep Batch Method: SW-9056A (PREP) **Analysis Method:** 9056A
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank LRB-L714243 Matrix: AQU
Associated Lab Samples: 89547, 89548, 89549, 89550, 89551, 89552, 89553, 89554, 89555, 89556, 89557, 89558, 89559, 89560, 89561, 89562, 89563, 89609

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/L	<0.400	0.400	10/31/23 08:33
Fluoride (w/o distillation)	mg/L	<0.125	0.125	10/31/23 08:33
Sulfate	mg/L	<1.00	1.00	10/31/23 08:33

Laboratory Control Sample & LCSD LCS-L714243 LCSD-L714243

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Chloride	mg/L	50.0	47.4	46.8	95.0	94.0	80-120	1.2	20
Fluoride (w/o distillation)	mg/L	6.25	5.71	5.72	91.0	92.0	80-120	0.1	20
Sulfate	mg/L	62.5	59.2	58.5	95.0	94.0	80-120	1.1	20

Matrix Spike & Matrix Spike Duplicate N 89562-MS-L714243 N 89562-MSD-L714243

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/L	<0.421	52.6	52.6	24.6	25.9	47.0*	49.0*	80-120	5.1	15
Fluoride (w/o distillation)	mg/L	<0.131	6.58	6.58	3.02	3.16	46.0*	48.0*	80-120	4.5	15
Sulfate	mg/L	<1.05	65.8	65.8	31.1	32.6	47.0*	50.0*	80-120	4.7	15

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0007

QC Prep: L714554 **QC Analytical Batch(es):** L714693
QC Prep Batch Method: SW-9056A (PREP) **Analysis Method:** 9056A
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank LRB-L714554 Matrix: AQU
Associated Lab Samples: 89560

Parameter	Units	Blank Result	MQL	Analyzed
Sulfate	mg/L	<1.00	1.00	11/01/23 11:17

Laboratory Control Sample & LCSD LCS-L714554 LCSD-L714554

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Sulfate	mg/L	62.5	62.0	62.0	99.0	99.0	80-120	0.0	20

Shipment Receipt Form

Customer Number: **00001**
 Customer Name: **CDG Engineers Associates**
 Report Number: **23-299-0007**

Shipping Method

Fed Ex US Postal Lab Other :
 UPS Client Courier Thermometer ID:


Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

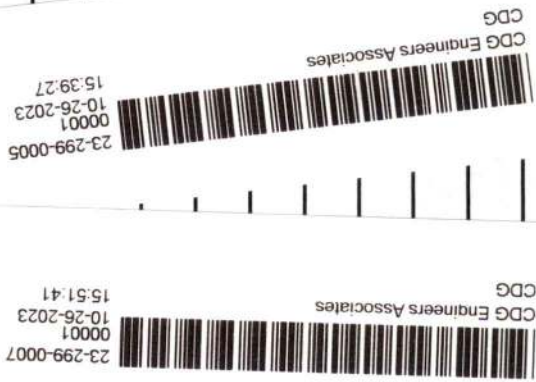
Comments:

Signature:

Date & Time:

For Laboratory Use Only

Client Name/Address CDG, Inc		Client Project Manager/Contact Alan Barck		Billing Information		For Laboratory Use Only	
Project Description PowerSouth LowMan		Project/Site Location (City/State) Jackson, AL		RUSH - Additional charges apply Special Detection Limit(s) Date Results Needed		Matrix Key WW - Wastewater GW - Groundwater DW - Drinking Water S - Soil / Solid O - Oil P - Product M - Misc	
Project Number 202223004-005		Project Manager Phone # 334-222-9431		Project Manager Email alan.barck@cdg.com		Site/Facility ID #	
 <p>Waypoint ANALYTICAL 2790 Whitten Road Memphis, TN 38133 (901) 213-2400</p>		<p>Unless noted, all containers per Table II of 40 CFR Part 136.</p>		<p>Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input type="checkbox"/> Client Drop Off <input type="checkbox"/> Other</p>		<p>Purchase Order Number</p>	
Sample Identification		Number of Containers		Matrix (Refer to Key)		Required Analysis / Preservative	
Date	Time			(g)rab or (c)omposite			
10/23	1630	5 GW-1		2	2	2	
10/25	0800	MW-2R		2	2	2	
10/25	1310	MW-4R		2	2	2	
10/23	1240	MW-3		2	2	2	
10/24	1600	MW-5A		2	2	2	
10/23	1440	MW-8		2	2	2	
10/24	1440	MW-14A		2	2	2	
10/26	1110	MW-17		2	2	2	
10/24	0915	MW-20		2	2	2	
10/24	1320	MW-21		2	2	2	
Ice		Custody Seals		Sampled by (Name - Print)		Client Remarks/Comments	
Y / N	Y / N	Lab Comments		<p>Grant Maxcum Relinquished by: (SIGNATURE)</p> <p>[Signature] Relinquished by: (SIGNATURE)</p> <p>Relinquished by: (SIGNATURE)</p>		Date	Time
Blank/Cooler Temp				Date	Time	Date	Time
				10/26/23	1525		



11/21/2023

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL, 36420

Ref: Analytical Testing
Lab Report Number: 23-299-0005
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Dear Mr. Alan Barck:

Waypoint Analytical, LLC (Andalusia) received sample(s) on 10/26/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

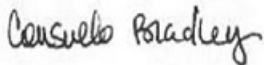
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Consuelo C Bradley

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	SC #84002
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #80215	PA DEP #68-03195

Sample Summary Table

Report Number: 23-299-0005
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
89528	MW-1	Aqueous	10/23/2023 16:30	10/26/2023 15:00	EPA-903.1	
89528	MW-1	Aqueous	10/23/2023 16:30	10/26/2023 15:00	EPA-904.0	
89529	MW-2R	Aqueous	10/25/2023 08:00	10/26/2023 15:00	EPA-903.1	
89529	MW-2R	Aqueous	10/25/2023 08:00	10/26/2023 15:00	EPA-904.0	
89530	MW-4R	Aqueous	10/25/2023 13:10	10/26/2023 15:00	EPA-904.0	
89530	MW-4R	Aqueous	10/25/2023 13:10	10/26/2023 15:00	EPA-903.1	
89531	MW-3	Aqueous	10/23/2023 12:40	10/26/2023 15:00	EPA-903.1	
89531	MW-3	Aqueous	10/23/2023 12:40	10/26/2023 15:00	EPA-904.0	
89532	MW-5A	Aqueous	10/24/2023 16:00	10/26/2023 15:00	EPA-904.0	
89532	MW-5A	Aqueous	10/24/2023 16:00	10/26/2023 15:00	EPA-903.1	
89533	MW-8	Aqueous	10/23/2023 14:40	10/26/2023 15:00	EPA-904.0	
89533	MW-8	Aqueous	10/23/2023 14:40	10/26/2023 15:00	EPA-903.1	
89534	MW-14A	Aqueous	10/24/2023 14:40	10/26/2023 15:00	EPA-904.0	
89534	MW-14A	Aqueous	10/24/2023 14:40	10/26/2023 15:00	EPA-903.1	
89535	MW-17	Aqueous	10/26/2023 11:10	10/26/2023 15:00	EPA-903.1	
89535	MW-17	Aqueous	10/26/2023 11:10	10/26/2023 15:00	EPA-904.0	
89536	MW-20	Aqueous	10/24/2023 09:15	10/26/2023 15:00	EPA-904.0	
89536	MW-20	Aqueous	10/24/2023 09:15	10/26/2023 15:00	EPA-903.1	
89537	MW-21	Aqueous	10/24/2023 13:20	10/26/2023 15:00	EPA-904.0	
89537	MW-21	Aqueous	10/24/2023 13:20	10/26/2023 15:00	EPA-903.1	
89538	MW-22	Aqueous	10/24/2023 07:30	10/26/2023 15:00	EPA-904.0	
89538	MW-22	Aqueous	10/24/2023 07:30	10/26/2023 15:00	EPA-903.1	
89539	MW-23	Aqueous	10/25/2023 14:55	10/26/2023 15:00	EPA-904.0	
89539	MW-23	Aqueous	10/25/2023 14:55	10/26/2023 15:00	EPA-903.1	
89540	MW-24	Aqueous	10/26/2023 12:15	10/26/2023 15:00	EPA-904.0	

Sample Summary Table

Report Number: 23-299-0005
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
89540	MW-24	Aqueous	10/26/2023 12:15	10/26/2023 15:00	EPA-903.1	
89541	MW-25	Aqueous	10/26/2023 07:45	10/26/2023 15:00	EPA-904.0	
89541	MW-25	Aqueous	10/26/2023 07:45	10/26/2023 15:00	EPA-903.1	
89542	MW-26	Aqueous	10/26/2023 09:05	10/26/2023 15:00	EPA-904.0	
89542	MW-26	Aqueous	10/26/2023 09:05	10/26/2023 15:00	EPA-903.1	
89543	Field Blank	Aqueous	10/26/2023 12:00	10/26/2023 15:00	EPA-903.1	
89543	Field Blank	Aqueous	10/26/2023 12:00	10/26/2023 15:00	EPA-904.0	
89544	Rinsate Blank	Aqueous	10/26/2023 12:10	10/26/2023 15:00	EPA-904.0	
89544	Rinsate Blank	Aqueous	10/26/2023 12:10	10/26/2023 15:00	EPA-903.1	
89608	Duplicate	Aqueous	10/25/2023	10/26/2023 15:00	EPA-904.0	
89608	Duplicate	Aqueous	10/25/2023	10/26/2023 15:00	EPA-903.1	



November 21, 2023

Ms. Consuelo Bradley
Waypoint Analytical LLC-AL
107A Northside Office Park Dr.
Andalusia, AL 36421

RE: Project: 23-299-0005
Pace Project No.: 30635254

Dear Ms. Bradley:

Enclosed are the analytical results for sample(s) received by the laboratory on October 31, 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,

Nikayla M. Yasurek
nikayla.yasurek@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Ms. Kim Stricklan, Waypoint Analytical LLC-AL



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 23-299-0005
 Pace Project No.: 30635254

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
 ANAB DOD-ELAP Rad Accreditation #: L2417
 ANABISO/IEC 17025:2017 Rad Cert#: L24170
 Alabama Certification #: 41590
 Arizona Certification #: AZ0734
 Arkansas Certification
 California Certification #: 2950
 Colorado Certification #: PA01547
 Connecticut Certification #: PH-0694
 EPA Region 4 DW Rad
 Florida/TNI Certification #: E87683
 Georgia Certification #: C040
 Guam Certification
 Hawaii Certification
 Idaho Certification
 Illinois Certification
 Indiana Certification
 Iowa Certification #: 391
 Kansas Certification #: E-10358
 Kentucky Certification #: KY90133
 KY WW Permit #: KY0098221
 KY WW Permit #: KY0000221
 Louisiana DHH/TNI Certification #: LA010
 Louisiana DEQ/TNI Certification #: 04086
 Maine Certification #: 2023021
 Maryland Certification #: 308
 Massachusetts Certification #: M-PA1457
 Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
 Montana Certification #: Cert0082
 Nebraska Certification #: NE-OS-29-14
 Nevada Certification #: PA014572023-03
 New Hampshire/TNI Certification #: 297622
 New Jersey/TNI Certification #: PA051
 New Mexico Certification #: PA01457
 New York/TNI Certification #: 10888
 North Carolina Certification #: 42706
 North Dakota Certification #: R-190
 Ohio EPA Rad Approval: #41249
 Oregon/TNI Certification #: PA200002-015
 Pennsylvania/TNI Certification #: 65-00282
 Puerto Rico Certification #: PA01457
 Rhode Island Certification #: 65-00282
 South Dakota Certification
 Tennessee Certification #: TN02867
 Texas/TNI Certification #: T104704188-22-18
 Utah/TNI Certification #: PA014572223-14
 USDA Soil Permit #: 525-23-67-77263
 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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 23-299-0005
Pace Project No.: 30635254

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30635254001	89528	Water	10/23/23 16:30	10/31/23 10:25
30635254002	89529	Water	10/25/23 08:00	10/31/23 10:25
30635254003	89530	Water	10/25/23 13:10	10/31/23 10:25
30635254004	89531	Water	10/23/23 12:40	10/31/23 10:25
30635254005	89532	Water	10/24/23 16:00	10/31/23 10:25
30635254006	89533	Water	10/23/23 14:40	10/31/23 10:25
30635254007	89534	Water	10/24/23 14:40	10/31/23 10:25
30635254008	89535	Water	10/26/23 11:10	10/31/23 10:25
30635254009	89536	Water	10/24/23 09:15	10/31/23 10:25
30635254010	89537	Water	10/24/23 13:20	10/31/23 10:25
30635254011	89538	Water	10/24/23 07:30	10/31/23 10:25
30635254012	89539	Water	10/25/23 14:55	10/31/23 10:25
30635254013	89540	Water	10/26/23 12:15	10/31/23 10:25
30635254014	89541	Water	10/26/23 07:45	10/31/23 10:25
30635254015	89542	Water	10/26/23 09:05	10/31/23 10:25
30635254016	89543	Water	10/26/23 12:00	10/31/23 10:25
30635254017	89544	Water	10/26/23 12:10	10/31/23 10:25
30635254018	89608	Water	10/25/23 00:00	10/31/23 10:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 23-299-0005
 Pace Project No.: 30635254

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30635254001	89528	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30635254002	89529	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30635254003	89530	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30635254004	89531	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30635254005	89532	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30635254006	89533	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30635254007	89534	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30635254008	89535	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30635254009	89536	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30635254010	89537	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30635254011	89538	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30635254012	89539	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30635254013	89540	EPA 903.1	LL1	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: 23-299-0005
 Pace Project No.: 30635254

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30635254014	89541	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
30635254015	89542	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30635254016	89543	EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	LL1	1	PASI-PA
30635254017	89544	EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
30635254018	89608	Total Radium Calculation	JAL	1	PASI-PA
		EPA 903.1	LL1	1	PASI-PA
		EPA 904.0	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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PROJECT NARRATIVE

Project: 23-299-0005
Pace Project No.: 30635254

Method: EPA 903.1
Description: 903.1 Radium 226
Client: Waypoint Analytical LLC-AL
Date: November 21, 2023

General Information:

18 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-299-0005
Pace Project No.: 30635254

Method: EPA 904.0
Description: 904.0 Radium 228
Client: Waypoint Analytical LLC-AL
Date: November 21, 2023

General Information:

18 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-299-0005
Pace Project No.: 30635254

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: Waypoint Analytical LLC-AL
Date: November 21, 2023

General Information:

18 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-299-0005
 Pace Project No.: 30635254

Sample: 89528		Lab ID: 30635254001	Collected: 10/23/23 16:30	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.337 ± 0.493 (1.09) C:NA T:77%	pCi/L	11/20/23 13:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.840 ± 0.464 (0.823) C:72% T:77%	pCi/L	11/13/23 13:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.840 ± 0.957 (1.91)	pCi/L	11/21/23 09:27	7440-14-4	

Sample: 89529		Lab ID: 30635254002	Collected: 10/25/23 08:00	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.263 ± 0.517 (1.15) C:NA T:71%	pCi/L	11/20/23 13:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.432 ± 0.405 (0.818) C:74% T:71%	pCi/L	11/13/23 13:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.432 ± 0.922 (1.97)	pCi/L	11/21/23 09:27	7440-14-4	

Sample: 89530		Lab ID: 30635254003	Collected: 10/25/23 13:10	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.114 ± 0.387 (0.856) C:NA T:71%	pCi/L	11/20/23 13:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.926 ± 0.474 (0.810) C:74% T:71%	pCi/L	11/13/23 13:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.926 ± 0.861 (1.67)	pCi/L	11/21/23 09:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-299-0005
 Pace Project No.: 30635254

Sample: 89531		Lab ID: 30635254004		Collected: 10/23/23 12:40	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:		Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	-0.172 ± 0.374 (0.863) C:NA T:71%		pCi/L	11/20/23 13:45	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.229 ± 0.407 (0.890) C:72% T:71%		pCi/L	11/13/23 13:09	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.229 ± 0.781 (1.75)		pCi/L	11/21/23 09:27	7440-14-4	

Sample: 89532		Lab ID: 30635254005		Collected: 10/24/23 16:00	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:		Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.181 ± 0.426 (0.790) C:NA T:66%		pCi/L	11/20/23 13:45	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.827 ± 0.617 (1.22) C:75% T:66%		pCi/L	11/13/23 13:09	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.01 ± 1.04 (2.01)		pCi/L	11/21/23 09:27	7440-14-4	

Sample: 89533		Lab ID: 30635254006		Collected: 10/23/23 14:40	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:		Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.117 ± 0.363 (0.703) C:NA T:73%		pCi/L	11/20/23 13:45	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.690 ± 0.514 (1.01) C:79% T:73%		pCi/L	11/13/23 13:09	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.807 ± 0.877 (1.71)		pCi/L	11/21/23 09:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-299-0005
 Pace Project No.: 30635254

Sample: 89534		Lab ID: 30635254007	Collected: 10/24/23 14:40	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.487 ± 0.678 (1.15) C:NA T:71%	pCi/L	11/20/23 13:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.96 ± 0.730 (1.12) C:72% T:71%	pCi/L	11/13/23 13:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.45 ± 1.41 (2.27)	pCi/L	11/21/23 09:27	7440-14-4	

Sample: 89535		Lab ID: 30635254008	Collected: 10/26/23 11:10	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.493 ± 0.495 (0.772) C:NA T:76%	pCi/L	11/20/23 13:57	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.20 ± 0.629 (1.15) C:71% T:76%	pCi/L	11/13/23 13:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.69 ± 1.12 (1.92)	pCi/L	11/21/23 09:27	7440-14-4	

Sample: 89536		Lab ID: 30635254009	Collected: 10/24/23 09:15	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.121 ± 0.474 (0.907) C:NA T:75%	pCi/L	11/20/23 13:57	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.12 ± 0.533 (0.899) C:71% T:75%	pCi/L	11/13/23 13:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.24 ± 1.01 (1.81)	pCi/L	11/21/23 09:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-299-0005
 Pace Project No.: 30635254

Sample: 89537		Lab ID: 30635254010		Collected: 10/24/23 13:20	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:		Sample Type:			
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.0520 ± 0.467	(0.905)	pCi/L	11/20/23 13:57	13982-63-3	
		C:NA T:77%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.741 ± 0.436	(0.780)	pCi/L	11/13/23 13:09	15262-20-1	
		C:70% T:77%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.793 ± 0.903	(1.69)	pCi/L	11/21/23 09:27	7440-14-4	

Sample: 89538		Lab ID: 30635254011		Collected: 10/24/23 07:30	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:		Sample Type:			
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.000 ± 0.376	(0.795)	pCi/L	11/20/23 13:57	13982-63-3	
		C:NA T:76%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.229 ± 0.345	(0.744)	pCi/L	11/13/23 13:09	15262-20-1	
		C:75% T:76%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.229 ± 0.721	(1.54)	pCi/L	11/21/23 09:27	7440-14-4	

Sample: 89539		Lab ID: 30635254012		Collected: 10/25/23 14:55	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:		Sample Type:			
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.173 ± 0.492	(0.913)	pCi/L	11/20/23 13:57	13982-63-3	
		C:NA T:72%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.773 ± 0.486	(0.907)	pCi/L	11/13/23 13:09	15262-20-1	
		C:74% T:72%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.946 ± 0.978	(1.82)	pCi/L	11/21/23 09:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-299-0005
 Pace Project No.: 30635254

Sample: 89540		Lab ID: 30635254013	Collected: 10/26/23 12:15	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.297 ± 0.771 (1.40) C:NA T:66%	pCi/L	11/20/23 13:57	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.892 ± 0.529 (0.971) C:73% T:66%	pCi/L	11/13/23 13:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.19 ± 1.30 (2.37)	pCi/L	11/21/23 09:27	7440-14-4	

Sample: 89541		Lab ID: 30635254014	Collected: 10/26/23 07:45	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.124 ± 0.385 (0.874) C:NA T:72%	pCi/L	11/20/23 13:57	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.21 ± 0.526 (0.837) C:72% T:72%	pCi/L	11/13/23 13:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.21 ± 0.911 (1.71)	pCi/L	11/21/23 09:27	7440-14-4	

Sample: 89542		Lab ID: 30635254015	Collected: 10/26/23 09:05	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.000 ± 0.544 (1.07) C:NA T:77%	pCi/L	11/20/23 13:57	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.418 ± 0.452 (0.940) C:64% T:77%	pCi/L	11/13/23 13:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.418 ± 0.996 (2.01)	pCi/L	11/21/23 09:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-299-0005
 Pace Project No.: 30635254

Sample: 89543		Lab ID: 30635254016		Collected: 10/26/23 12:00	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:		Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	1.96 ± 0.713 (0.507) C:NA T:74%		pCi/L	11/20/23 14:12	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.556 ± 0.515 (1.05) C:63% T:74%		pCi/L	11/13/23 13:10	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	2.52 ± 1.23 (1.56)		pCi/L	11/21/23 09:27	7440-14-4	

Sample: 89544		Lab ID: 30635254017		Collected: 10/26/23 12:10	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:		Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	-0.124 ± 0.453 (0.980) C:NA T:72%		pCi/L	11/20/23 14:12	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.629 ± 0.602 (1.24) C:69% T:72%		pCi/L	11/13/23 13:10	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.629 ± 1.06 (2.22)		pCi/L	11/21/23 09:27	7440-14-4	

Sample: 89608		Lab ID: 30635254018		Collected: 10/25/23 00:00	Received: 10/31/23 10:25	Matrix: Water	
PWS:		Site ID:		Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	-0.0552 ± 0.252 (0.512) C:NA T:73%		pCi/L	11/20/23 14:12	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	1.52 ± 0.631 (1.03) C:75% T:73%		pCi/L	11/13/23 13:10	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.52 ± 0.883 (1.54)		pCi/L	11/21/23 09:27	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 23-299-0005
 Pace Project No.: 30635254

QC Batch:	627032	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30635254001, 30635254002, 30635254003, 30635254004, 30635254005, 30635254006, 30635254007, 30635254008, 30635254009, 30635254010, 30635254011, 30635254012, 30635254013, 30635254014, 30635254015, 30635254016, 30635254017, 30635254018

METHOD BLANK: 3056457 Matrix: Water

Associated Lab Samples: 30635254001, 30635254002, 30635254003, 30635254004, 30635254005, 30635254006, 30635254007, 30635254008, 30635254009, 30635254010, 30635254011, 30635254012, 30635254013, 30635254014, 30635254015, 30635254016, 30635254017, 30635254018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.731 ± 0.481 (0.883) C:71% T:71%	pCi/L	11/13/23 13:12	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 23-299-0005
 Pace Project No.: 30635254

QC Batch:	627031	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30635254001, 30635254002, 30635254003, 30635254004, 30635254005, 30635254006, 30635254007, 30635254008, 30635254009, 30635254010, 30635254011, 30635254012, 30635254013, 30635254014, 30635254015, 30635254016, 30635254017, 30635254018

METHOD BLANK: 3056456 Matrix: Water

Associated Lab Samples: 30635254001, 30635254002, 30635254003, 30635254004, 30635254005, 30635254006, 30635254007, 30635254008, 30635254009, 30635254010, 30635254011, 30635254012, 30635254013, 30635254014, 30635254015, 30635254016, 30635254017, 30635254018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.113 ± 0.258 (0.609) C:NA T:71%	pCi/L	11/20/23 13:45	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 23-299-0005
Pace Project No.: 30635254

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.

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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107A Northside Office Park Drive, Andalusia, AL 36421
Main 334.343.9799
www.waypointanalytical.com

10/30/2023 13:54:21

Export Batch Report

Export Batch Id : 694EXP

WO#: 30635254



Created: 10/30/2023 13:47:43

Computer: WPALMS-161

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
1638 Roseytown Road / Suites 2, 3 & 4
Greensburg, PA 15601
724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
107A Northside Office Park Drive
Andalusia, AL 36421
334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code Description
23-299-0005	11/27/2023	10/23/2023 16:30	MW-1	AQU 89528	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 001
23-299-0005	11/27/2023	10/23/2023 16:30	MW-1	AQU 89528	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/25/2023 08:00	MW-2R	AQU 89529	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 002
23-299-0005	11/27/2023	10/25/2023 08:00	MW-2R	AQU 89529	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/25/2023 13:10	MW-4R	AQU 89530	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 003
23-299-0005	11/27/2023	10/25/2023 13:10	MW-4R	AQU 89530	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/23/2023 12:40	MW-3	AQU 89531	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 004
23-299-0005	11/27/2023	10/23/2023 12:40	MW-3	AQU 89531	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/24/2023 16:00	MW-5A	AQU 89532	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 005

Sampled By	Method of Shipment	Blank / Cooler Temp.
Client		
Relinquished By (sign) Consuelo Bradley	Date / Time 10/30/2023 @ 1500	Received By (sign) [Signature]
Relinquished By (sign) R2	Date / Time	Received By (sign) [Signature]

Received by Pace Greensburg
Therm ID: [] Corr Factor +/- 0.1
Receipt Temp 1.8
Corrected Temp 1.7
Correct Preservation []



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10/30/2023 13:54:21

WO#: 30635254

Export Batch Report

Export Batch Id : 694EXP

PM: NMY Due Date: 11/21/23

CLIENT: WAYPOINT-AL

Created: 10/30/2023 13:47:43

Computer: WPALMS-161

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code	Description
23-299-0005	11/27/2023	10/24/2023 16:00	MW-5A	AQU	89532	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/23/2023 14:40	MW-8	AQU	89533	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/23/2023 14:40	MW-8	AQU	89533	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/24/2023 14:40	MW-14A	AQU	89534	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/24/2023 14:40	MW-14A	AQU	89534	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/26/2023 11:10	MW-17	AQU	89535	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/26/2023 11:10	MW-17	AQU	89535	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/24/2023 09:15	MW-20	AQU	89536	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/24/2023 09:15	MW-20	AQU	89536	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)

Sampled By	Method of Shipment	Blank / Cooler Temp.
Client		
Remarks		
Relinquished By (sign) Consuelo Bradley	Date / Time 10/30/2023 2:50	Received By (sign) S. White
Relinquished By (sign) 22	Date / Time	Date / Time 10/30/23 10:25



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10/30/2023 13:54:21

Export Batch Report

Export Batch Id : 694EXP

W0# : 30635254

PM: NMY Due Date: 11/21/23

CLIENT: WAYPOINT-AL

Created: 10/30/2023 13:47:43

Computer: WPALMS-161

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code Description
23-299-0005	11/27/2023	10/24/2023 13:20	MW-21	AQU 89537	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 016
23-299-0005	11/27/2023	10/24/2023 13:20	MW-21	AQU 89537	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/24/2023 07:30	MW-22	AQU 89538	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 011
23-299-0005	11/27/2023	10/24/2023 07:30	MW-22	AQU 89538	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/25/2023 14:55	MW-23	AQU 89539	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 012
23-299-0005	11/27/2023	10/25/2023 14:55	MW-23	AQU 89539	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/26/2023 12:15	MW-24	AQU 89540	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 013
23-299-0005	11/27/2023	10/26/2023 12:15	MW-24	AQU 89540	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-299-0005	11/27/2023	10/26/2023 07:45	MW-25	AQU 89541	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 014

Sampled By	Method of Shipment	Blank / Cooler Temp.
Client		
Remarks		
Relinquished By (sign) Consuelo C Bradley	Date / Time 10/30/2023 10:25	Received By (sign) [Signature]
Relinquished By (sign)	Date / Time	Received By (sign)



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 www.waypointanalytical.com

10/30/2023 13:54:21

Export Batch Report

Export Batch Id : 694EXP

W0#: 30635254

PH: NMY Due Date: 11/21/23

CLIENT: WAYPOINT-AL

Created: 10/30/2023 13:47:43

Computer: WPALMS-161

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code	Description
23-299-0005	11/27/2023	10/26/2023 07:45	MW-25	AQU	89541 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	015
23-299-0005	11/27/2023	10/26/2023 09:05	MW-26	AQU	89542 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	016
23-299-0005	11/27/2023	10/26/2023 09:05	MW-26	AQU	89542 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	017
23-299-0005	11/27/2023	10/26/2023 12:00	Field Blank	AQU	89543 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	018
23-299-0005	11/27/2023	10/26/2023 12:00	Field Blank	AQU	89543 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	
23-299-0005	11/27/2023	10/26/2023 12:10	Rinsate Blank	AQU	89544 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	
23-299-0005	11/27/2023	10/26/2023 12:10	Rinsate Blank	AQU	89544 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	
23-299-0005	11/27/2023	10/25/2023	Duplicate	AQU	89608 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	
23-299-0005	11/27/2023	10/25/2023	Duplicate	AQU	89608 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	

Sampled By	Client	Method of Shipment	Blank / Cooler Temp.
Relinquished By (sign)	Consuelo Bradley	Date / Time	10/30/2023 10:25
Relinquished By (sign)		Date / Time	

DC#_Title: ENV-FRM-GBUR-0088 v06_Sample Condition Upon Receipt-
Pittsburgh

Effective Date: 09/20/2023

PM: NMY Due Date: 11/21/23
CLIENT: WAYPOINT-AL

WO# : 30635254

Client Name: Waypoint

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking Number: 1Z9X0Y85014397946412910Y850145363556

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Thermometer Used: 17 Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp 1.8 °C Correction Factor: -0.1 °C Final Temp: 1.7 °C

Temp should be above freezing to 6°C

Examined By: DA 11/1/23
Labeled By: DA 11/1/23
Temped By: DA 10/31/23

Comments:	Yes	No	NA	pH paper Lot# <u>L25-4801</u>	D.P.D. Residual Chlorine Lot # <u>—</u>
Chain of Custody Present	<input checked="" type="checkbox"/>			1.	
Chain of Custody Filled Out: -Were client corrections present on COC	<input checked="" type="checkbox"/>			2.	
Chain of Custody Relinquished	<input checked="" type="checkbox"/>			3.	
Sampler Name & Signature on COC:		<input checked="" type="checkbox"/>		4.	
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>				5.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>			6.	
Short Hold Time Analysis (<72hr remaining):		<input checked="" type="checkbox"/>		7.	
Rush Turn Around Time Requested:		<input checked="" type="checkbox"/>		8.	
Sufficient Volume:	<input checked="" type="checkbox"/>			9.	
Correct Containers Used: -Pace Containers Used <u>DA 11/1/23</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		10.	
Containers Intact:	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	11. <u>DA 11/1/23</u>	
Orthophosphate field filtered:			<input checked="" type="checkbox"/>	12.	
Hex Cr Aqueous samples field filtered:			<input checked="" type="checkbox"/>	13.	
Organic Samples checked for dechlorination			<input checked="" type="checkbox"/>	14.	
Filtered volume received for dissolved tests:			<input checked="" type="checkbox"/>	15.	
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	<input checked="" type="checkbox"/>			16.	
All containers meet method preservation requirements:	<input checked="" type="checkbox"/>			Initial when completed <u>DA</u>	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			<input checked="" type="checkbox"/>	17.	
624.1: Headspace in VOA Vials (0mm)			<input checked="" type="checkbox"/>	18.	
Trip Blank Present:			<input checked="" type="checkbox"/>	Trip blank custody seal present? YES or NO	
Rad Samples Screened <.05 mrem/hr.	<input checked="" type="checkbox"/>			Initial when completed <u>DA</u>	Date: <u>10/31/23</u> Survey Meter SN: <u>25064380</u>
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Shipment Receipt Form

Customer Number: **00001**
 Customer Name: **CDG Engineers Associates**
 Report Number: **23-299-0005**

Shipping Method

Fed Ex US Postal Lab Other :
 UPS Client Courier Thermometer ID:


Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

For Laboratory Use Only

Client Name/Address CDG, Inc		Client Project Manager/Contact Alan Barck		Billing Information		For Laboratory Use Only	
Project Description PowerSouth LowMan		Project/Site Location (City/State) Jackson, AL		<input type="checkbox"/> RUSH - Additional charges apply <input type="checkbox"/> Special Detection Limit(s) <input type="checkbox"/> Date Results Needed		Matrix Key WW - Wastewater GW - Groundwater DW - Drinking Water S - Soil / Solid O - Oil P - Product M - Misc	
Project Number 202223004-005		Project Manager Phone # 334-222-9431		Project Manager Email alan.barck@cdg.com		Site/Facility ID #	
 2790 Whitten Road Memphis, TN 38133 (901) 213-2400		Number of Containers Matrix (Refer to Key) (g)rab or (c)omposite		Method of Shipment <input type="checkbox"/> Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> USPS <input type="checkbox"/> Courier <input type="checkbox"/> Client Drop Off Other		Purchase Order Number	
Sample Identification Date Time Unless noted, all containers per Table II of 40 CFR Part 136.		Required Analysis / Preservative		Matrix Key A Cool < 10C Na2S2O3 (Micro Only) B Cool <= 6C C H2SO4 pH<2 D None Required E NaOH pH>10 F HNO3 pH<2 G HCL pH<2 H H3PO4 pH<2		CDG Engineers Associates 23-299-0005 10-26-2023 15:51:41	
Date Time 10/23 1630 MW-1 10/25 0800 MW-2R 10/25 1310 MW-4R 10/23 1240 MW-3 10/24 1600 MW-5A 10/23 1440 MW-8 10/24 1440 MW-14A 10/26 1110 MW-17 10/24 0915 MW-20 10/24 1320 MW-21		5 GW 1 1 1 1 1 1 1 1 1 1		1-L HNO3 1-P HNO3 1-P None		CDG Engineers Associates 23-299-0007 10-26-2023 15:39:27	
For Laboratory Use Only Lab Comments		Sampled by (Name - Print) Grant Maxcun		Client Remarks/Comments		Received by: (SIGNATURE) Date Time 10/26/23 1525	
Ice Y / N		Relinquished By: (SIGNATURE) [Signature]		Received by: (SIGNATURE) Date Time		Date Time	
Custody Seals Y / N		Relinquished by: (SIGNATURE) [Signature]		Received by: (SIGNATURE) Date Time		Date Time	
Blank/Cooler Temp		Relinquished by: (SIGNATURE)		Received by: (SIGNATURE) Date Time		Date Time	

11/13/2023

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL, 36420

Ref: Analytical Testing
Lab Report Number: 23-292-0001
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Dear Mr. Alan Barck:

Waypoint Analytical, LLC (Andalusia) received sample(s) on 10/19/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

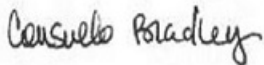
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Consuelo C Bradley

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	SC #84002
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #80215	PA DEP #68-03195

Sample Summary Table

Report Number: 23-292-0001
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
89323	MW-6	Aqueous	10/17/2023 09:50	10/19/2023 13:00	EPA-903.1	
89323	MW-6	Aqueous	10/17/2023 09:50	10/19/2023 13:00	EPA-904.0	
89324	MW-7	Aqueous	10/18/2023 08:20	10/19/2023 13:00	EPA-903.1	
89324	MW-7	Aqueous	10/18/2023 08:20	10/19/2023 13:00	EPA-904.0	
89325	MW-9	Aqueous	10/19/2023 08:15	10/19/2023 13:00	EPA-904.0	
89325	MW-9	Aqueous	10/19/2023 08:15	10/19/2023 13:00	EPA-903.1	
89326	MW-10	Aqueous	10/18/2023 09:30	10/19/2023 13:00	EPA-903.1	
89326	MW-10	Aqueous	10/18/2023 09:30	10/19/2023 13:00	EPA-904.0	
89327	MW-11	Aqueous	10/18/2023 13:20	10/19/2023 13:00	EPA-904.0	
89327	MW-11	Aqueous	10/18/2023 13:20	10/19/2023 13:00	EPA-903.1	
89328	MW-12A	Aqueous	10/17/2023 07:40	10/19/2023 13:00	EPA-904.0	
89328	MW-12A	Aqueous	10/17/2023 07:40	10/19/2023 13:00	EPA-903.1	
89329	MW-13A	Aqueous	10/17/2023 15:55	10/19/2023 13:00	EPA-904.0	
89329	MW-13A	Aqueous	10/17/2023 15:55	10/19/2023 13:00	EPA-903.1	
89330	MW-14B	Aqueous	10/18/2023 15:20	10/19/2023 13:00	EPA-903.1	
89330	MW-14B	Aqueous	10/18/2023 15:20	10/19/2023 13:00	EPA-904.0	
89331	MW-15	Aqueous	10/17/2023 13:45	10/19/2023 13:00	EPA-904.0	
89331	MW-15	Aqueous	10/17/2023 13:45	10/19/2023 13:00	EPA-903.1	
89332	MW-16	Aqueous	10/17/2023 14:55	10/19/2023 13:00	EPA-904.0	
89332	MW-16	Aqueous	10/17/2023 14:55	10/19/2023 13:00	EPA-903.1	
89333	MW-18	Aqueous	10/19/2023 09:20	10/19/2023 13:00	EPA-904.0	
89333	MW-18	Aqueous	10/19/2023 09:20	10/19/2023 13:00	EPA-903.1	
89334	MW-19	Aqueous	10/17/2023 11:30	10/19/2023 13:00	EPA-904.0	
89334	MW-19	Aqueous	10/17/2023 11:30	10/19/2023 13:00	EPA-903.1	



November 10, 2023

Ms. Consuelo Bradley
Waypoint Analytical LLC-AL
107A Northside Office Park Dr.
Andalusia, AL 36421

RE: Project: 23-292-0001
Pace Project No.: 30634510

Dear Ms. Bradley:

Enclosed are the analytical results for sample(s) received by the laboratory on October 24, 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,

Nikayla M. Yasurek
nikayla.yasurek@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Ms. Kim Stricklan, Waypoint Analytical LLC-AL



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 23-292-0001
 Pace Project No.: 30634510

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
 ANAB DOD-ELAP Rad Accreditation #: L2417
 ANABISO/IEC 17025:2017 Rad Cert#: L24170
 Alabama Certification #: 41590
 Arizona Certification #: AZ0734
 Arkansas Certification
 California Certification #: 2950
 Colorado Certification #: PA01547
 Connecticut Certification #: PH-0694
 EPA Region 4 DW Rad
 Florida/TNI Certification #: E87683
 Georgia Certification #: C040
 Guam Certification
 Hawaii Certification
 Idaho Certification
 Illinois Certification
 Indiana Certification
 Iowa Certification #: 391
 Kansas Certification #: E-10358
 Kentucky Certification #: KY90133
 KY WW Permit #: KY0098221
 KY WW Permit #: KY0000221
 Louisiana DHH/TNI Certification #: LA010
 Louisiana DEQ/TNI Certification #: 04086
 Maine Certification #: 2023021
 Maryland Certification #: 308
 Massachusetts Certification #: M-PA1457
 Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
 Montana Certification #: Cert0082
 Nebraska Certification #: NE-OS-29-14
 Nevada Certification #: PA014572023-03
 New Hampshire/TNI Certification #: 297622
 New Jersey/TNI Certification #: PA051
 New Mexico Certification #: PA01457
 New York/TNI Certification #: 10888
 North Carolina Certification #: 42706
 North Dakota Certification #: R-190
 Ohio EPA Rad Approval: #41249
 Oregon/TNI Certification #: PA200002-015
 Pennsylvania/TNI Certification #: 65-00282
 Puerto Rico Certification #: PA01457
 Rhode Island Certification #: 65-00282
 South Dakota Certification
 Tennessee Certification #: TN02867
 Texas/TNI Certification #: T104704188-22-18
 Utah/TNI Certification #: PA014572223-14
 USDA Soil Permit #: 525-23-67-77263
 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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 23-292-0001
Pace Project No.: 30634510

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30634510001	23-292-0001 MW-6	Water	10/17/23 09:50	10/24/23 10:00
30634510002	23-292-0001 MW-7	Water	10/18/23 08:20	10/24/23 10:00
30634510003	23-292-0001 MW-9	Water	10/19/23 08:15	10/24/23 10:00
30634510004	23-292-0001 MW-10	Water	10/18/23 09:30	10/24/23 10:00
30634510005	23-292-0001 MW-11	Water	10/18/23 13:20	10/24/23 10:00
30634510006	23-292-0001 MW-12A	Water	10/17/23 07:40	10/24/23 10:00
30634510007	23-292-0001 MW-13A	Water	10/17/23 15:55	10/24/23 10:00
30634510008	23-292-0001 MW-14B	Water	10/18/23 15:20	10/24/23 10:00
30634510009	23-292-0001 MW-15	Water	10/17/23 13:45	10/24/23 10:00
30634510010	23-292-0001 MW-16	Water	10/17/23 14:55	10/24/23 10:00
30634510011	23-292-0001 MW-18	Water	10/19/23 09:20	10/24/23 10:00
30634510012	23-292-0001 MW-19	Water	10/17/23 11:30	10/24/23 10:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 23-292-0001
 Pace Project No.: 30634510

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30634510001	23-292-0001 MW-6	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634510002	23-292-0001 MW-7	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634510003	23-292-0001 MW-9	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634510004	23-292-0001 MW-10	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634510005	23-292-0001 MW-11	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634510006	23-292-0001 MW-12A	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634510007	23-292-0001 MW-13A	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634510008	23-292-0001 MW-14B	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634510009	23-292-0001 MW-15	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634510010	23-292-0001 MW-16	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634510011	23-292-0001 MW-18	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
30634510012	23-292-0001 MW-19	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 23-292-0001
Pace Project No.: 30634510

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
PASI-PA = Pace Analytical Services - Greensburg					

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-292-0001
Pace Project No.: 30634510

Method: EPA 903.1
Description: 903.1 Radium 226
Client: Waypoint Analytical LLC-AL
Date: November 10, 2023

General Information:

12 samples were analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-292-0001
Pace Project No.: 30634510

Method: EPA 904.0
Description: 904.0 Radium 228
Client: Waypoint Analytical LLC-AL
Date: November 10, 2023

General Information:

12 samples were analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-292-0001
Pace Project No.: 30634510

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: Waypoint Analytical LLC-AL
Date: November 10, 2023

General Information:

12 samples were analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-292-0001
 Pace Project No.: 30634510

Sample: 23-292-0001 MW-6		Lab ID: 30634510001	Collected: 10/17/23 09:50	Received: 10/24/23 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	0.727 ± 0.731 (1.14) C:NA T:93%	pCi/L	11/10/23 14:47	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.239 ± 0.323 (0.688) C:75% T:80%	pCi/L	11/07/23 12:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.966 ± 1.05 (1.83)	pCi/L	11/10/23 16:40	7440-14-4	

Sample: 23-292-0001 MW-7		Lab ID: 30634510002	Collected: 10/18/23 08:20	Received: 10/24/23 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.166 ± 0.728 (1.51) C:NA T:90%	pCi/L	11/10/23 14:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.533 ± 0.378 (0.726) C:77% T:83%	pCi/L	11/07/23 12:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.533 ± 1.11 (2.24)	pCi/L	11/10/23 16:40	7440-14-4	

Sample: 23-292-0001 MW-9		Lab ID: 30634510003	Collected: 10/19/23 08:15	Received: 10/24/23 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	2.65 ± 1.21 (1.28) C:NA T:86%	pCi/L	11/10/23 14:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.800 ± 0.428 (0.764) C:76% T:82%	pCi/L	11/07/23 12:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	3.45 ± 1.64 (2.04)	pCi/L	11/10/23 16:40	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-292-0001
 Pace Project No.: 30634510

Sample: 23-292-0001 MW-10		Lab ID: 30634510004	Collected: 10/18/23 09:30	Received: 10/24/23 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	2.89 ± 1.16 (1.20) C:NA T:90%	pCi/L	11/10/23 14:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.421 ± 0.321 (0.627) C:77% T:88%	pCi/L	11/07/23 12:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	3.31 ± 1.48 (1.83)	pCi/L	11/10/23 16:40	7440-14-4	

Sample: 23-292-0001 MW-11		Lab ID: 30634510005	Collected: 10/18/23 13:20	Received: 10/24/23 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.232 ± 0.546 (1.23) C:NA T:90%	pCi/L	11/10/23 14:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.23 ± 0.452 (0.646) C:76% T:87%	pCi/L	11/07/23 12:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.23 ± 0.998 (1.88)	pCi/L	11/10/23 16:40	7440-14-4	

Sample: 23-292-0001 MW-12A		Lab ID: 30634510006	Collected: 10/17/23 07:40	Received: 10/24/23 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.191 ± 0.749 (1.59) C:NA T:87%	pCi/L	11/10/23 14:08	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.290 ± 0.349 (0.737) C:76% T:86%	pCi/L	11/07/23 12:30	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.290 ± 1.10 (2.33)	pCi/L	11/10/23 16:40	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-292-0001
 Pace Project No.: 30634510

Sample: 23-292-0001 MW-13A		Lab ID: 30634510007	Collected: 10/17/23 15:55	Received: 10/24/23 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No. Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.01 ± 0.981 (1.52)		pCi/L	11/10/23 14:08	13982-63-3
		C:NA T:90%				
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.785 ± 0.489 (0.935)		pCi/L	11/07/23 12:30	15262-20-1
		C:77% T:81%				
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.80 ± 1.47 (2.46)		pCi/L	11/10/23 16:40	7440-14-4

Sample: 23-292-0001 MW-14B		Lab ID: 30634510008	Collected: 10/18/23 15:20	Received: 10/24/23 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No. Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	1.11 ± 1.23 (2.02)		pCi/L	11/10/23 14:08	13982-63-3
		C:NA T:85%				
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.52 ± 0.553 (0.833)		pCi/L	11/07/23 12:30	15262-20-1
		C:77% T:84%				
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.63 ± 1.78 (2.85)		pCi/L	11/10/23 16:40	7440-14-4

Sample: 23-292-0001 MW-15		Lab ID: 30634510009	Collected: 10/17/23 13:45	Received: 10/24/23 10:00	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No. Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 903.1	-0.253 ± 0.439 (1.11)		pCi/L	11/10/23 14:21	13982-63-3
		C:NA T:96%				
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.828 ± 0.465 (0.862)		pCi/L	11/07/23 12:30	15262-20-1
		C:77% T:86%				
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.828 ± 0.904 (1.97)		pCi/L	11/10/23 16:40	7440-14-4

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-292-0001
 Pace Project No.: 30634510

Sample: 23-292-0001 MW-16		Lab ID: 30634510010	Collected: 10/17/23 14:55	Received: 10/24/23 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.385 ± 0.655 (1.16)		pCi/L	11/10/23 14:21	13982-63-3	
		C:NA T:86%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.633 ± 0.450 (0.883)		pCi/L	11/07/23 12:32	15262-20-1	
		C:77% T:87%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.02 ± 1.11 (2.04)		pCi/L	11/10/23 16:40	7440-14-4	

Sample: 23-292-0001 MW-18		Lab ID: 30634510011	Collected: 10/19/23 09:20	Received: 10/24/23 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.270 ± 0.531 (0.969)		pCi/L	11/10/23 14:21	13982-63-3	
		C:NA T:94%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.438 ± 0.394 (0.806)		pCi/L	11/07/23 12:25	15262-20-1	
		C:80% T:85%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.708 ± 0.925 (1.78)		pCi/L	11/10/23 16:40	7440-14-4	

Sample: 23-292-0001 MW-19		Lab ID: 30634510012	Collected: 10/17/23 11:30	Received: 10/24/23 10:00	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 903.1	0.0860 ± 0.446 (0.925)		pCi/L	11/10/23 14:21	13982-63-3	
		C:NA T:86%					
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.123 ± 0.372 (0.832)		pCi/L	11/07/23 12:25	15262-20-1	
		C:76% T:89%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.209 ± 0.818 (1.76)		pCi/L	11/10/23 16:40	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 23-292-0001
 Pace Project No.: 30634510

QC Batch:	626086	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30634510001, 30634510002, 30634510003, 30634510004, 30634510005, 30634510006, 30634510007, 30634510008, 30634510009, 30634510010, 30634510011, 30634510012

METHOD BLANK: 3051716 Matrix: Water

Associated Lab Samples: 30634510001, 30634510002, 30634510003, 30634510004, 30634510005, 30634510006, 30634510007, 30634510008, 30634510009, 30634510010, 30634510011, 30634510012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.276 ± 0.320 (0.670) C:72% T:87%	pCi/L	11/07/23 12:28	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 23-292-0001
 Pace Project No.: 30634510

QC Batch:	626085	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 30634510001, 30634510002, 30634510003, 30634510004, 30634510005, 30634510006, 30634510007, 30634510008, 30634510009, 30634510010, 30634510011, 30634510012

METHOD BLANK:	3051714	Matrix:	Water
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Associated Lab Samples: 30634510001, 30634510002, 30634510003, 30634510004, 30634510005, 30634510006, 30634510007, 30634510008, 30634510009, 30634510010, 30634510011, 30634510012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.311 ± 0.286 (0.168) C:NA T:97%	pCi/L	11/10/23 13:30	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 23-292-0001
Pace Project No.: 30634510

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.

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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107A Northside Office Park Drive, Andalusia, AL 36421
 Main 334.343.9799
 www.waypointanalytical.com

10/23/2023 13:21:54

Export Batch Report **WO# : 30634510**

Export Batch Id : 685EXP

Created: 10/23/2023 13:21:34

Computer: WPALMS-027

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code	Description
23-292-0001	11/16/2023	10/17/2023 09:50	MW-6	AQU	89323 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	001
23-292-0001	11/16/2023	10/17/2023 09:50	MW-6	AQU	89323 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	
23-292-0001	11/16/2023	10/18/2023 08:20	MW-7	AQU	89324 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	002
23-292-0001	11/16/2023	10/18/2023 08:20	MW-7	AQU	89324 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	
23-292-0001	11/16/2023	10/19/2023 08:15	MW-9	AQU	89325 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	003
23-292-0001	11/16/2023	10/19/2023 08:15	MW-9	AQU	89325 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	
23-292-0001	11/16/2023	10/18/2023 09:30	MW-10	AQU	89326 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	004
23-292-0001	11/16/2023	10/18/2023 09:30	MW-10	AQU	89326 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	
23-292-0001	11/16/2023	10/18/2023 13:20	MW-11	AQU	89327 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	005

Sampled By	Client	Method of Shipment	Blank / Cooler Temp.
Remarks	level II reporting		
Relinquished By (sign)	Consuelo Bradley	Date / Time	10/23/2023 0:15:00
Relinquished By (sign)	Consuelo Bradley	Date / Time	10/23/23 10:00

Received by Pace Greensburg
 Them ID 17 Corr Factor +0.0
 Receipt Temp 0.6
 Corrected Temp 0.5
 Correct Preservation Y/N

Received by Pace Greensburg
 Them ID 17 Corr Factor +0.0
 Receipt Temp 2.5
 Corrected Temp 2.4
 Correct Preservation Y/N



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 Main 334.343.9799
 www.waypointanalytical.com

10/23/2023 13:21:54

Export Batch Report

Export Batch Id : 685EXP

W0# : 30634510

PM: NMY Due Date: 11/14/23

CLIENT: WAYPOINT-AL

Created: 10/23/2023 13:21:34

Computer: WPALMS-027

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code	Description
23-292-0001	11/16/2023	10/18/2023 13:20	MW-11	AQU 89327	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	006
23-292-0001	11/16/2023	10/17/2023 07:40	MW-12A	AQU 89328	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	006
23-292-0001	11/16/2023	10/17/2023 07:40	MW-12A	AQU 89328	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	007
23-292-0001	11/16/2023	10/17/2023 15:55	MW-13A	AQU 89329	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	007
23-292-0001	11/16/2023	10/17/2023 15:55	MW-13A	AQU 89329	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	008
23-292-0001	11/16/2023	10/18/2023 15:20	MW-14B	AQU 89330	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	008
23-292-0001	11/16/2023	10/18/2023 15:20	MW-14B	AQU 89330	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	009
23-292-0001	11/16/2023	10/17/2023 13:45	MW-15	AQU 89331	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	009
23-292-0001	11/16/2023	10/17/2023 13:45	MW-15	AQU 89331	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	

Sampled By	Client	Method of Shipment	Blank / Cooler Temp.
Relinquished By (sign)	level II Reporting		
Date / Time	Date / Time	Received By (sign)	Date / Time
10/23/2023 13:50	10/23/2023 10:00	Consuelo C Bradley	10/24/23 10:00
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time



107A Northside Office Park Drive, Andalusia, AL 36421
 Main 334.343.9799
 www.waypointanalytical.com

10/23/2023 13:21:54

Export Batch Report

Export Batch Id : 685EXP

WO#: 30634510

PM: NMY Due Date: 11/14/23

CLIENT: WAYPOINT-AL

Created: 10/23/2023 13:21:34

Computer: WPALMS-027

User: Consuelo C Bradley


Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code Description
23-292-0001	11/16/2023	10/17/2023 14:55	MW-16	AQU 89332	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 010
23-292-0001	11/16/2023	10/17/2023 14:55	MW-16	AQU 89332	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-292-0001	11/16/2023	10/19/2023 09:20	MW-18	AQU 89333	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 011
23-292-0001	11/16/2023	10/19/2023 09:20	MW-18	AQU 89333	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-292-0001	11/16/2023	10/17/2023 11:30	MW-19	AQU 89334	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 012
23-292-0001	11/16/2023	10/17/2023 11:30	MW-19	AQU 89334	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)

Sampled By	Client	Method of Shipment	Blank / Cooler Temp.
Relinquished By (sign)	Level II reporting		
Date / Time	Date / Time	Received By (sign)	Date / Time
10/23/2023 15:50	10/23/2023 15:50	Mary Williams Pace	10/24/23 10:00
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time


DC#_ Title: ENV-FRM-GBUR-0088 v06_Sample Condition Upon Receipt- Pittsburgh
WO# : 30634510
 Effective Date: 09/20/2023
 PM: NMY Due Date: 11/14/23
 CLIENT: WAYPOINT-AL

Client Name: Way point

Courier: Fed Ex UPS USPS Client Commercial Pace Other Initial / Date
 Tracking Number: 129X0Y85014343 3597 / 129X0Y85014343 3597 Examined By: TM 10/30/23
 Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No Labeled By: TM 10/30/23
 Thermometer Used: 17 Type of Ice: Wet Blue None Temped By: TM 10/24/23
 Cooler Temperature: Observed Temp 2.5 °C Correction Factor: -0.1 °C Final Temp: 2.4 °C
 Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot# <u>LPS-4801</u>	D.P.D. Residual Chlorine Lot # <u> </u>
Chain of Custody Present	<input checked="" type="checkbox"/>			1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>			2.	
-Were client corrections present on COC		<input checked="" type="checkbox"/>			
Chain of Custody Relinquished	<input checked="" type="checkbox"/>			3.	
Sampler Name & Signature on COC:		<input checked="" type="checkbox"/>		4.	
Sample Labels match COC:	<input checked="" type="checkbox"/>			5.	
-Includes date/time/ID Matrix:					
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>			6.	
Short Hold Time Analysis (<72hr remaining):		<input checked="" type="checkbox"/>		7.	
Rush Turn Around Time Requested:		<input checked="" type="checkbox"/>		8.	
Sufficient Volume:	<input checked="" type="checkbox"/>			9.	
Correct Containers Used:	<input checked="" type="checkbox"/>			10.	
-Pace Containers Used		<input checked="" type="checkbox"/>			
Containers Intact:	<input checked="" type="checkbox"/>			11.	
Orthophosphate field filtered:			<input checked="" type="checkbox"/>	12.	
Hex Cr Aqueous samples field filtered:			<input checked="" type="checkbox"/>	13.	
Organic Samples checked for dechlorination			<input checked="" type="checkbox"/>	14.	
Filtered volume received for dissolved tests:			<input checked="" type="checkbox"/>	15.	
All containers checked for preservation:	<input checked="" type="checkbox"/>			16.	
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix					
All containers meet method preservation requirements:	<input checked="" type="checkbox"/>			Initial when completed <u>TM</u>	Date/Time of Preservation
				Lot# of added Preservative	
8260C/D: Headspace in VOA Vials (> 6mm)			<input checked="" type="checkbox"/>	17.	
624.1: Headspace in VOA Vials (0mm)			<input checked="" type="checkbox"/>	18.	
Trip Blank Present:			<input checked="" type="checkbox"/>	Trip blank custody seal present? YES or NO	
Rad Samples Screened <.05 mrem/hr.	<input checked="" type="checkbox"/>			Initial when completed <u>TM</u>	Date: <u>10/24/23</u> Survey Meter SN: <u>25014380</u>
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Client _____ Profile Number 11627
 Site 685FX Page 1 of 1 Notes _____

Sample Line Item	Amber Glass						Plastic						Vials						Other										
	Matrix	AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WG9U	WG9T	WG9U	WGKU	ZPLC	GCUB	GJN	12GN	GN	BG1U
11							2																						

Container Codes

Glass	
GJN	1 Gallon Jug with HNO3
AG5U	100mL amber glass unpreserved
AG5T	100mL amber glass Na Thiosulfate
GJN	1 Gallon Jug
AG1S	1L amber glass H2SO4
AG1H	1L amber glass HCl
AG1T	1L amber glass NA Thiosulfate
BG1U	1L clear glass unpreserved
AG3S	250mL amber glass H2SO4
AG3U	250mL amber glass unpreserved
DG9S	40mL amber VOA vial H2SO4
VG9U	40mL clear VOA vial
VG9T	40mL clear VOA vial Na Thiosulfate
VG9H	40mL clear VOA vial HCl
JGFU	4oz amber wide jar
WGFU	4oz wide jar unpreserved
BG2U	500mL clear glass unpreserved
AG2U	500mL amber glass unpreserved
WGKU	8oz wide jar unpreserved
GN	General

Plastic/Misc.	
GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250mL plastic NAOH
	500mL plastic H2SO4
	500mL plastic unpreserved
EZI	5g Encore
VOAK	Kit Volatile Solid
I	Wipe/Swab
ZPLC	Siploc Bag
WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe

WO#: 30634510

PH: NMY Due Date: 11/14/23
 CLIENT: WAYPOINT-AL

Shipment Receipt Form

Customer Number: **00001**

Customer Name: **CDG Engineers Associates**

Report Number: **23-292-0001**

Shipping Method

<input type="radio"/> Fed Ex	<input type="radio"/> US Postal	<input type="radio"/> Lab	<input type="radio"/> Other :	<input type="text"/>
<input type="radio"/> UPS	<input checked="" type="radio"/> Client	<input type="radio"/> Courier	Thermometer ID:	<input type="text"/>

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

For Laboratory Use Only

Billing Information

Client Project Manager/Contact

Client Name/Address

Method of Shipment
 Fed Ex UPS USPS
 Courier Client Drop Off
 Other _____

Matrix Key
 WW - Wastewater GW - Groundwater
 DW - Drinking Water S - Soil / Solid O - Oil
 P - Product M - Misc

RUSH - Additional charges apply
 Special Detection Limit(s)
 Date Results Needed

Project/Site Location (City/State)

Project Description

Purchase Order Number

Project Manager Phone #

Project Number

Project Manager Email



2790 Whitten Road
 Memphis, TN 38133
 (901) 213-2400

Project Manager Email
 alan.barck@edge.com

Unless noted, all containers
 per Table II of 40 CFR Part
 136.

Sample Identification

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(g)rab or (C)omposite	Required Analysis / Preservative
10/17	0950	MW-6	5	GW	G	Metals 1-qt HNO3 TDS None 1-qt
10/18	0820	MW-7	1			
10/19	0815	MW-9	1			
10/18	0930	MW-10	1			
10/18	1320	MW-11	1			
10/17	0740	MW-12A	1			
10/17	1555	MW-13A	1			
10/18	1520	MW-14B	1			
10/17	1345	MW-15	1			
10/17	1455	MW-16	1			

For Laboratory Use Only

Client Remarks/Comments

Sampled by (Name - Print)

Date 10/17/2023
Ice Y/N
Custody Seals Y/N
Blank/Cooler Temp

Lab Comments
 Grant Marcum
 Relinquished by: (SIGNATURE)
 Relinquished by: (SIGNATURE)
 Relinquished by: (SIGNATURE)

Date Time 10/17/23 1230
Date Time 10/19/23 1230
Date Time

Received by: (SIGNATURE)
 Condele Powley-WPA AL
Received by: (SIGNATURE)
Received by: (SIGNATURE)

Date Time 10/19/23 1300
Date Time
Date Time

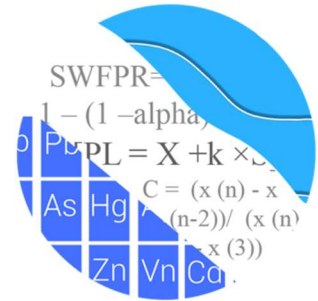
CDG Engineers Associates
 23-292-0001
 10-19-2023
 13:28:24

CDG Engineers Associates
 23-292-0002
 10-19-2023
 13:46:10

APPENDIX G
STATISTICAL EVALUATION OF
GROUNDWATER DATA



GROUNDWATER STATS CONSULTING



February 5, 2024

CDG Engineers & Associates, Inc.
Attn: Mr. Alan Barck
1840 East Three Notch Street
Andalusia, AL 36421

RE: Lowman Power Plant – October 2023 Statistical Analysis

Dear Mr. Barck,

Groundwater Stats Consulting, formerly the statistical consulting division at Sanitas Technologies, is pleased to provide the Detection and Assessment Monitoring statistical analysis of the October 2023 groundwater data at the Power South Energy Cooperative's Lowman Power Plant for the Coal Combustion Residuals (CCR) program. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015) as well as with the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

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

The monitoring well network consists of the following wells:

- Upgradient: MW-1, MW-2, and MW-2R
- Downgradient wells: MW-3, MW-4, MW-4R, MW-5, MW-5A, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-12, MW-12A, MW-13, MW-13A, MW-14, MW-14A, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, and MW-26
- Delineation Well: MW-14B

Sampling began for the CCR program in March 2016 for all wells except those discussed below. Sampling began in August 2016 for wells MW-5A, MW-12A and MW-14A; in April 2019 for wells MW-3, MW-13A and wells MW-15 through MW-23; June 2020 for wells MW-24, MW-25, and MW-26; and in September 2021 for delineation well MW-14B.

Downgradient wells MW-24, MW-25, and MW-26 currently have a minimum of 8 samples and, therefore, data are evaluated using prediction limits for Appendix III constituents and confidence intervals for Appendix IV constituents. Additionally, data from delineation well MW-14B are plotted on the time series graphs and box plots, as well as evaluated for Appendix IV constituents using confidence intervals as a minimum of 4 samples is available. Data from downgradient wells MW-5, MW-12, MW-13, and MW-14 are also plotted on time series, box plots, and confidence intervals; however, no Appendix III statistical analyses are included since these wells were not sampled during this event.

Note that upgradient well MW-2 has been replaced with well MW-2R and downgradient well MW-4 has been replaced with well MW-4R. When a minimum of two samples are available from upgradient well MW-2R data will be included in the construction of interwell limits. While the original wells are no longer sampled, data from upgradient well MW-2 continue to be included in interwell limits as the data represent historical conditions upgradient of the site. Confidence intervals will continue to be constructed on downgradient well MW-4 until sufficient data are available from replacement well MW-4R to determine whether data from both wells are similar and may be combined.

Once a minimum of 4 samples are collected from both replacement wells, the Mann-Whitney (Wilcoxon Rank Sum) test will be used to compare the median of historical data from original wells to the median of new compliance samples at each replacement well to determine whether data may be combined for future analyses.

The following constituents were evaluated:

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

Time series and box plots are provided for all wells for the parameters listed above (Figures A and B, respectively). The time series plots display concentrations over time for each well while the box plots provide visual representation of variation within a given well and across all wells. Note that when there are no detections present in downgradient wells for a given Appendix IV constituent, statistical analyses are not required. A list of

downgradient well/constituent pairs with 100% non-detects follows this letter. Also note that the reporting limit for some wells during this sample event was higher than historical reporting limits for antimony, beryllium, cadmium, chromium, cobalt, lead, selenium, and thallium. Therefore, the historical reporting limit of 0.001 mg/L was substituted for each of these constituents for statistical analyses.

In earlier analyses as discussed below, 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. A power curve is provided 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. The power curve is based on the following statistical method for 7 Appendix III constituents and 28 downgradient wells:

Statistical Method

- Interwell Prediction limits based on 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. Non-detects are handled as follows:

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to natural processes and 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 such changes. In the interwell case, prediction limits are updated with upgradient well data after each sampling event with 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.

Historical Summary of the Appendix III Background Evaluation - 2017

Outlier Screening and Trend Tests

During the October 2017 statistical analysis, time series plots were used to initially screen proposed background for suspected outliers, trends, and seasonal patterns. Outliers and trends in background data result in increased variation and can produce statistical limits that are not representative of current unimpacted conditions or are not conservative from a regulatory perspective. Outliers may be identified either visually or by Tukey's boxplot method. When outliers are confirmed, these values are flagged in the computer database with "o" in order to deselect prior to construction of statistical limits. Flagged values also appear as a disconnected, lighter symbol on the time series graphs. There are no outliers flagged in the current data set (Figure C). All results of the screening were submitted with the October 2017 report.

Data were further evaluated through the Analysis of Variance test to determine whether observed variation among upgradient wells is statistically significant and guide the decision logic for determining an appropriate statistical limit. Interwell prediction limits are used to analyze all Appendix III constituents. Box plots were included to provide visual representation of variation within individual wells and between all wells.

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

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

The results of the trend analyses in 2017 showed a statistically significant decreasing trend for pH in well MW-9, and statistically significant increasing trends for calcium and TDS in well MW-9. The trend in pH was relatively low in magnitude when compared to average concentrations, and the increasing trends in calcium and TDS do not affect the interwell limits; therefore, no adjustments were made to the data sets. However, if intrawell limits were to be used in the future, those trends would require further consideration. No other statistically significant trends were identified at that time for any of the Appendix III parameters.

Statistical Analysis Appendix III Constituents – October 2023

Outlier Analysis

Prior to performing interwell prediction limits, data from pooled upgradient wells through October 2023 were tested for outliers using Tukey's outlier test (Figure C). No outliers were identified. When measurements are identified as outliers, values may be flagged with "o" and excluded to reduce variation and better represent background conditions.

Trend Test Evaluation

The Sen's Slope/Mann-Kendall trend test was used to evaluate Appendix III constituents at upgradient wells to determine whether concentrations are statistically increasing,

decreasing or stable at the 99% confidence level (Figure D). Statistically significant trends were identified for the following upgradient well/constituent pairs:

Increasing:

- Calcium: MW-1
- Fluoride MW-1
- Sulfate: MW-2
- TDS: MW-1

Decreasing:

- None

Although statistically significant increasing trends were identified for calcium, fluoride, sulfate, and TDS, no records required adjustment as the magnitude of the slope is low relative to average concentrations. Therefore, all available data from upgradient wells were used to construct interwell prediction limits for Appendix III parameters. As more data are collected, all upgradient well data will be periodically re-evaluated for possible deselection of earlier measurements if concentrations no longer represent present-day groundwater quality conditions.

Interwell Prediction Limits

Interwell prediction limits were constructed as recommended in the CCR Rule (2015) and in the EPA Unified Guidance (2009), based on a 1-of-2 resample plan using pooled upgradient well data from wells MW-1 and MW-2 for boron, calcium, chloride, fluoride, pH, sulfate, and TDS (Figure E). Where interwell statistical methods are used, it is appropriate to update the pooled upgradient background data set following each sampling event after screening for any new outliers.

The October 2023 sample from each downgradient well was compared to the interwell prediction limits. In the event of an initial exceedance of compliance well data, a resample may be collected to determine whether the initial exceedance is confirmed, in which case a statistically significant increase (SSI) is identified. If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and therefore, no further action is necessary. If no resample is collected, the initial exceedance is considered a confirmed SSI.

Exceedances were noted for several well/constituent pairs. A summary table of well/constituent pairs found to exceed their respective limits follows this letter along with the graphical results.

For well/constituent pairs that exceeded their respective prediction limits, the Sen's Slope/Mann-Kendall trend test is performed using 99% confidence and evaluates all measurements within a well to monitor whether concentration levels are increasing, decreasing, or stabilizing over time (Figure F). The upgradient well data are included as a reference in order to evaluate whether similar conditions exist upgradient of the facility. Several statistically significant decreasing and increasing trends were noted for upgradient and downgradient wells. The Trend Test Summary Table follows this letter along with the graphical results.

Statistical Analysis Appendix IV Constituents – October 2023

Appendix IV – Assessment Monitoring Program

While the ANOVA is used to evaluate spatial variation and assist in determining whether intrawell or interwell prediction limits are the most appropriate statistical method for evaluation of Appendix III parameters, it is not required for evaluation of Appendix IV parameters. The CCR-Rule (2015) and the EPA Unified Guidance (2009) provide guidance that specifies the statistical methodology for parameters analyzed in an assessment monitoring program. The specified methodology is based on statistical comparison of downgradient average (mean or median) concentrations for each well/constituent to a Groundwater Protection Standard (GWPS) for each Appendix IV constituent. The GWPS is either a regulatory standard (defined below) or a statistically defined upper limit on expected background concentrations for a given constituent across all upgradient wells.

Outlier Analysis

Tukey's outlier test on pooled upgradient well data was used to evaluate Appendix IV constituents, but no values were identified as outliers (Figure C). As mentioned above, any flagged data are displayed in a lighter font and as a disconnected symbol on the time series reports, as well as in a lighter font on the accompanying data pages. When measurements are flagged as outliers, a summary table of all flagged outliers will be included with the report.

Trend Test Evaluation

The Sen's Slope/Mann-Kendall trend test was used to evaluate Appendix IV constituents at upgradient wells to determine whether concentrations are statistically increasing, decreasing or stable at the 99% confidence level (Figure D). Statistically significant trends were identified for the following upgradient well/constituent pairs:

Increasing:

- Arsenic: MW-1
- Barium: MW-1
- Fluoride MW-1

Decreasing:

- Cobalt: MW-2

Although statistically significant trends were identified, no records were adjusted since the Maximum Contaminant Limit (MCL) is higher than background limits for arsenic, barium, and fluoride. In the case of cobalt, the magnitude of the slope is low relative to average concentrations. Therefore, all available data from upgradient wells were used to construct interwell tolerance limits for all Appendix IV parameters. As more data are collected, all upgradient well data will be re-evaluated for possible deselection of earlier measurements if concentrations no longer represent present-day groundwater quality conditions.

Interwell Upper Tolerance Limits

Background limits were determined using tolerance limits constructed from pooled upgradient well data through October 2023 (Figure G). The tolerance limits contain a known fraction (coverage) of the background population with a known level of confidence. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. As requested by ADEM to eliminate variation among upgradient well data, nonparametric tolerance limits, which use the highest value in screened background as the statistical limit, were constructed. A summary table of the upper tolerance limits follows this letter.

These limits are compared to regulatory standards for the Appendix IV parameters, and the resulting Groundwater Protection Standard (GWPS) is the higher of the two limits. The tolerance limits were updated during this analysis as described below and will be updated again during the Fall 2025 analysis.

Groundwater Protection Standards

These background limits were compared to the Maximum Contaminant Levels (MCLs) and CCR Rule-Specified levels as shown in the Groundwater Protection Standard (GWPS) table following this letter to determine the highest limit for use as the GWPS in the Confidence Interval comparisons.

The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. A summary of the tolerance limits follows this letter. These limits were then used when determining the GWPS under 40 CFR 257.95(h) and Alabama Department of Environmental Management (ADEM) Admin. Code r. 335-13-15-.06(6)(h).

As described in 40 CFR 257.95(h)(1-3) the GWPS is based on the following:

- 1) The maximum contaminant level established under 141.62 and 141.66 of this title (the "MCL");
- 2) Where an MCL has not been established, rule-specified levels as follows:
 - a. Cobalt – 0.006 mg/L
 - b. Lead – 0.015 mg/L
 - c. Lithium – 0.04 mg/L
 - d. Molybdenum 0.1 mg/L

Regarding #2 above, the USEPA revised the Federal CCR Rule on July 30, 2018 and updated the GWPS for cobalt, lead, lithium, and molybdenum as described in 40 CFR 257.95(h)(2). These limits have also been incorporated under ADEM Chapter 335-13-15, Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments.

Following the above referenced federal and state requirements, GWPS have been established for the statistical evaluation of the Appendix IV constituents. The GWPS table following this letter provides a summary of the limits established for the Appendix IV parameters (Figure H).

Confidence Intervals

Confidence intervals were then constructed on downgradient wells using a maximum of the most recent 8 samples through October 2023 for each of the Appendix IV parameters (Figure I). These intervals were either parametric or nonparametric confidence intervals

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 as interval limits when $n \leq 8$, 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.

As mentioned above, well/constituent pairs containing 100% non-detects did not require statistics and were deselected prior to construction confidence intervals. A list of deselected well/constituent pairs also follows this report. Each confidence interval was compared with the corresponding GWPS. Only when the entire confidence interval is above the GWPS is the well/constituent pair considered to exceed its respective standard. Both a tabular summary and graphical presentation of the confidence interval results follow this letter. The following confidence interval exceedances were noted:

- Arsenic: MW-17, MW-20, and MW-23
- Cobalt: MW-3, MW-4, MW-5, MW-14, MW-14A, and MW-17
- Lithium: MW-5A, MW-7, MW-11, MW-14B, MW-17, MW-23, MW-24, and MW-25

Trend Tests – Confidence Interval Exceedances

For well/constituent pairs that exceeded their respective prediction limits, the Sen's Slope/Mann-Kendall trend test is performed using 95% confidence and evaluates all measurements within a well to monitor whether concentration levels are increasing, decreasing, or stabilizing over time (Figure J). Utilizing the 95% confidence level for trend tests readily identifies significant trends and is more sensitive than the 99% confidence level without drastically increasing the false negative rate. Upgradient wells are included in the trend analyses for all parameters found to exceed their confidence intervals in downgradient wells. When similar patterns exist upgradient of the site, it is an indication of variability in groundwater which may be unrelated to practices at the site. The following statistically significant decreasing and increasing trends were noted for upgradient and downgradient wells:

Increasing:

- Arsenic: MW-1 (upgradient)

Decreasing:

- Arsenic: MW-20
- Cobalt: MW-2 (upgradient), MW-4, and MW-14A
- Lithium: MW-5A, MW-7, MW-11, MW-17, MW-23, and MW-24

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality at the Lowman Power Plant. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

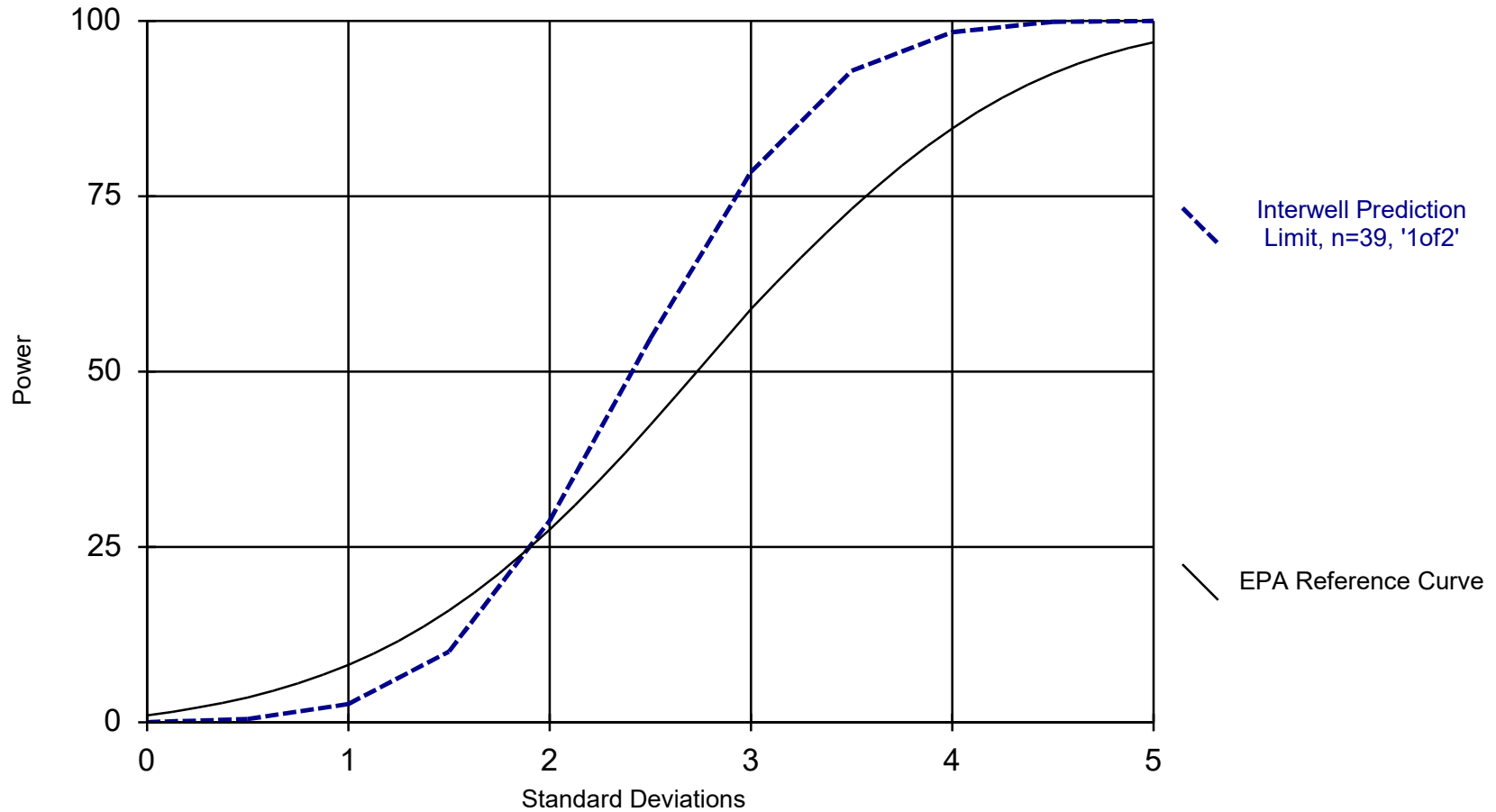


Kristina L. Rayner
Senior Statistician



Andrew T. Collins
Project Manager

Power Curve



Kappa = 2.335, based on 28 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 1/16/2024 7:16 PM

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

100% Non-Detects

Analysis Run 1/16/2024 6:30 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Antimony (mg/L)

MW-10, MW-11, MW-12, MW-12A, MW-13, MW-13A, MW-14, MW-14A, MW-14B, MW-15, MW-16, MW-17, MW-19, MW-20, MW-21, MW-22, MW-23, MW-3, MW-4, MW-5, MW-5A, MW-6, MW-7, MW-8, MW-9

Arsenic (mg/L)

MW-10, MW-12, MW-19

Beryllium (mg/L)

MW-11, MW-12, MW-12A, MW-13, MW-13A, MW-14, MW-14A, MW-14B, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-3, MW-5, MW-5A, MW-6, MW-7, MW-8, MW-9

Cadmium (mg/L)

MW-11, MW-12, MW-12A, MW-13, MW-13A, MW-14, MW-14B, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-3, MW-4, MW-5, MW-5A, MW-6, MW-7, MW-8, MW-9

Chromium (mg/L)

MW-14, MW-14A, MW-14B, MW-17, MW-22, MW-23, MW-4, MW-5, MW-5A, MW-6, MW-7, MW-8, MW-9

Cobalt (mg/L)

MW-11, MW-12, MW-14B, MW-9

Fluoride, total (mg/L)

MW-12, MW-12A, MW-13A, MW-14B, MW-15, MW-19

Lead (mg/L)

MW-11, MW-12, MW-12A, MW-13, MW-13A, MW-14, MW-14A, MW-14B, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-5, MW-5A, MW-6, MW-7, MW-8, MW-9

Lithium (mg/L)

MW-13, MW-14, MW-18, MW-20, MW-21, MW-22, MW-5, MW-8, MW-9

Mercury (mg/L)

MW-10, MW-11, MW-12, MW-12A, MW-13, MW-13A, MW-14, MW-14A, MW-14B, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-3, MW-4, MW-5, MW-5A, MW-6, MW-7, MW-8, MW-9

Molybdenum (mg/L)

MW-10, MW-12, MW-13, MW-13A, MW-14A, MW-15, MW-18, MW-19, MW-20, MW-22, MW-4, MW-9

Selenium (mg/L)

MW-11, MW-13A, MW-14A, MW-14B, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-22, MW-23, MW-3, MW-5A, MW-6, MW-8, MW-9

Thallium (mg/L)

MW-10, MW-11, MW-12, MW-12A, MW-13, MW-13A, MW-14, MW-14A, MW-14B, MW-15, MW-16, MW-17, MW-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-3, MW-4, MW-5, MW-5A, MW-6, MW-7, MW-8, MW-9

Trend Tests (Upgradient Wells) - Significant Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/23/2024, 12:54 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	MW-1 (bg)	0.0001861	82	74	Yes	19	15.79	n/a	n/a	0.01	NP
Barium, Total (mg/L)	MW-1 (bg)	0.005196	94	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-1 (bg)	1.397	91	81	Yes	20	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-2 (bg)	-0.0002491	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1 (bg)	0.01377	117	81	Yes	20	45	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-2 (bg)	0.6305	87	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1 (bg)	11.66	87	81	Yes	20	0	n/a	n/a	0.01	NP

Trend Tests (Upgradient Wells) - All Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/23/2024, 12:54 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Antimony (mg/L)	MW-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Antimony (mg/L)	MW-2 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Arsenic (mg/L)	MW-1 (bg)	0.0001861	82	74	Yes	19	15.79	n/a	n/a	0.01	NP
Arsenic (mg/L)	MW-2 (bg)	0	13	68	No	18	94.44	n/a	n/a	0.01	NP
Barium, Total (mg/L)	MW-1 (bg)	0.005196	94	74	Yes	19	0	n/a	n/a	0.01	NP
Barium, Total (mg/L)	MW-2 (bg)	0	-10	-68	No	18	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	MW-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	MW-2 (bg)	0	24	68	No	18	83.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-1 (bg)	-0.004049	-81	-81	No	20	50	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-2 (bg)	-0.00149	-67	-74	No	19	52.63	n/a	n/a	0.01	NP
Cadmium (mg/L)	MW-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	MW-2 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-1 (bg)	1.397	91	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-2 (bg)	0	-8	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-1 (bg)	-0.08531	-48	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-2 (bg)	-0.1119	-28	-74	No	19	21.05	n/a	n/a	0.01	NP
Chromium (mg/L)	MW-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Chromium (mg/L)	MW-2 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-1 (bg)	-0.00003229	-8	-74	No	19	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-2 (bg)	-0.0002491	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	MW-1 (bg)	0.05266	66	81	No	20	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	MW-2 (bg)	0.04616	51	74	No	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1 (bg)	0.01377	117	81	Yes	20	45	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-2 (bg)	0	0	74	No	19	94.74	n/a	n/a	0.01	NP
Lead (mg/L)	MW-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Lead (mg/L)	MW-2 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Lithium (mg/L)	MW-1 (bg)	0	5	74	No	19	84.21	n/a	n/a	0.01	NP
Lithium (mg/L)	MW-2 (bg)	0	15	74	No	19	73.68	n/a	n/a	0.01	NP
Mercury (mg/L)	MW-1 (bg)	0	14	74	No	19	94.74	n/a	n/a	0.01	NP
Mercury (mg/L)	MW-2 (bg)	0	13	68	No	18	94.44	n/a	n/a	0.01	NP
Molybdenum (mg/L)	MW-1 (bg)	0	8	74	No	19	94.74	n/a	n/a	0.01	NP
Molybdenum (mg/L)	MW-2 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
pH, Field (SU)	MW-1 (bg)	0.05343	60	87	No	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-2 (bg)	0.005783	9	81	No	20	0	n/a	n/a	0.01	NP
Selenium (mg/L)	MW-1 (bg)	0	4	74	No	19	94.74	n/a	n/a	0.01	NP
Selenium (mg/L)	MW-2 (bg)	0	20	68	No	18	88.89	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-1 (bg)	0.3046	20	81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-2 (bg)	0.6305	87	74	Yes	19	0	n/a	n/a	0.01	NP
Thallium (mg/L)	MW-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Thallium (mg/L)	MW-2 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1 (bg)	11.66	87	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-2 (bg)	2.386	41	74	No	19	0	n/a	n/a	0.01	NP

Interwell Prediction Limits - Significant Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg	Mear	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MW-10	0.05	n/a	10/18/2023	0.355	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-11	0.05	n/a	10/18/2023	3.31	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-12A	0.05	n/a	10/17/2023	0.57	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-13A	0.05	n/a	10/17/2023	0.123	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-14A	0.05	n/a	10/24/2023	0.953	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-16	0.05	n/a	10/17/2023	0.75	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-17	0.05	n/a	10/26/2023	2.28	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-18	0.05	n/a	10/19/2023	0.117	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-19	0.05	n/a	10/17/2023	0.215	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-20	0.05	n/a	10/24/2023	0.087	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-21	0.05	n/a	10/24/2023	0.291	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-22	0.05	n/a	10/24/2023	0.102	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-23	0.05	n/a	10/25/2023	7.12	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-24	0.05	n/a	10/26/2023	3.11	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-25	0.05	n/a	10/26/2023	13.5	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-26	0.05	n/a	10/26/2023	0.443	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-5A	0.05	n/a	10/24/2023	2.12	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-6	0.05	n/a	10/17/2023	0.296	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-7	0.05	n/a	10/18/2023	0.938	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-8	0.05	n/a	10/23/2023	0.123	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-9	0.05	n/a	10/19/2023	6.61	Yes	39	n/a	n/a	51.28	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	MW-10	44.4	n/a	10/18/2023	67.7	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-11	44.4	n/a	10/18/2023	131	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-12A	44.4	n/a	10/17/2023	105	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-14A	44.4	n/a	10/24/2023	81.1	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-16	44.4	n/a	10/17/2023	74.2	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-17	44.4	n/a	10/26/2023	108	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-21	44.4	n/a	10/24/2023	74.8	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-22	44.4	n/a	10/24/2023	113	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-23	44.4	n/a	10/25/2023	344	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-24	44.4	n/a	10/26/2023	170	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-25	44.4	n/a	10/26/2023	514	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-26	44.4	n/a	10/26/2023	68.4	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-5A	44.4	n/a	10/24/2023	131	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-6	44.4	n/a	10/17/2023	74.6	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-7	44.4	n/a	10/18/2023	58.6	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-8	44.4	n/a	10/23/2023	69.1	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-9	44.4	n/a	10/19/2023	253	Yes	39	n/a	n/a	0	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-10	4	n/a	10/18/2023	60.9	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-11	4	n/a	10/18/2023	14.8	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-12A	4	n/a	10/17/2023	48.5	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-13A	4	n/a	10/17/2023	75.4	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-14A	4	n/a	10/24/2023	63.9	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-15	4	n/a	10/17/2023	4.03	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-16	4	n/a	10/17/2023	41.5	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-17	4	n/a	10/26/2023	98	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-18	4	n/a	10/19/2023	9.71	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-19	4	n/a	10/17/2023	18.9	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-20	4	n/a	10/24/2023	4.92	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-21	4	n/a	10/24/2023	19.8	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-22	4	n/a	10/24/2023	9.93	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-23	4	n/a	10/25/2023	211	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-24	4	n/a	10/26/2023	95.2	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-25	4	n/a	10/26/2023	246	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-26	4	n/a	10/26/2023	21.6	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-5A	4	n/a	10/24/2023	85.5	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-6	4	n/a	10/17/2023	8.26	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-8	4	n/a	10/23/2023	23.8	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-9	4	n/a	10/19/2023	135	Yes	39	n/a	n/a	10.26	n/a	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	MW-11	0.162	n/a	10/18/2023	1.93	Yes	39	n/a	n/a	69.23	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-17	0.162	n/a	10/26/2023	0.94	Yes	39	n/a	n/a	69.23	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-20	0.162	n/a	10/24/2023	0.163	Yes	39	n/a	n/a	69.23	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-23	0.162	n/a	10/25/2023	0.367	Yes	39	n/a	n/a	69.23	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-24	0.162	n/a	10/26/2023	1.55	Yes	39	n/a	n/a	69.23	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-25	0.162	n/a	10/26/2023	0.365	Yes	39	n/a	n/a	69.23	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-5A	0.162	n/a	10/24/2023	1.3	Yes	39	n/a	n/a	69.23	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-7	0.162	n/a	10/18/2023	2.46	Yes	39	n/a	n/a	69.23	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-8	0.162	n/a	10/23/2023	0.206	Yes	39	n/a	n/a	69.23	n/a	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2

Interwell Prediction Limits - Significant Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig. Bg N	Bg Meas	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (SU)	MW-11	6.433	3.701	10/18/2023	6.76	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-20	6.433	3.701	10/23/2023	6.54	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-21	6.433	3.701	10/24/2023	6.84	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-22	6.433	3.701	10/24/2023	6.51	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-23	6.433	3.701	10/25/2023	6.77	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-24	6.433	3.701	10/26/2023	6.53	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-8	6.433	3.701	10/23/2023	6.94	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	MW-10	31.8	n/a	10/18/2023	197	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-11	31.8	n/a	10/18/2023	169	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-12A	31.8	n/a	10/17/2023	247	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-13A	31.8	n/a	10/17/2023	92.7	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-14A	31.8	n/a	10/24/2023	127	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-16	31.8	n/a	10/17/2023	77	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-17	31.8	n/a	10/26/2023	123	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-19	31.8	n/a	10/17/2023	66.9	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-23	31.8	n/a	10/25/2023	768	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-24	31.8	n/a	10/26/2023	372	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-25	31.8	n/a	10/26/2023	1220	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-26	31.8	n/a	10/26/2023	92.8	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-5A	31.8	n/a	10/24/2023	206	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-6	31.8	n/a	10/17/2023	54.1	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-7	31.8	n/a	10/18/2023	37.7	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-9	31.8	n/a	10/19/2023	411	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-10	232	n/a	10/18/2023	378	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-11	232	n/a	10/18/2023	516	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-12A	232	n/a	10/17/2023	518	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-13A	232	n/a	10/17/2023	314	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-14A	232	n/a	10/24/2023	350	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-16	232	n/a	10/17/2023	376	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-17	232	n/a	10/26/2023	526	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-21	232	n/a	10/24/2023	252	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-22	232	n/a	10/24/2023	338	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-23	232	n/a	10/25/2023	1620	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-24	232	n/a	10/26/2023	853	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-25	232	n/a	10/26/2023	2750	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-26	232	n/a	10/26/2023	304	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-5A	232	n/a	10/24/2023	582	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-6	232	n/a	10/17/2023	310	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-7	232	n/a	10/18/2023	236	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-8	232	n/a	10/23/2023	234	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-9	232	n/a	10/19/2023	1130	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MW-10	0.05	n/a	10/18/2023	0.355	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-11	0.05	n/a	10/18/2023	3.31	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-12A	0.05	n/a	10/17/2023	0.57	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-13A	0.05	n/a	10/17/2023	0.123	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-14A	0.05	n/a	10/24/2023	0.953	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-15	0.05	n/a	10/17/2023	0.035	No	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-16	0.05	n/a	10/17/2023	0.75	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-17	0.05	n/a	10/26/2023	2.28	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-18	0.05	n/a	10/19/2023	0.117	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-19	0.05	n/a	10/17/2023	0.215	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-20	0.05	n/a	10/24/2023	0.087	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-21	0.05	n/a	10/24/2023	0.291	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-22	0.05	n/a	10/24/2023	0.102	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-23	0.05	n/a	10/25/2023	7.12	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-24	0.05	n/a	10/26/2023	3.11	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-25	0.05	n/a	10/26/2023	13.5	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-26	0.05	n/a	10/26/2023	0.443	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-3	0.05	n/a	10/23/2023	0.036	No	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-5A	0.05	n/a	10/24/2023	2.12	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-6	0.05	n/a	10/17/2023	0.296	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-7	0.05	n/a	10/18/2023	0.938	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-8	0.05	n/a	10/23/2023	0.123	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-9	0.05	n/a	10/19/2023	6.61	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	MW-10	44.4	n/a	10/18/2023	67.7	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-11	44.4	n/a	10/18/2023	131	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-12A	44.4	n/a	10/17/2023	105	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-13A	44.4	n/a	10/17/2023	30.8	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-14A	44.4	n/a	10/24/2023	81.1	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-15	44.4	n/a	10/17/2023	8.15	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-16	44.4	n/a	10/17/2023	74.2	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-17	44.4	n/a	10/26/2023	108	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-18	44.4	n/a	10/19/2023	32.3	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-19	44.4	n/a	10/17/2023	30.9	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-20	44.4	n/a	10/24/2023	42.8	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-21	44.4	n/a	10/24/2023	74.8	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-22	44.4	n/a	10/24/2023	113	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-23	44.4	n/a	10/25/2023	344	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-24	44.4	n/a	10/26/2023	170	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-25	44.4	n/a	10/26/2023	514	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-26	44.4	n/a	10/26/2023	68.4	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-3	44.4	n/a	10/23/2023	3.92	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-5A	44.4	n/a	10/24/2023	131	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-6	44.4	n/a	10/17/2023	74.6	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-7	44.4	n/a	10/18/2023	58.6	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-8	44.4	n/a	10/23/2023	69.1	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-9	44.4	n/a	10/19/2023	253	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-10	4	n/a	10/18/2023	60.9	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-11	4	n/a	10/18/2023	14.8	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-12A	4	n/a	10/17/2023	48.5	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-13A	4	n/a	10/17/2023	75.4	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-14A	4	n/a	10/24/2023	63.9	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-15	4	n/a	10/17/2023	4.03	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-16	4	n/a	10/17/2023	41.5	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-17	4	n/a	10/26/2023	98	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-18	4	n/a	10/19/2023	9.71	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-19	4	n/a	10/17/2023	18.9	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-20	4	n/a	10/24/2023	4.92	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-21	4	n/a	10/24/2023	19.8	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-22	4	n/a	10/24/2023	9.93	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-23	4	n/a	10/25/2023	211	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-24	4	n/a	10/26/2023	95.2	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-25	4	n/a	10/26/2023	246	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-26	4	n/a	10/26/2023	21.6	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-3	4	n/a	10/23/2023	1.52	No	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-5A	4	n/a	10/24/2023	85.5	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-6	4	n/a	10/17/2023	8.26	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-7	4	n/a	10/18/2023	2.53	No	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-8	4	n/a	10/23/2023	23.8	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride, Total (mg/L)	MW-9	4	n/a	10/19/2023	135	Yes39	n/a	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	MW-10	0.162	n/a	10/18/2023	0.125ND	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-11	0.162	n/a	10/18/2023	1.93	Yes39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-12A	0.162	n/a	10/17/2023	0.125ND	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-13A	0.162	n/a	10/17/2023	0.125ND	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-14A	0.162	n/a	10/24/2023	0.137	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-15	0.162	n/a	10/17/2023	0.125ND	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-16	0.162	n/a	10/17/2023	0.125ND	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-17	0.162	n/a	10/26/2023	0.94	Yes39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-18	0.162	n/a	10/19/2023	0.125ND	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-19	0.162	n/a	10/17/2023	0.125ND	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-20	0.162	n/a	10/24/2023	0.163	Yes39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-21	0.162	n/a	10/24/2023	0.129	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-22	0.162	n/a	10/24/2023	0.125ND	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-23	0.162	n/a	10/25/2023	0.367	Yes39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-24	0.162	n/a	10/26/2023	1.55	Yes39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-25	0.162	n/a	10/26/2023	0.365	Yes39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-26	0.162	n/a	10/26/2023	0.161	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-3	0.162	n/a	10/23/2023	0.157	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-5A	0.162	n/a	10/24/2023	1.3	Yes39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-6	0.162	n/a	10/17/2023	0.125ND	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-7	0.162	n/a	10/18/2023	2.46	Yes39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-8	0.162	n/a	10/23/2023	0.206	Yes39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-9	0.162	n/a	10/19/2023	0.125ND	No 39	n/a	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
pH, Field (SU)	MW-10	6.433	3.701	10/18/2023	4.7	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-11	6.433	3.701	10/18/2023	6.76	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-12A	6.433	3.701	10/17/2023	5.54	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-13A	6.433	3.701	10/17/2023	5.33	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-14A	6.433	3.701	10/24/2023	6.07	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-15	6.433	3.701	10/23/2023	5.34	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-16	6.433	3.701	10/17/2023	5.76	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-17	6.433	3.701	10/16/2023	6.23	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-18	6.433	3.701	10/19/2023	5.9	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-19	6.433	3.701	10/17/2023	4.99	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-20	6.433	3.701	10/23/2023	6.54	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-21	6.433	3.701	10/24/2023	6.84	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-22	6.433	3.701	10/24/2023	6.51	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-23	6.433	3.701	10/25/2023	6.77	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-24	6.433	3.701	10/26/2023	6.53	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-25	6.433	3.701	10/26/2023	6.12	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-26	6.433	3.701	10/26/2023	6.3	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-3	6.433	3.701	10/23/2023	4.94	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-5A	6.433	3.701	10/23/2023	6.36	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-6	6.433	3.701	10/17/2023	6.21	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-7	6.433	3.701	10/18/2023	5.96	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-8	6.433	3.701	10/23/2023	6.94	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
pH, Field (SU)	MW-9	6.433	3.701	10/19/2023	6.15	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2	
Sulfate as SO4 (mg/L)	MW-10	31.8	n/a	10/18/2023	197	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-11	31.8	n/a	10/18/2023	169	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-12A	31.8	n/a	10/17/2023	247	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-13A	31.8	n/a	10/17/2023	92.7	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-14A	31.8	n/a	10/24/2023	127	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-15	31.8	n/a	10/17/2023	18.5	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-16	31.8	n/a	10/17/2023	77	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-17	31.8	n/a	10/26/2023	123	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-18	31.8	n/a	10/19/2023	18.2	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-19	31.8	n/a	10/17/2023	66.9	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-20	31.8	n/a	10/24/2023	0.5ND	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-21	31.8	n/a	10/24/2023	19.4	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-22	31.8	n/a	10/24/2023	0.5ND	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-23	31.8	n/a	10/25/2023	768	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-24	31.8	n/a	10/26/2023	372	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-25	31.8	n/a	10/26/2023	1220	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-26	31.8	n/a	10/26/2023	92.8	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-3	31.8	n/a	10/23/2023	19.4	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-5A	31.8	n/a	10/24/2023	206	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-6	31.8	n/a	10/17/2023	54.1	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	
Sulfate as SO4 (mg/L)	MW-7	31.8	n/a	10/18/2023	37.7	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2	

Interwell Prediction Limits - All Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	MW-8	31.8	n/a	10/23/2023	0.5ND	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-9	31.8	n/a	10/19/2023	411	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-10	232	n/a	10/18/2023	378	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-11	232	n/a	10/18/2023	516	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-12A	232	n/a	10/17/2023	518	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-13A	232	n/a	10/17/2023	314	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-14A	232	n/a	10/24/2023	350	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-15	232	n/a	10/17/2023	68	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-16	232	n/a	10/17/2023	376	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-17	232	n/a	10/26/2023	526	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-18	232	n/a	10/19/2023	148	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-19	232	n/a	10/17/2023	226	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-20	232	n/a	10/24/2023	128	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-21	232	n/a	10/24/2023	252	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-22	232	n/a	10/24/2023	338	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-23	232	n/a	10/25/2023	1620	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-24	232	n/a	10/26/2023	853	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-25	232	n/a	10/26/2023	2750	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-26	232	n/a	10/26/2023	304	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-3	232	n/a	10/23/2023	12.5ND	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-5A	232	n/a	10/24/2023	582	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-6	232	n/a	10/17/2023	310	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-7	232	n/a	10/18/2023	236	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-8	232	n/a	10/23/2023	234	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-9	232	n/a	10/19/2023	1130	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2

Appendix III Trend Test - Significant Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	MW-12A	-0.05812	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-13A	0.006016	58	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-14A	-0.6171	-128	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-16	-0.3863	-71	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-17	-0.6838	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-19	-0.03418	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-5A	-1.693	-132	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-7	-1.191	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-9	0.5489	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-1 (bg)	1.397	91	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-11	-53.95	-94	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-12A	-6.745	-98	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-14A	-19.98	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-16	-15.46	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-17	-21.47	-63	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-5A	-47.15	-122	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-7	-32.26	-140	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-9	46.17	95	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-11	-48.1	-114	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-12A	-6.489	-98	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-13A	7.922	85	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-14A	-27.41	-95	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-15	-1.221	-75	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-16	-18.59	-74	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-17	-22.67	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-5A	-36.46	-120	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-6	-4.934	-159	-81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1 (bg)	0.01377	117	81	Yes	20	45	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-8	0.01642	112	81	Yes	20	5	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-11	-86.96	-84	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-14A	-43.21	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-16	-34.39	-74	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-17	-22.59	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-19	-8.176	-51	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-2 (bg)	0.6305	87	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-5A	-56.25	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-7	-49.68	-131	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-9	91.8	86	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1 (bg)	11.66	87	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-11	-291.2	-98	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-12A	-39.69	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-13A	22.47	51	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-14A	-115.8	-106	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-16	-74.31	-77	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-17	-115.5	-61	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-5A	-240.5	-130	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-7	-131.2	-139	-81	Yes	20	0	n/a	n/a	0.01	NP

Appendix III Trend Test - All Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	MW-1 (bg)	-0.004049	-81	-81	No	20	50	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-10	0.01793	48	81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-11	-0.9332	-69	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-12A	-0.05812	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-13A	0.006016	58	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-14A	-0.6171	-128	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-16	-0.3863	-71	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-17	-0.6838	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-18	-0.007107	-18	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-19	-0.03418	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-2 (bg)	-0.00149	-67	-74	No	19	52.63	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-20	0.003629	29	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-21	0.009379	28	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-22	0.0008597	8	48	No	14	7.143	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-23	-0.292	-18	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-24	-2.349	-18	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-25	-1.209	-10	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-26	0.06738	12	21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-5A	-1.693	-132	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-6	-0.01522	-55	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-7	-1.191	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-8	0.007931	37	81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-9	0.5489	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-1 (bg)	1.397	91	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-10	-4.182	-70	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-11	-53.95	-94	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-12A	-6.745	-98	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-14A	-19.98	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-16	-15.46	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-17	-21.47	-63	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-2 (bg)	0	-8	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-21	-0.3746	-5	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-22	-1.99	-19	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-23	3.147	3	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-24	-103.5	-18	-21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-25	-22.12	-6	-21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-26	4.585	2	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-5A	-47.15	-122	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-6	-1.466	-28	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-7	-32.26	-140	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-8	-0.6797	-38	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-9	46.17	95	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-1 (bg)	-0.08531	-48	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-10	-5.096	-74	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-11	-48.1	-114	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-12A	-6.489	-98	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-13A	7.922	85	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-14A	-27.41	-95	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-15	-1.221	-75	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-16	-18.59	-74	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-17	-22.67	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-18	-0.9134	-46	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-19	-4.011	-48	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-2 (bg)	-0.1119	-28	-74	No	19	21.05	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-20	-1.107	-43	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-21	-2.949	-35	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-22	-2.066	-47	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-23	-12.65	-3	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-24	-81.11	-16	-21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-25	-45.64	-10	-21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-26	5.05	14	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-5A	-36.46	-120	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-6	-4.934	-159	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-8	-3.346	-59	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-9	8.621	28	81	No	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1 (bg)	0.01377	117	81	Yes	20	45	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-11	0.03305	39	81	No	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-17	0.073	13	48	No	14	0	n/a	n/a	0.01	NP

Appendix III Trend Test - All Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride, total (mg/L)	MW-2 (bg)	0	0	74	No	19	94.74	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-20	-0.006003	-15	-48	No	14	28.57	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-23	-0.1747	-15	-48	No	14	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-24	0.2199	10	21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-25	-0.06979	-8	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-5A	-0.03603	-23	-68	No	18	5.556	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-7	0.1397	79	81	No	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-8	0.01642	112	81	Yes	20	5	n/a	n/a	0.01	NP
pH, Field (SU)	MW-1 (bg)	0.05343	60	87	No	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-11	0.04365	113	131	No	28	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-2 (bg)	0.005783	9	81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-20	0.06298	21	48	No	14	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-21	0.1118	30	48	No	14	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-22	0.0367	27	48	No	14	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-23	-0.09434	-35	-48	No	14	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-24	-0.1598	-8	-21	No	8	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-8	0.04977	117	131	No	28	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-1 (bg)	0.3046	20	81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-10	1.085	7	81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-11	-86.96	-84	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-12A	-5.468	-17	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-13A	3.362	45	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-14A	-43.21	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-16	-34.39	-74	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-17	-22.59	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-19	-8.176	-51	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-2 (bg)	0.6305	87	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-23	50.23	18	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-24	-251.7	-16	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-25	-13.16	-3	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-26	19.11	18	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-5A	-56.25	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-6	-1.954	-25	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-7	-49.68	-131	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-9	91.8	86	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1 (bg)	11.66	87	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-10	-21.54	-58	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-11	-291.2	-98	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-12A	-39.69	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-13A	22.47	51	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-14A	-115.8	-106	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-16	-74.31	-77	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-17	-115.5	-61	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-2 (bg)	2.386	41	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-21	2.37	2	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-22	0.9481	3	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-23	23.6	4	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-24	-449	-18	-21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-25	-42.95	-2	-21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-26	28.49	8	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-5A	-240.5	-130	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-6	-8.261	-55	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-7	-131.2	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-8	-9.69	-60	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-9	130.7	62	81	No	20	0	n/a	n/a	0.01	NP

Upper Tolerance Limits

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 1/23/2024, 11:24 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.001	37	n/a	n/a	100	n/a	n/a	0.1499	NP Inter
Arsenic (mg/L)	0.0031	37	n/a	n/a	54.05	n/a	n/a	0.1499	NP Inter
Barium, Total (mg/L)	0.146	37	n/a	n/a	0	n/a	n/a	0.1499	NP Inter
Beryllium (mg/L)	0.001	37	n/a	n/a	91.89	n/a	n/a	0.1499	NP Inter
Cadmium (mg/L)	0.001	37	n/a	n/a	100	n/a	n/a	0.1499	NP Inter
Chromium (mg/L)	0.001	37	n/a	n/a	100	n/a	n/a	0.1499	NP Inter
Cobalt (mg/L)	0.013	37	n/a	n/a	0	n/a	n/a	0.1499	NP Inter
Combined Radium 226 + 228 (pCi/L)	1.49	39	n/a	n/a	0	n/a	n/a	0.1353	NP Inter
Fluoride, total (mg/L)	0.162	39	n/a	n/a	69.23	n/a	n/a	0.1353	NP Inter
Lead (mg/L)	0.001	37	n/a	n/a	100	n/a	n/a	0.1499	NP Inter
Lithium (mg/L)	0.004	38	n/a	n/a	78.95	n/a	n/a	0.1424	NP Inter
Mercury (mg/L)	0.0002	37	n/a	n/a	94.59	n/a	n/a	0.1499	NP Inter
Molybdenum (mg/L)	0.001	37	n/a	n/a	97.3	n/a	n/a	0.1499	NP Inter
Selenium (mg/L)	0.001	37	n/a	n/a	91.89	n/a	n/a	0.1499	NP Inter
Thallium (mg/L)	0.001	37	n/a	n/a	100	n/a	n/a	0.1499	NP Inter

LOWMAN POWER PLANT GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.001	0.006
Arsenic	mg/L	0.0031	0.01
Barium	mg/L	0.15	2
Beryllium	mg/L	0.001	0.004
Cadmium	mg/L	0.001	0.005
Chromium	mg/L	0.001	0.1
Cobalt	mg/L	0.013	0.013
Combined Radium-226/228	pCi/L	1.31	5
Fluoride	mg/L	0.16	4
Lead	mg/L	0.001	0.015
Lithium	mg/L	0.004	0.04
Mercury	mg/L	0.0002	0.002
Molybdenum	mg/L	0.001	0.1
Selenium	mg/L	0.001	0.05
Thallium	mg/L	0.001	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

Confidence Interval Summary Table - Significant Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MW-17	0.05773	0.0218	0.01	Yes 8	0.03976	0.01695	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-20	0.03771	0.02344	0.01	Yes 8	0.03046	0.007208	0	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	MW-23	0.2835	0.1377	0.01	Yes 8	0.2106	0.06878	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-14	0.08909	0.0149	0.013	Yes 8	0.05028	0.04049	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MW-14A	0.06395	0.03335	0.013	Yes 8	0.04838	0.01575	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MW-17	0.03	0.015	0.013	Yes 8	0.0195	0.005425	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-3	0.02929	0.01996	0.013	Yes 8	0.02463	0.004406	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-4	0.9472	0.7223	0.013	Yes 8	0.8354	0.1154	0	None	x^2	0.01	Param.
Cobalt (mg/L)	MW-5	0.02768	0.01317	0.013	Yes 8	0.02043	0.006842	0	None	No	0.01	Param.
Lithium (mg/L)	MW-11	0.06038	0.04369	0.04	Yes 8	0.05204	0.007874	0	None	No	0.01	Param.
Lithium (mg/L)	MW-14B	0.2199	0.0558	0.04	Yes 5	0.1379	0.04897	0	None	No	0.01	Param.
Lithium (mg/L)	MW-17	0.1088	0.05648	0.04	Yes 8	0.08313	0.02633	0	None	x^2	0.01	Param.
Lithium (mg/L)	MW-23	0.1733	0.1329	0.04	Yes 8	0.1531	0.01906	0	None	No	0.01	Param.
Lithium (mg/L)	MW-24	0.2001	0.05538	0.04	Yes 7	0.1278	0.06093	0	None	No	0.01	Param.
Lithium (mg/L)	MW-25	0.1687	0.1142	0.04	Yes 7	0.1414	0.02296	0	None	No	0.01	Param.
Lithium (mg/L)	MW-5A	0.06508	0.05027	0.04	Yes 8	0.05768	0.006982	0	None	No	0.01	Param.
Lithium (mg/L)	MW-7	0.0925	0.07133	0.04	Yes 8	0.08191	0.009988	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MW-18	0.0015	0.001	0.006	No 8	0.001063	0.0001768	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-10	0.001	0.001	0.01	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-11	0.003323	0.002354	0.01	No 8	0.002839	0.000457	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-12	0.001	0.00053	0.01	No 8	0.0009413	0.0001662	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-12A	0.0597	0.001	0.01	No 8	0.008338	0.02075	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-13	0.005315	0.0005603	0.01	No 8	0.002804	0.002951	12.5	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MW-13A	0.01156	0.007417	0.01	No 8	0.009488	0.001953	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-14	0.04065	0.003989	0.01	No 8	0.02126	0.01991	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MW-14A	0.01038	0.005548	0.01	No 8	0.007966	0.002281	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-14B	0.0017	0.001	0.01	No 5	0.00126	0.0003578	20	None	No	0.031	NP (normality)
Arsenic (mg/L)	MW-15	0.001	0.001	0.01	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-16	0.005184	0.001466	0.01	No 8	0.003325	0.001754	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-17	0.05773	0.0218	0.01	Yes 8	0.03976	0.01695	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-18	0.0109	0.001	0.01	No 8	0.003275	0.00366	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	MW-20	0.03771	0.02344	0.01	Yes 8	0.03046	0.007208	0	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	MW-21	0.0119	0.004189	0.01	No 8	0.007938	0.003935	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MW-22	0.005712	0.003238	0.01	No 8	0.004475	0.001167	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-23	0.2835	0.1377	0.01	Yes 8	0.2106	0.06878	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-24	0.003762	0.001138	0.01	No 8	0.00245	0.001238	12.5	None	No	0.01	Param.
Arsenic (mg/L)	MW-25	0.01575	0.002253	0.01	No 8	0.01099	0.005642	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MW-26	0.0014	0.001	0.01	No 8	0.001088	0.0001458	62.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	MW-3	0.001	0.001	0.01	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-4	0.009011	0.0008525	0.01	No 8	0.006077	0.00635	37.5	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	MW-5	0.05148	0.009453	0.01	No 8	0.02954	0.02325	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MW-5A	0.004177	0.002158	0.01	No 8	0.003168	0.0009525	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-6	0.0217	0.001	0.01	No 8	0.00852	0.01023	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	MW-7	0.001	0.001	0.01	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-8	0.03474	0.008468	0.01	No 8	0.02161	0.0124	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-9	0.01	0.0011	0.01	No 8	0.004855	0.004326	37.5	None	No	0.004	NP (normality)
Barium, Total (mg/L)	MW-10	0.03292	0.0243	2	No 8	0.02861	0.004067	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-11	0.04014	0.02604	2	No 8	0.03309	0.006653	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-12	0.03605	0.0275	2	No 8	0.03178	0.004029	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-12A	0.274	0.027	2	No 8	0.0627	0.08547	0	None	No	0.004	NP (normality)
Barium, Total (mg/L)	MW-13	0.1044	0.07551	2	No 8	0.08994	0.01361	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-13A	0.1891	0.1609	2	No 8	0.175	0.01328	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-14	0.2765	0.1315	2	No 8	0.204	0.06844	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-14A	0.07904	0.05626	2	No 8	0.06765	0.01075	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-14B	0.2161	0.0483	2	No 5	0.1322	0.05007	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-15	0.06396	0.04754	2	No 8	0.05575	0.007741	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-16	0.1959	0.1106	2	No 8	0.1533	0.04024	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-17	0.158	0.054	2	No 8	0.08888	0.04304	0	None	No	0.004	NP (normality)
Barium, Total (mg/L)	MW-18	0.2333	0.1172	2	No 8	0.1753	0.05475	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-19	0.0716	0.0534	2	No 8	0.0625	0.008586	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-20	0.1504	0.09889	2	No 8	0.1246	0.02428	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-21	0.12	0.08753	2	No 8	0.1038	0.0153	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-22	0.1499	0.1331	2	No 8	0.1415	0.00791	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-23	0.06984	0.03941	2	No 8	0.05463	0.01435	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-24	0.15	0.06577	2	No 8	0.1079	0.03973	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-25	0.05389	0.04036	2	No 8	0.04713	0.006379	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-26	0.138	0.09197	2	No 8	0.115	0.02173	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-3	0.1239	0.08907	2	No 8	0.1065	0.01644	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-4	0.0451	0.02752	2	No 8	0.03631	0.008294	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-5	0.3709	0.1781	2	No 8	0.2745	0.09093	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-5A	0.09996	0.08354	2	No 8	0.09175	0.007741	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-6	0.099	0.041	2	No 8	0.06558	0.02428	0	None	No	0.004	NP (normality)

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium, Total (mg/L)	MW-7	0.09309	0.07884	2	No 8	0.08596	0.006724	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-8	0.113	0.07481	2	No 8	0.09391	0.01803	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-9	0.1018	0.04977	2	No 8	0.07528	0.02701	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	MW-10	0.0015	0.001	0.004	No 8	0.001071	0.000175	75	None	No	0.004	NP (normality)
Beryllium (mg/L)	MW-14	0.001	0.001	0.004	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Beryllium (mg/L)	MW-3	0.001	0.001	0.004	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Beryllium (mg/L)	MW-4	0.005581	0.003977	0.004	No 8	0.004779	0.0007568	0	None	No	0.01	Param.
Cadmium (mg/L)	MW-10	0.0018	0.001	0.005	No 8	0.001224	0.0003228	62.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	MW-12	0.0011	0.00037	0.005	No 8	0.0009338	0.0002305	75	None	No	0.004	NP (normality)
Cadmium (mg/L)	MW-12A	0.001	0.001	0.005	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-14	0.0012	0.001	0.005	No 8	0.001025	0.00007071	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-14A	0.001	0.001	0.005	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-19	0.001	0.001	0.005	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-4	0.001	0.001	0.005	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-5	0.001	0.00063	0.005	No 8	0.0009538	0.0001308	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-6	0.001	0.001	0.005	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-10	0.004	0.001	0.1	No 8	0.001375	0.001061	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-11	0.002	0.001	0.1	No 8	0.001125	0.0003536	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-12	0.0023	0.001	0.1	No 8	0.001163	0.0004596	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-12A	0.002	0.001	0.1	No 8	0.001125	0.0003536	50	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-13	0.00116	0.001	0.1	No 8	0.00102	0.00005657	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-13A	0.001	0.001	0.1	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-15	0.002	0.001	0.1	No 8	0.001125	0.0003536	75	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-16	0.001	0.001	0.1	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-18	0.001	0.001	0.1	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-19	0.001	0.001	0.1	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-20	0.001	0.001	0.1	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-21	0.001	0.001	0.1	No 8	0.001	2.2e-11	75	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-24	0.002	0.001	0.1	No 8	0.001125	0.0003536	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-25	0.01	0.001	0.1	No 8	0.008875	0.003182	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-26	0.001	0.001	0.1	No 8	0.001	2.5e-11	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-3	0.001	0.001	0.1	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-10	0.006156	0.002526	0.013	No 8	0.004341	0.001712	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-12	0.001	0.00062	0.013	No 8	0.0009525	0.0001344	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-12A	0.013	0.001	0.013	No 8	0.002939	0.004247	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-13	0.002	0.001	0.013	No 8	0.001125	0.0003536	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-13A	0.012	0.01	0.013	No 8	0.01113	0.0008345	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-14	0.08909	0.0149	0.013	Yes 8	0.05028	0.04049	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MW-14A	0.06395	0.03335	0.013	Yes 8	0.04838	0.01575	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MW-15	0.004	0.001	0.013	No 8	0.001375	0.001061	62.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-16	0.01905	0.009204	0.013	No 8	0.01413	0.004643	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-17	0.03	0.015	0.013	Yes 8	0.0195	0.005425	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-18	0.002	0.001	0.013	No 8	0.001125	0.0003536	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-19	0.006	0.001	0.013	No 8	0.002687	0.002052	12.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-20	0.006	0.001	0.013	No 8	0.003	0.00233	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-21	0.005	0.001	0.013	No 8	0.002625	0.001847	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-22	0.003	0.0005	0.013	No 8	0.001875	0.001094	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-23	0.01321	0.008315	0.013	No 8	0.01137	0.002387	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	MW-24	0.05	0.001	0.013	No 8	0.02063	0.02435	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-25	0.01696	0	0.013	No 8	0.008313	0.008154	12.5	None	No	0.01	Param.
Cobalt (mg/L)	MW-3	0.02929	0.01996	0.013	Yes 8	0.02463	0.004406	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-4	0.9472	0.7223	0.013	Yes 8	0.8354	0.1154	0	None	x^2	0.01	Param.
Cobalt (mg/L)	MW-5	0.02768	0.01317	0.013	Yes 8	0.02043	0.006842	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-5A	0.021	0.012	0.013	No 8	0.01441	0.002806	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-6	0.01125	0.0003113	0.013	No 8	0.006567	0.005034	25	Kaplan-Meier	No	0.01	Param.

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	MW-7	0.001	0.001	0.013	No 8	0.001	2.5e-11	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-8	0.00223	0.001	0.013	No 8	0.001404	0.0005617	50	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-10	1.563	0.1106	5	No 8	0.8009	1.048	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-11	1.561	0.2607	5	No 8	0.911	0.6135	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-12	1.041	0.05997	5	No 8	0.5506	0.4628	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-12A	1.031	0.09402	5	No 8	0.5335	0.5508	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-13	1.481	0.3623	5	No 8	0.9214	0.5275	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-13A	1.65	0.6365	5	No 8	1.143	0.4781	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-14	1.806	0.4704	5	No 8	1.138	0.63	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-14A	1.538	0.275	5	No 8	0.878	0.7141	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-14B	2.743	0.3115	5	No 5	1.527	0.7256	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-15	1.047	0.4579	5	No 8	0.7523	0.2777	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-16	1.566	0.3109	5	No 8	0.9386	0.5922	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-17	1.273	0.007001	5	No 8	0.6402	0.5974	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-18	0.85	0.228	5	No 8	0.5205	0.264	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-19	0.6489	0.03327	5	No 8	0.3411	0.2904	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	1.293	0.3364	5	No 8	0.8146	0.4512	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-21	0.7735	0.3259	5	No 8	0.521	0.3039	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-22	1.13	0.2036	5	No 8	0.6676	0.4125	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-23	1.378	0.4564	5	No 8	0.9171	0.4347	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24	1.405	0.7994	5	No 8	1.102	0.2856	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25	1.743	0.3493	5	No 8	1.046	0.6575	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26	1.016	0.3257	5	No 8	0.6709	0.3256	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-3	1.019	0.2896	5	No 8	0.6542	0.3439	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-4	1.346	0.5897	5	No 8	0.968	0.3569	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5	1.397	0.666	5	No 8	1.032	0.345	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5A	3.365	0.3	5	No 8	2.132	3.724	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	0.7897	0.2929	5	No 8	0.5413	0.2343	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-7	10.9	0.447	5	No 8	2.008	3.607	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-8	0.9499	0.2256	5	No 8	0.5878	0.3417	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-9	2.53	0.552	5	No 8	1.541	0.9331	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-10	0.282	0.125	4	No 8	0.1585	0.06324	75	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-11	2.115	1.763	4	No 8	1.939	0.1661	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-12	0.125	0.04	4	No 8	0.09563	0.04066	62.5	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-12A	0.125	0.125	4	No 8	0.125	0	100	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-13	0.1607	0.09404	4	No 8	0.1365	0.03036	37.5	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	MW-13A	0.125	0.125	4	No 8	0.125	0	100	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-14	0.1975	0.07198	4	No 8	0.151	0.04623	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	MW-14A	0.137	0.125	4	No 8	0.1279	0.00533	75	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-15	0.125	0.125	4	No 8	0.125	0	100	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-16	0.125	0.125	4	No 8	0.125	0	100	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-17	1.793	0.5829	4	No 8	1.188	0.5709	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-18	0.146	0.125	4	No 8	0.1315	0.009227	62.5	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-19	0.125	0.125	4	No 8	0.125	0	100	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-20	0.182	0.125	4	No 8	0.1445	0.02285	50	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-21	1.25	0.127	4	No 8	0.8336	0.5748	62.5	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-22	0.125	0.125	4	No 8	0.125	0	100	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-23	2.483	1.001	4	No 8	1.742	0.6992	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-24	1.36	0.4403	4	No 8	0.9003	0.4339	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-25	0.8805	0.3917	4	No 8	0.6361	0.2306	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-26	0.1659	0.1268	4	No 8	0.148	0.01853	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	MW-3	0.157	0.125	4	No 8	0.129	0.01131	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-4	0.8186	0.3139	4	No 8	0.5663	0.2381	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-5	0.269	0.09439	4	No 8	0.5811	0.5589	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	MW-5A	1.639	1.156	4	No 8	1.398	0.2282	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	MW-6	1.25	0.237	4	No 8	1.123	0.3581	87.5	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-7	2.514	1.413	4	No 8	1.964	0.5196	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-8	0.3161	0.2055	4	No 8	0.2601	0.05522	12.5	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	MW-9	1.25	0.139	4	No 8	0.8359	0.5716	62.5	None	No	0.004	NP (normality)
Lead (mg/L)	MW-10	0.0015	0.001	0.015	No 8	0.001063	0.0001768	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-13	0.001	0.001	0.015	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-3	0.001	0.001	0.015	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-4	0.001886	0.001274	0.015	No 8	0.00181	0.0005028	25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	MW-10	0.01742	0.01253	0.04	No 8	0.01498	0.002307	12.5	None	No	0.01	Param.
Lithium (mg/L)	MW-11	0.06038	0.04369	0.04	Yes 8	0.05204	0.007874	0	None	No	0.01	Param.
Lithium (mg/L)	MW-12	0.02	0.00549	0.04	No 8	0.009326	0.004466	25	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-12A	0.007231	0.005649	0.04	No 8	0.007025	0.001025	37.5	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	MW-13A	0.008286	0.006051	0.04	No 8	0.007153	0.001134	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MW-14	0.008	0.0015	0.04	No 8	0.006375	0.003009	75	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-14A	0.01447	0.006297	0.04	No 8	0.01038	0.003854	0	None	No	0.01	Param.
Lithium (mg/L)	MW-14B	0.2199	0.0558	0.04	Yes 5	0.1379	0.04897	0	None	No	0.01	Param.
Lithium (mg/L)	MW-15	0.00756	0.004	0.04	No 8	0.004445	0.001259	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-16	0.04917	0.03036	0.04	No 8	0.03976	0.008871	0	None	No	0.01	Param.
Lithium (mg/L)	MW-17	0.1088	0.05648	0.04	Yes 8	0.08313	0.02633	0	None	x^2	0.01	Param.
Lithium (mg/L)	MW-18	0.004	0.004	0.04	No 8	0.004	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-19	0.01149	0.008327	0.04	No 8	0.009889	0.001584	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	MW-20	0.004	0.004	0.04	No 8	0.004	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-21	0.004	0.004	0.04	No 8	0.004	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-22	0.004	0.004	0.04	No 8	0.004	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-23	0.1733	0.1329	0.04	Yes 8	0.1531	0.01906	0	None	No	0.01	Param.
Lithium (mg/L)	MW-24	0.2001	0.05538	0.04	Yes 7	0.1278	0.06093	0	None	No	0.01	Param.
Lithium (mg/L)	MW-25	0.1687	0.1142	0.04	Yes 7	0.1414	0.02296	0	None	No	0.01	Param.
Lithium (mg/L)	MW-3	0.004	0.004	0.04	No 8	0.004	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-4	0.006922	0.004803	0.04	No 8	0.005863	0.0009993	12.5	None	No	0.01	Param.
Lithium (mg/L)	MW-5	0.008	0.0034	0.04	No 8	0.006988	0.001898	75	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-5A	0.06508	0.05027	0.04	Yes 8	0.05768	0.006982	0	None	No	0.01	Param.
Lithium (mg/L)	MW-6	0.008	0.00564	0.04	No 8	0.007226	0.001077	62.5	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-7	0.0925	0.07133	0.04	Yes 8	0.08191	0.009988	0	None	No	0.01	Param.
Lithium (mg/L)	MW-8	0.004	0.004	0.04	No 8	0.004	0	100	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MW-11	0.143	0.092	0.1	No 8	0.1109	0.02081	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-12	0.0016	0.001	0.1	No 8	0.001075	0.0002121	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MW-12A	0.001	0.001	0.1	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MW-14	0.001	0.001	0.1	No 8	0.001	2.2e-11	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-14B	0.05279	0.005996	0.1	No 5	0.036	0.012	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	MW-16	0.001	0.001	0.1	No 8	0.001	2.5e-11	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-17	0.1354	0.02714	0.1	No 8	0.08125	0.05105	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-21	0.001	0.001	0.1	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MW-23	0.1327	0.07583	0.1	No 8	0.1043	0.02681	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24	0.01976	0.004739	0.1	No 8	0.01225	0.007086	12.5	None	No	0.01	Param.
Molybdenum (mg/L)	MW-25	0.1215	0.0507	0.1	No 8	0.08525	0.04199	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	MW-26	0.006596	0.004654	0.1	No 8	0.005625	0.0009161	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-3	0.002	0.001	0.1	No 8	0.001125	0.0003536	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MW-5	0.005	0.001	0.1	No 8	0.004	0.001852	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-5A	0.132	0.07275	0.1	No 8	0.1024	0.02795	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.002	0.001	0.1	No 8	0.001375	0.0005175	62.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-7	0.02135	0.0101	0.1	No 8	0.01573	0.005311	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-8	0.001	0.001	0.1	No 8	0.001	2.2e-11	75	None	No	0.004	NP (normality)
Selenium (mg/L)	MW-10	0.003	0.001	0.05	No 8	0.002108	0.0009948	0	None	No	0.004	NP (normality)
Selenium (mg/L)	MW-12	0.008	0.00027	0.05	No 8	0.001909	0.002505	50	None	No	0.004	NP (normality)
Selenium (mg/L)	MW-12A	0.005	0.001	0.05	No 8	0.00175	0.001389	37.5	None	No	0.004	NP (normality)

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	MW-13	0.001937	0.0006738	0.05	No 8	0.001401	0.0007533	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	MW-14	0.001	0.00085	0.05	No 8	0.0009813	0.00005303	62.5	None	No	0.004	NP (normality)
Selenium (mg/L)	MW-14A	0.001	0.001	0.05	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Selenium (mg/L)	MW-21	0.001	0.001	0.05	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Selenium (mg/L)	MW-26	0.02263	0.003368	0.05	No 8	0.013	0.009087	0	None	No	0.01	Param.
Selenium (mg/L)	MW-4	0.005	0.001	0.05	No 8	0.00425	0.001488	62.5	None	No	0.004	NP (normality)
Selenium (mg/L)	MW-5	0.003204	0.002041	0.05	No 8	0.002623	0.0005483	0	None	No	0.01	Param.
Selenium (mg/L)	MW-6	0.001	0.001	0.05	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Selenium (mg/L)	MW-7	0.002	0.001	0.05	No 8	0.001125	0.0003536	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	MW-8	0.001	0.001	0.05	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Selenium (mg/L)	MW-9	0.001	0.001	0.05	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	MW-12A	0.001	0.001	0.002	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	MW-14	0.001	0.00013	0.002	No 8	0.0008913	0.0003076	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	MW-14A	0.001	0.001	0.002	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	MW-4	0.001	0.001	0.002	No 8	0.001	0	100	None	No	0.004	NP (NDs)

Appendix IV Trend Tests - Significant Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	MW-1 (bg)	0.0001861	82	58	Yes	19	15.79	n/a	n/a	0.05	NP
Arsenic (mg/L)	MW-20	-0.004009	-57	-37	Yes	14	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-14A	-0.009965	-63	-49	Yes	17	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-2 (bg)	-0.0002491	-78	-53	Yes	18	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-4	-0.0272	-83	-53	Yes	18	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-11	-0.002842	-85	-66	Yes	21	4.762	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-17	-0.01636	-87	-53	Yes	18	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-23	-0.01298	-59	-45	Yes	16	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-24	-0.03536	-19	-15	Yes	7	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-5A	-0.01773	-119	-53	Yes	18	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-7	-0.0159	-113	-66	Yes	21	0	n/a	n/a	0.05	NP

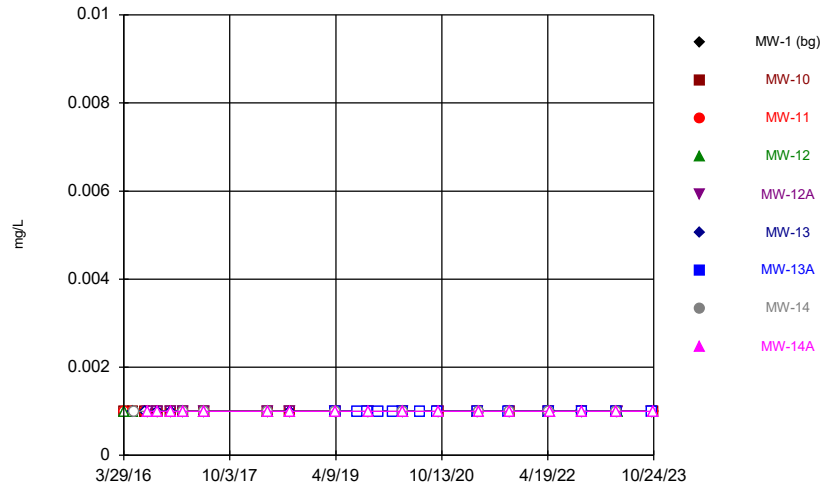
Appendix IV Trend Tests - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	MW-1 (bg)	0.0001861	82	58	Yes	19	15.79	n/a	n/a	0.05	NP
Arsenic (mg/L)	MW-17	0.002311	15	37	No	14	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	MW-2 (bg)	0	13	53	No	18	94.44	n/a	n/a	0.05	NP
Arsenic (mg/L)	MW-20	-0.004009	-57	-37	Yes	14	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	MW-23	0	0	37	No	14	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-1 (bg)	-0.00003229	-8	-58	No	19	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-14	-0.01088	-12	-23	No	10	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-14A	-0.009965	-63	-49	Yes	17	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-17	-0.001958	-31	-37	No	14	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-2 (bg)	-0.0002491	-78	-53	Yes	18	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-3	-0.001273	-23	-37	No	14	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-4	-0.0272	-83	-53	Yes	18	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-5	-0.001109	-21	-27	No	11	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-1 (bg)	0	5	58	No	19	84.21	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-11	-0.002842	-85	-66	Yes	21	4.762	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-14B	-0.02057	-4	-10	No	5	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-17	-0.01636	-87	-53	Yes	18	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-2 (bg)	0	15	58	No	19	73.68	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-23	-0.01298	-59	-45	Yes	16	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-24	-0.03536	-19	-15	Yes	7	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-25	-0.003332	-4	-15	No	7	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-5A	-0.01773	-119	-53	Yes	18	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-7	-0.0159	-113	-66	Yes	21	0	n/a	n/a	0.05	NP

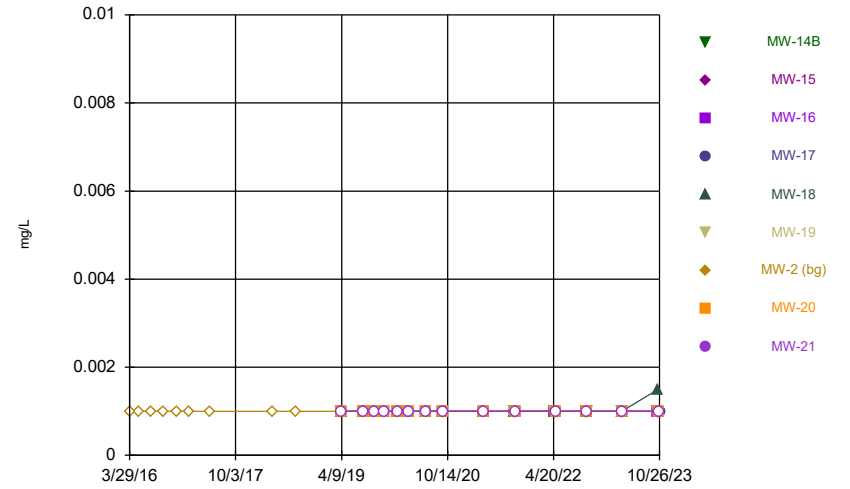
Figure A. Time Series

Time Series



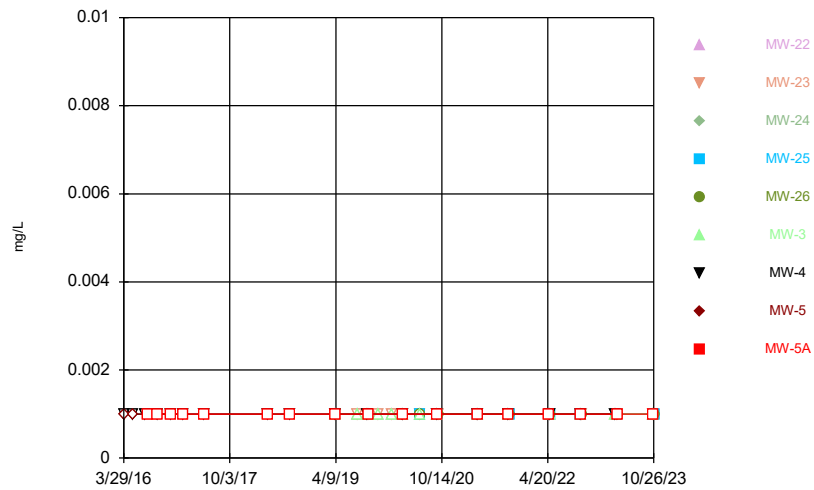
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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



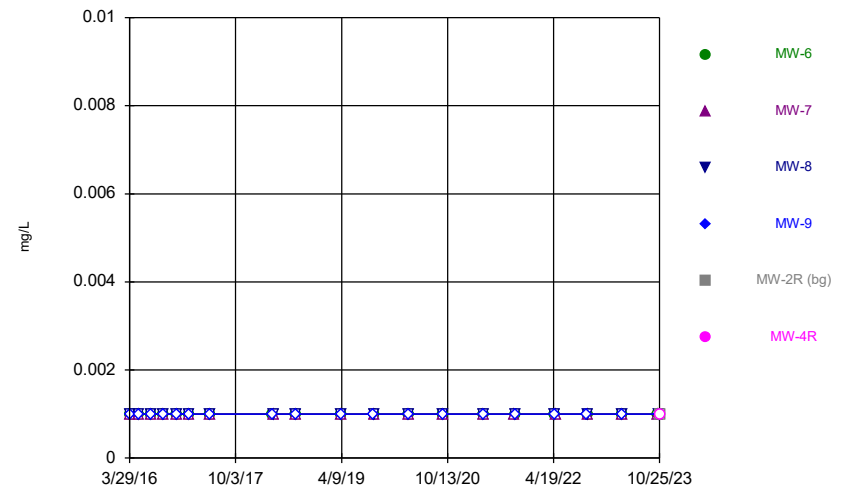
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Time Series



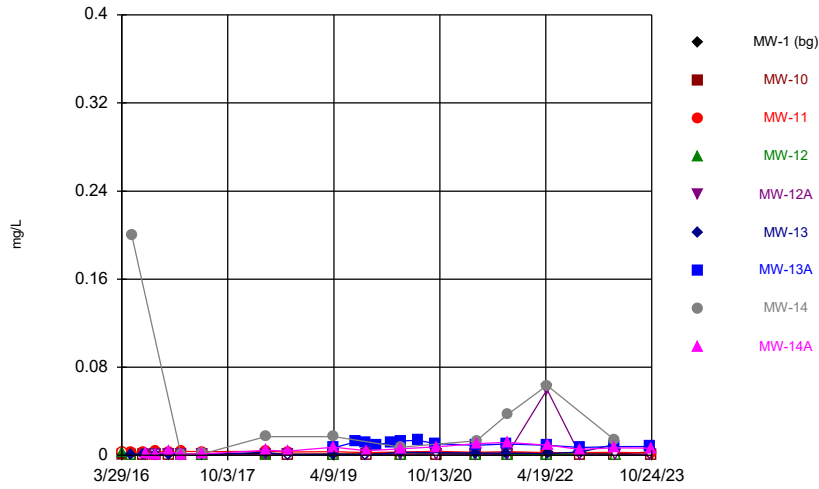
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Time Series



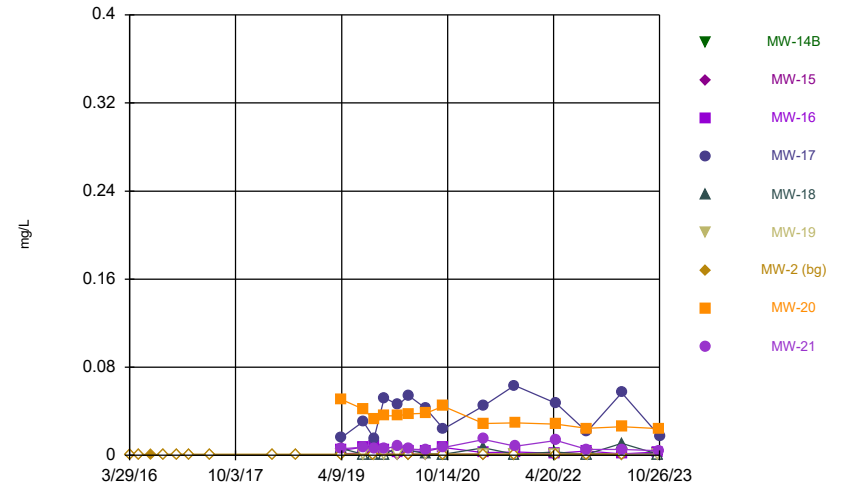
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Time Series



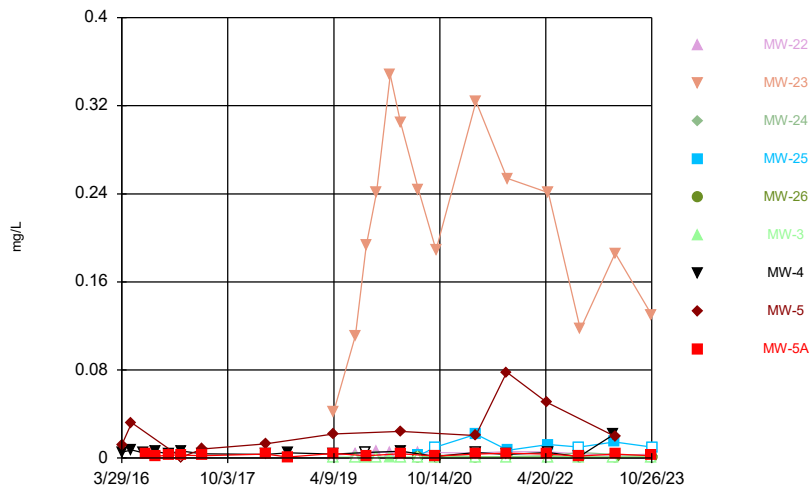
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Time Series



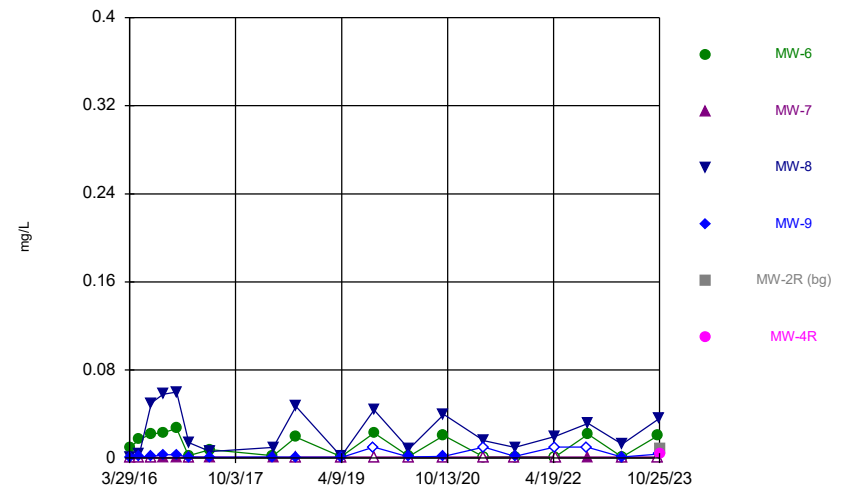
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Time Series



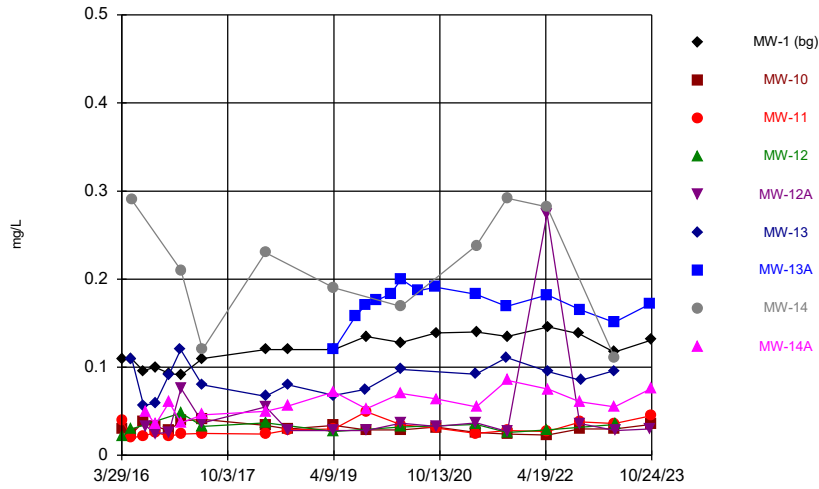
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Time Series



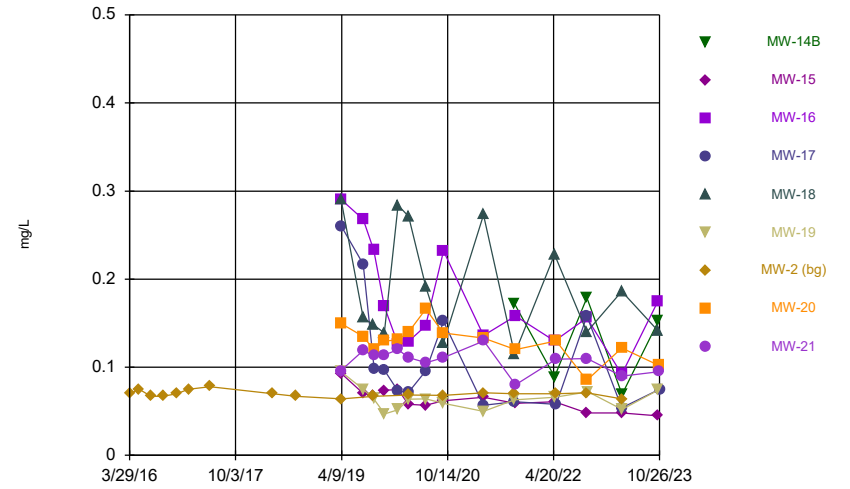
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Time Series



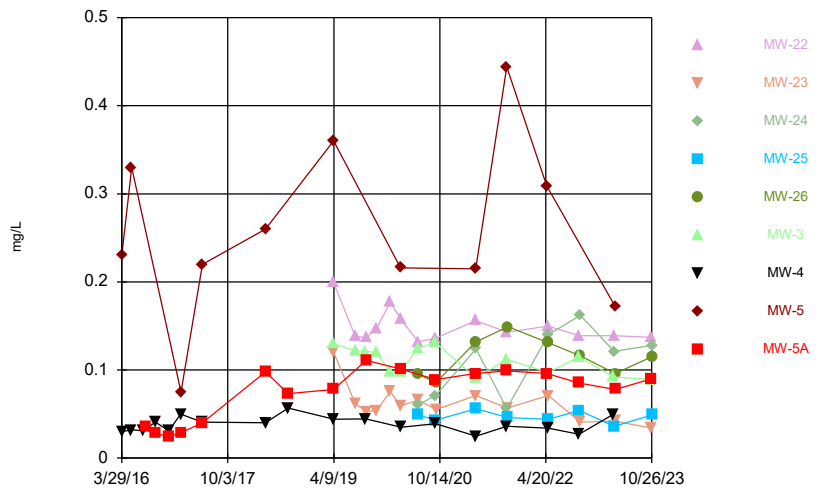
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Time Series



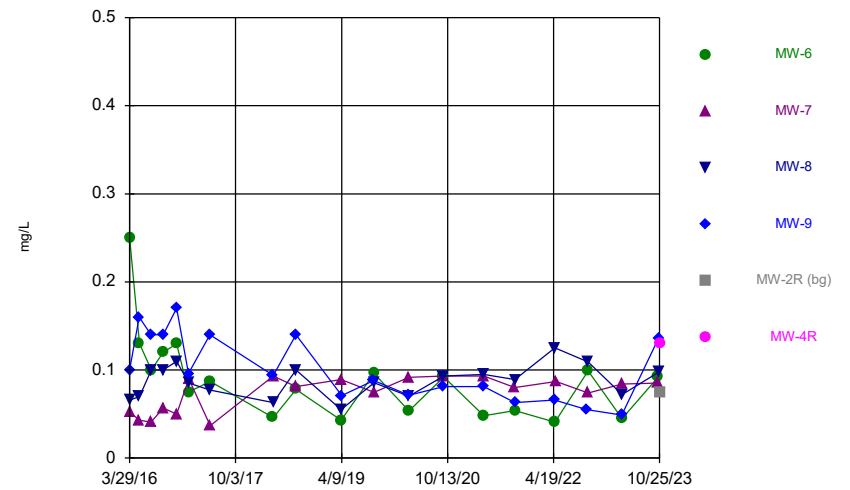
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Time Series



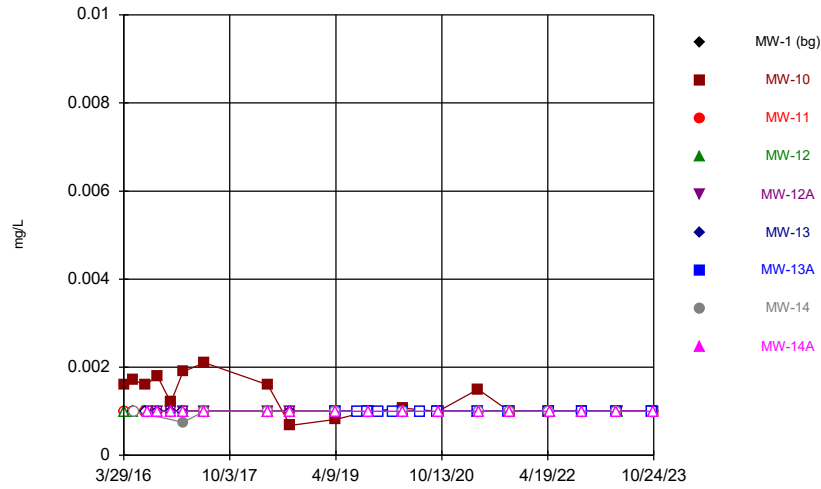
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Time Series



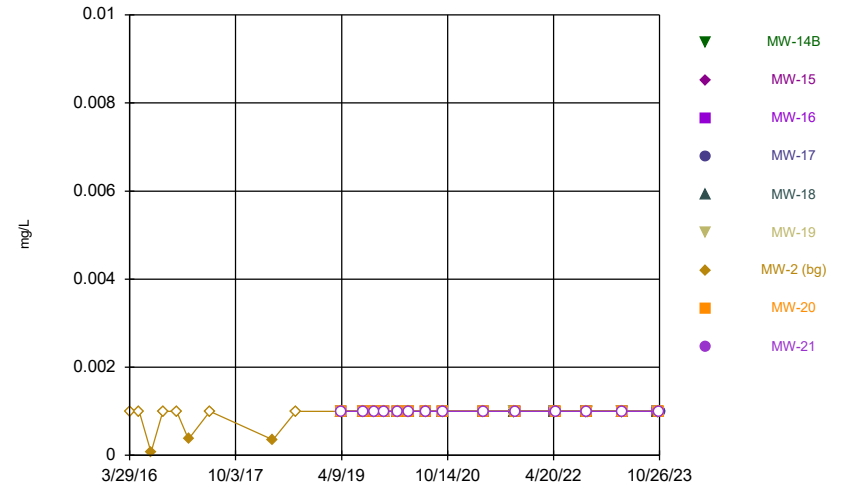
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Time Series



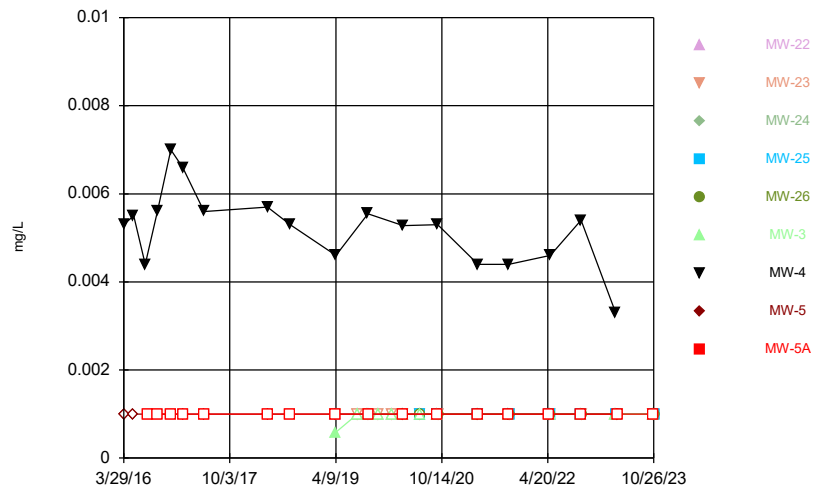
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Time Series



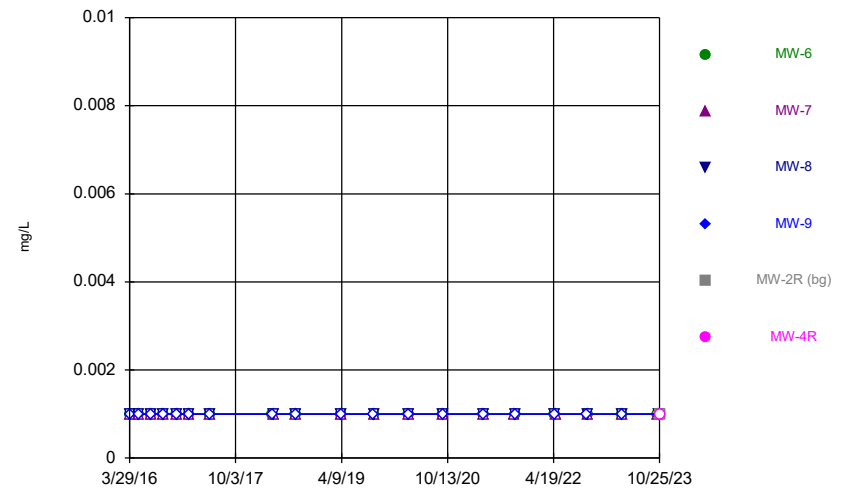
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Time Series



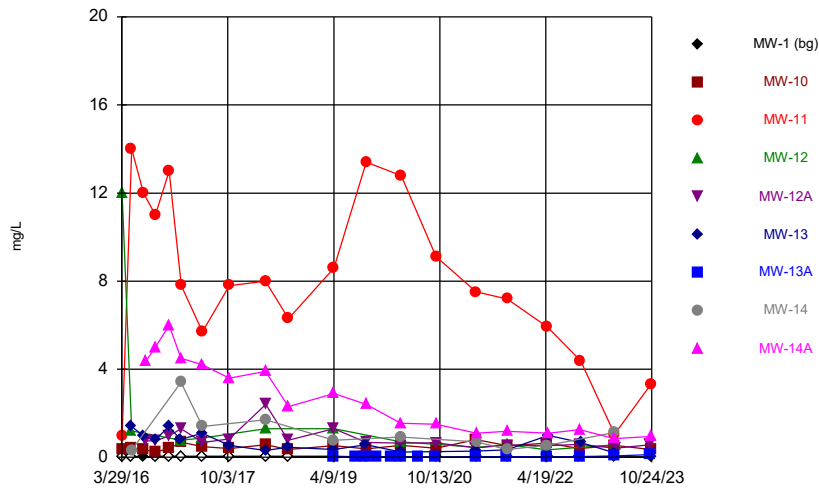
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Time Series



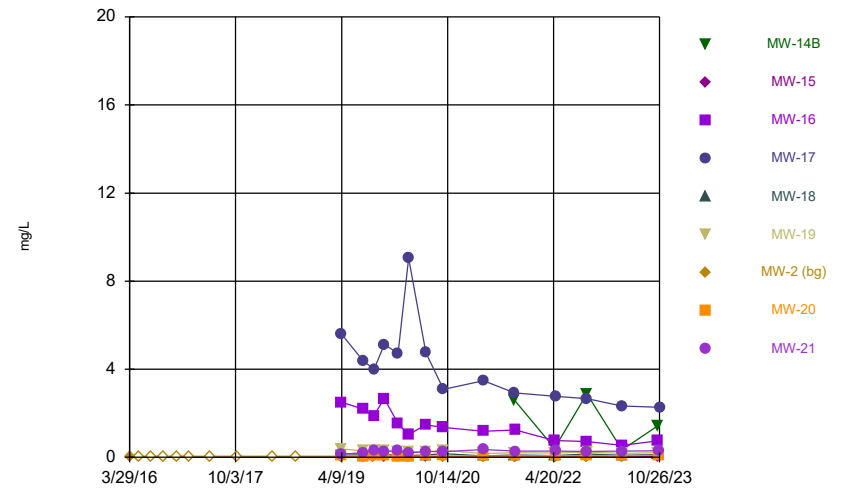
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Time Series



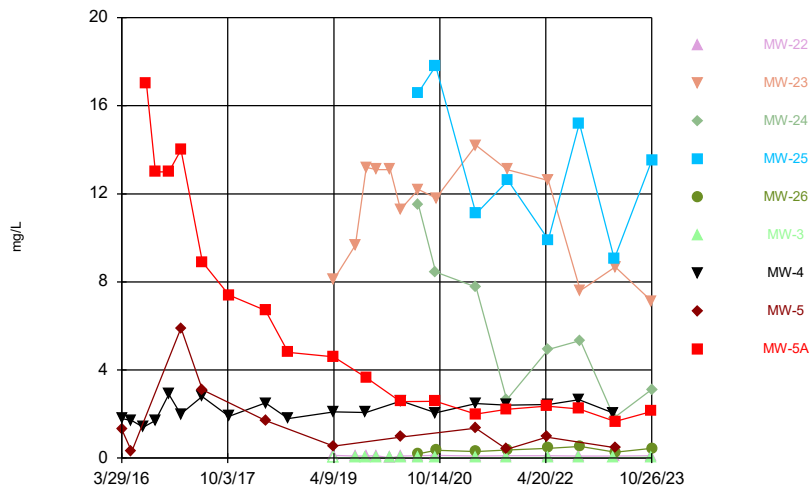
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Time Series



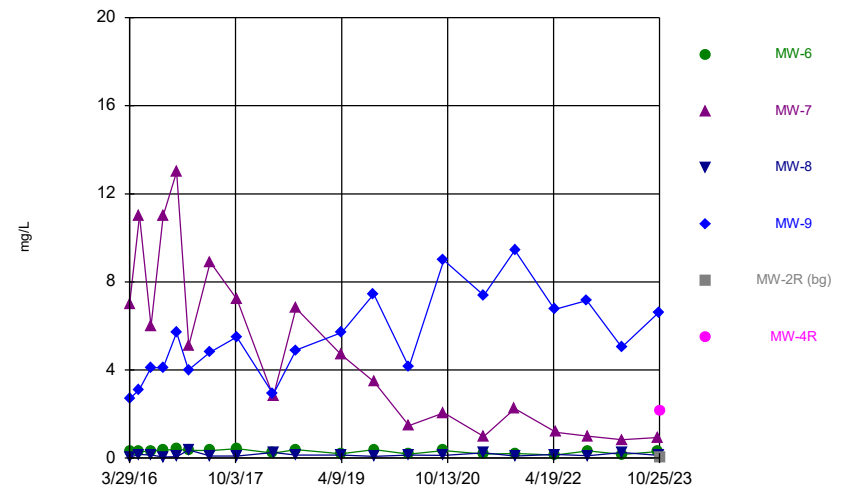
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Time Series



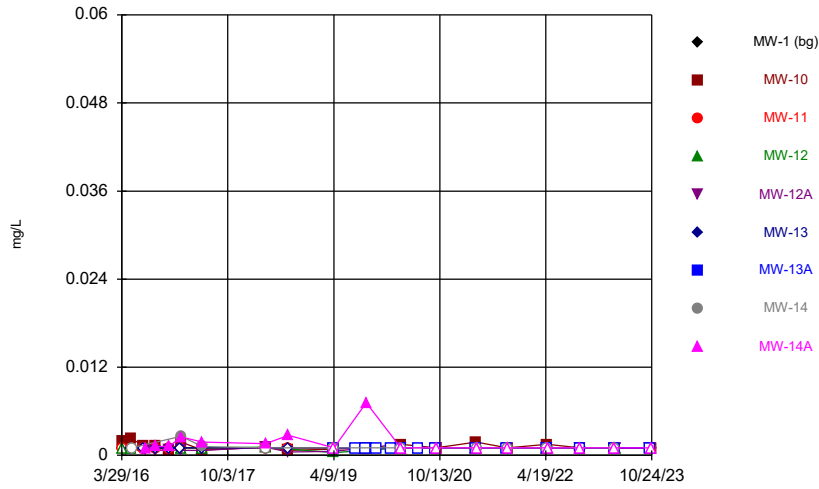
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Time Series



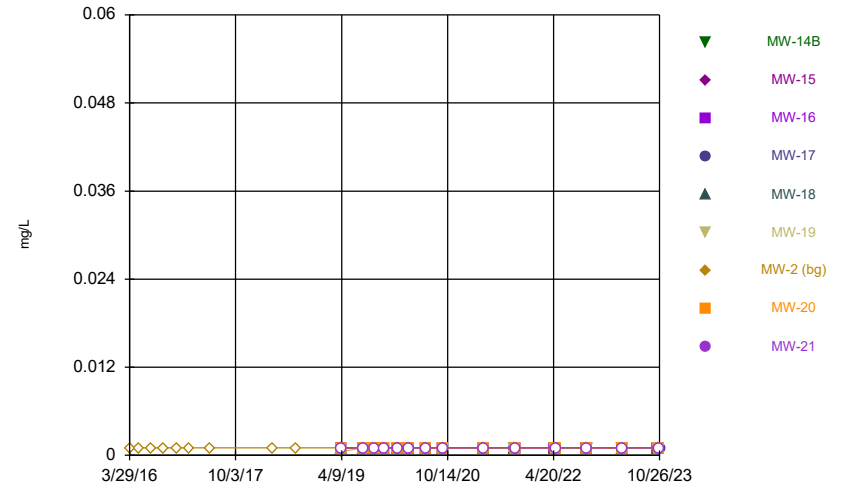
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Time Series



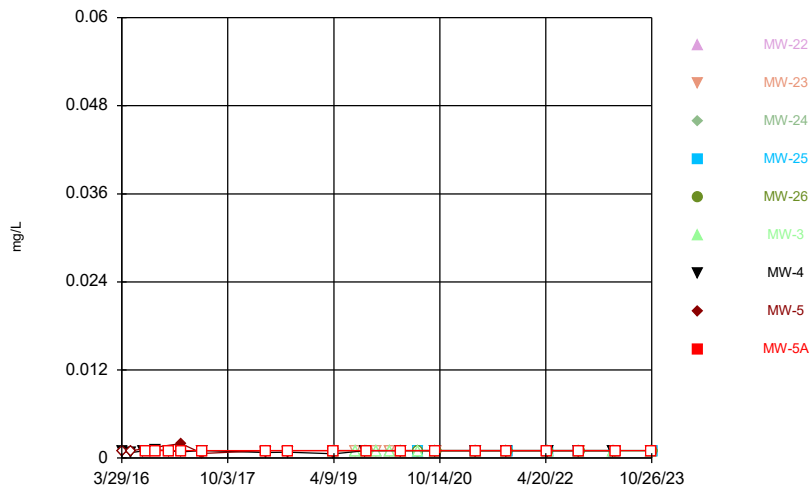
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Time Series



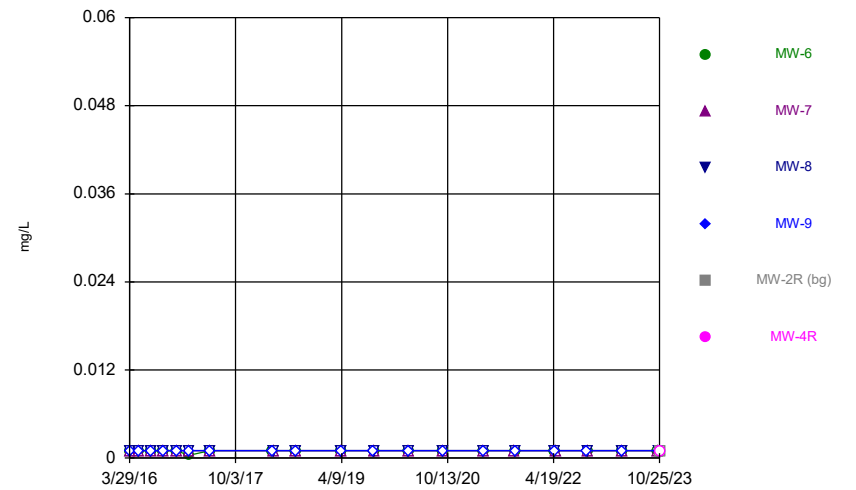
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Time Series



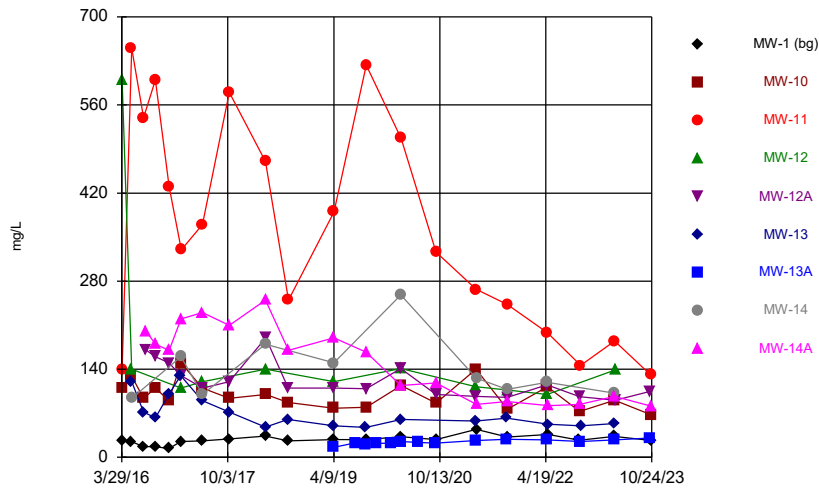
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Time Series



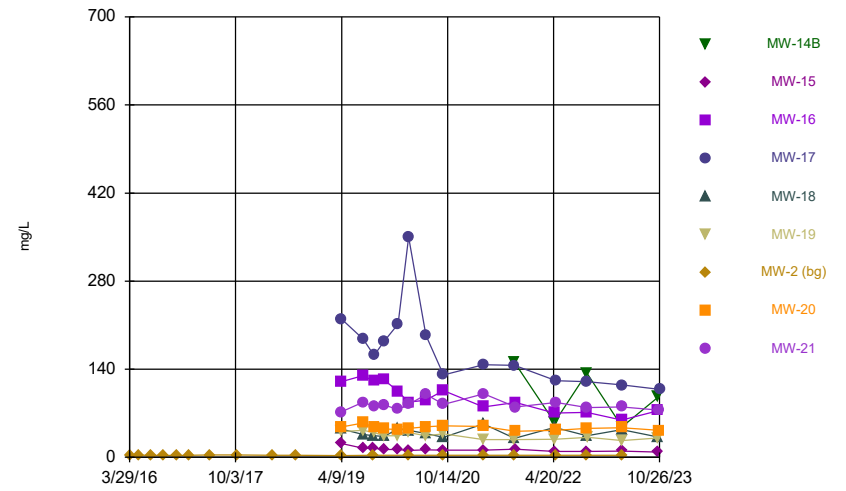
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Time Series



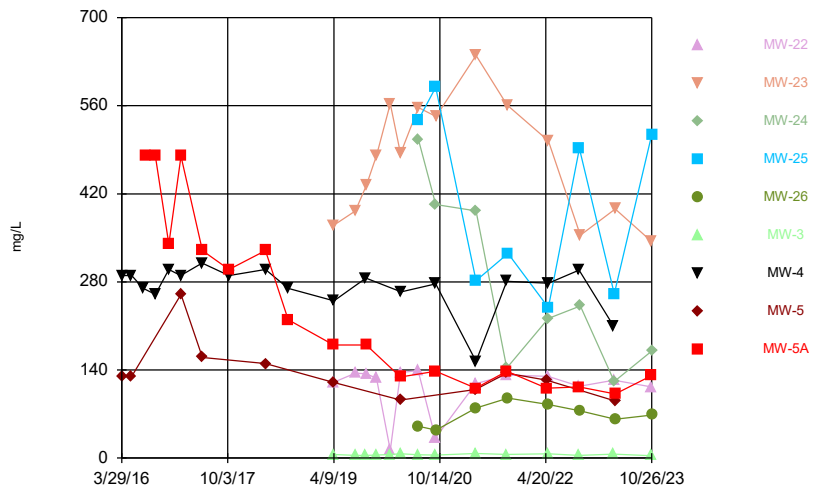
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Time Series



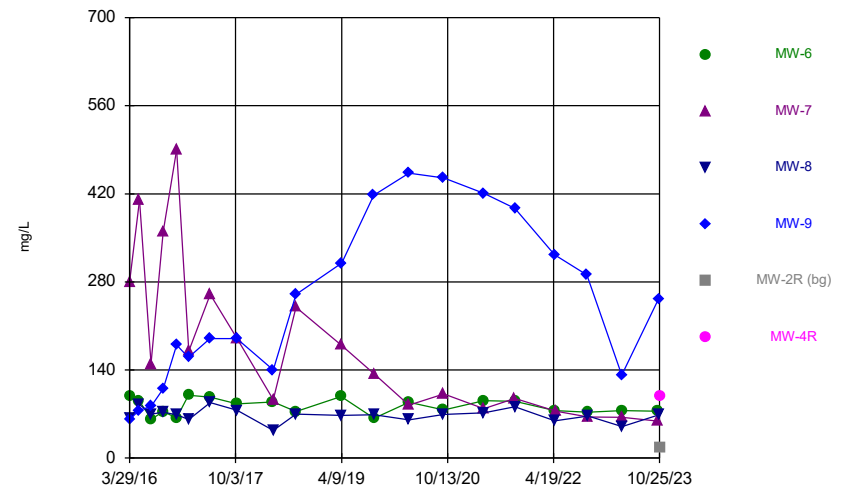
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Time Series



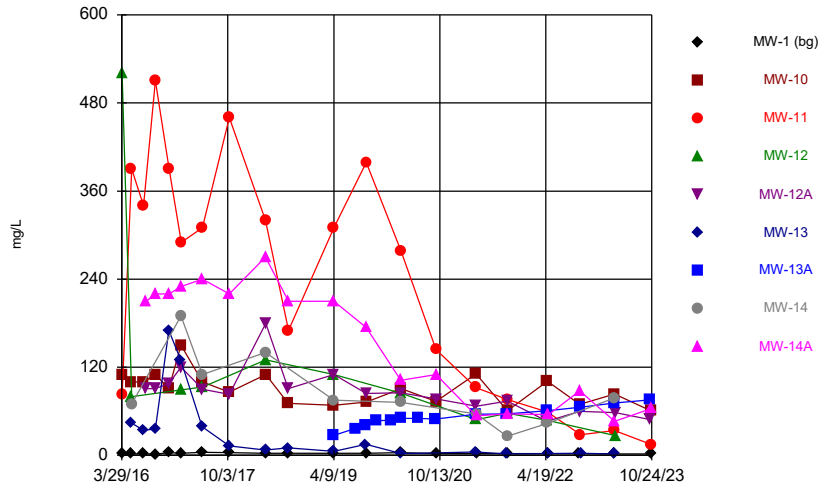
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Time Series



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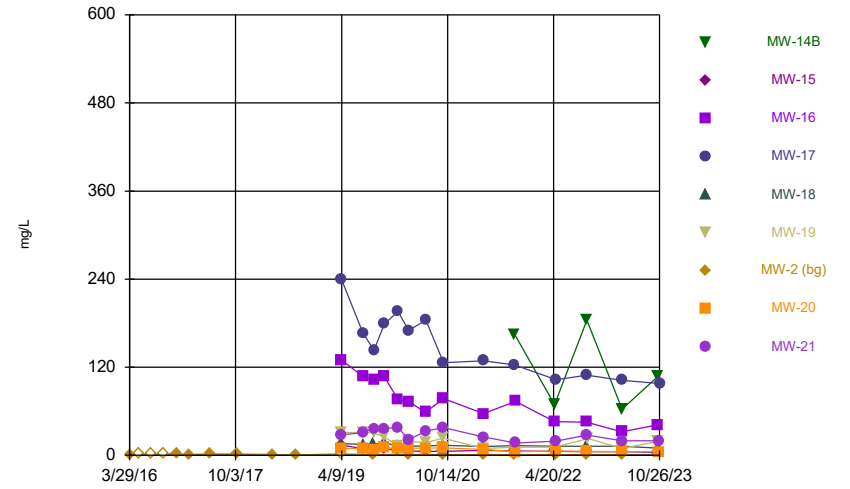
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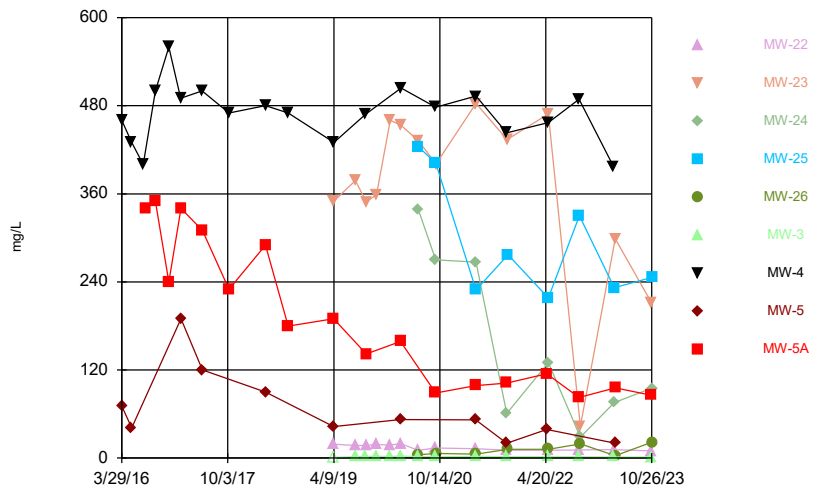
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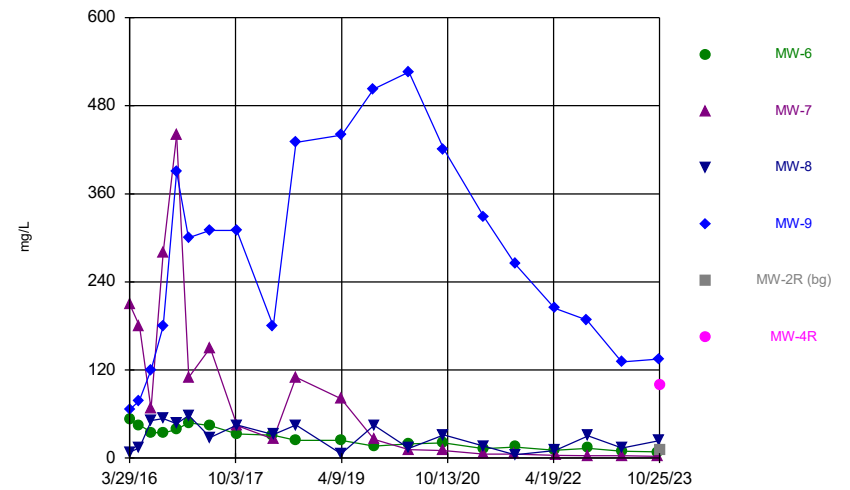
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Time Series



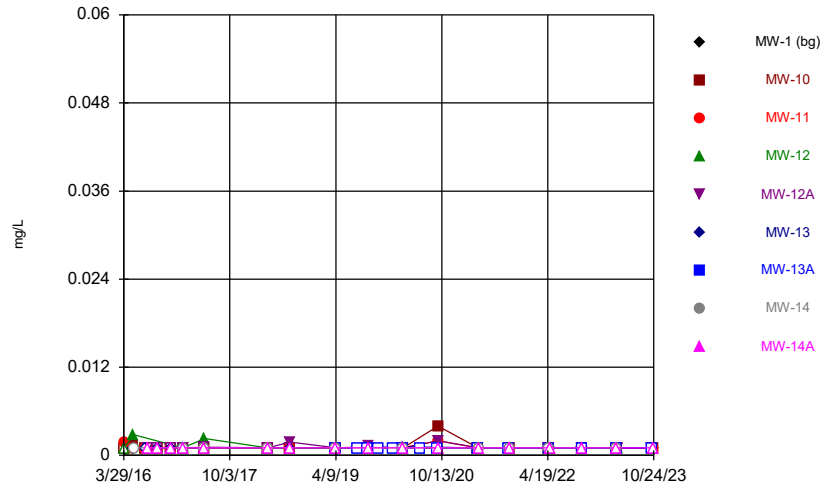
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Time Series



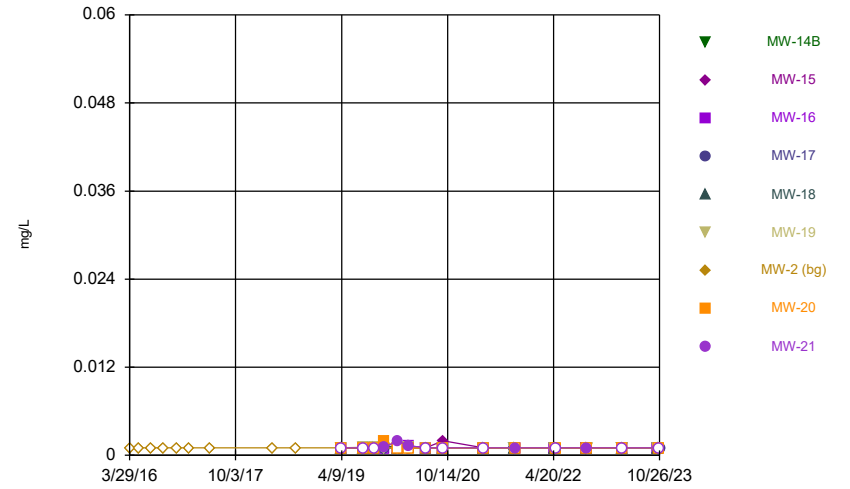
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Time Series



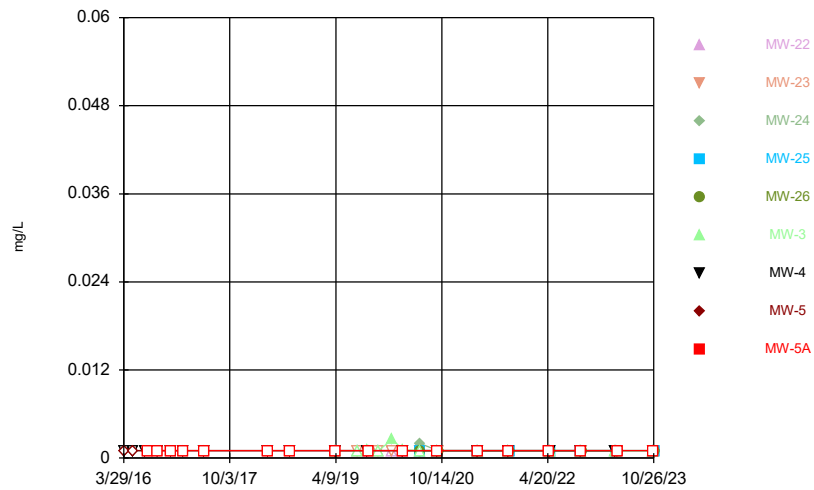
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Time Series



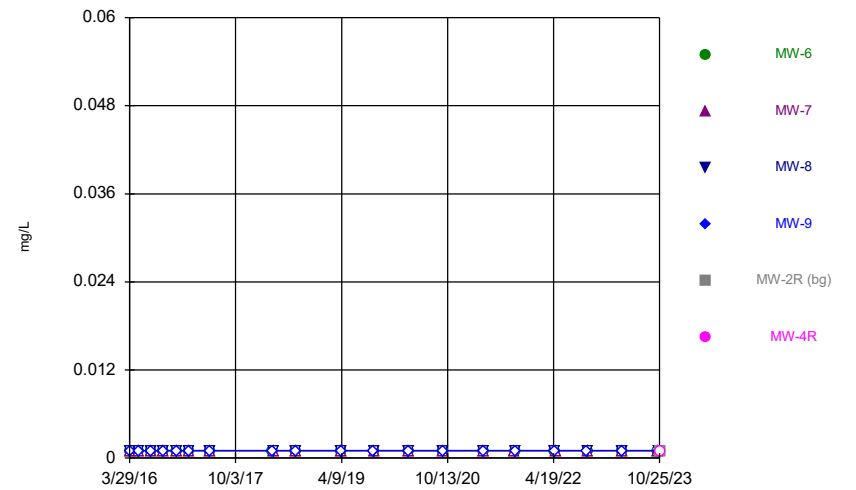
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Time Series



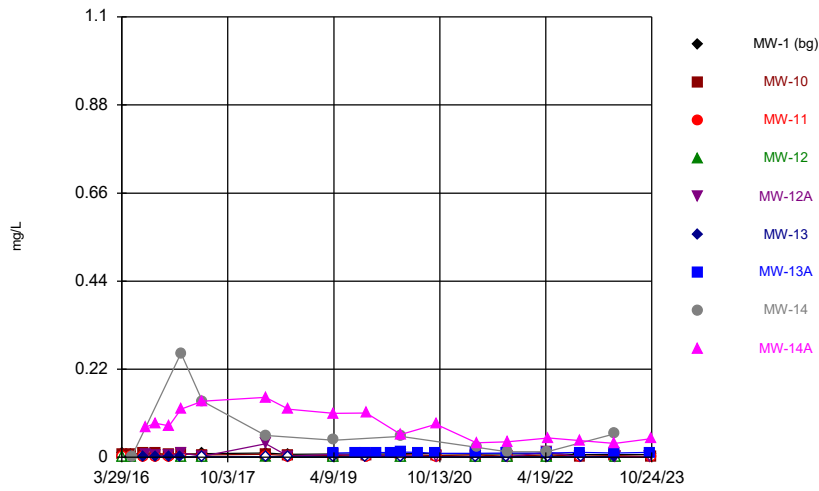
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Time Series



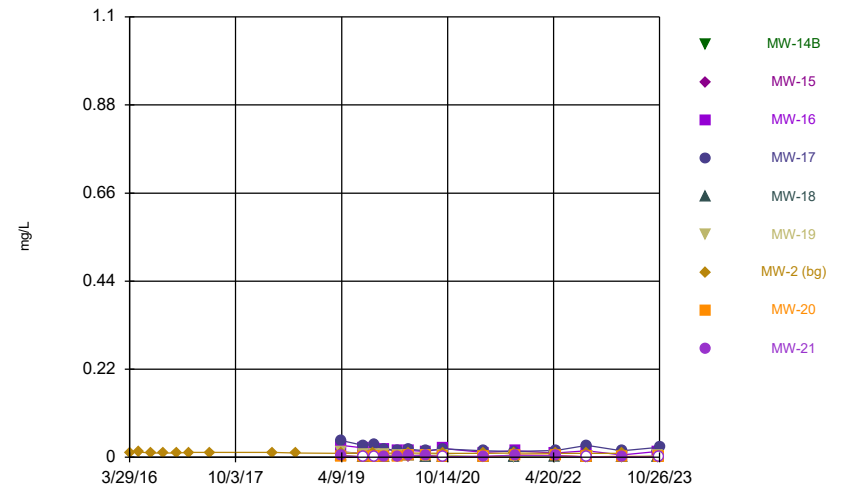
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Time Series



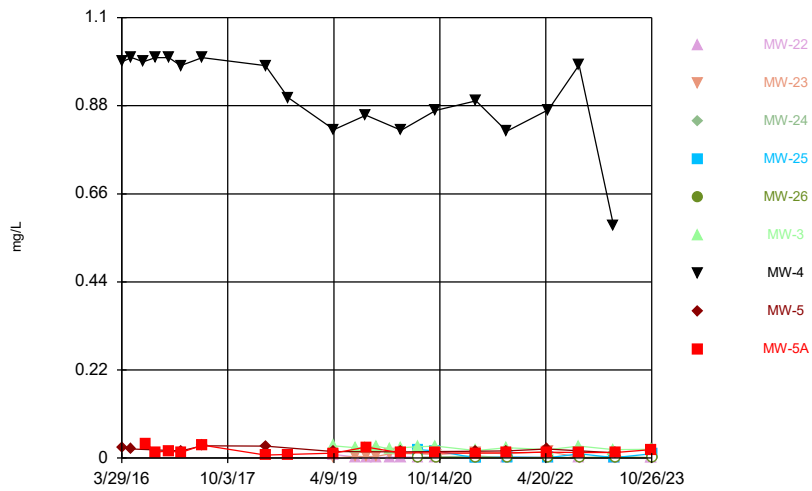
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Time Series



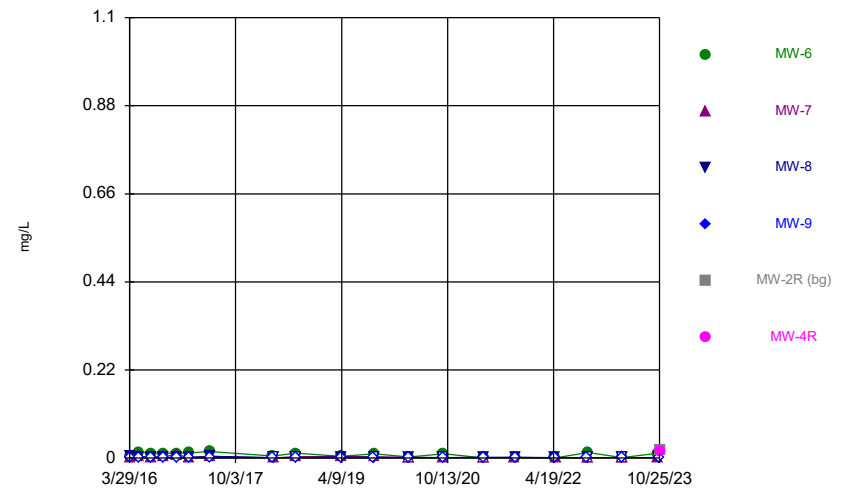
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Time Series



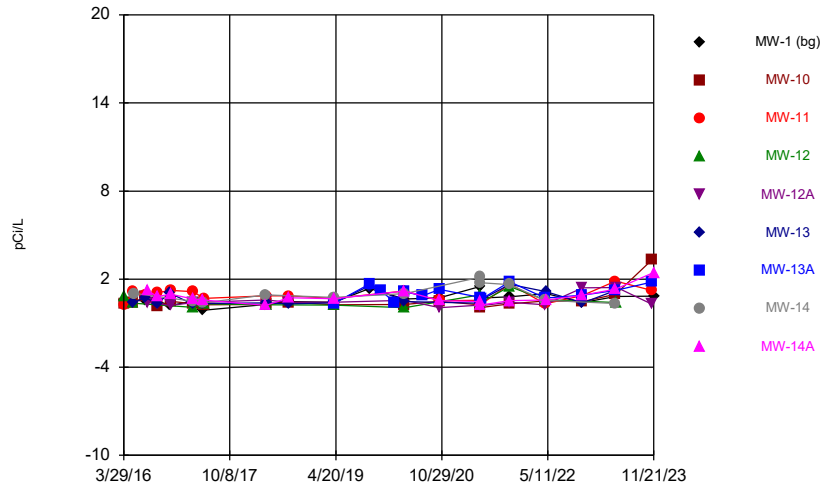
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Time Series



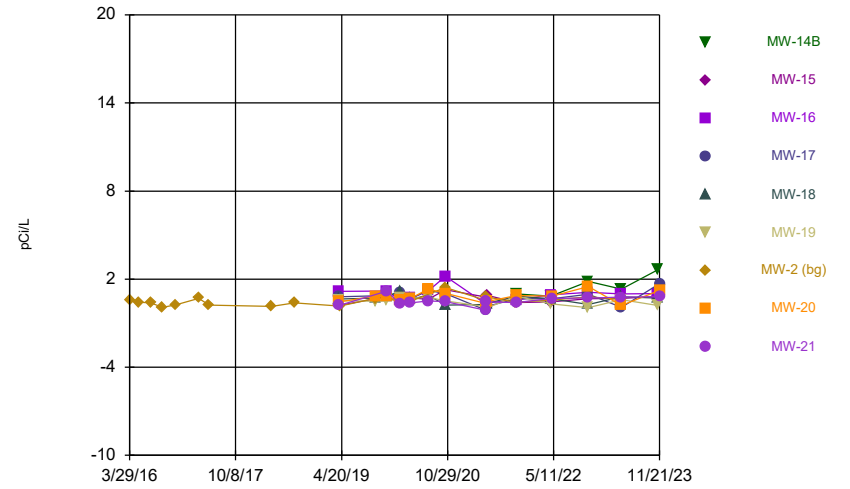
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Time Series



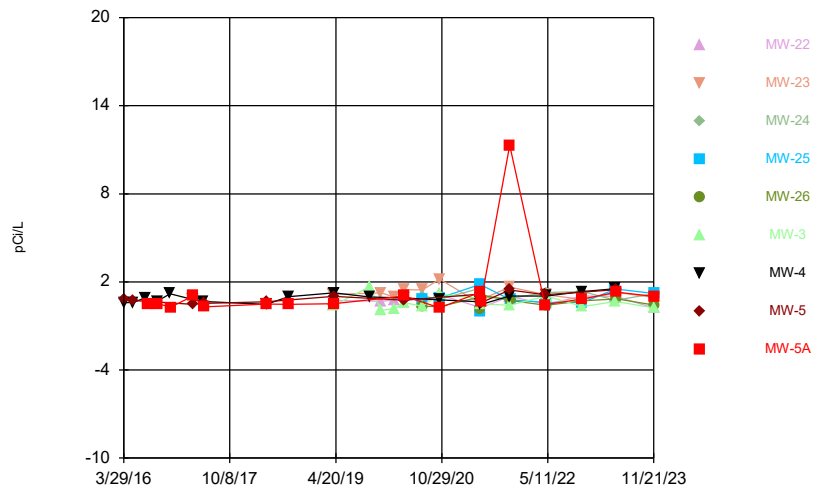
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Time Series



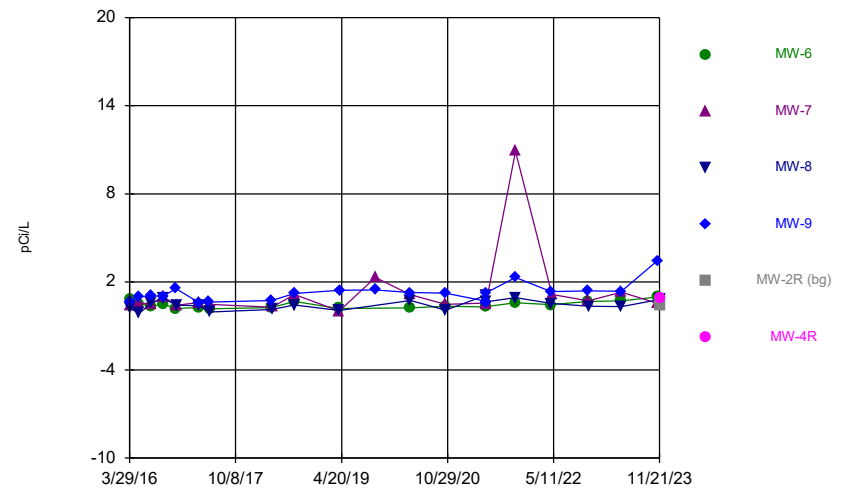
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Time Series



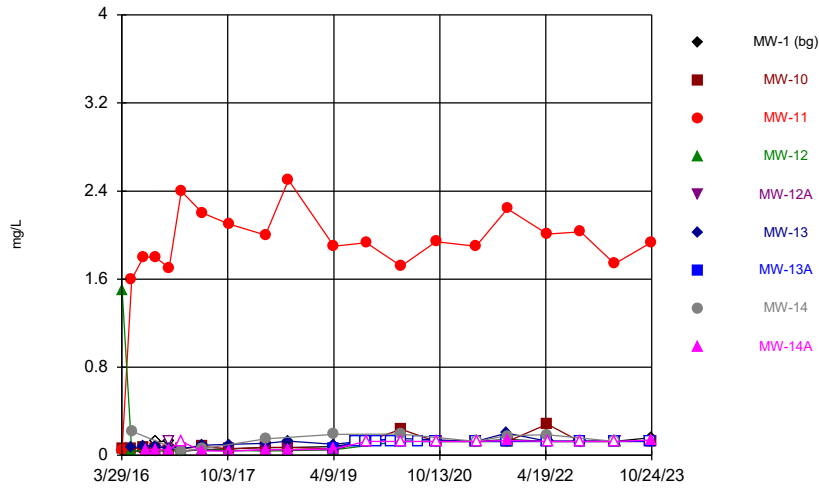
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Time Series



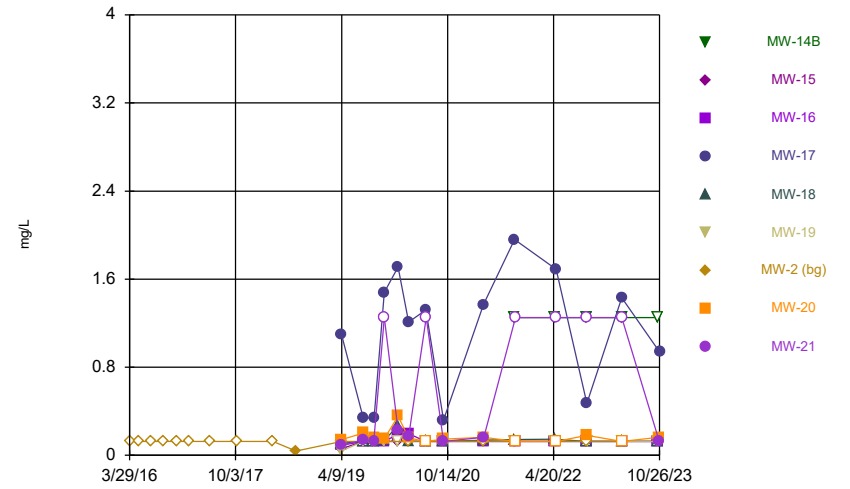
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Time Series



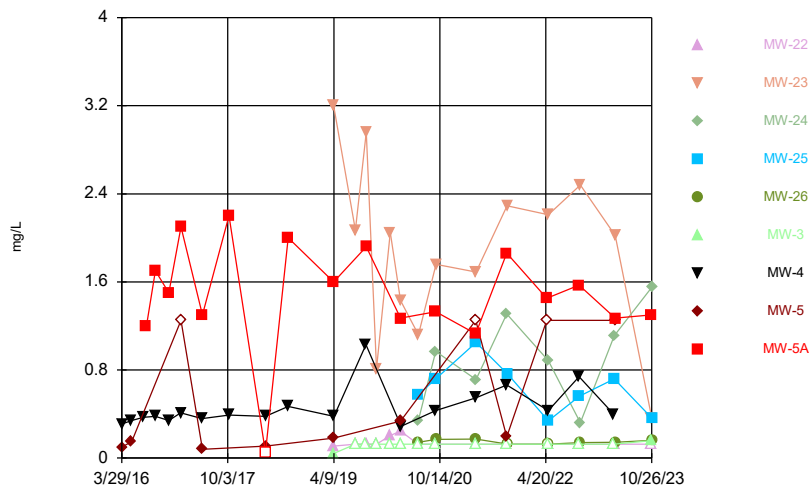
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Time Series



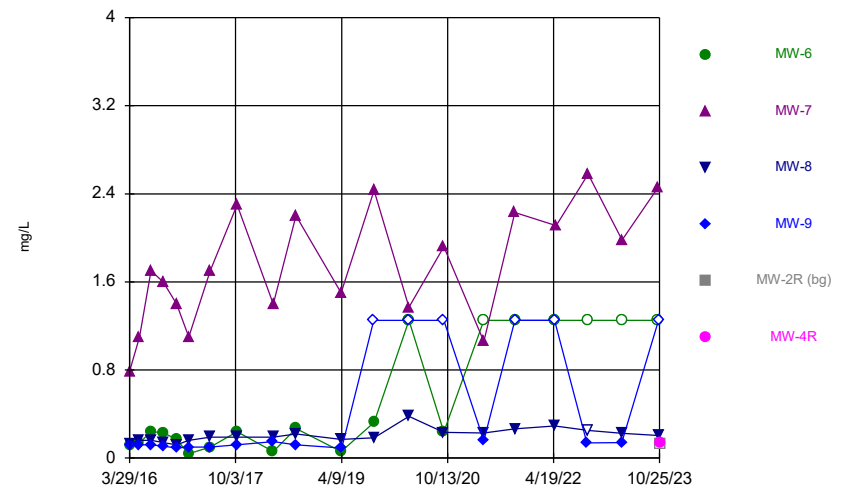
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Time Series



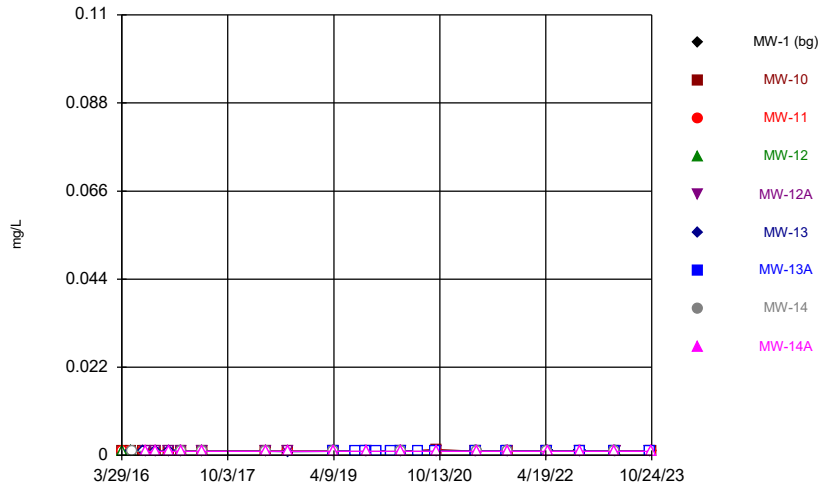
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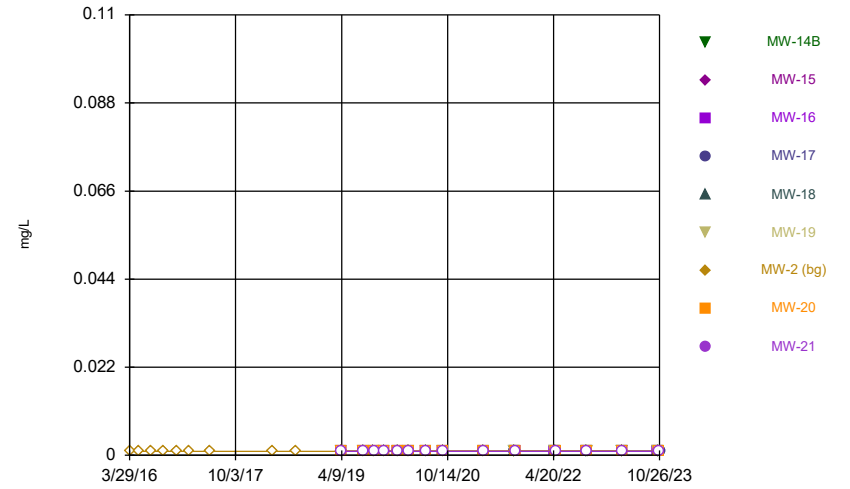
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Time Series



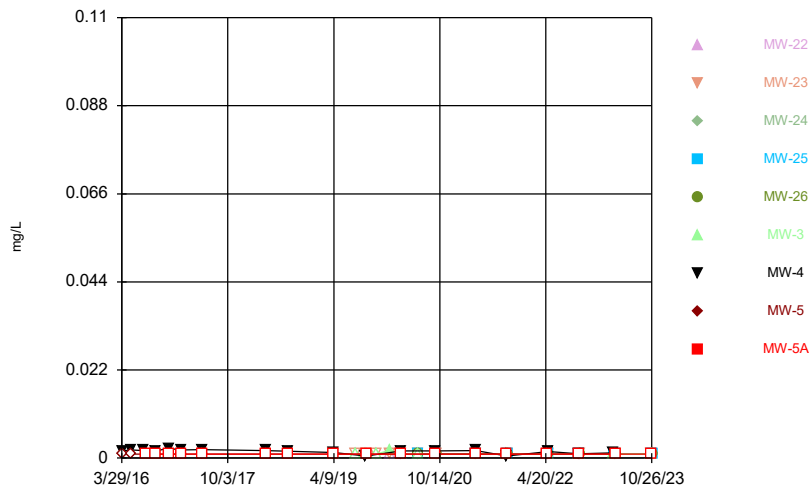
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Time Series



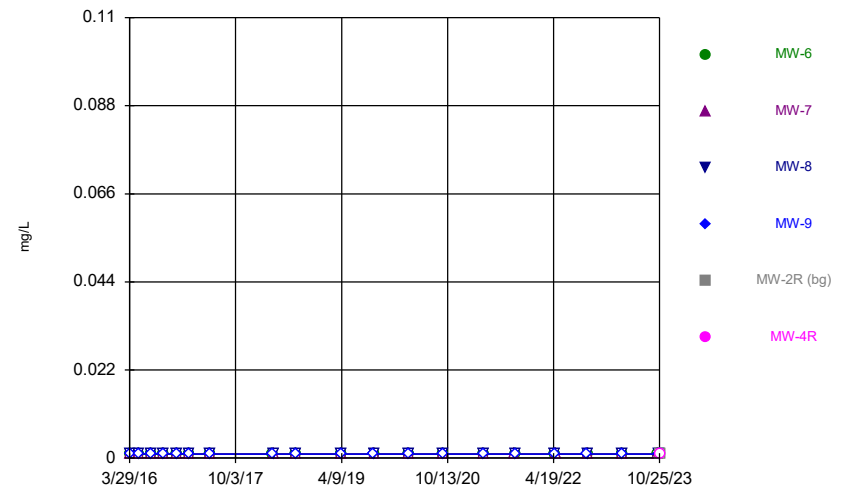
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Time Series



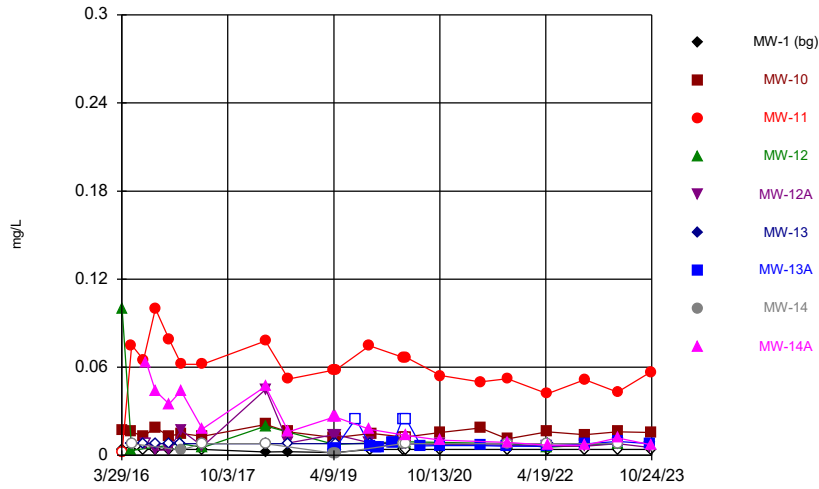
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Time Series



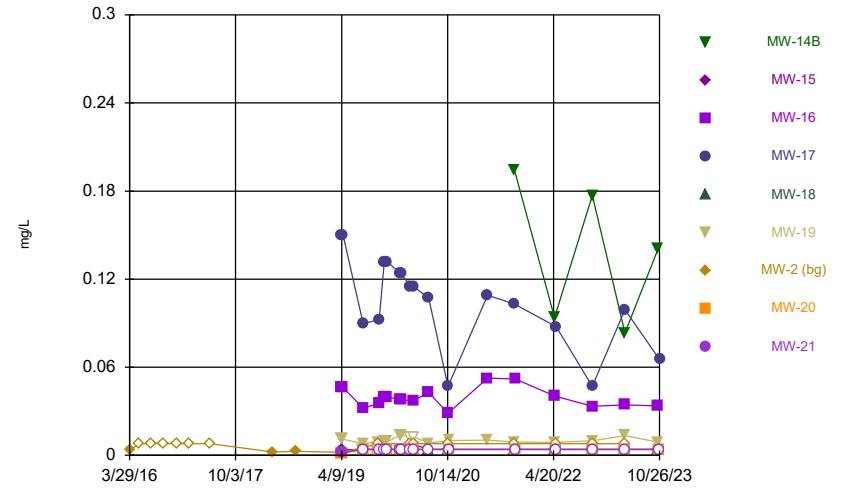
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Time Series



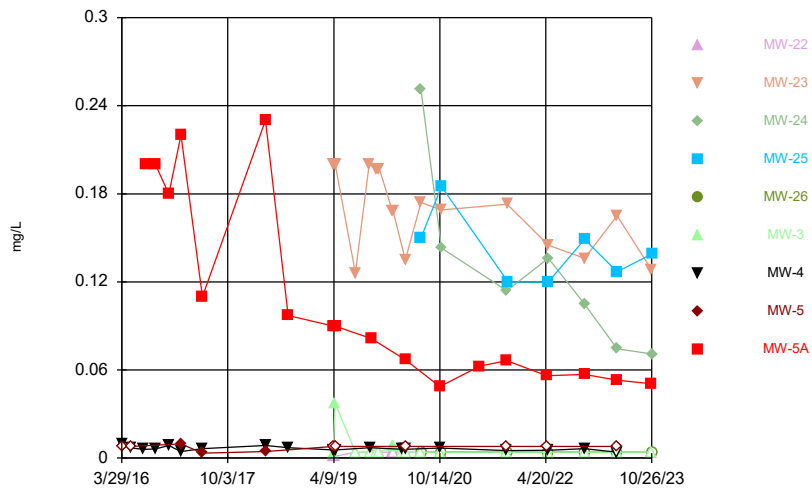
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Time Series



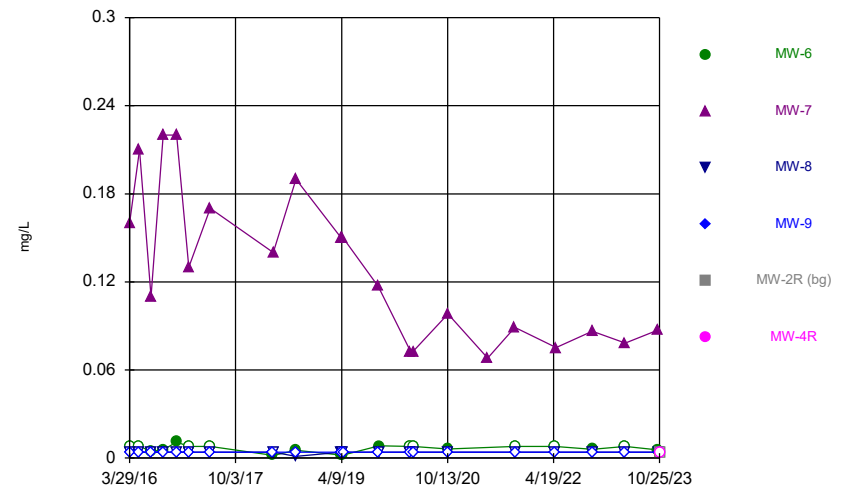
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Time Series



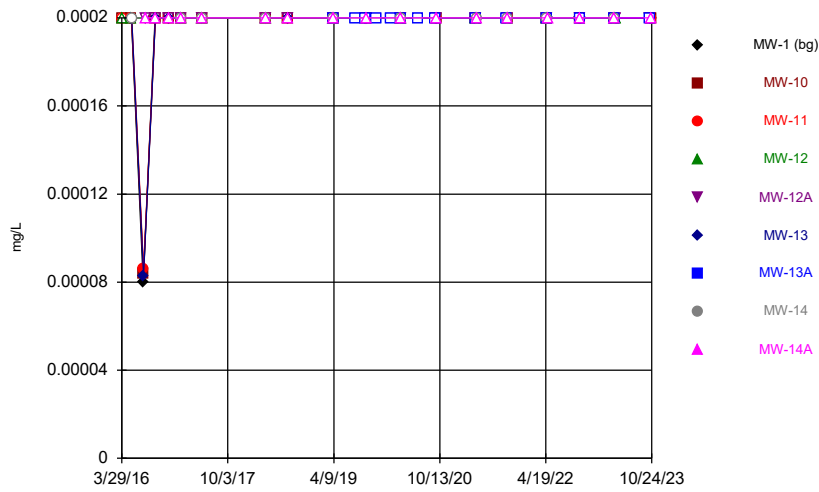
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Time Series



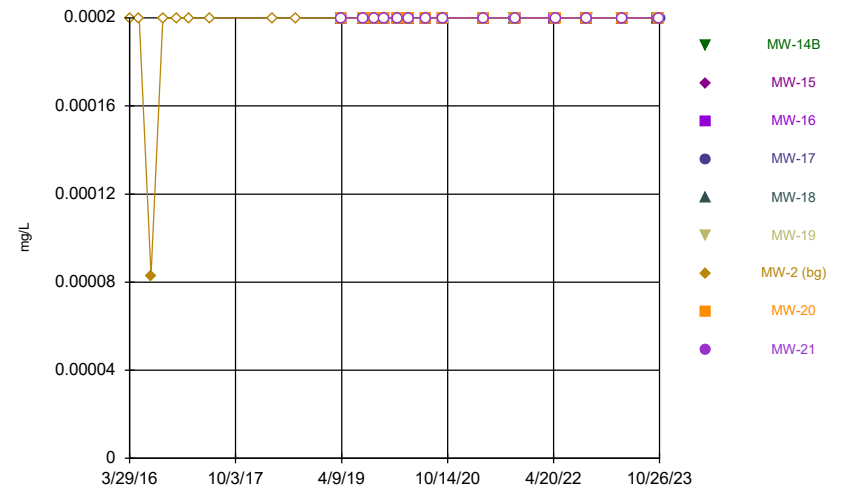
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Time Series



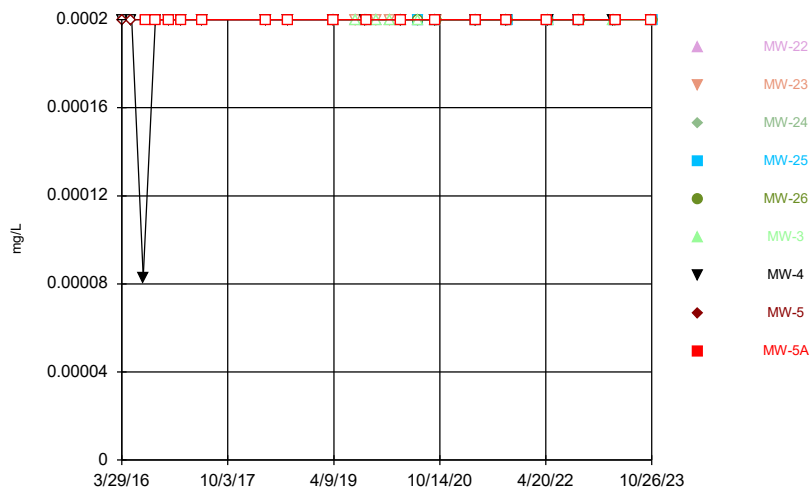
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Time Series



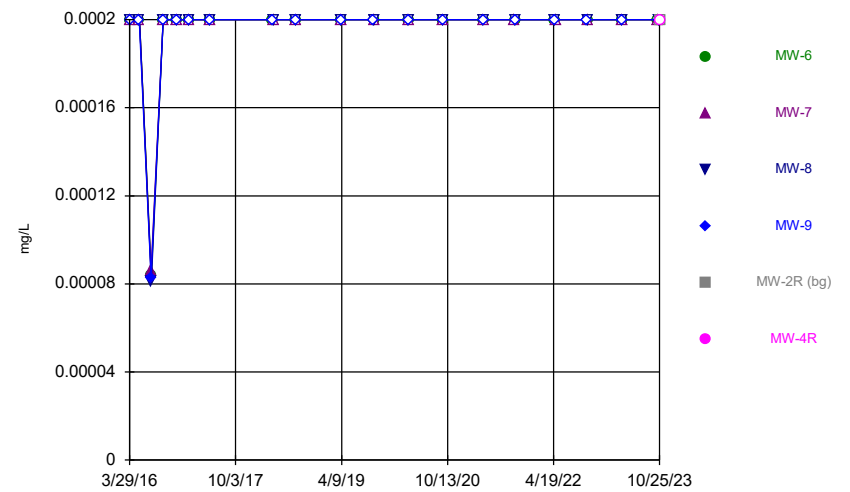
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Time Series



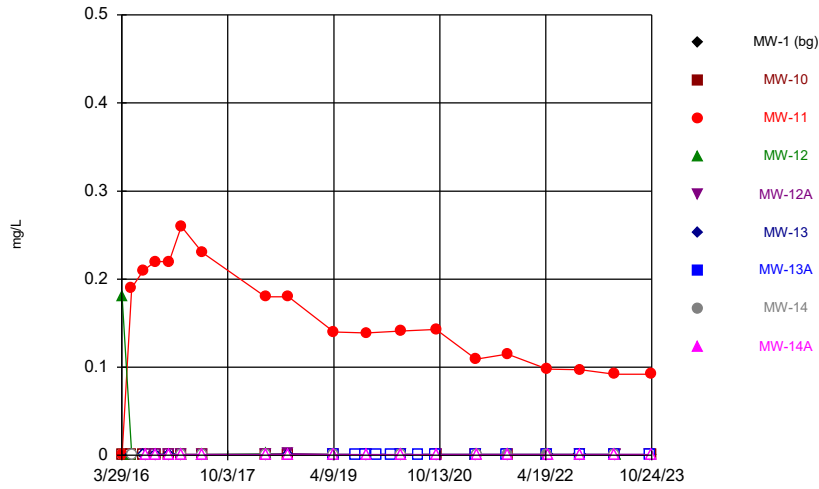
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Time Series



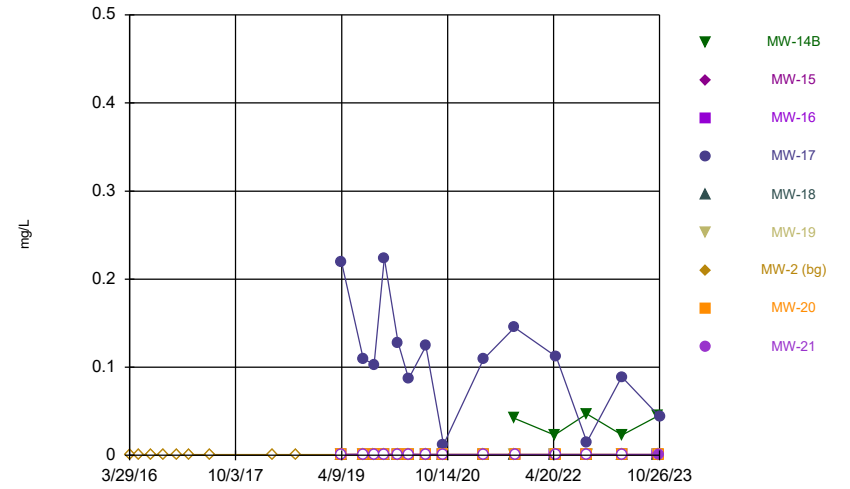
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Time Series



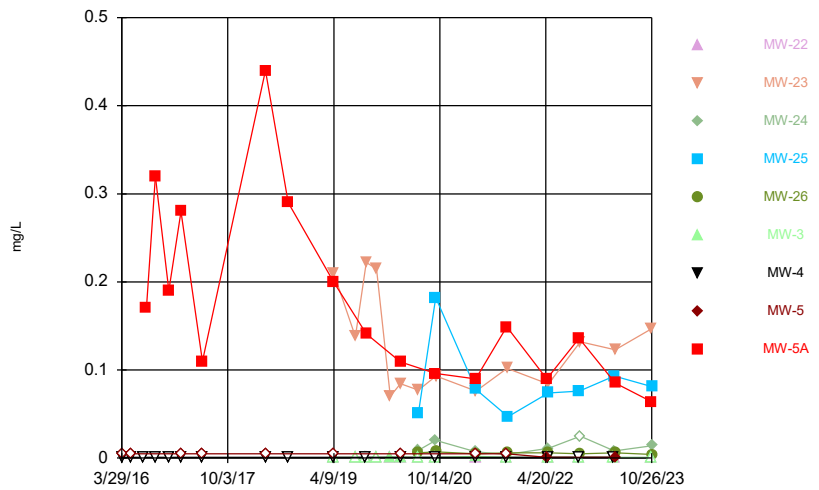
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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



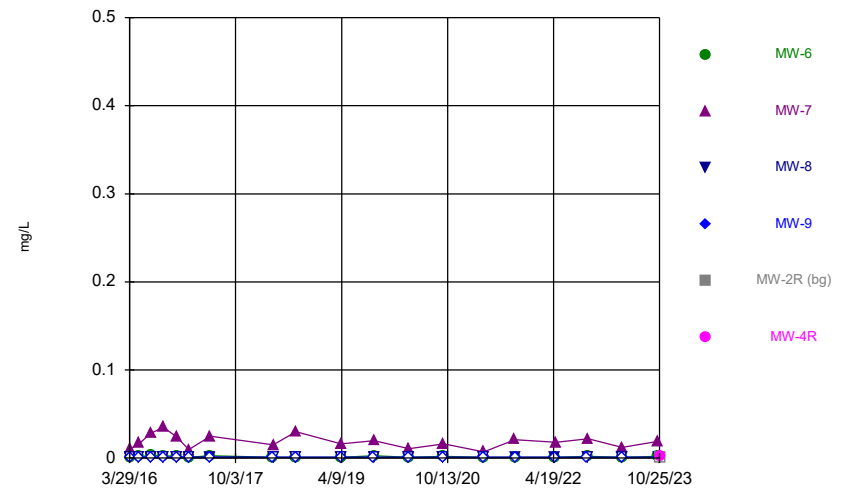
Constituent: Molybdenum Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



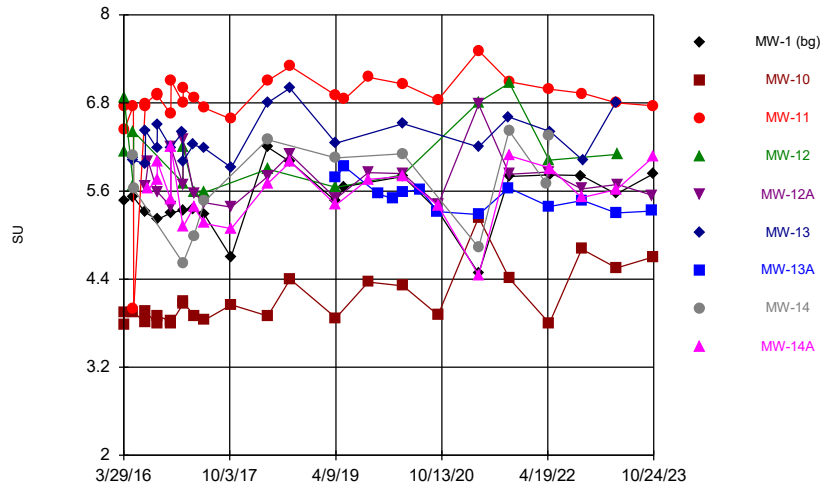
Constituent: Molybdenum Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



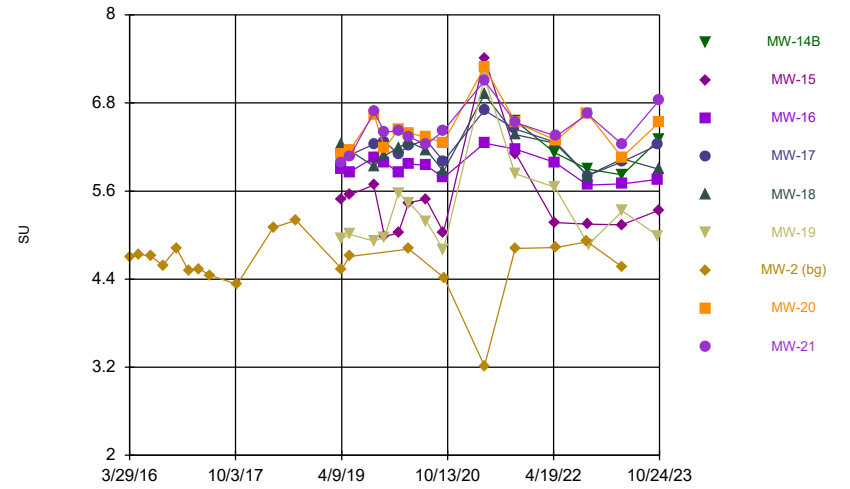
Constituent: Molybdenum Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



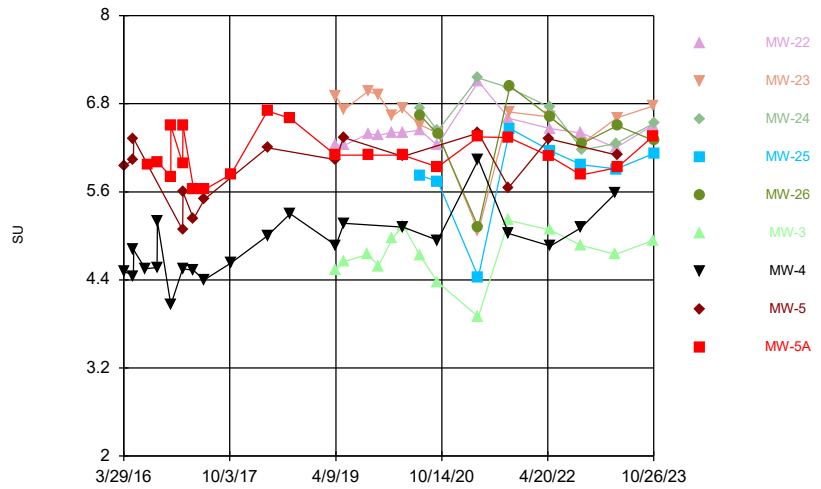
Constituent: pH, Field Analysis Run 1/16/2024 6:55 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



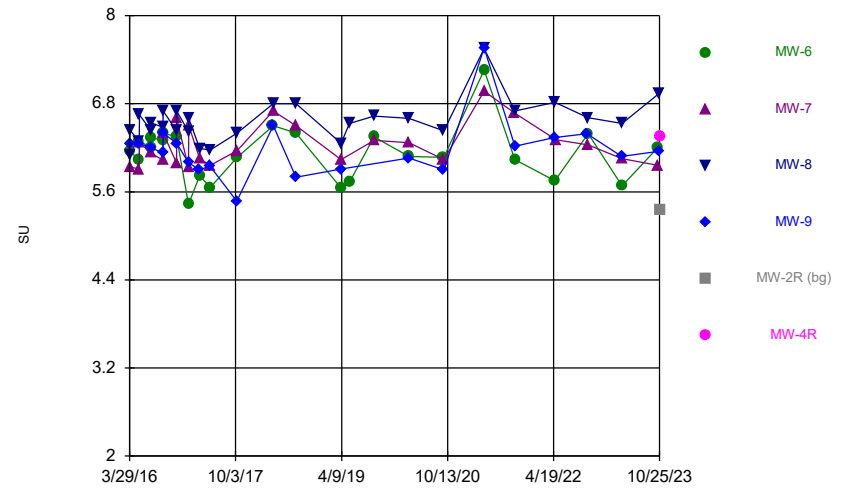
Constituent: pH, Field Analysis Run 1/16/2024 6:55 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



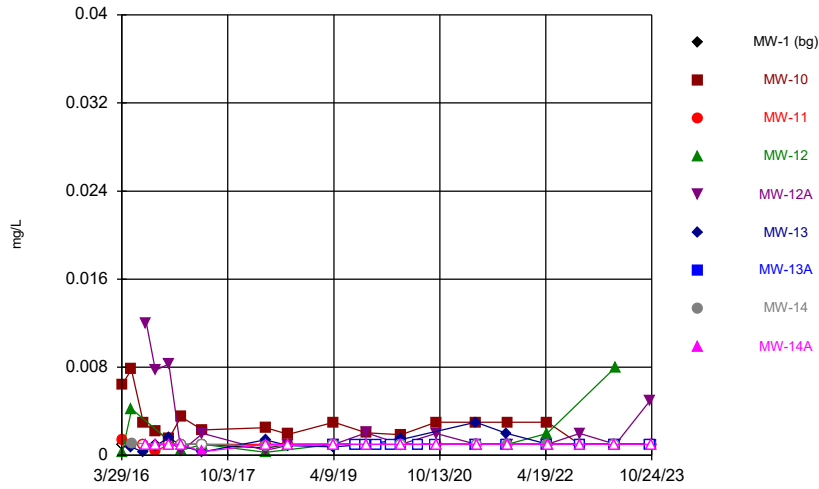
Constituent: pH, Field Analysis Run 1/16/2024 6:55 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



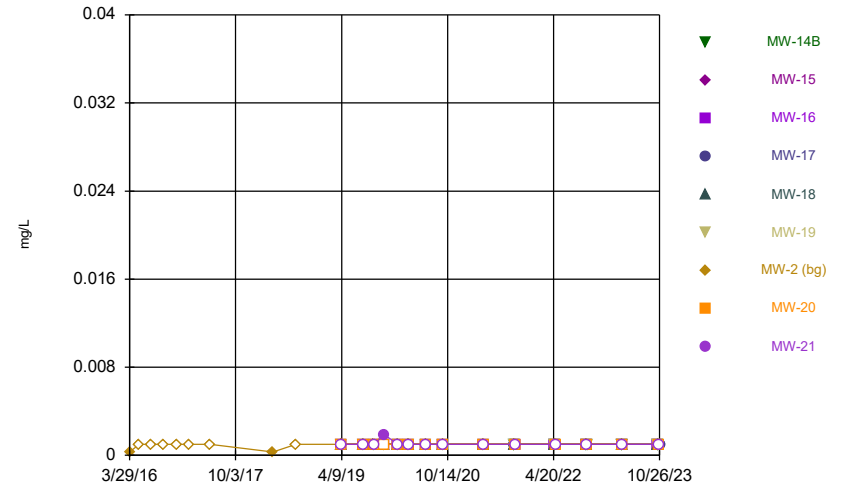
Constituent: pH, Field Analysis Run 1/16/2024 6:55 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



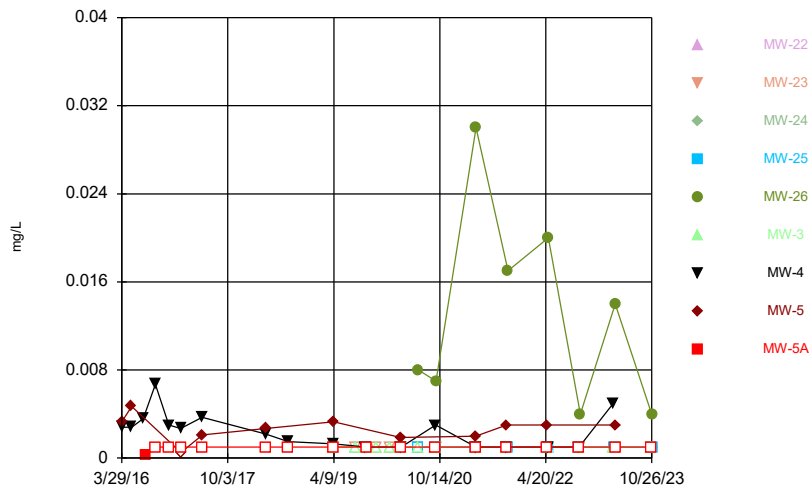
Constituent: Selenium Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



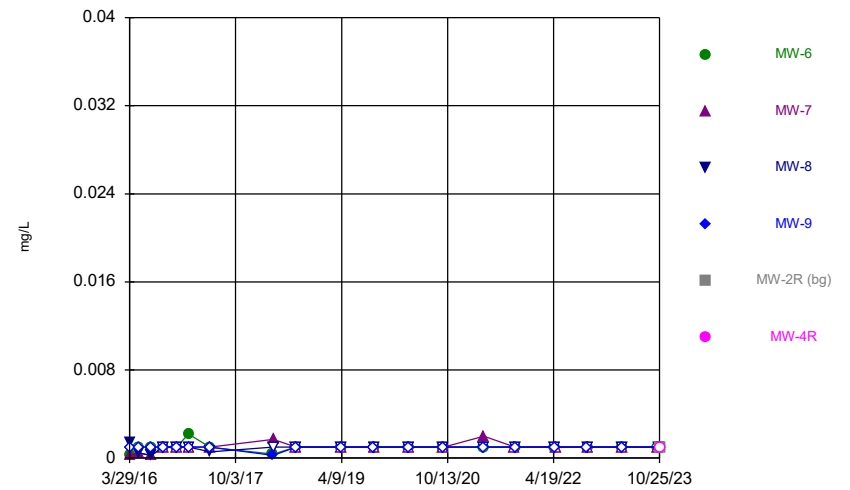
Constituent: Selenium Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



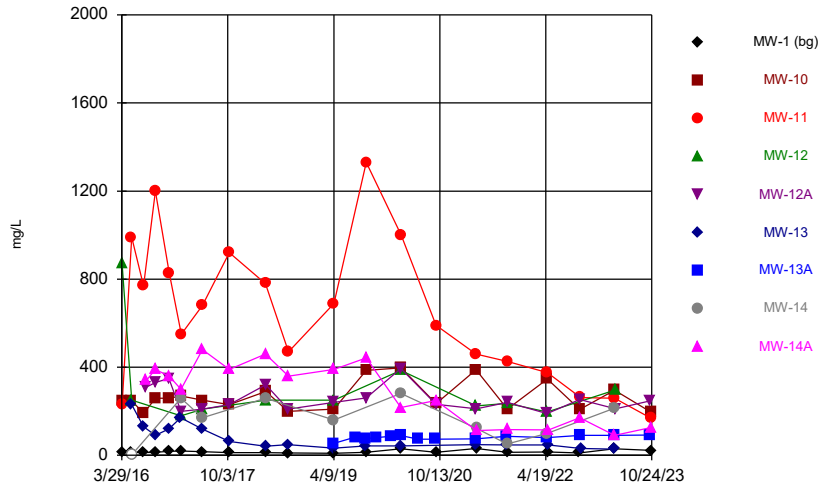
Constituent: Selenium Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



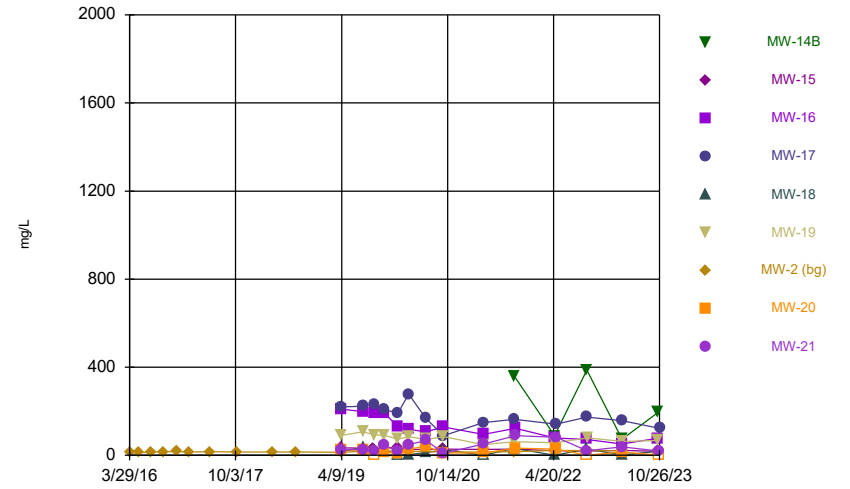
Constituent: Selenium Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



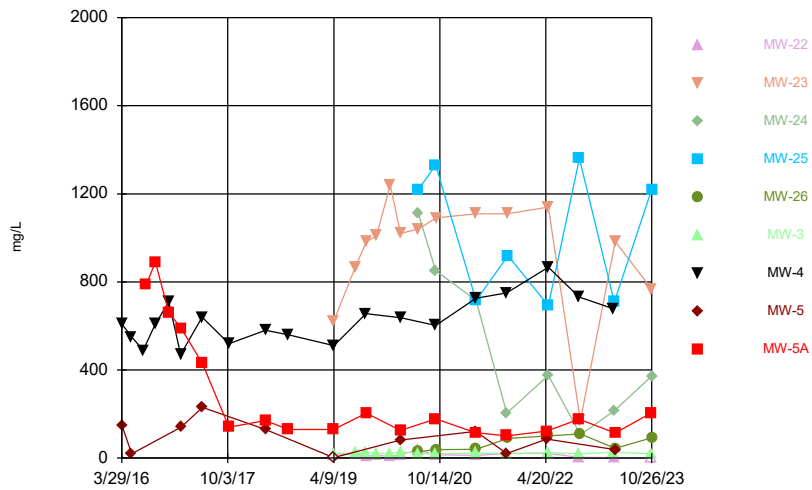
Constituent: Sulfate as SO4 Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



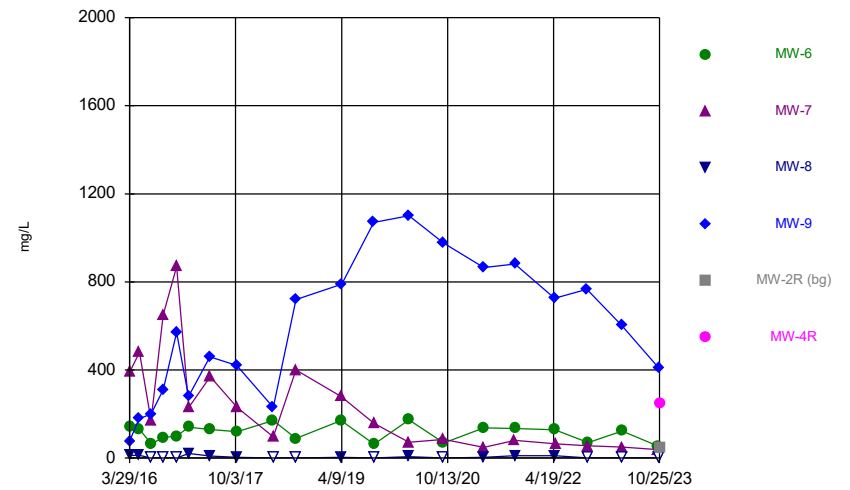
Constituent: Sulfate as SO4 Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



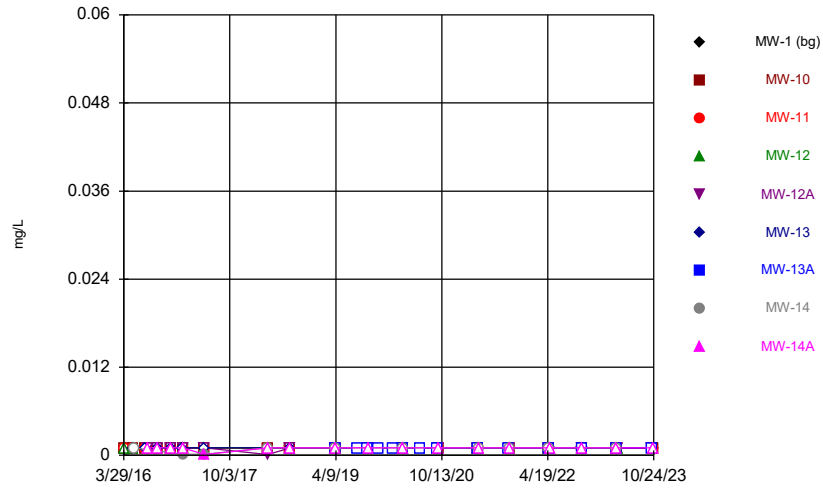
Constituent: Sulfate as SO4 Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



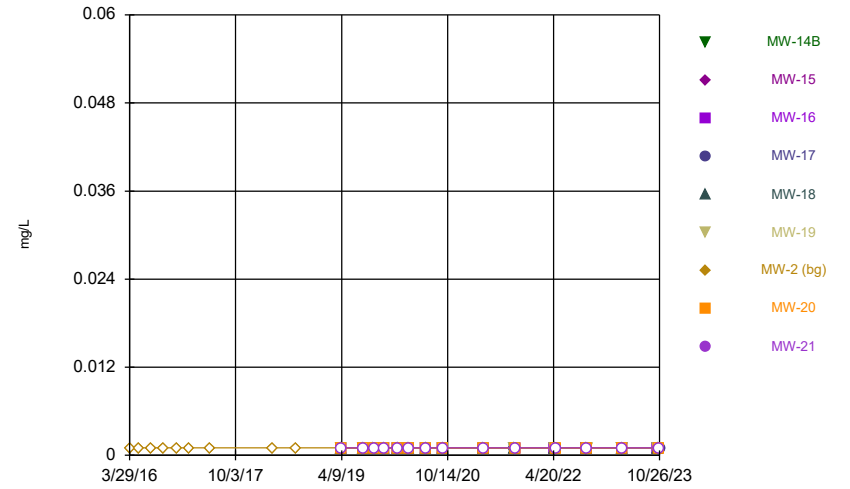
Constituent: Sulfate as SO4 Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



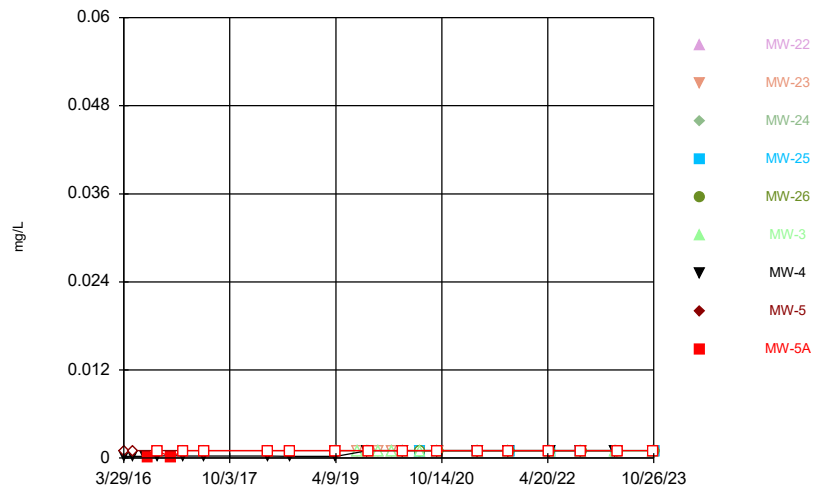
Constituent: Thallium Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



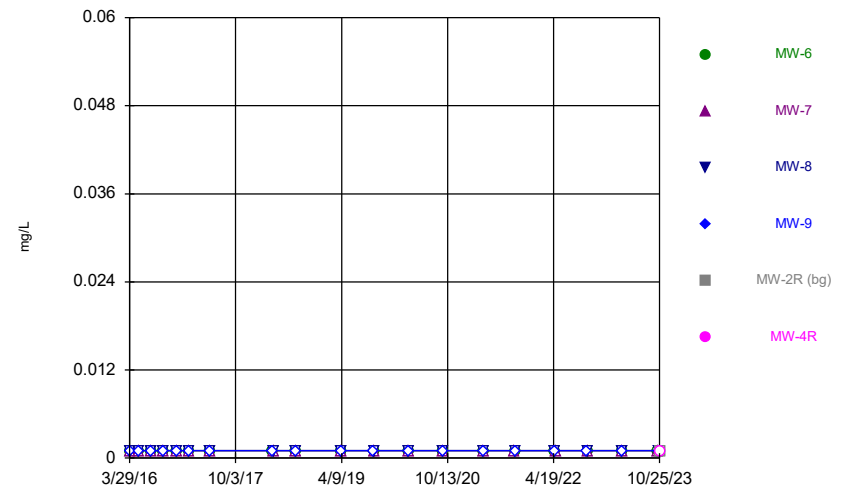
Constituent: Thallium Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



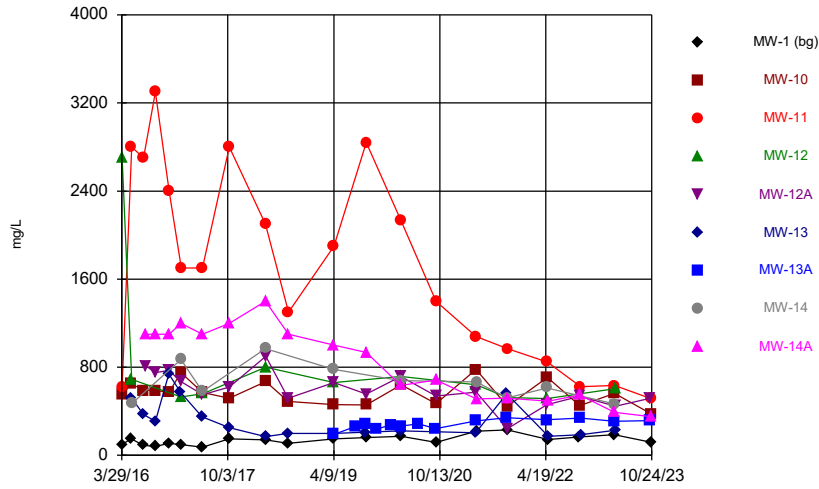
Constituent: Thallium Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



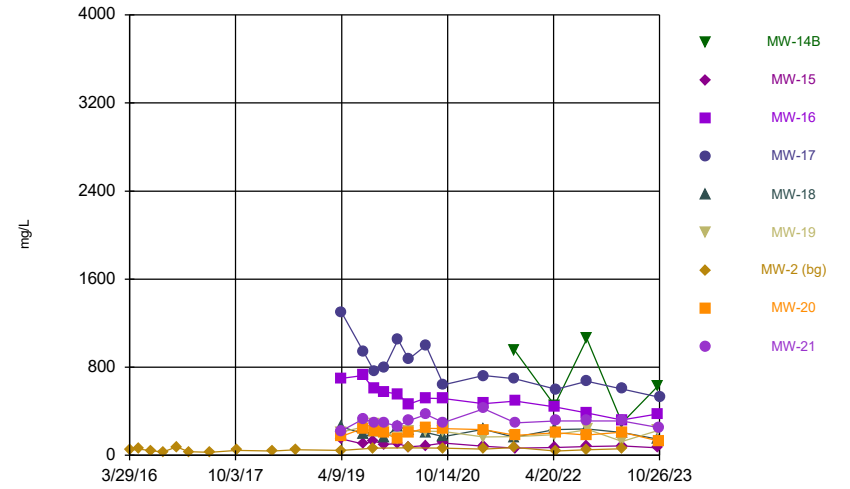
Constituent: Thallium Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



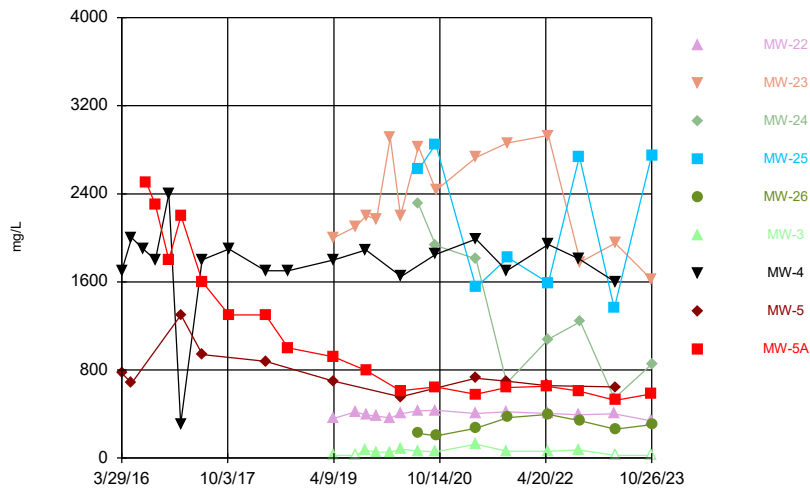
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



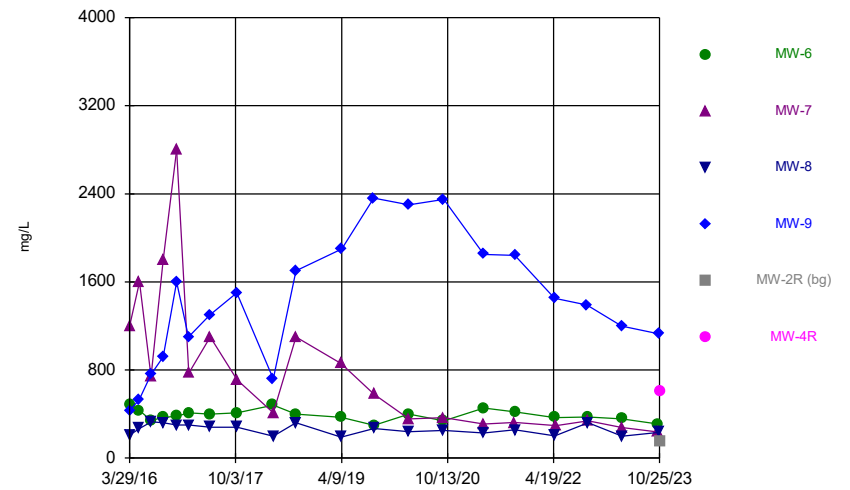
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 6:55 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	<0.001								
3/30/2016		<0.001	<0.001	<0.001					
5/18/2016	<0.001	<0.001							
5/19/2016			<0.001	<0.001		<0.001			
5/20/2016								<0.001	
7/19/2016	<0.001								
7/20/2016		<0.001	<0.001			<0.001			
8/4/2016					<0.001				<0.001
9/19/2016	<0.001								
9/20/2016		<0.001			<0.001				
9/21/2016			<0.001			<0.001			<0.001
11/29/2016	<0.001					<0.001			
11/30/2016		<0.001			<0.001				
12/1/2016			<0.001						<0.001
1/30/2017						<0.001			
1/31/2017	<0.001							<0.001	<0.001
2/1/2017		<0.001		<0.001	<0.001				
2/2/2017			<0.001						
5/22/2017						<0.001			
5/23/2017	<0.001							<0.001	<0.001
5/24/2017		<0.001	<0.001						
5/25/2017				<0.001	<0.001				
4/17/2018	<0.001							<0.001	<0.001
4/18/2018			<0.001			<0.001			
4/19/2018		<0.001		<0.001	<0.001				
8/13/2018						<0.001			
8/14/2018	<0.001	<0.001			<0.001				
8/15/2018			<0.001						<0.001
4/9/2019		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
4/10/2019	<0.001							<0.001	<0.001
8/1/2019							<0.001		
9/23/2019						<0.001	<0.001		
9/24/2019	<0.001								
9/26/2019		<0.001	<0.001		<0.001				<0.001
11/18/2019							<0.001		
1/30/2020							<0.001		
3/23/2020									<0.001
3/24/2020				<0.001	<0.001			<0.001	
3/25/2020		<0.001	<0.001			<0.001	<0.001		
3/26/2020	<0.001								
6/23/2020							<0.001		
9/21/2020							<0.001		
9/23/2020	<0.001	<0.001							
9/24/2020			<0.001		<0.001				<0.001
4/19/2021						<0.001	<0.001		
4/20/2021		<0.001	<0.001						
4/21/2021				<0.001	<0.001				
4/22/2021	<0.001							<0.001	<0.001
9/28/2021						<0.001	<0.001		
9/29/2021								<0.001	<0.001
9/30/2021	<0.001	<0.001							
10/1/2021			<0.001	<0.001	<0.001				

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
4/25/2022				<0.001	<0.001				
4/26/2022								<0.001	
4/27/2022		<0.001	<0.001				<0.001		
5/2/2022	<0.001					<0.001			
5/4/2022									<0.001
10/11/2022	<0.001								
10/12/2022									<0.001
10/13/2022		<0.001			<0.001				
10/17/2022			<0.001				<0.001		
10/18/2022						<0.001			
4/10/2023						<0.001			
4/11/2023	<0.001						<0.001		
4/12/2023		<0.001	<0.001						
4/13/2023								<0.001	<0.001
4/18/2023				<0.001	<0.001				
10/17/2023					<0.001		<0.001		
10/18/2023		<0.001	<0.001						
10/23/2023	<0.001								
10/24/2023									<0.001

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							<0.001		
5/18/2016							<0.001		
7/19/2016							<0.001		
9/19/2016							<0.001		
11/29/2016							<0.001		
1/31/2017							<0.001		
5/23/2017							<0.001		
4/17/2018							<0.001		
8/14/2018							<0.001		
4/6/2019								<0.001	<0.001
4/7/2019		<0.001			<0.001	<0.001			
4/8/2019			<0.001	<0.001					
4/10/2019							<0.001		
7/31/2019		<0.001	<0.001	<0.001					
8/1/2019					<0.001	<0.001		<0.001	<0.001
9/24/2019		<0.001			<0.001		<0.001		
9/25/2019			<0.001			<0.001		<0.001	<0.001
9/26/2019				<0.001					
11/19/2019			<0.001	<0.001	<0.001				<0.001
11/20/2019		<0.001				<0.001		<0.001	
1/29/2020						<0.001		<0.001	<0.001
1/30/2020		<0.001	<0.001	<0.001	<0.001				
3/23/2020		<0.001	<0.001						
3/25/2020				<0.001	<0.001	<0.001		<0.001	<0.001
3/26/2020							<0.001		
6/22/2020		<0.001	<0.001						
6/23/2020				<0.001	<0.001	<0.001		<0.001	
6/24/2020									<0.001
9/21/2020		<0.001						<0.001	
9/22/2020			<0.001	<0.001	<0.001	<0.001			<0.001
9/23/2020							<0.001		
4/19/2021				<0.001	<0.001				
4/20/2021		<0.001	<0.001			<0.001		<0.001	
4/21/2021									<0.001
4/22/2021							<0.001		
9/28/2021				<0.001		<0.001			
9/29/2021	<0.001				<0.001				
9/30/2021							<0.001		
10/4/2021		<0.001	<0.001					<0.001	<0.001
4/26/2022	<0.001	<0.001	<0.001		<0.001	<0.001			
5/2/2022							<0.001		
5/3/2022				<0.001					<0.001
5/4/2022								<0.001	
10/11/2022							<0.001	<0.001	
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
10/13/2022									<0.001
10/18/2022						<0.001			
4/11/2023							<0.001	<0.001	<0.001
4/12/2023		<0.001	<0.001	<0.001	<0.001				
4/13/2023	<0.001					<0.001			
10/17/2023		<0.001	<0.001			<0.001			
10/18/2023	<0.001								

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/19/2023					0.0015				
10/24/2023								<0.001	<0.001
10/26/2023				<0.001					

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							<0.001	<0.001	
5/19/2016							<0.001	<0.001	
7/19/2016							<0.001		
8/4/2016									<0.001
9/20/2016							<0.001		<0.001
11/29/2016							<0.001		
11/30/2016									<0.001
1/31/2017							<0.001		
2/1/2017								<0.001	<0.001
5/23/2017							<0.001		
5/24/2017								<0.001	<0.001
4/18/2018							<0.001	<0.001	<0.001
8/14/2018							<0.001		
8/15/2018									<0.001
4/6/2019						<0.001			
4/7/2019	<0.001								
4/8/2019		<0.001							
4/9/2019								<0.001	<0.001
4/10/2019							<0.001		
7/31/2019	<0.001								
8/1/2019		<0.001				<0.001			
9/24/2019						<0.001	<0.001		
9/26/2019	<0.001								<0.001
9/27/2019		<0.001							
11/18/2019						<0.001			
11/19/2019	<0.001	<0.001							
1/29/2020	<0.001					<0.001			
1/30/2020		<0.001							
3/23/2020	<0.001	<0.001						<0.001	<0.001
3/26/2020						<0.001	<0.001		
6/23/2020	<0.001					<0.001			
6/24/2020		<0.001	<0.001	<0.001	<0.001				
9/21/2020	<0.001								
9/22/2020			<0.001			<0.001			<0.001
9/23/2020				<0.001			<0.001		
9/24/2020		<0.001			<0.001				
4/19/2021								<0.001	<0.001
4/20/2021	<0.001								
4/21/2021			<0.001				<0.001		
4/22/2021		<0.001		<0.001	<0.001	<0.001			
9/28/2021			<0.001				<0.001	<0.001	<0.001
9/29/2021						<0.001			
9/30/2021	<0.001								
10/1/2021		<0.001							
10/5/2021				<0.001	<0.001				
4/26/2022								<0.001	<0.001
5/2/2022	<0.001								
5/3/2022			<0.001			<0.001	<0.001		
5/4/2022		<0.001		<0.001	<0.001				
10/11/2022						<0.001	<0.001		
10/12/2022									<0.001
10/13/2022	<0.001			<0.001					

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/18/2022		<0.001	<0.001		<0.001				
4/10/2023						<0.001	<0.001		
4/12/2023	<0.001								
4/13/2023			<0.001	<0.001					
4/18/2023		<0.001			<0.001			<0.001	<0.001
10/23/2023						<0.001			
10/24/2023	<0.001								<0.001
10/25/2023		<0.001							
10/26/2023			<0.001	<0.001	<0.001				

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	<0.001	<0.001		<0.001		
3/30/2016			<0.001			
5/18/2016				<0.001		
5/19/2016	<0.001	<0.001	<0.001			
7/19/2016		<0.001		<0.001		
7/20/2016	<0.001		<0.001			
9/20/2016	<0.001	<0.001	<0.001	<0.001		
11/29/2016	<0.001			<0.001		
11/30/2016		<0.001	<0.001			
1/31/2017	<0.001			<0.001		
2/1/2017		<0.001	<0.001			
5/22/2017				<0.001		
5/24/2017	<0.001	<0.001	<0.001			
4/17/2018	<0.001			<0.001		
4/18/2018		<0.001	<0.001			
8/14/2018				<0.001		
8/15/2018	<0.001	<0.001	<0.001			
4/7/2019	<0.001	<0.001	<0.001			
4/10/2019				<0.001		
9/24/2019				<0.001		
9/25/2019	<0.001	<0.001				
9/26/2019			<0.001			
3/26/2020	<0.001	<0.001	<0.001	<0.001		
9/23/2020	<0.001	<0.001	<0.001	<0.001		
4/20/2021		<0.001				
4/21/2021	<0.001		<0.001	<0.001		
9/29/2021		<0.001				
9/30/2021	<0.001		<0.001	<0.001		
4/25/2022				<0.001		
4/27/2022	<0.001		<0.001			
5/3/2022		<0.001				
10/11/2022				<0.001		
10/17/2022	<0.001	<0.001	<0.001			
4/11/2023				<0.001		
4/12/2023	<0.001	<0.001	<0.001			
10/17/2023	<0.001					
10/18/2023		<0.001				
10/19/2023				<0.001		
10/23/2023			<0.001			
10/25/2023					<0.001	<0.001

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	0.00072 (J)								
3/30/2016		0.00054 (J)	<0.005	0.0027					
5/18/2016	<0.0013	0.00063 (J)							
5/19/2016			0.003	<0.001		0.00074 (J)			
5/20/2016								0.2	
7/19/2016	0.0014								
7/20/2016		<0.001	0.0031			0.00074 (J)			
8/4/2016					0.00051 (J)				0.0015
9/19/2016	<0.0013								
9/20/2016		<0.001			<0.001				
9/21/2016			0.0037			0.00067 (J)			0.00099 (J)
11/29/2016	<0.0013					0.00088 (J)			
11/30/2016		<0.001			<0.001				
12/1/2016			0.0028						0.0036
1/30/2017						0.00088 (J)			
1/31/2017	0.0011 (J)							0.00078 (J)	0.00094 (J)
2/1/2017		<0.001		<0.001	<0.001				
2/2/2017			0.0035						
5/22/2017						0.00078 (J)			
5/23/2017	0.00083 (J)							0.0013	0.0012 (J)
5/24/2017		<0.001	0.0032						
5/25/2017				<0.001	<0.001				
4/17/2018	0.0019							0.017	0.0045
4/18/2018			0.0037			0.0028			
4/19/2018		0.00054 (J)		0.00053 (J)	0.00068 (J)				
8/13/2018						<0.001			
8/14/2018	0.00073 (J)	<0.001			<0.001				
8/15/2018			0.0029						0.004
4/9/2019		<0.001	0.0033	<0.001	<0.001	0.00082 (J)	0.0069		
4/10/2019	0.0014							0.017	0.0075
8/1/2019							0.0123		
9/23/2019						<0.001	0.0113		
9/24/2019	0.00139								
9/26/2019		<0.001	<0.005		<0.001				0.00416
11/18/2019							0.00988		
1/30/2020							0.0112		
3/23/2020									0.00593
3/24/2020				<0.001	<0.001			0.00726	
3/25/2020		<0.001	0.00301			0.00271	0.0132		
3/26/2020	0.00235								
6/23/2020							0.0134		
9/21/2020							0.0105		
9/23/2020	0.002	<0.001							
9/24/2020			0.0036		<0.001				0.0077
4/19/2021						0.0021	0.0092		
4/20/2021		<0.001	0.0028						
4/21/2021				<0.001	<0.001				
4/22/2021	0.0017							0.0132	0.0106
9/28/2021						0.0018	0.0103		
9/29/2021								0.0368	0.0117
9/30/2021	0.0023	<0.001							
10/1/2021			0.0033	<0.001	<0.001				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
4/25/2022				<0.001	0.0597				
4/26/2022								0.0635	
4/27/2022		<0.001	0.0025				0.0092		
5/2/2022	0.0024					0.0017			
5/4/2022									0.0091
10/11/2022	0.0023								
10/12/2022									0.0054
10/13/2022		<0.001			<0.001				
10/17/2022			0.0025				0.0071		
10/18/2022						0.003			
4/10/2023						0.0098			
4/11/2023	0.0012						0.0081		
4/12/2023		<0.001	0.0028						
4/13/2023								0.014	0.0067
4/18/2023				<0.001	<0.001				
10/17/2023					<0.001		0.0081		
10/18/2023		<0.001	0.0022						
10/23/2023	0.0031								
10/24/2023									0.0066

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							<0.001		
5/18/2016							<0.001		
7/19/2016							0.00055 (J)		
9/19/2016							<0.001		
11/29/2016							<0.001		
1/31/2017							<0.001		
5/23/2017							<0.001		
4/17/2018							<0.001		
8/14/2018							<0.001		
4/6/2019								0.051	0.0059
4/7/2019		0.0012 (J)			0.0063	<0.001			
4/8/2019			0.0046	0.016					
4/10/2019							<0.001		
7/31/2019		0.00227	0.00742	0.0307					
8/1/2019					<0.001	<0.001		0.0421	0.00729
9/24/2019		0.00156			<0.001		<0.001		
9/25/2019			0.00861			<0.001		0.033	0.00632
9/26/2019				0.0155					
11/19/2019			0.00501	0.0523	<0.001				0.00594
11/20/2019		<0.001				<0.001		0.036	
1/29/2020						<0.001		0.0359	0.00866
1/30/2020		<0.001	0.00315	0.0458	0.00691				
3/23/2020		<0.001	0.00379						
3/25/2020				0.0542	0.00443	<0.001		0.0377	0.00574
3/26/2020							<0.001		
6/22/2020		<0.001	0.0037						
6/23/2020				0.0426	0.0015	<0.001		0.0381	
6/24/2020									0.0051
9/21/2020		<0.001						0.0446	
9/22/2020			0.0071	0.0241	<0.001	<0.001			0.0071
9/23/2020							<0.001		
4/19/2021				0.0448	0.0067				
4/20/2021		<0.001	0.0025			<0.001		0.0289	
4/21/2021									0.0145
4/22/2021							<0.001		
9/28/2021				0.0634		<0.001			
9/29/2021	0.001				<0.001				
9/30/2021							<0.001		
10/4/2021		<0.001	0.0031					0.0294	0.0083
4/26/2022	<0.001	<0.001	0.0018		0.0031	<0.001			
5/2/2022							<0.001		
5/3/2022				0.0472					0.0134
5/4/2022								0.0282	
10/11/2022							<0.001	0.0244	
10/12/2022	0.0017	<0.001	0.0039	0.0214	<0.001				
10/13/2022									0.0055
10/18/2022						<0.001			
4/11/2023							<0.001	0.0259	0.0055
4/12/2023		<0.001	0.0014	0.0569	0.0109				
4/13/2023	0.001					<0.001			
10/17/2023		<0.001	0.0031			<0.001			
10/18/2023	0.0016								

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/19/2023					<0.001				
10/24/2023								0.0242	0.0041
10/26/2023				0.0177					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							0.0054	0.012	
5/19/2016							0.0073	0.032	
7/19/2016							0.0049		
8/4/2016									0.0034
9/20/2016							0.0059		0.0016
11/29/2016							0.004		
11/30/2016									0.0026
1/31/2017							0.0064		
2/1/2017								<0.0013	0.0028
5/23/2017							0.0039		
5/24/2017								0.0082	0.0023
4/18/2018							0.0034	0.013	0.0036
8/14/2018							0.0048		
8/15/2018									0.00094 (J)
4/6/2019						<0.001			
4/7/2019	0.0027								
4/8/2019		0.042							
4/9/2019								0.022	0.0043
4/10/2019							0.0036		
7/31/2019	0.00391								
8/1/2019		0.111				<0.001			
9/24/2019						<0.001	<0.005		
9/26/2019	0.00422								0.00212
9/27/2019		0.193							
11/18/2019						<0.001			
11/19/2019	0.00577	0.241							
1/29/2020	0.00504					0.00102			
1/30/2020		0.348							
3/23/2020	0.00515	0.305						0.0242	0.00384
3/26/2020						<0.001	0.00612		
6/23/2020	0.0046					<0.001			
6/24/2020		0.244	0.0017	0.0023	<0.001				
9/21/2020	0.0051								
9/22/2020			0.0027			<0.001			0.0019
9/23/2020				<0.01			0.0017		
9/24/2020		0.189			<0.001				
4/19/2021								0.0205	0.0036
4/20/2021	0.0044								
4/21/2021			0.0013				<0.005		
4/22/2021		0.324		0.0217	<0.001	<0.001			
9/28/2021			0.0013				0.0034	0.0779	0.0044
9/29/2021						<0.001			
9/30/2021	0.006								
10/1/2021		0.254							
10/5/2021				0.0071	0.0012				
4/26/2022								0.0508	0.0036
5/2/2022	0.0057								
5/3/2022			0.0023			<0.001	<0.005		
5/4/2022		0.241		0.0122	0.0014				
10/11/2022						<0.001	0.0012		
10/12/2022									0.002
10/13/2022	0.004			<0.01					

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/18/2022		0.117	<0.01		<0.001				
4/10/2023						<0.001	0.0212		
4/12/2023	0.0024								
4/13/2023			0.0033	0.0146					
4/18/2023		0.186			0.0011			0.0197	0.0037
10/23/2023						<0.001			
10/24/2023	0.0036								0.0023
10/25/2023		0.13							
10/26/2023			0.002	<0.01	<0.001				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	0.0095	<0.001		0.00094 (J)		
3/30/2016			0.0007 (J)			
5/18/2016				0.0012 (J)		
5/19/2016	0.017	<0.001	0.0041			
7/19/2016		<0.001		0.0013		
7/20/2016	0.022		0.05			
9/20/2016	0.023	0.00047 (J)	0.058	0.0031		
11/29/2016	0.027			0.0031		
11/30/2016		0.00085 (J)	0.06			
1/31/2017	0.0021			0.00095 (J)		
2/1/2017		<0.001	0.014			
5/22/2017				0.00084 (J)		
5/24/2017	0.0076	0.00098 (J)	0.0059			
4/17/2018	0.0021			0.00094 (J)		
4/18/2018		0.00065 (J)	0.0098			
8/14/2018				0.00071 (J)		
8/15/2018	0.019	<0.001	0.047			
4/7/2019	0.0012 (J)	<0.001	0.0016			
4/10/2019				0.00066 (J)		
9/24/2019				<0.01		
9/25/2019	0.0229	<0.001				
9/26/2019			0.0437			
3/26/2020	0.00156	<0.001	0.00815	0.00114		
9/23/2020	0.0205	<0.001	0.0396	0.0016		
4/20/2021		<0.001				
4/21/2021	<0.001		0.0157	<0.01		
9/29/2021		<0.001				
9/30/2021	<0.001		0.0097	0.0015		
4/25/2022				<0.01		
4/27/2022	<0.001		0.0196			
5/3/2022		<0.001				
10/11/2022				<0.01		
10/17/2022	0.0217	0.001	0.0316			
4/11/2023				0.0011		
4/12/2023	<0.001	<0.001	0.0125			
10/17/2023	0.0204					
10/18/2023		<0.001				
10/19/2023				0.0035		
10/23/2023			0.036			
10/25/2023					0.0085	0.004

Time Series

Constituent: Barium, Total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	0.11								
3/30/2016		0.03	0.039	0.021					
5/18/2016	0.11	0.024							
5/19/2016			0.02	0.03		0.11			
5/20/2016								0.29	
7/19/2016	0.096								
7/20/2016		0.038	0.022			0.057			
8/4/2016					0.033				0.049
9/19/2016	0.1								
9/20/2016		0.033			0.025				
9/21/2016			0.026			0.059			0.035
11/29/2016	0.093					0.091			
11/30/2016		0.028			0.026				
12/1/2016			0.022						0.06
1/30/2017						0.12			
1/31/2017	0.091							0.21	0.037
2/1/2017		0.039		0.048	0.076				
2/2/2017			0.024						
5/22/2017						0.08			
5/23/2017	0.11							0.12	0.046
5/24/2017		0.041	0.025						
5/25/2017				0.033	0.037				
4/17/2018	0.12							0.23	0.05
4/18/2018			0.024			0.067			
4/19/2018		0.034		0.037	0.055				
8/13/2018						0.08			
8/14/2018	0.12	0.03			0.028				
8/15/2018			0.029						0.056
4/9/2019		0.034	0.03	0.027	0.028	0.068	0.12		
4/10/2019	0.12							0.19	0.072
8/1/2019							0.158		
9/23/2019						0.075	0.171		
9/24/2019	0.135								
9/26/2019		0.0289	0.0494		0.0283				0.0527
11/18/2019							0.176		
1/30/2020							0.183		
3/23/2020									0.0702
3/24/2020				0.0322	0.0366			0.169	
3/25/2020		0.0289	0.0347			0.0975	0.2		
3/26/2020	0.128								
6/23/2020							0.187		
9/21/2020							0.191		
9/23/2020	0.139	0.032							
9/24/2020			0.031		0.033				0.064
4/19/2021						0.092	0.183		
4/20/2021		0.026	0.025						
4/21/2021				0.035	0.037				
4/22/2021	0.14							0.238	0.055
9/28/2021						0.111	0.169		
9/29/2021								0.292	0.085
9/30/2021	0.135	0.024							
10/1/2021			0.028	0.026	0.027				

Time Series

Constituent: Barium, Total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/19/2023					0.141				
10/24/2023								0.102	0.095
10/26/2023				0.075					

Time Series

Constituent: Barium, Total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							0.03	0.23	
5/19/2016							0.032	0.33	
7/19/2016							0.031		
8/4/2016									0.035
9/20/2016							0.041		0.028
11/29/2016							0.031		
11/30/2016									0.024
1/31/2017							0.05		
2/1/2017								0.075	0.029
5/23/2017							0.041		
5/24/2017								0.22	0.04
4/18/2018							0.04	0.26	0.098
8/14/2018							0.057		
8/15/2018									0.073
4/6/2019						0.13			
4/7/2019	0.2								
4/8/2019		0.12							
4/9/2019								0.36	0.078
4/10/2019							0.044		
7/31/2019	0.138								
8/1/2019		0.0616				0.122			
9/24/2019						0.121	0.0444		
9/26/2019	0.137								0.111
9/27/2019		0.0529							
11/18/2019						0.12			
11/19/2019	0.147	0.0541							
1/29/2020	0.177					0.0975			
1/30/2020		0.0754							
3/23/2020	0.158	0.0593						0.216	0.101
3/26/2020						0.0985	0.0351		
6/23/2020	0.132					0.125			
6/24/2020		0.066	0.061	0.049	0.095				
9/21/2020	0.136								
9/22/2020			0.071			0.131			0.089
9/23/2020				0.043			0.039		
9/24/2020		0.055			0.086				
4/19/2021								0.215	0.096
4/20/2021	0.156								
4/21/2021			0.124				0.025		
4/22/2021		0.071		0.056	0.132	0.091			
9/28/2021			0.056				0.036	0.444	0.099
9/29/2021						0.112			
9/30/2021	0.143								
10/1/2021		0.057							
10/5/2021				0.046	0.149				
4/26/2022								0.309	0.096
5/2/2022	0.15								
5/3/2022			0.14			0.097	0.034		
5/4/2022		0.071		0.044	0.131				
10/11/2022						0.115	0.027		
10/12/2022									0.085
10/13/2022	0.139			0.054					

Time Series

Constituent: Barium, Total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/18/2022		0.041	0.162		0.116				
4/10/2023						0.092	0.05		
4/12/2023	0.139								
4/13/2023			0.121	0.036					
4/18/2023		0.042			0.096			0.172	0.078
10/23/2023						0.089			
10/24/2023	0.137								0.09
10/25/2023		0.034							
10/26/2023			0.128	0.049	0.115				

Time Series

Constituent: Barium, Total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	0.25	0.052		0.1		
3/30/2016			0.066			
5/18/2016				0.16		
5/19/2016	0.13	0.043	0.07			
7/19/2016		0.041		0.14		
7/20/2016	0.1		0.1			
9/20/2016	0.12	0.057	0.1	0.14		
11/29/2016	0.13			0.17		
11/30/2016		0.05	0.11			
1/31/2017	0.075			0.096		
2/1/2017		0.09	0.085			
5/22/2017				0.14		
5/24/2017	0.087	0.037	0.077			
4/17/2018	0.046			0.094		
4/18/2018		0.093	0.063			
8/14/2018				0.14		
8/15/2018	0.078	0.081	0.1			
4/7/2019	0.043	0.089	0.055			
4/10/2019				0.071		
9/24/2019				0.0881		
9/25/2019	0.0962	0.0748				
9/26/2019			0.0856			
3/26/2020	0.0536	0.0917	0.0703	0.0712		
9/23/2020	0.092	0.093	0.093	0.081		
4/20/2021		0.093				
4/21/2021	0.048		0.095	0.081		
9/29/2021		0.08				
9/30/2021	0.054		0.089	0.063		
4/25/2022				0.066		
4/27/2022	0.041		0.125			
5/3/2022		0.087				
10/11/2022				0.055		
10/17/2022	0.099	0.074	0.109			
4/11/2023				0.049		
4/12/2023	0.045	0.084	0.072			
10/17/2023	0.092					
10/18/2023		0.085				
10/19/2023				0.136		
10/23/2023			0.098			
10/25/2023					0.075	0.13

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	<0.001								
3/30/2016		0.0016 (J)	<0.001	<0.001					
5/18/2016	<0.001	0.0017 (J)							
5/19/2016			<0.001	<0.001		<0.001			
5/20/2016								<0.001	
7/19/2016	<0.001								
7/20/2016		0.0016 (J)	<0.001			<0.001			
8/4/2016					<0.001				<0.001
9/19/2016	<0.001								
9/20/2016		0.0018 (J)			<0.001				
9/21/2016			<0.001			<0.001			<0.001
11/29/2016	<0.001					<0.001			
11/30/2016		0.0012 (J)			<0.001				
12/1/2016			<0.001						<0.001
1/30/2017						<0.001			
1/31/2017	<0.001							0.00075 (J)	<0.001
2/1/2017		0.0019 (J)		<0.001	<0.001				
2/2/2017			<0.001						
5/22/2017						<0.001			
5/23/2017	<0.001							<0.001	<0.001
5/24/2017		0.0021 (J)	<0.001						
5/25/2017				<0.001	<0.001				
4/17/2018	<0.001							<0.001	<0.001
4/18/2018			<0.001			<0.001			
4/19/2018		0.0016 (J)		<0.001	<0.001				
8/13/2018						<0.001			
8/14/2018	<0.001	0.00068 (J)			<0.001				
8/15/2018			<0.001						<0.001
4/9/2019		0.00082 (J)	<0.001	<0.001	<0.001	<0.001	<0.001		
4/10/2019	<0.001							<0.001	<0.001
8/1/2019							<0.001		
9/23/2019						<0.001	<0.001		
9/24/2019	<0.001								
9/26/2019		<0.001	<0.001		<0.001				<0.001
11/18/2019							<0.001		
1/30/2020							<0.001		
3/23/2020									<0.001
3/24/2020				<0.001	<0.001			<0.001	
3/25/2020		0.00107	<0.001			<0.001	<0.001		
3/26/2020	<0.001								
6/23/2020							<0.001		
9/21/2020							<0.001		
9/23/2020	<0.001	<0.001							
9/24/2020			<0.001		<0.001				<0.001
4/19/2021						<0.001	<0.001		
4/20/2021		0.0015	<0.001						
4/21/2021				<0.001	<0.001				
4/22/2021	<0.001							<0.001	<0.001
9/28/2021						<0.001	<0.001		
9/29/2021								<0.001	<0.001
9/30/2021	<0.001	<0.001							
10/1/2021			<0.001	<0.001	<0.001				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
4/25/2022				<0.001	<0.001				
4/26/2022								<0.001	
4/27/2022		<0.001	<0.001				<0.001		
5/2/2022	<0.001					<0.001			
5/4/2022									<0.001
10/11/2022	<0.001								
10/12/2022									<0.001
10/13/2022		<0.001			<0.001				
10/17/2022			<0.001				<0.001		
10/18/2022						<0.001			
4/10/2023						<0.001			
4/11/2023	<0.001						<0.001		
4/12/2023		<0.001	<0.001						
4/13/2023								<0.001	<0.001
4/18/2023				<0.001	<0.001				
10/17/2023					<0.001		<0.001		
10/18/2023		<0.001	<0.001						
10/23/2023	<0.001								
10/24/2023									<0.001

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							<0.001		
5/18/2016							<0.001		
7/19/2016							6.8E-05 (J)		
9/19/2016							<0.001		
11/29/2016							<0.001		
1/31/2017							0.00037 (J)		
5/23/2017							<0.001		
4/17/2018							0.00035 (J)		
8/14/2018							<0.001		
4/6/2019								<0.001	<0.001
4/7/2019		<0.001			<0.001	<0.001			
4/8/2019			<0.001	<0.001					
4/10/2019							<0.001		
7/31/2019		<0.001	<0.001	<0.001					
8/1/2019					<0.001	<0.001		<0.001	<0.001
9/24/2019		<0.001			<0.001		<0.001		
9/25/2019			<0.001			<0.001		<0.001	<0.001
9/26/2019				<0.001					
11/19/2019			<0.001	<0.001	<0.001				<0.001
11/20/2019		<0.001				<0.001		<0.001	
1/29/2020						<0.001		<0.001	<0.001
1/30/2020		<0.001	<0.001	<0.001	<0.001				
3/23/2020		<0.001	<0.001						
3/25/2020				<0.001	<0.001	<0.001		<0.001	<0.001
3/26/2020							<0.001		
6/22/2020		<0.001	<0.001						
6/23/2020				<0.001	<0.001	<0.001		<0.001	
6/24/2020									<0.001
9/21/2020		<0.001						<0.001	
9/22/2020			<0.001	<0.001	<0.001	<0.001			<0.001
9/23/2020							<0.001		
4/19/2021				<0.001	<0.001				
4/20/2021		<0.001	<0.001			<0.001		<0.001	
4/21/2021									<0.001
4/22/2021							<0.001		
9/28/2021				<0.001		<0.001			
9/29/2021	<0.001				<0.001				
9/30/2021							<0.001		
10/4/2021		<0.001	<0.001					<0.001	<0.001
4/26/2022	<0.001	<0.001	<0.001		<0.001	<0.001			
5/2/2022							<0.001		
5/3/2022				<0.001					<0.001
5/4/2022								<0.001	
10/11/2022							<0.001	<0.001	
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
10/13/2022									<0.001
10/18/2022						<0.001			
4/11/2023							<0.001	<0.001	<0.001
4/12/2023		<0.001	<0.001	<0.001	<0.001				
4/13/2023	<0.001					<0.001			
10/17/2023		<0.001	<0.001			<0.001			
10/18/2023	<0.001								

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/19/2023					<0.001				
10/24/2023								<0.001	<0.001
10/26/2023				<0.001					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							0.0053	<0.001	
5/19/2016							0.0055	<0.001	
7/19/2016							0.0044		
8/4/2016									<0.001
9/20/2016							0.0056		<0.001
11/29/2016							0.007		
11/30/2016									<0.001
1/31/2017							0.0066		
2/1/2017								<0.001	<0.001
5/23/2017							0.0056		
5/24/2017								<0.001	<0.001
4/18/2018							0.0057	<0.001	<0.001
8/14/2018							0.0053		
8/15/2018									<0.001
4/6/2019						0.00057 (J)			
4/7/2019	<0.001								
4/8/2019		<0.001							
4/9/2019								<0.001	<0.001
4/10/2019							0.0046		
7/31/2019	<0.001								
8/1/2019		<0.001				<0.001			
9/24/2019						<0.001	0.00555		
9/26/2019	<0.001								<0.001
9/27/2019		<0.001							
11/18/2019						<0.001			
11/19/2019	<0.001	<0.001							
1/29/2020	<0.001					<0.001			
1/30/2020		<0.001							
3/23/2020	<0.001	<0.001						<0.001	<0.001
3/26/2020						<0.001	0.00528		
6/23/2020	<0.001					<0.001			
6/24/2020		<0.001	<0.001	<0.001	<0.001				
9/21/2020	<0.001								
9/22/2020			<0.001			<0.001			<0.001
9/23/2020				<0.001			0.0053		
9/24/2020		<0.001			<0.001				
4/19/2021								<0.001	<0.001
4/20/2021	<0.001								
4/21/2021			<0.001				0.0044		
4/22/2021		<0.001		<0.001	<0.001	<0.001			
9/28/2021			<0.001				0.0044	<0.001	<0.001
9/29/2021						<0.001			
9/30/2021	<0.001								
10/1/2021		<0.001							
10/5/2021				<0.001	<0.001				
4/26/2022								<0.001	<0.001
5/2/2022	<0.001								
5/3/2022			<0.001			<0.001	0.0046		
5/4/2022		<0.001		<0.001	<0.001				
10/11/2022						<0.001	0.0054		
10/12/2022									<0.001
10/13/2022	<0.001			<0.001					

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/18/2022		<0.001	<0.001		<0.001				
4/10/2023						<0.001	0.0033		
4/12/2023	<0.001								
4/13/2023			<0.001	<0.001					
4/18/2023		<0.001			<0.001			<0.001	<0.001
10/23/2023						<0.001			
10/24/2023	<0.001								<0.001
10/25/2023		<0.001							
10/26/2023			<0.001	<0.001	<0.001				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	<0.001	<0.001		<0.001		
3/30/2016			<0.001			
5/18/2016				<0.001		
5/19/2016	<0.001	<0.001	<0.001			
7/19/2016		<0.001		<0.001		
7/20/2016	<0.001		<0.001			
9/20/2016	<0.001	<0.001	<0.001	<0.001		
11/29/2016	<0.001			<0.001		
11/30/2016		<0.001	<0.001			
1/31/2017	<0.001			<0.001		
2/1/2017		<0.001	<0.001			
5/22/2017				<0.001		
5/24/2017	<0.001	<0.001	<0.001			
4/17/2018	<0.001			<0.001		
4/18/2018		<0.001	<0.001			
8/14/2018				<0.001		
8/15/2018	<0.001	<0.001	<0.001			
4/7/2019	<0.001	<0.001	<0.001			
4/10/2019				<0.001		
9/24/2019				<0.001		
9/25/2019	<0.001	<0.001				
9/26/2019			<0.001			
3/26/2020	<0.001	<0.001	<0.001	<0.001		
9/23/2020	<0.001	<0.001	<0.001	<0.001		
4/20/2021		<0.001				
4/21/2021	<0.001		<0.001	<0.001		
9/29/2021		<0.001				
9/30/2021	<0.001		<0.001	<0.001		
4/25/2022				<0.001		
4/27/2022	<0.001		<0.001			
5/3/2022		<0.001				
10/11/2022				<0.001		
10/17/2022	<0.001	<0.001	<0.001			
4/11/2023				<0.001		
4/12/2023	<0.001	<0.001	<0.001			
10/17/2023	<0.001					
10/18/2023		<0.001				
10/19/2023				<0.001		
10/23/2023			<0.001			
10/25/2023					<0.001	<0.001

Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	<0.05								
3/30/2016		0.35	0.95	12					
5/18/2016	<0.05	0.41							
5/19/2016			14	1.2		1.4			
5/20/2016								0.32	
7/19/2016	0.024 (J)								
7/20/2016		0.34	12			0.97			
8/4/2016					0.75				4.4
9/19/2016	<0.05								
9/20/2016		0.26			0.75				
9/21/2016			11			0.79			5
11/29/2016	<0.05					1.4			
11/30/2016		0.39			0.97				
12/1/2016			13						6
1/30/2017						0.8			
1/31/2017	<0.05							3.4	4.5
2/1/2017		0.69		0.77	1.3				
2/2/2017			7.8						
5/22/2017						1.1			
5/23/2017	<0.05							1.4	4.2
5/24/2017		0.48	5.7						
5/25/2017				0.88	0.68				
10/9/2017	<0.05								
10/10/2017			7.8		0.83	0.55			3.6
10/11/2017		0.4							
4/17/2018	<0.05							1.7	3.9
4/18/2018			8			0.31			
4/19/2018		0.57		1.3	2.4				
8/13/2018						0.46			
8/14/2018	<0.05	0.36			0.78				
8/15/2018			6.3						2.3
4/9/2019		0.53	8.6	1.3	1.3	0.36	0.022 (J)		
4/10/2019	<0.05							0.77	2.9
8/1/2019							0.0128		
9/23/2019						0.58	0.0187		
9/24/2019	0.0163								
9/26/2019		0.388	13.4		0.672				2.4
11/18/2019							0.0145		
1/30/2020							0.0133		
3/23/2020									1.54
3/24/2020				0.698	0.65			0.92	
3/25/2020		0.539	12.8			0.237	0.0245		
3/26/2020	0.0169								
6/23/2020							0.023		
9/21/2020							0.013		
9/23/2020	0.013	0.413							
9/24/2020			9.11		0.657				1.51
4/19/2021						0.289	0.023		
4/20/2021		0.81	7.52						
4/21/2021				0.46	0.434				
4/22/2021	0.017							0.7	1.1
9/28/2021						0.346	0.03		

Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							0.022 (J)		
5/18/2016							<0.05		
7/19/2016							<0.05		
9/19/2016							<0.05		
11/29/2016							<0.05		
1/31/2017							<0.05		
5/23/2017							<0.05		
10/10/2017							<0.05		
4/17/2018							<0.05		
8/14/2018							<0.05		
4/6/2019								0.089	0.14
4/7/2019		0.052			0.17	0.38			
4/8/2019			2.5	5.6					
4/10/2019							<0.05		
7/31/2019		0.0517	2.18	4.38					
8/1/2019					0.132	0.295		0.0535	0.216
9/24/2019		0.0518			0.145		0.0168		
9/25/2019			1.89			0.328		0.0659	0.305
9/26/2019				4					
11/19/2019			2.67	5.12	0.134				0.268
11/20/2019		0.0447				0.309		0.0625	
1/29/2020						0.241		0.0556	0.291
1/30/2020		0.0294	1.53	4.73	0.0726				
3/23/2020		0.0349	1.02						
3/25/2020				9.05	0.0784	0.261		0.0554	0.201
3/26/2020							0.0183		
6/22/2020		0.039	1.48						
6/23/2020				4.75	0.109	0.239		0.06	
6/24/2020									0.265
9/21/2020		0.033						0.067	
9/22/2020			1.36	3.09	0.168	0.33			0.251
9/23/2020							0.012		
4/19/2021				3.48	0.07				
4/20/2021		0.032	1.19			0.172		0.061	
4/21/2021									0.349
4/22/2021							0.017		
9/28/2021				2.93		0.207			
9/29/2021	2.6				0.108				
9/30/2021							0.019		
10/4/2021		0.027	1.24					0.063	0.277
4/26/2022	0.418	0.037	0.767		0.085	0.199			
5/2/2022							0.017		
5/3/2022				2.77					0.282
5/4/2022								0.081	
10/11/2022							0.02	0.073	
10/12/2022	2.88	0.041	0.712	2.66	0.145				
10/13/2022									0.273
10/18/2022						0.243			
4/11/2023							0.018	0.064	0.276
4/12/2023		0.026	0.55	2.33	0.098				
4/13/2023	0.338					0.186			
10/17/2023		0.035	0.75			0.215			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/18/2023	1.44								
10/19/2023					0.117				
10/24/2023								0.087	0.291
10/26/2023				2.28					

Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							1.8	1.3	
5/19/2016							1.7	0.29	
7/19/2016							1.4		
8/4/2016									17
9/20/2016							1.7		13
11/29/2016							2.9		
11/30/2016									13
1/31/2017							2		
2/1/2017								5.9	14
5/23/2017							2.8		
5/24/2017								3.1	8.9
10/10/2017							1.9		7.4
4/18/2018							2.5	1.7	6.7
8/14/2018							1.8		
8/15/2018									4.8
4/6/2019						<0.05			
4/7/2019	0.12								
4/8/2019		8.1							
4/9/2019								0.55	4.6
4/10/2019							2.1		
7/31/2019	0.0867								
8/1/2019		9.67				0.0204			
9/24/2019						0.0208	2.07		
9/26/2019	0.0968								3.65
9/27/2019		13.2							
11/18/2019						0.0222			
11/19/2019	0.102	13.1							
1/29/2020	<0.01					0.018			
1/30/2020		13.1							
3/23/2020	0.0918	11.3						0.953	2.57
3/26/2020						0.0184	2.59		
6/23/2020	0.101					0.022			
6/24/2020		12.2	11.5	16.6	0.195				
9/21/2020	0.116								
9/22/2020			8.45			0.019			2.58
9/23/2020				17.8			2.05		
9/24/2020		11.8			0.354				
4/19/2021								1.36	2
4/20/2021	0.1								
4/21/2021			7.76				2.47		
4/22/2021		14.2		11.1	0.291	0.02			
9/28/2021			2.65				2.41	0.395	2.22
9/29/2021						0.028			
9/30/2021	0.107								
10/1/2021		13.1							
10/5/2021				12.6	0.373				
4/26/2022								0.956	2.36
5/2/2022	0.106								
5/3/2022			4.93			0.017	2.43		
5/4/2022		12.6		9.91	0.448				
10/11/2022						0.024	2.65		
10/12/2022									2.23

Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/13/2022	0.094			15.2					
10/18/2022		7.61	5.34		0.529				
4/10/2023						0.019	2.04		
4/12/2023	0.099								
4/13/2023			1.83	9.05					
4/18/2023		8.68			0.265			0.468	1.67
10/23/2023						0.036			
10/24/2023	0.102								2.12
10/25/2023		7.12							
10/26/2023			3.11	13.5	0.443				

Time Series

Constituent: Boron, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	0.3	7		2.7		
3/30/2016			0.051			
5/18/2016				3.1		
5/19/2016	0.28	11	0.16			
7/19/2016		6		4.1		
7/20/2016	0.32		0.13			
9/20/2016	0.35	11	0.049 (J)	4.1		
11/29/2016	0.4			5.7		
11/30/2016		13	0.071			
1/31/2017	0.35			4		
2/1/2017		5.1	0.37			
5/22/2017				4.8		
5/24/2017	0.34	8.9	0.097			
10/9/2017				5.5		
10/11/2017	0.43	7.2	0.098			
4/17/2018	0.23			2.9		
4/18/2018		2.8	0.25			
8/14/2018				4.9		
8/15/2018	0.38	6.8	0.13			
4/7/2019	0.19	4.7	0.13			
4/10/2019				5.7		
9/24/2019				7.44		
9/25/2019	0.385	3.46				
9/26/2019			0.0858			
3/26/2020	0.179	1.48	0.133	4.13		
9/23/2020	0.343	2.05	0.128	8.99		
4/20/2021		0.977				
4/21/2021	0.186		0.238	7.39		
9/29/2021		2.25				
9/30/2021	0.213		0.093	9.43		
4/25/2022				6.75		
4/27/2022	0.131		0.165			
5/3/2022		1.17				
10/11/2022				7.16		
10/17/2022	0.325	0.999	0.111			
4/11/2023				5.04		
4/12/2023	0.166	0.83	0.26			
10/17/2023	0.296					
10/18/2023		0.938				
10/19/2023				6.61		
10/23/2023			0.123			
10/25/2023					0.015	2.14

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	<0.001								
3/30/2016		0.0019 (J)	<0.001	<0.001					
5/18/2016	<0.001	0.0023 (J)							
5/19/2016			<0.001	<0.001		<0.001			
5/20/2016								<0.001	
7/19/2016	<0.001								
7/20/2016		0.0013 (J)	<0.001			<0.001			
8/4/2016					0.00072 (J)				0.00087 (J)
9/19/2016	<0.001								
9/20/2016		0.0012 (J)			0.00061 (J)				
9/21/2016			<0.001			<0.001			0.0012 (J)
11/29/2016	<0.001					<0.001			
11/30/2016		0.0006 (J)			0.00077 (J)				
12/1/2016			<0.001						0.0012 (J)
1/30/2017						<0.001			
1/31/2017	<0.001							0.0026	0.0025
2/1/2017		0.0018 (J)		<0.001	0.00068 (J)				
2/2/2017			<0.001						
5/22/2017						<0.001			
5/23/2017	<0.001							0.0012 (J)	0.0018 (J)
5/24/2017		0.00072 (J)	<0.001						
5/25/2017				<0.001	0.00069 (J)				
4/17/2018	<0.001							<0.001	0.0016 (J)
4/18/2018			<0.001			<0.001			
4/19/2018		0.0011 (J)		0.0011 (J)	0.0011 (J)				
8/13/2018						<0.001			
8/14/2018	<0.001	0.00067 (J)			0.00047 (J)				
8/15/2018			<0.001						0.0027
4/9/2019		0.00084 (J)	<0.001	0.00037 (J)	0.00056 (J)	<0.001	<0.001		
4/10/2019	<0.001							<0.001	<0.001
8/1/2019							<0.001		
9/23/2019						<0.001	<0.001		
9/24/2019	<0.001								
9/26/2019		<0.001	<0.001		<0.001				0.00715
11/18/2019							<0.001		
1/30/2020							<0.001		
3/23/2020									<0.001
3/24/2020				<0.001	<0.001			<0.001	
3/25/2020		0.00149	<0.001			<0.001	<0.001		
3/26/2020	<0.001								
6/23/2020							<0.001		
9/21/2020							<0.001		
9/23/2020	<0.001	<0.001							
9/24/2020			<0.001		<0.001				<0.001
4/19/2021						<0.001	<0.001		
4/20/2021		0.0018	<0.001						
4/21/2021				<0.001	<0.001				
4/22/2021	<0.001							<0.001	<0.001
9/28/2021						<0.001	<0.001		
9/29/2021								<0.001	<0.001
9/30/2021	<0.001	<0.001							
10/1/2021			<0.001	<0.001	<0.001				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
4/25/2022				<0.001	<0.001				
4/26/2022								<0.001	
4/27/2022		0.0015	<0.001				<0.001		
5/2/2022	<0.001					<0.001			
5/4/2022									<0.001
10/11/2022	<0.001								
10/12/2022									<0.001
10/13/2022		<0.001			<0.001				
10/17/2022			<0.001				<0.001		
10/18/2022						<0.001			
4/10/2023						<0.001			
4/11/2023	<0.001						<0.001		
4/12/2023		<0.001	<0.001						
4/13/2023								<0.001	<0.001
4/18/2023				<0.001	<0.001				
10/17/2023					<0.001		<0.001		
10/18/2023		<0.001	<0.001						
10/23/2023	<0.001								
10/24/2023									<0.001

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							<0.001		
5/18/2016							<0.001		
7/19/2016							<0.001		
9/19/2016							<0.001		
11/29/2016							<0.001		
1/31/2017							<0.001		
5/23/2017							<0.001		
4/17/2018							<0.001		
8/14/2018							<0.001		
4/6/2019								<0.001	<0.001
4/7/2019		<0.001			<0.001	0.00049 (J)			
4/8/2019			<0.001	<0.001					
4/10/2019							<0.001		
7/31/2019		<0.001	<0.001	<0.001					
8/1/2019					<0.001	<0.001		<0.001	<0.001
9/24/2019		<0.001			<0.001		<0.001		
9/25/2019			<0.001			<0.001		<0.001	<0.001
9/26/2019				<0.001					
11/19/2019			<0.001	<0.001	<0.001				<0.001
11/20/2019		<0.001				<0.001		<0.001	
1/29/2020						<0.001		<0.001	<0.001
1/30/2020		<0.001	<0.001	<0.001	<0.001				
3/23/2020		<0.001	<0.001						
3/25/2020				<0.001	<0.001	<0.001		<0.001	<0.001
3/26/2020							<0.001		
6/22/2020		<0.001	<0.001						
6/23/2020				<0.001	<0.001	<0.001		<0.001	
6/24/2020									<0.001
9/21/2020		<0.001						<0.001	
9/22/2020			<0.001	<0.001	<0.001	<0.001			<0.001
9/23/2020							<0.001		
4/19/2021				<0.001	<0.001				
4/20/2021		<0.001	<0.001			<0.001		<0.001	
4/21/2021									<0.001
4/22/2021							<0.001		
9/28/2021				<0.001		<0.001			
9/29/2021	<0.001				<0.001				
9/30/2021							<0.001		
10/4/2021		<0.001	<0.001					<0.001	<0.001
4/26/2022	<0.001	<0.001	<0.001		<0.001	<0.001			
5/2/2022							<0.001		
5/3/2022				<0.001					<0.001
5/4/2022								<0.001	
10/11/2022							<0.001	<0.001	
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
10/13/2022									<0.001
10/18/2022						<0.001			
4/11/2023							<0.001	<0.001	<0.001
4/12/2023		<0.001	<0.001	<0.001	<0.001				
4/13/2023	<0.001					<0.001			
10/17/2023		<0.001	<0.001			<0.001			
10/18/2023	<0.001								

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/19/2023					<0.001				
10/24/2023								<0.001	<0.001
10/26/2023				<0.001					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							0.00095 (J)	<0.001	
5/19/2016							0.00076 (J)	<0.001	
7/19/2016							0.00099 (J)		
8/4/2016									<0.001
9/20/2016							0.0011 (J)		<0.001
11/29/2016							0.001 (J)		
11/30/2016									<0.001
1/31/2017							0.00085 (J)		
2/1/2017								0.002 (J)	<0.001
5/23/2017							<0.001		
5/24/2017								0.00063 (J)	<0.001
4/18/2018							0.00076 (J)	<0.001	<0.001
8/14/2018							0.0008 (J)		
8/15/2018									<0.001
4/6/2019						<0.001			
4/7/2019	<0.001								
4/8/2019		<0.001							
4/9/2019								<0.001	<0.001
4/10/2019							0.00057 (J)		
7/31/2019	<0.001								
8/1/2019		<0.001				<0.001			
9/24/2019						<0.001	<0.001		
9/26/2019	<0.001								<0.001
9/27/2019		<0.001							
11/18/2019						<0.001			
11/19/2019	<0.001	<0.001							
1/29/2020	<0.001					<0.001			
1/30/2020		<0.001							
3/23/2020	<0.001	<0.001						<0.001	<0.001
3/26/2020						<0.001	<0.001		
6/23/2020	<0.001					<0.001			
6/24/2020		<0.001	<0.001	<0.001	<0.001				
9/21/2020	<0.001								
9/22/2020			<0.001			<0.001			<0.001
9/23/2020				<0.001			<0.001		
9/24/2020		<0.001			<0.001				
4/19/2021								<0.001	<0.001
4/20/2021	<0.001								
4/21/2021			<0.001				<0.001		
4/22/2021		<0.001		<0.001	<0.001	<0.001			
9/28/2021			<0.001				<0.001	<0.001	<0.001
9/29/2021						<0.001			
9/30/2021	<0.001								
10/1/2021		<0.001							
10/5/2021				<0.001	<0.001				
4/26/2022								<0.001	<0.001
5/2/2022	<0.001								
5/3/2022			<0.001			<0.001	<0.001		
5/4/2022		<0.001		<0.001	<0.001				
10/11/2022						<0.001	<0.001		
10/12/2022									<0.001
10/13/2022	<0.001			<0.001					

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/18/2022		<0.001	<0.001		<0.001				
4/10/2023						<0.001	<0.001		
4/12/2023	<0.001								
4/13/2023			<0.001	<0.001					
4/18/2023		<0.001			<0.001			<0.001	<0.001
10/23/2023						<0.001			
10/24/2023	<0.001								<0.001
10/25/2023		<0.001							
10/26/2023			<0.001	<0.001	<0.001				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	<0.001	<0.001		<0.001		
3/30/2016			<0.001			
5/18/2016				<0.001		
5/19/2016	<0.001	<0.001	<0.001			
7/19/2016		<0.001		<0.001		
7/20/2016	<0.001		<0.001			
9/20/2016	<0.001	<0.001	<0.001	<0.001		
11/29/2016	<0.001			<0.001		
11/30/2016		<0.001	<0.001			
1/31/2017	0.00037 (J)			<0.001		
2/1/2017		<0.001	<0.001			
5/22/2017				<0.001		
5/24/2017	<0.001	<0.001	<0.001			
4/17/2018	<0.001			<0.001		
4/18/2018		<0.001	<0.001			
8/14/2018				<0.001		
8/15/2018	<0.001	<0.001	<0.001			
4/7/2019	<0.001	<0.001	<0.001			
4/10/2019				<0.001		
9/24/2019				<0.001		
9/25/2019	<0.001	<0.001				
9/26/2019			<0.001			
3/26/2020	<0.001	<0.001	<0.001	<0.001		
9/23/2020	<0.001	<0.001	<0.001	<0.001		
4/20/2021		<0.001				
4/21/2021	<0.001		<0.001	<0.001		
9/29/2021		<0.001				
9/30/2021	<0.001		<0.001	<0.001		
4/25/2022				<0.001		
4/27/2022	<0.001		<0.001			
5/3/2022		<0.001				
10/11/2022				<0.001		
10/17/2022	<0.001	<0.001	<0.001			
4/11/2023				<0.001		
4/12/2023	<0.001	<0.001	<0.001			
10/17/2023	<0.001					
10/18/2023		<0.001				
10/19/2023				<0.001		
10/23/2023			<0.001			
10/25/2023					<0.001	<0.001

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	26								
3/30/2016		110	140	600					
5/18/2016	25	130							
5/19/2016			650	140		120			
5/20/2016								94	
7/19/2016	17								
7/20/2016		94	540			72			
8/4/2016					170				200
9/19/2016	17								
9/20/2016		110			160				
9/21/2016			600			63			180
11/29/2016	14					100			
11/30/2016		90			150				
12/1/2016			430						170
1/30/2017						130			
1/31/2017	25							160	220
2/1/2017		150		110	130				
2/2/2017			330						
5/22/2017						90			
5/23/2017	26							100	230
5/24/2017		110	370						
5/25/2017				120	110				
10/9/2017	29								
10/10/2017			580		120	72			210
10/11/2017		94							
4/17/2018	34							180	250
4/18/2018			470			48			
4/19/2018		100		140	190				
8/13/2018						60			
8/14/2018	26	87			110				
8/15/2018			250						170
4/9/2019		78	390	120	110	50	16		
4/10/2019	28							150	190
8/1/2019							22.9		
9/23/2019						47.3	20.5		
9/24/2019	28.1								
9/26/2019		79.4	623		109				167
11/18/2019							21.9		
1/30/2020							22.6		
3/23/2020									114
3/24/2020				141	141			258	
3/25/2020		114	507			60.4	25.1		
3/26/2020	32.7								
6/23/2020							23.5		
9/21/2020							22.6		
9/23/2020	28.2	86.3							
9/24/2020			326		99.7				118
4/19/2021						57.9	26.8		
4/20/2021		140	267						
4/21/2021				112	96.8				
4/22/2021	44.4							126	84.3
9/28/2021						62.5	28.5		

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							3.6		
5/18/2016							3.6		
7/19/2016							3		
9/19/2016							3.2		
11/29/2016							3		
1/31/2017							3.5		
5/23/2017							3.6		
10/10/2017							3.6		
4/17/2018							3.3 (F1)		
8/14/2018							3.2		
4/6/2019								48	72
4/7/2019		22			45	41			
4/8/2019			120	220					
4/10/2019							3		
7/31/2019		14.7	130	188					
8/1/2019					36.4	42.7		54.8	87.5
9/24/2019		14.5			34.5		3.2		
9/25/2019			121			39.3		48.1	81.2
9/26/2019				162					
11/19/2019			123	185	33.4				83
11/20/2019		12.4				34.5		45.2	
1/29/2020						34.2		44.6	76.2
1/30/2020		12.5	105	212	45.5				
3/23/2020		10.7	87.7						
3/25/2020				350	42.7	39.3		45.8	84.3
3/26/2020							3.2		
6/22/2020		12.1	90.7						
6/23/2020				194	37.8	34.1		48.4	
6/24/2020									100
9/21/2020		11.3						49.9	
9/22/2020			106	131	32	37.4			84.1
9/23/2020							3.32		
4/19/2021				147	52.9				
4/20/2021		11.4	80.3			28		49.2	
4/21/2021									101
4/22/2021							3.44		
9/28/2021				146		28.4			
9/29/2021	151				30.4				
9/30/2021							3.52		
10/4/2021		13.1	87.3					41.2	79.9
4/26/2022	55.5	9.38	70.4		47.4	28.5			
5/2/2022							3.39		
5/3/2022				122					87
5/4/2022								43.1	
10/11/2022							3.16	46	
10/12/2022	134	9.16	71.4	120	34.1				
10/13/2022									79.2
10/18/2022						31.8			
4/11/2023							3.41	47	80.1
4/12/2023		9.78	59.3	115	43.9				
4/13/2023	48.3					26.5			
10/17/2023		8.15	74.2			30.9			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/18/2023	95.6								
10/19/2023					32.3				
10/24/2023								42.8	74.8
10/26/2023				108					

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/13/2022	114			492					
10/18/2022		354	242		75.2				
4/10/2023						6.57	210		
4/12/2023	124								
4/13/2023			122	261					
4/18/2023		396			61.6			90.6	102
10/23/2023						3.92			
10/24/2023	113								131
10/25/2023		344							
10/26/2023			170	514	68.4				

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	99	280		61		
3/30/2016			63			
5/18/2016				76		
5/19/2016	90	410	85			
7/19/2016		150		82		
7/20/2016	62		70			
9/20/2016	74	360	73	110		
11/29/2016	64			180		
11/30/2016		490	69			
1/31/2017	100			160		
2/1/2017		170	61			
5/22/2017				190		
5/24/2017	97	260	88			
10/9/2017				190		
10/11/2017	86	190	76			
4/17/2018	89			140		
4/18/2018		93	44			
8/14/2018				260		
8/15/2018	74	240	70			
4/7/2019	98	180	68			
4/10/2019				310		
9/24/2019				418		
9/25/2019	63.3	134				
9/26/2019			69			
3/26/2020	88.6	83.9	60.7	453		
9/23/2020	76.4	102	69.3	445		
4/20/2021		78.6				
4/21/2021	91.4		72.1	421		
9/29/2021		95				
9/30/2021	90		81.7	397		
4/25/2022				323		
4/27/2022	75.3		59.4			
5/3/2022		74.5				
10/11/2022				291		
10/17/2022	73	65.5	66.7			
4/11/2023				132		
4/12/2023	75.5	65	50			
10/17/2023	74.6					
10/18/2023		58.6				
10/19/2023				253		
10/23/2023			69.1			
10/25/2023					17.2	98.6

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	2.5								
3/30/2016		110	83	520					
5/18/2016	2.1	100							
5/19/2016			390	80		44			
5/20/2016								70	
7/19/2016	2.2								
7/20/2016		100	340			34			
8/4/2016					91				210
9/19/2016	1.4 (J)								
9/20/2016		110			91				
9/21/2016			510			36			220
11/29/2016	3.5					170			
11/30/2016		91			98				
12/1/2016			390						220
1/30/2017						130			
1/31/2017	2.9							190	230
2/1/2017		150		89	120				
2/2/2017			290						
5/22/2017						39			
5/23/2017	4							110	240
5/24/2017		100	310						
5/25/2017				93	90				
10/9/2017	3.8								
10/10/2017			460		83	13			220
10/11/2017		86							
4/17/2018	2.6							140	270
4/18/2018			320			7.2			
4/19/2018		110		130	180				
8/13/2018						10			
8/14/2018	2.7	71			91				
8/15/2018			170						210
4/9/2019		68	310	110	110	5.6	27		
4/10/2019	2.8							75	210
8/1/2019							36.6		
9/23/2019						15	41.7		
9/24/2019	2.59								
9/26/2019		72.5	399		84.3				174
11/18/2019							47.4		
1/30/2020							47.6		
3/23/2020									102
3/24/2020				84.9	85.2			72.2	
3/25/2020		91	278			2.49	50.4		
3/26/2020	3.48								
6/23/2020							50.2		
9/21/2020							49.6		
9/23/2020	2.58	73.5							
9/24/2020			144		76.8				110
4/19/2021						4.5	55.8		
4/20/2021		111	92.1						
4/21/2021				48.7	66.9				
4/22/2021	2.47							56.5	54
9/28/2021						1.82	56.5		

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							0.89 (J)		
5/18/2016							<2		
7/19/2016							<2		
9/19/2016							<2		
11/29/2016							2.2		
1/31/2017							1.1 (J)		
5/23/2017							1.9 (J)		
10/10/2017							1.8 (J)		
4/17/2018							0.93 (J)		
8/14/2018							0.63 (J)		
4/6/2019								9.4	28
4/7/2019		14			16	31			
4/8/2019			130	240					
4/10/2019							<2		
7/31/2019		8.91	107	166					
8/1/2019					14.9	31.2		9.17	30.8
9/24/2019		8.58			15.5		1.05		
9/25/2019			102			30.1		8.12	36.6
9/26/2019				143					
11/19/2019			107	179	17.3				36.5
11/20/2019		8.43				25.1		10.1	
1/29/2020						12.6		9.51	38
1/30/2020		7.65	76	196	12.3				
3/23/2020		5.96	73.3						
3/25/2020				170	12.6	19.1		9.86	21.1
3/26/2020							0.969		
6/22/2020		5.34	58.5						
6/23/2020				184	12.8	17.5		9.81	
6/24/2020									33.2
9/21/2020		5.56						10.4	
9/22/2020			77.2	126	13.7	23.4			37.6
9/23/2020							1.02		
4/19/2021				129	12.1				
4/20/2021		6.65	56.7			9.31		7.83	
4/21/2021									25
4/22/2021							1.1		
9/28/2021				123		11.2			
9/29/2021	165				13.1				
9/30/2021							1.03		
10/4/2021		5.7	73.6					4.98	16.9
4/26/2022	68.9	5.46	45.9		12.4	11.2			
5/2/2022							1.2		
5/3/2022				103					19.2
5/4/2022								5.99	
10/11/2022							1.24	5.36	
10/12/2022	184	4.78	45.3	109	12.5				
10/13/2022									27.5
10/18/2022						22.9			
4/11/2023							1.14	5.15	19.9
4/12/2023		4.91	32.2	102	12.5				
4/13/2023	63.1					9.32			
10/17/2023		4.03	41.5			18.9			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/18/2023	108								
10/19/2023					9.71				
10/24/2023								4.92	19.8
10/26/2023				98					

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							460	71	
5/19/2016							430	41	
7/19/2016							400		
8/4/2016									340
9/20/2016							500		350
11/29/2016							560		
11/30/2016									240
1/31/2017							490		
2/1/2017								190	340
5/23/2017							500		
5/24/2017								120	310
10/10/2017							470		230
4/18/2018							480	90	290
8/14/2018							470		
8/15/2018									180
4/6/2019						<2			
4/7/2019	19								
4/8/2019		350							
4/9/2019								43	190
4/10/2019							430		
7/31/2019	17.2								
8/1/2019		378				1.85			
9/24/2019						2.16	469		
9/26/2019	17.3								142
9/27/2019		349							
11/18/2019						2.16			
11/19/2019	18.5	359							
1/29/2020	17.8					2.46			
1/30/2020		460							
3/23/2020	19.7	454						52.3	159
3/26/2020						2.62	504		
6/23/2020	10.5					1.81			
6/24/2020		432	338	424	4.45				
9/21/2020	13.6								
9/22/2020			270			1.97			88.7
9/23/2020				402			478		
9/24/2020		401			6.27				
4/19/2021								52.2	98.7
4/20/2021	13								
4/21/2021			267				493		
4/22/2021		483		229	5.27	2.33			
9/28/2021			60.9				443	20.3	102
9/29/2021						1.75			
9/30/2021	10.6								
10/1/2021		434							
10/5/2021				277	11.9				
4/26/2022								39.1	115
5/2/2022	10.8								
5/3/2022			130			2.01	457		
5/4/2022		469		218	12				
10/11/2022						1.85	489		
10/12/2022									82.5

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/13/2022	11			330					
10/18/2022		43.4	28.6		19.3				
4/10/2023						1.68	397		
4/12/2023	11.6								
4/13/2023			75.4	232					
4/18/2023		299			3.19			20.4	95.5
10/23/2023						1.52			
10/24/2023	9.93								85.5
10/25/2023		211							
10/26/2023			95.2	246	21.6				

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	52	210		66		
3/30/2016			7.9			
5/18/2016				78		
5/19/2016	45	180	14			
7/19/2016		67		120		
7/20/2016	35		51			
9/20/2016	34	280	54	180		
11/29/2016	39			390		
11/30/2016		440	47			
1/31/2017	48			300		
2/1/2017		110	58			
5/22/2017				310		
5/24/2017	44	150	28			
10/9/2017				310		
10/11/2017	33	44	45			
4/17/2018	31			180		
4/18/2018		26	32			
8/14/2018				430		
8/15/2018	24	110	45			
4/7/2019	24	81	6			
4/10/2019				440		
9/24/2019				503		
9/25/2019	16.4	25.5				
9/26/2019			44.8			
3/26/2020	19.3	11.4	13.4	526		
9/23/2020	20.5	10.3	31.5	421		
4/20/2021		5.61				
4/21/2021	12.7		16.4	329		
9/29/2021		5.63				
9/30/2021	15.1		4.61	265		
4/25/2022				204		
4/27/2022	10.6		10.3			
5/3/2022		3.61				
10/11/2022				188		
10/17/2022	13.4	3.31	30.2			
4/11/2023				131		
4/12/2023	9.31	3.03	13.8			
10/17/2023	8.26					
10/18/2023		2.53				
10/19/2023				135		
10/23/2023			23.8			
10/25/2023					10.8	100

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	<0.001								
3/30/2016		<0.001	0.0018 (J)	<0.001					
5/18/2016	<0.001	0.0014 (J)							
5/19/2016			<0.001	0.0028		<0.001			
5/20/2016								<0.001	
7/19/2016	<0.001								
7/20/2016		<0.001	<0.001			<0.001			
8/4/2016					<0.001				<0.001
9/19/2016	<0.001								
9/20/2016		<0.001			<0.001				
9/21/2016			<0.001			<0.001			<0.001
11/29/2016	<0.001					<0.001			
11/30/2016		<0.001			<0.001				
12/1/2016			<0.001						<0.001
1/30/2017						<0.001			
1/31/2017	<0.001							<0.001	<0.001
2/1/2017		<0.001		<0.001	<0.001				
2/2/2017			<0.001						
5/22/2017						<0.001			
5/23/2017	<0.001							<0.001	<0.001
5/24/2017		<0.001	<0.001						
5/25/2017				0.0023 (J)	0.0011 (J)				
4/17/2018	<0.001							<0.001	<0.001
4/18/2018			<0.001			<0.001			
4/19/2018		<0.001		<0.001	<0.001				
8/13/2018						<0.001			
8/14/2018	<0.001	<0.001			0.0018 (J)				
8/15/2018			<0.001						<0.001
4/9/2019		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
4/10/2019	<0.001							<0.001	<0.001
8/1/2019							<0.001		
9/23/2019						<0.001	<0.001		
9/24/2019	<0.001								
9/26/2019		<0.001	<0.001		0.00117				<0.001
11/18/2019							<0.001		
1/30/2020							<0.001		
3/23/2020									<0.001
3/24/2020				<0.001	<0.001			<0.001	
3/25/2020		<0.001	<0.001			0.00116	<0.001		
3/26/2020	<0.001								
6/23/2020							<0.001		
9/21/2020							<0.001		
9/23/2020	<0.001	0.004							
9/24/2020			0.002		0.002				<0.001
4/19/2021						<0.001	<0.001		
4/20/2021		<0.001	<0.001						
4/21/2021				0.001	<0.001				
4/22/2021	<0.001							<0.001	<0.001
9/28/2021						<0.001	<0.001		
9/29/2021								<0.001	<0.001
9/30/2021	<0.001	<0.001							
10/1/2021			<0.001	0.001	0.001				

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
4/25/2022				0.001	<0.001				
4/26/2022								<0.001	
4/27/2022		<0.001	<0.001				0.001		
5/2/2022	<0.001					<0.001			
5/4/2022									<0.001
10/11/2022	<0.001								
10/12/2022									<0.001
10/13/2022		<0.001			0.001				
10/17/2022			<0.001				<0.001		
10/18/2022						<0.001			
4/10/2023						<0.001			
4/11/2023	<0.001						<0.001		
4/12/2023		<0.001	<0.001						
4/13/2023								<0.001	<0.001
4/18/2023				0.001	<0.001				
10/17/2023					0.001		<0.001		
10/18/2023		<0.001	<0.001						
10/23/2023	<0.001								
10/24/2023									<0.001

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							<0.001		
5/18/2016							<0.001		
7/19/2016							<0.001		
9/19/2016							<0.001		
11/29/2016							<0.001		
1/31/2017							<0.001		
5/23/2017							<0.001		
4/17/2018							<0.001		
8/14/2018							<0.001		
4/6/2019								<0.001	<0.001
4/7/2019		<0.001			<0.001	<0.001			
4/8/2019			<0.001	<0.001					
4/10/2019							<0.001		
7/31/2019		<0.001	<0.001	<0.001					
8/1/2019					<0.001	0.0011		<0.001	<0.001
9/24/2019		0.00102			<0.001		<0.001		
9/25/2019			<0.001			0.00106		<0.001	<0.001
9/26/2019				<0.001					
11/19/2019			<0.001	<0.001	0.00139				0.00114
11/20/2019		<0.001				<0.001		0.00191	
1/29/2020						<0.001		<0.001	0.00192
1/30/2020		<0.001	<0.001	<0.001	<0.001				
3/23/2020		0.00131	0.00123						
3/25/2020				<0.001	0.00107	0.0011		<0.001	0.0013
3/26/2020							<0.001		
6/22/2020		<0.001	<0.001						
6/23/2020				<0.001	0.001	0.001		0.001	
6/24/2020									<0.001
9/21/2020		0.002						<0.001	
9/22/2020			<0.001	<0.001	<0.001	<0.001			<0.001
9/23/2020							<0.001		
4/19/2021				<0.001	<0.001				
4/20/2021		0.001	<0.001			<0.001		<0.001	
4/21/2021									<0.001
4/22/2021							<0.001		
9/28/2021				<0.001		<0.001			
9/29/2021	<0.001				<0.001				
9/30/2021							<0.001		
10/4/2021		<0.001	<0.001					<0.001	0.001
4/26/2022	<0.001	<0.001	<0.001		<0.001	<0.001			
5/2/2022							<0.001		
5/3/2022				<0.001					<0.001
5/4/2022								<0.001	
10/11/2022							<0.001	<0.001	
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
10/13/2022									0.001
10/18/2022						<0.001			
4/11/2023							<0.001	<0.001	<0.001
4/12/2023		<0.001	<0.001	<0.001	<0.001				
4/13/2023	<0.001					<0.001			
10/17/2023		<0.001	<0.001			<0.001			
10/18/2023	<0.001								

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/19/2023					<0.001				
10/24/2023								<0.001	<0.001
10/26/2023				<0.001					

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							<0.001	<0.001	
5/19/2016							<0.001	<0.001	
7/19/2016							<0.001		
8/4/2016									<0.001
9/20/2016							<0.001		<0.001
11/29/2016							<0.001		
11/30/2016									<0.001
1/31/2017							<0.001		
2/1/2017								<0.001	<0.001
5/23/2017							<0.001		
5/24/2017								<0.001	<0.001
4/18/2018							<0.001	<0.001	<0.001
8/14/2018							<0.001		
8/15/2018									<0.001
4/6/2019						<0.001			
4/7/2019	<0.001								
4/8/2019		<0.001							
4/9/2019								<0.001	<0.001
4/10/2019							<0.001		
7/31/2019	<0.001								
8/1/2019		<0.001				<0.001			
9/24/2019						0.00105	<0.001		
9/26/2019	<0.001								<0.001
9/27/2019		<0.001							
11/18/2019						<0.001			
11/19/2019	<0.001	<0.001							
1/29/2020	<0.001					0.00254			
1/30/2020		<0.001							
3/23/2020	<0.001	<0.001						<0.001	<0.001
3/26/2020						0.00111	<0.001		
6/23/2020	<0.001					<0.001			
6/24/2020		<0.001	0.002	0.001	0.001				
9/21/2020	<0.001								
9/22/2020			<0.001			<0.001			<0.001
9/23/2020				<0.001			<0.001		
9/24/2020		<0.001			<0.001				
4/19/2021								<0.001	<0.001
4/20/2021	<0.001								
4/21/2021			<0.001				<0.001		
4/22/2021		<0.001		<0.001	0.001	<0.001			
9/28/2021			<0.001				<0.001	<0.001	<0.001
9/29/2021						<0.001			
9/30/2021	<0.001								
10/1/2021		<0.001							
10/5/2021				<0.001	0.001				
4/26/2022								<0.001	<0.001
5/2/2022	<0.001								
5/3/2022			<0.001			<0.001	<0.001		
5/4/2022		<0.001		<0.001	0.001				
10/11/2022						<0.001	<0.001		
10/12/2022									<0.001
10/13/2022	<0.001			<0.001					

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/18/2022		<0.001	<0.001		<0.001				
4/10/2023						<0.001	<0.001		
4/12/2023	<0.001								
4/13/2023			<0.001	<0.001					
4/18/2023		<0.001			0.001			<0.001	<0.001
10/23/2023						<0.001			
10/24/2023	<0.001								<0.001
10/25/2023		<0.001							
10/26/2023			<0.001	<0.001	<0.001				

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	<0.001	<0.001		<0.001		
3/30/2016			<0.001			
5/18/2016				<0.001		
5/19/2016	<0.001	<0.001	<0.001			
7/19/2016		<0.001		<0.001		
7/20/2016	<0.001		<0.001			
9/20/2016	<0.001	<0.001	<0.001	<0.001		
11/29/2016	<0.001			<0.001		
11/30/2016		<0.001	<0.001			
1/31/2017	<0.001			<0.001		
2/1/2017		<0.001	<0.001			
5/22/2017				<0.001		
5/24/2017	<0.001	<0.001	<0.001			
4/17/2018	<0.001			<0.001		
4/18/2018		<0.001	<0.001			
8/14/2018				<0.001		
8/15/2018	<0.001	<0.001	<0.001			
4/7/2019	<0.001	<0.001	<0.001			
4/10/2019				<0.001		
9/24/2019				<0.001		
9/25/2019	<0.001	<0.001				
9/26/2019			<0.001			
3/26/2020	<0.001	<0.001	<0.001	<0.001		
9/23/2020	<0.001	<0.001	<0.001	<0.001		
4/20/2021		<0.001				
4/21/2021	<0.001		<0.001	<0.001		
9/29/2021		<0.001				
9/30/2021	<0.001		<0.001	<0.001		
4/25/2022				<0.001		
4/27/2022	<0.001		<0.001			
5/3/2022		<0.001				
10/11/2022				<0.001		
10/17/2022	<0.001	<0.001	<0.001			
4/11/2023				<0.001		
4/12/2023	<0.001	<0.001	<0.001			
10/17/2023	<0.001					
10/18/2023		<0.001				
10/19/2023				<0.001		
10/23/2023			<0.001			
10/25/2023					<0.001	<0.001

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	0.01								
3/30/2016		0.0087	<0.001	<0.001					
5/18/2016	0.0089	0.0086							
5/19/2016			<0.001	<0.001		0.00078 (J)			
5/20/2016								0.0022 (J)	
7/19/2016	0.0069								
7/20/2016		0.011	<0.001			0.00048 (J)			
8/4/2016					0.0065				0.076
9/19/2016	0.0057								
9/20/2016		0.0097			0.0038				
9/21/2016			<0.001			0.00061 (J)			0.085
11/29/2016	0.006					0.00088 (J)			
11/30/2016		0.0077			0.0044				
12/1/2016			<0.001						0.079
1/30/2017						0.00053 (J)			
1/31/2017	0.0072							0.26	0.12
2/1/2017		0.0096		<0.001	0.011				
2/2/2017			<0.001						
5/22/2017						<0.001			
5/23/2017	0.0094							0.14	0.14
5/24/2017		0.0058	<0.001						
5/25/2017				<0.001	0.0028				
4/17/2018	0.011							0.055	0.15
4/18/2018			<0.001			<0.001			
4/19/2018		0.0076		0.00062 (J)	0.034				
8/13/2018						<0.001			
8/14/2018	0.0077	0.0047			0.0026				
8/15/2018			<0.001						0.12
4/9/2019		0.0047	<0.001	<0.001	0.0074	<0.001	0.011		
4/10/2019	0.0086							0.043	0.11
8/1/2019							0.0116		
9/23/2019						<0.001	0.0113		
9/24/2019	0.0079								
9/26/2019		0.00378	<0.001		0.00319				0.111
11/18/2019							0.012		
1/30/2020							0.0116		
3/23/2020									0.057
3/24/2020				<0.001	0.00451			0.0522	
3/25/2020		0.00673	<0.001			<0.001	0.0133		
3/26/2020	0.00892								
6/23/2020							0.012		
9/21/2020							0.01		
9/23/2020	0.009	0.004							
9/24/2020			<0.001		<0.001				0.083
4/19/2021						<0.001	0.01		
4/20/2021		0.006	<0.001						
4/21/2021				<0.001	0.001				
4/22/2021	0.008							0.025	0.036
9/28/2021						<0.001	0.011		
9/29/2021								0.014	0.039
9/30/2021	0.008	0.003							
10/1/2021			<0.001	<0.001	<0.001				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
4/25/2022				<0.001	0.013				
4/26/2022								0.014	
4/27/2022		0.006	<0.001				0.011		
5/2/2022	0.009					<0.001			
5/4/2022									0.048
10/11/2022	0.007								
10/12/2022									0.042
10/13/2022		0.003			0.001				
10/17/2022			<0.001				0.012		
10/18/2022						<0.001			
4/10/2023						0.002			
4/11/2023	0.007						0.011		
4/12/2023		0.004	<0.001						
4/13/2023								0.059	0.035
4/18/2023				<0.001	<0.001				
10/17/2023					<0.001		0.012		
10/18/2023		0.002	<0.001						
10/23/2023	0.007								
10/24/2023									0.047

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							0.012		
5/18/2016							0.013		
7/19/2016							0.011		
9/19/2016							0.011		
11/29/2016							0.011		
1/31/2017							0.012		
5/23/2017							0.012		
4/17/2018							0.012		
8/14/2018							0.011		
4/6/2019								0.0027	0.0034
4/7/2019		0.014			0.0046	0.014			
4/8/2019			0.03	0.042					
4/10/2019							0.01		
7/31/2019		0.0092	0.0238	0.0301					
8/1/2019					<0.001	0.00845		0.00193	<0.001
9/24/2019		0.00544			<0.001		0.00991		
9/25/2019			0.0223			0.00723		<0.001	<0.001
9/26/2019				0.0322					
11/19/2019			0.02	0.0195	<0.001				0.00208
11/20/2019		0.00477				0.0068		0.0028	
1/29/2020						0.00444		0.00156	0.00289
1/30/2020		0.00218	0.0181	0.017	0.0049				
3/23/2020		0.00172	0.0173						
3/25/2020				0.0207	0.00407	0.00503		0.00384	0.00464
3/26/2020							0.0108		
6/22/2020		0.004	0.015						
6/23/2020				0.016	<0.001	0.005		0.006	
6/24/2020									0.005
9/21/2020		<0.001						<0.001	
9/22/2020			0.022	0.021	<0.001	0.006			<0.001
9/23/2020							0.01		
4/19/2021				0.016	0.002				
4/20/2021		<0.001	0.012			0.001		<0.001	
4/21/2021									0.003
4/22/2021							0.01		
9/28/2021				0.015		0.001			
9/29/2021	<0.001				<0.001				
9/30/2021							0.011		
10/4/2021		0.001	0.016					0.006	0.005
4/26/2022	<0.001	<0.001	0.011		0.001	0.001			
5/2/2022							0.01		
5/3/2022				0.017					0.004
5/4/2022								0.005	
10/11/2022							0.01	<0.001	
10/12/2022	<0.001	0.001	0.016	0.03	<0.001				
10/13/2022									<0.001
10/18/2022						<0.001			
4/11/2023							0.01	0.003	0.001
4/12/2023		<0.001	0.006	0.016	<0.001				
4/13/2023	<0.001					0.001			
10/17/2023		<0.001	0.015			0.004			
10/18/2023	<0.001								

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/19/2023					<0.001				
10/24/2023								<0.001	<0.001
10/26/2023				0.025					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							0.99	0.027	
5/19/2016							1	0.023	
7/19/2016							0.99		
8/4/2016									0.036
9/20/2016							1		0.015
11/29/2016							1		
11/30/2016									0.018
1/31/2017							0.98		
2/1/2017								0.018	0.014
5/23/2017							1		
5/24/2017								0.031	0.032
4/18/2018							0.98	0.03	0.0078
8/14/2018							0.9		
8/15/2018									0.009
4/6/2019						0.031			
4/7/2019	0.0091								
4/8/2019		0.00059 (J)							
4/9/2019								0.016	0.012
4/10/2019							0.82		
7/31/2019	0.00257								
8/1/2019		0.00462				0.0257			
9/24/2019						0.0252	0.856		
9/26/2019	0.00244								0.0275
9/27/2019		0.00371							
11/18/2019						0.0296			
11/19/2019	0.00159	0.00464							
1/29/2020	0.00187					0.0223			
1/30/2020		0.011							
3/23/2020	0.00235	0.0112						0.0154	0.0133
3/26/2020						0.0263	0.819		
6/23/2020	0.003					0.028			
6/24/2020		0.011	<0.001	0.021	<0.001				
9/21/2020	0.002								
9/22/2020			0.003			0.03			0.013
9/23/2020				0.018			0.868		
9/24/2020		0.009			<0.001				
4/19/2021								0.017	0.012
4/20/2021	0.003								
4/21/2021			0.005				0.892		
4/22/2021		0.014		<0.001	<0.001	0.019			
9/28/2021			<0.001				0.816	0.018	0.013
9/29/2021						0.026			
9/30/2021	0.003								
10/1/2021		0.011							
10/5/2021				0.003	<0.001				
4/26/2022								0.023	0.015
5/2/2022	0.002								
5/3/2022			0.002			0.021	0.87		
5/4/2022		0.016		0.001	<0.001				
10/11/2022						0.03	0.982		
10/12/2022									0.014
10/13/2022	0.001			0.011					

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/18/2022		<0.001	<0.001		<0.001				
4/10/2023						0.021	0.58		
4/12/2023	<0.001								
4/13/2023			0.004	0.001					
4/18/2023		<0.001			<0.001			0.013	0.014
10/23/2023						0.022			
10/24/2023	<0.001								0.021
10/25/2023		<0.001							
10/26/2023			0.001	0.011	<0.001				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	0.0048	0.0016 (J)		<0.001		
3/30/2016			0.0031			
5/18/2016				<0.001		
5/19/2016	0.015	0.0035	0.0024 (J)			
7/19/2016		0.0018 (J)		<0.001		
7/20/2016	0.012		0.002 (J)			
9/20/2016	0.012	0.0037	0.00096 (J)	<0.001		
11/29/2016	0.012			<0.001		
11/30/2016		0.0082	0.00065 (J)			
1/31/2017	0.013			<0.001		
2/1/2017		0.0017 (J)	0.001 (J)			
5/22/2017				<0.001		
5/24/2017	0.016	0.0043	0.0041			
4/17/2018	0.0055			<0.001		
4/18/2018		0.00062 (J)	<0.001			
8/14/2018				<0.001		
8/15/2018	0.012	0.0036	<0.001			
4/7/2019	0.0042	0.0033	0.0025			
4/10/2019				<0.001		
9/24/2019				<0.001		
9/25/2019	0.0105	0.00317				
9/26/2019			<0.001			
3/26/2020	0.00254	<0.001	0.00223	<0.001		
9/23/2020	0.011	0.001	<0.001	<0.001		
4/20/2021		<0.001				
4/21/2021	<0.001		0.002	<0.001		
9/29/2021		0.001				
9/30/2021	0.002		0.002	<0.001		
4/25/2022				<0.001		
4/27/2022	<0.001		0.001			
5/3/2022		0.001				
10/11/2022				<0.001		
10/17/2022	0.014	<0.001	<0.001			
4/11/2023				<0.001		
4/12/2023	0.001	<0.001	<0.001			
10/17/2023	0.012					
10/18/2023		0.001				
10/19/2023				<0.001		
10/23/2023			<0.001			
10/25/2023					0.019	0.016

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							0.605		
5/18/2016							0.43		
7/19/2016							0.393 (U)		
9/19/2016							0.0786 (U)		
11/29/2016							0.249 (U)		
3/28/2017							0.698		
5/23/2017							0.223 (U)		
4/17/2018							0.142 (U)		
8/14/2018							0.392 (U)		
4/6/2019								0.447 (U)	0.219 (U)
4/7/2019		0.217 (U)			0.636	0.53			
4/8/2019			1.17	0.788					
4/10/2019							0.166 (U)		
10/15/2019		0.672			0.711	0.491	0.683	0.838	
12/16/2019		0.851	1.18	0.876	0.827	0.542		0.817	1.19
2/20/2020		0.381	0.581	1.09	1.16	0.702		0.563	0.306
4/16/2020		0.738	0.697						
4/17/2020				0.663	0.619	0.692	0.499	0.69	0.374
7/20/2020		0.623 (U)	1.2 (U)	1.24 (U)	0.918 (U)	0.771 (U)		1.33 (U)	0.519 (U)
10/19/2020		1.28 (U)	2.2	1.01 (U)	0.228 (U)	0.523 (U)	1.43 (U)	1.03 (U)	0.476 (U)
5/19/2021							0.551		-0.123
5/20/2021									0.446
5/21/2021		0.784	0.303	-0.113	0.274	0.131	0.8045 (D)	0.332	0.446
5/24/2021		0.916 (D)	0.3915 (D)	0.139 (D)	0.336 (D)	0.034 (D)		0.466 (D)	
10/22/2021							0.427		
10/27/2021	0.996			0.668	0.85	0.849			
10/28/2021		0.401	0.585					0.89	0.414
4/26/2022	0.841 (U)	0.445 (U)	0.923 (U)		0.676 (U)	0.323 (U)			
5/2/2022							0.579 (U)		
5/3/2022				0.678 (U)				0.85 (U)	0.696 (U)
11/10/2022						0.0626 (U)			
11/11/2022	1.84	0.673 (U)	1.1 (U)	0.979 (U)	0.283 (U)		0.801 (U)	1.5 (U)	0.721 (U)
5/3/2023								0.209 (U)	0.775 (U)
5/4/2023	1.33 (U)	0.691 (U)	0.986 (U)	0.0709 (U)	0.809 (U)	0.597 (U)	0.635 (U)		
11/10/2023	2.63 (U)	0.828 (U)	1.02 (U)		0.708 (U)	0.209 (U)			
11/21/2023				1.69 (U)				1.24 (U)	0.793 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							0.583	0.842	
5/19/2016							0.599	0.738 (U)	
7/19/2016							0.908		
8/4/2016									0.469
9/20/2016							0.684		0.529
11/29/2016							1.2		
11/30/2016									0.267 (U)
3/28/2017							0.803	0.472	1.04
5/23/2017							0.673		
5/24/2017								0.532	0.288 (U)
4/18/2018							0.461	0.652	0.488
8/14/2018							0.985		
8/15/2018									0.469
4/6/2019						0.365 (U)			
4/7/2019	0.733								
4/8/2019		1.15							
4/9/2019								1.02	0.511
4/10/2019							1.25		
10/15/2019						1.66	0.977		
12/16/2019	0.692	1.26 (U)				0.0662			
2/20/2020	0.761	0.977				0.186			
4/16/2020	1.04 (U)	1.47 (U)						0.756	1.04
4/17/2020						0.585	0.901		
7/20/2020	0.591 (U)	1.46 (U)	1.03 (U)	0.842 (U)	0.35 (U)	0.33 (U)			
10/19/2020	1.13 (U)	2.19 (U)	0.831 (U)	0.897 (U)	0.316 (U)	1.17 (U)	0.784 (U)		0.23 (U)
5/17/2021	0.265								
5/19/2021	0.2036 (D)	0.539	1.57	1.83	0.976	0.881	0.652		
5/20/2021		0.24		0	0.145				
5/21/2021		0.779	0.957 (D)	1.83	1.12	0.5063 (D)	0.447 (D)	1.17	1.31
5/24/2021								0.585 (D)	0.62395 (D)
10/22/2021	1.01	1.64				0.414	1.03	1.46	11.3
10/27/2021			0.886						
10/28/2021				0.782	0.743				
4/26/2022								1.13 (U)	0.441 (U)
5/3/2022	0.463 (U)	1.12	1.28 (U)	0.608 (U)	0.406 (U)	1.03	1.04		
11/10/2022			1.34 (U)		0.716 (U)				
11/11/2022	1.03 (U)	0.803 (U)		0.6 (U)		0.325 (U)	1.35 (U)		0.844 (U)
5/3/2023	1.01 (U)		0.763 (U)	1.51 (U)					
5/4/2023						0.678 (U)	1.54 (U)		
5/11/2023		1.27 (U)			0.843			1.48	1.3
11/21/2023	0.229 (U)	0.946 (U)	1.19 (U)	1.21 (U)	0.418 (U)	0.229 (U)			1.01 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	0.859	0.414		0.65		
3/30/2016			0.206 (U)			
5/18/2016				0.982		
5/19/2016	0.528	0.602	-0.139 (U)			
7/19/2016		0.454		1.07		
7/20/2016	0.313 (U)		0.542			
9/20/2016	0.495 (U)	1.01	0.937	1.02		
11/29/2016	0.19 (U)			1.55		
11/30/2016		0.4 (U)	0.401 (U)			
3/28/2017				0.608		
3/29/2017	0.258 (U)	0.598	0.375 (U)			
5/22/2017				0.614		
5/24/2017	0.167 (U)	0.476	-0.0523 (U)			
4/17/2018	0.258 (U)			0.732		
4/18/2018		0.283 (U)	0.124 (U)			
8/14/2018				1.21		
8/15/2018	0.666	1.14	0.434			
4/7/2019	0.198 (U)	0.0178 (U)	0.0561 (U)			
4/10/2019				1.42		
10/15/2019		2.31		1.46		
4/17/2020	0.236	1.12	0.732	1.27		
10/19/2020	0.351 (U)	0.466 (U)	0.0686 (U)	1.24 (U)		
5/17/2021		0.568				
5/19/2021	0.295	0.447 (D)	1.08	0.689		
5/20/2021				0.559		
5/21/2021	0.3155 (D)		0.6505 (D)	1.25		
10/22/2021	0.584	10.9	0.92	2.3		
4/27/2022	0.441 (U)		0.528 (U)	1.34 (U)		
5/3/2022		1.14				
11/10/2022	0.671 (U)	0.701 (U)				
11/11/2022				1.38 (U)		
11/15/2022			0.338 (U)			
5/4/2023	0.707 (U)	1.31 (U)	0.31 (U)	1.36 (U)		
11/10/2023	0.966 (U)	0.533 (U)		3.45		
11/21/2023			0.807 (U)		0.432 (U)	0.926 (U)

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	0.04 (J)								
3/30/2016		0.06 (J)	0.05 (J)	1.5					
5/18/2016	0.04 (J)	0.06 (J)							
5/19/2016			1.6	0.04 (J)		0.07 (J)			
5/20/2016								0.22	
7/19/2016	0.04 (J)								
7/20/2016		0.07 (J)	1.8			0.08 (J)			
8/4/2016					0.04 (J)				0.05 (J)
9/19/2016	<0.125								
9/20/2016		0.06 (J)			0.04 (J)				
9/21/2016			1.8			0.08 (J)			0.05 (J)
11/29/2016	<0.125					0.06 (J)			
11/30/2016		0.04 (J)			<0.125				
12/1/2016			1.7						0.05 (J)
1/30/2017						0.06 (J)			
1/31/2017	0.04 (J)							0.04 (J)	<0.125
2/1/2017		0.06 (J)		0.04 (J)	0.04 (J)				
2/2/2017			2.4						
5/22/2017						0.09 (J)			
5/23/2017	0.05 (J)							0.06 (J)	0.04 (J)
5/24/2017		0.08 (J)	2.2						
5/25/2017				0.05 (J)	0.05 (J)				
10/9/2017	0.06 (J)								
10/10/2017			2.1		0.04 (J)	0.1			0.04 (J)
10/11/2017		0.06 (J)							
4/17/2018	0.07 (J)							0.15	0.05 (J)
4/18/2018			2			0.11			
4/19/2018		0.07 (J)		0.04 (J)	0.05 (J)				
8/13/2018						0.13			
8/14/2018	0.07 (J)	0.07 (J)			0.05 (J)				
8/15/2018			2.5						0.05 (J)
4/9/2019		0.06 (J)	1.9	0.05 (J)	0.05 (J)	0.1	0.06 (J)		
4/10/2019	0.08 (J)							0.19	0.06 (J)
8/1/2019							<0.125		
9/23/2019						0.132	<0.125		
9/24/2019	<0.125								
9/26/2019		<0.125	1.93		<0.125				<0.125
11/18/2019							<0.125		
1/30/2020							<0.125		
3/23/2020									<0.125
3/24/2020				<0.125	<0.125			0.194	
3/25/2020		0.236	1.72			0.152	<0.125		
3/26/2020	<0.125								
6/23/2020							<0.125		
9/21/2020							<0.125		
9/23/2020	<0.125	<0.125							
9/24/2020			1.94		<0.125				<0.125
4/19/2021						<0.125	<0.125		
4/20/2021		<0.125	1.9						
4/21/2021				<0.125	<0.125				
4/22/2021	<0.125							<0.125	<0.125
9/28/2021						0.203	<0.125		

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
9/29/2021								0.178	0.136
9/30/2021	0.143	<0.125							
10/1/2021			2.24	<0.125	<0.125				
4/25/2022				<0.125	<0.125				
4/26/2022								0.186	
4/27/2022		0.282	2.01				<0.125		
5/2/2022	<0.125					<0.125			
5/4/2022									<0.125
10/11/2022	<0.125								
10/12/2022									<0.125
10/13/2022		<0.125			<0.125				
10/17/2022			2.03				<0.125		
10/18/2022						<0.125			
4/10/2023						0.13			
4/11/2023	<0.125						<0.125		
4/12/2023		<0.125	1.74						
4/13/2023								<0.125	<0.125
4/18/2023				<0.125	<0.125				
10/17/2023					<0.125		<0.125		
10/18/2023		<0.125	1.93						
10/23/2023	0.162								
10/24/2023									0.137

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							<0.125		
5/18/2016							<0.125		
7/19/2016							<0.125		
9/19/2016							<0.125		
11/29/2016							<0.125		
1/31/2017							<0.125		
5/23/2017							<0.125		
10/10/2017							<0.125		
4/17/2018							<0.125		
8/14/2018							0.04 (J)		
4/6/2019								0.14	0.09 (J)
4/7/2019		0.06 (J)			0.11	0.04 (J)			
4/8/2019			0.09 (J)	1.1					
4/10/2019							<0.125		
7/31/2019		<0.125	<0.125	0.342					
8/1/2019					<0.125	<0.125		0.203	0.138
9/24/2019		<0.125			<0.125		<0.125		
9/25/2019			<0.125			<0.125		0.16	0.125
9/26/2019				0.339					
11/19/2019			<0.125	1.48	0.135				<1.25
11/20/2019		<0.125				<0.125		0.155	
1/29/2020						<0.125		0.357	0.229
1/30/2020		<0.125	0.192	1.71	0.271				
3/23/2020		<0.125	0.199						
3/25/2020				1.21	0.129	<0.125		0.158	0.169
3/26/2020							<0.125		
6/22/2020		<0.125	<0.125						
6/23/2020				1.32	<0.125	<0.125		<0.125	
6/24/2020									<1.25
9/21/2020		<0.125						0.147	
9/22/2020			<0.125	0.322	<0.125	<0.125			0.127
9/23/2020							<0.125		
4/19/2021				1.37	0.138				
4/20/2021		<0.125	<0.125			<0.125		0.164	
4/21/2021									0.163
4/22/2021							<0.125		
9/28/2021				1.96		<0.125			
9/29/2021	<1.25				0.143				
9/30/2021							<0.125		
10/4/2021		<0.125	<0.125					<0.125	<1.25
4/26/2022	<1.25	<0.125	<0.125		0.146	<0.125			
5/2/2022							<0.125		
5/3/2022				1.69					<1.25
5/4/2022								<0.125	
10/11/2022							<0.125	0.182	
10/12/2022	<1.25	<0.125	<0.125	0.472	<0.125				
10/13/2022									<1.25
10/18/2022						<0.125			
4/11/2023							<0.125	<0.125	<1.25
4/12/2023		<0.125	<0.125	1.43	<0.125				
4/13/2023	<1.25					<0.125			
10/17/2023		<0.125	<0.125			<0.125			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/18/2023	<1.25								
10/19/2023					<0.125				
10/24/2023								0.163	0.129
10/26/2023				0.94					

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							0.31	0.1	
5/19/2016							0.34	0.15	
7/19/2016							0.37		
8/4/2016									1.2
9/20/2016							0.38		1.7
11/29/2016							0.34		
11/30/2016									1.5
1/31/2017							0.41		
2/1/2017								<1.25	2.1
5/23/2017							0.36		
5/24/2017								0.08 (J)	1.3
10/10/2017							0.39		2.2
4/18/2018							0.38	0.11	<0.1
8/14/2018							0.47		
8/15/2018									2
4/6/2019						0.04 (J)			
4/7/2019	0.11								
4/8/2019		3.2							
4/9/2019								0.18	1.6
4/10/2019							0.38		
7/31/2019	<0.125								
8/1/2019		2.07				<0.125			
9/24/2019						<0.125	1.03		
9/26/2019	<0.125								1.92
9/27/2019		2.96							
11/18/2019						<0.125			
11/19/2019	<0.125	0.812							
1/29/2020	0.206					<0.125			
1/30/2020		2.05							
3/23/2020	0.246	1.43						0.336	1.27
3/26/2020						<0.125	0.288		
6/23/2020	<0.125					<0.125			
6/24/2020		1.12	0.345	0.576	0.144				
9/21/2020	<0.125								
9/22/2020			0.969			<0.125			1.33
9/23/2020				0.72			0.43		
9/24/2020		1.76			0.17				
4/19/2021								<1.25	1.13
4/20/2021	<0.125								
4/21/2021			0.713				0.549		
4/22/2021		1.69		1.05	0.173	<0.125			
9/28/2021			1.31				0.665	0.193	1.86
9/29/2021						<0.125			
9/30/2021	<0.125								
10/1/2021		2.29							
10/5/2021				0.759	<0.125				
4/26/2022								<1.25	1.45
5/2/2022	<0.125								
5/3/2022			0.884			<0.125	0.43		
5/4/2022		2.21		0.337	<0.125				
10/11/2022						<0.125	0.738		
10/12/2022									1.57

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/13/2022	<0.125			0.563					
10/18/2022		2.48	0.321		0.142				
4/10/2023						<0.125	0.4		
4/12/2023	<0.125								
4/13/2023			1.11	0.719					
4/18/2023		2.02			0.144			<1.25	1.27
10/23/2023						0.157			
10/24/2023	<0.125								1.3
10/25/2023		0.367							
10/26/2023			1.55	0.365	0.161				

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	0.12	0.79		0.12		
3/30/2016			0.13			
5/18/2016				0.12		
5/19/2016	0.14	1.1	0.16			
7/19/2016		1.7		0.12		
7/20/2016	0.24		0.16			
9/20/2016	0.23	1.6	0.14	0.11		
11/29/2016	0.17			0.09 (J)		
11/30/2016		1.4	0.12			
1/31/2017	0.04 (J)			0.1		
2/1/2017		1.1	0.16			
5/22/2017				0.1		
5/24/2017	0.1	1.7	0.19			
10/9/2017				0.12		
10/11/2017	0.24	2.3	0.19			
4/17/2018	0.06 (J)			0.15		
4/18/2018		1.4	0.19			
8/14/2018				0.12		
8/15/2018	0.27	2.2	0.22			
4/7/2019	0.06 (J)	1.5	0.17			
4/10/2019				0.09 (J)		
9/24/2019				<1.25		
9/25/2019	0.324	2.43				
9/26/2019			0.183			
3/26/2020	<1.25	1.37	0.38	<1.25		
9/23/2020	0.237	1.92	0.233	<1.25		
4/20/2021		1.06				
4/21/2021	<1.25		0.229	0.158		
9/29/2021		2.23				
9/30/2021	<1.25		0.267	<1.25		
4/25/2022				<1.25		
4/27/2022	<1.25		0.291			
5/3/2022		2.11				
10/11/2022				0.139		
10/17/2022	<1.25	2.58	<0.5			
4/11/2023				0.14		
4/12/2023	<1.25	1.98	0.225			
10/17/2023	<1.25					
10/18/2023		2.46				
10/19/2023				<1.25		
10/23/2023			0.206			
10/25/2023					<0.125	0.136

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	<0.001								
3/30/2016		<0.001	<0.001	<0.001					
5/18/2016	<0.001	<0.001							
5/19/2016			<0.001	<0.001		<0.001			
5/20/2016								<0.001	
7/19/2016	<0.001								
7/20/2016		<0.001	<0.001			<0.001			
8/4/2016					<0.001				<0.001
9/19/2016	<0.001								
9/20/2016		<0.001			<0.001				
9/21/2016			<0.001			<0.001			<0.001
11/29/2016	<0.001					<0.001			
11/30/2016		<0.001			<0.001				
12/1/2016			<0.001						<0.001
1/30/2017						<0.001			
1/31/2017	<0.001							<0.001	<0.001
2/1/2017		<0.001		<0.001	<0.001				
2/2/2017			<0.001						
5/22/2017						<0.001			
5/23/2017	<0.001							<0.001	<0.001
5/24/2017		<0.001	<0.001						
5/25/2017				<0.001	<0.001				
4/17/2018	<0.001							<0.001	<0.001
4/18/2018			<0.001			<0.001			
4/19/2018		<0.001		<0.001	<0.001				
8/13/2018						0.00088 (J)			
8/14/2018	<0.001	<0.001			<0.001				
8/15/2018			<0.001						<0.001
4/9/2019		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
4/10/2019	<0.001							<0.001	<0.001
8/1/2019							<0.001		
9/23/2019						<0.001	<0.001		
9/24/2019	<0.001								
9/26/2019		<0.001	<0.001		<0.001				<0.001
11/18/2019							<0.001		
1/30/2020							<0.001		
3/23/2020									<0.001
3/24/2020				<0.001	<0.001			<0.001	
3/25/2020		<0.001	<0.001			<0.001	<0.001		
3/26/2020	<0.001								
6/23/2020							<0.001		
9/21/2020							<0.001		
9/23/2020	<0.001	0.0015							
9/24/2020			<0.001		<0.001				<0.001
4/19/2021						<0.001	<0.001		
4/20/2021		<0.001	<0.001						
4/21/2021				<0.001	<0.001				
4/22/2021	<0.001							<0.001	<0.001
9/28/2021						<0.001	<0.001		
9/29/2021								<0.001	<0.001
9/30/2021	<0.001	<0.001							
10/1/2021			<0.001	<0.001	<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
4/25/2022				<0.001	<0.001				
4/26/2022								<0.001	
4/27/2022		<0.001	<0.001				<0.001		
5/2/2022	<0.001					<0.001			
5/4/2022									<0.001
10/11/2022	<0.001								
10/12/2022									<0.001
10/13/2022		<0.001			<0.001				
10/17/2022			<0.001				<0.001		
10/18/2022						<0.001			
4/10/2023						<0.001			
4/11/2023	<0.001						<0.001		
4/12/2023		<0.001	<0.001						
4/13/2023								<0.001	<0.001
4/18/2023				<0.001	<0.001				
10/17/2023					<0.001		<0.001		
10/18/2023		<0.001	<0.001						
10/23/2023	<0.001								
10/24/2023									<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							<0.001		
5/18/2016							<0.001		
7/19/2016							<0.001		
9/19/2016							<0.001		
11/29/2016							<0.001		
1/31/2017							<0.001		
5/23/2017							<0.001		
4/17/2018							<0.001		
8/14/2018							<0.001		
4/6/2019								<0.001	<0.001
4/7/2019		<0.001			<0.001	<0.001			
4/8/2019			<0.001	<0.001					
4/10/2019							<0.001		
7/31/2019		<0.001	<0.001	<0.001					
8/1/2019					<0.001	<0.001		<0.001	<0.001
9/24/2019		<0.001			<0.001		<0.001		
9/25/2019			<0.001			<0.001		<0.001	<0.001
9/26/2019				<0.001					
11/19/2019			<0.001	<0.001	<0.001				<0.001
11/20/2019		<0.001				<0.001		<0.001	
1/29/2020						<0.001		<0.001	<0.001
1/30/2020		<0.001	<0.001	<0.001	<0.001				
3/23/2020		<0.001	<0.001						
3/25/2020				<0.001	<0.001	<0.001		<0.001	<0.001
3/26/2020							<0.001		
6/22/2020		<0.001	<0.001						
6/23/2020				<0.001	<0.001	<0.001		<0.001	
6/24/2020									<0.001
9/21/2020		<0.001						<0.001	
9/22/2020			<0.001	<0.001	<0.001	<0.001			<0.001
9/23/2020							<0.001		
4/19/2021				<0.001	<0.001				
4/20/2021		<0.001	<0.001			<0.001		<0.001	
4/21/2021									<0.001
4/22/2021							<0.001		
9/28/2021				<0.001		<0.001			
9/29/2021	<0.001				<0.001				
9/30/2021							<0.001		
10/4/2021		<0.001	<0.001					<0.001	<0.001
4/26/2022	<0.001	<0.001	<0.001		<0.001	<0.001			
5/2/2022							<0.001		
5/3/2022				<0.001					<0.001
5/4/2022								<0.001	
10/11/2022							<0.001	<0.001	
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
10/13/2022									<0.001
10/18/2022						<0.001			
4/11/2023							<0.001	<0.001	<0.001
4/12/2023		<0.001	<0.001	<0.001	<0.001				
4/13/2023	<0.001					<0.001			
10/17/2023		<0.001	<0.001			<0.001			
10/18/2023	<0.001								

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/19/2023					<0.001				
10/24/2023								<0.001	<0.001
10/26/2023				<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							0.0018	<0.001	
5/19/2016							0.002	<0.001	
7/19/2016							0.0019		
8/4/2016									<0.001
9/20/2016							0.0018		<0.001
11/29/2016							0.0024		
11/30/2016									<0.001
1/31/2017							0.002		
2/1/2017								<0.001	<0.001
5/23/2017							0.0021		
5/24/2017								<0.001	<0.001
4/18/2018							0.0019	<0.001	<0.001
8/14/2018							0.0017		
8/15/2018									<0.001
4/6/2019						<0.001			
4/7/2019	<0.001								
4/8/2019		<0.001							
4/9/2019								<0.001	<0.001
4/10/2019							0.0014		
7/31/2019	<0.001								
8/1/2019		<0.001				<0.001			
9/24/2019						<0.001	<0.001		
9/26/2019	<0.001								<0.001
9/27/2019		<0.001							
11/18/2019						<0.001			
11/19/2019	<0.001	<0.001							
1/29/2020	<0.001					0.00203			
1/30/2020		<0.001							
3/23/2020	<0.001	<0.001						<0.001	<0.001
3/26/2020						<0.001	0.00178		
6/23/2020	<0.001					<0.001			
6/24/2020		<0.001	<0.001	<0.001	<0.001				
9/21/2020	<0.001								
9/22/2020			<0.001			<0.001			<0.001
9/23/2020				<0.001			0.0018		
9/24/2020		<0.001			<0.001				
4/19/2021								<0.001	<0.001
4/20/2021	<0.001								
4/21/2021			<0.001				0.0019		
4/22/2021		<0.001		<0.001	<0.001	<0.001			
9/28/2021			<0.001				<0.001	<0.001	<0.001
9/29/2021						<0.001			
9/30/2021	<0.001								
10/1/2021		<0.001							
10/5/2021				<0.001	<0.001				
4/26/2022								<0.001	<0.001
5/2/2022	<0.001								
5/3/2022			<0.001			<0.001	0.0016		
5/4/2022		<0.001		<0.001	<0.001				
10/11/2022						<0.001	0.0011		
10/12/2022									<0.001
10/13/2022	<0.001			<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/18/2022		<0.001	<0.001		<0.001				
4/10/2023						<0.001	0.0013		
4/12/2023	<0.001								
4/13/2023			<0.001	<0.001					
4/18/2023		<0.001			<0.001			<0.001	<0.001
10/23/2023						<0.001			
10/24/2023	<0.001								<0.001
10/25/2023		<0.001							
10/26/2023			<0.001	<0.001	<0.001				

Time Series

Constituent: Lead (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	<0.001	<0.001		<0.001		
3/30/2016			<0.001			
5/18/2016				<0.001		
5/19/2016	<0.001	<0.001	<0.001			
7/19/2016		<0.001		<0.001		
7/20/2016	<0.001		<0.001			
9/20/2016	<0.001	<0.001	<0.001	<0.001		
11/29/2016	<0.001			<0.001		
11/30/2016		<0.001	<0.001			
1/31/2017	<0.001			<0.001		
2/1/2017		<0.001	<0.001			
5/22/2017				<0.001		
5/24/2017	<0.001	<0.001	<0.001			
4/17/2018	<0.001			<0.001		
4/18/2018		<0.001	<0.001			
8/14/2018				<0.001		
8/15/2018	<0.001	<0.001	<0.001			
4/7/2019	<0.001	<0.001	<0.001			
4/10/2019				<0.001		
9/24/2019				<0.001		
9/25/2019	<0.001	<0.001				
9/26/2019			<0.001			
3/26/2020	<0.001	<0.001	<0.001	<0.001		
9/23/2020	<0.001	<0.001	<0.001	<0.001		
4/20/2021		<0.001				
4/21/2021	<0.001		<0.001	<0.001		
9/29/2021		<0.001				
9/30/2021	<0.001		<0.001	<0.001		
4/25/2022				<0.001		
4/27/2022	<0.001		<0.001			
5/3/2022		<0.001				
10/11/2022				<0.001		
10/17/2022	<0.001	<0.001	<0.001			
4/11/2023				<0.001		
4/12/2023	<0.001	<0.001	<0.001			
10/17/2023	<0.001					
10/18/2023		<0.001				
10/19/2023				<0.001		
10/23/2023			<0.001			
10/25/2023					<0.001	<0.001

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	<0.004								
3/30/2016		0.017	<0.005	0.1					
5/18/2016	<0.004	0.016							
5/19/2016			0.075	0.0034 (J)		<0.008			
5/20/2016								<0.008	
7/19/2016	<0.004								
7/20/2016		0.013	0.065			<0.008			
8/4/2016					<0.008				0.063
9/19/2016	<0.004								
9/20/2016		0.019			0.0034 (J)				
9/21/2016			0.1			<0.008			0.044
11/29/2016	<0.004					<0.008			
11/30/2016		0.013			0.0037 (J)				
12/1/2016			0.079						0.035
1/30/2017						<0.008			
1/31/2017	<0.004							0.0035 (J)	0.044
2/1/2017		0.015		<0.008	0.017				
2/2/2017			0.062						
5/22/2017						<0.008			
5/23/2017	<0.004							<0.008	0.018
5/24/2017		0.013	0.062						
5/25/2017				0.0053	0.0061				
4/17/2018	0.0022 (J)							<0.008	0.047
4/18/2018			0.078			<0.008			
4/19/2018		0.021		0.02	0.045				
8/13/2018						<0.008			
8/14/2018	0.0025 (J)	0.016			0.0084				
8/15/2018			0.052						0.016
4/9/2019		0.012	0.058	0.0074	0.014	<0.008	0.005		
4/10/2019	0.0018 (J)							0.0015 (J)	0.026
4/18/2019		0.012	0.058	0.0074	0.014	<0.008	0.005	0.0015 (J)	0.026
8/1/2019							<0.025		
10/12/2019			0.0746		0.0087				0.0177
10/17/2019						<0.008	0.00619		
10/19/2019	<0.004								
10/23/2019		0.0149							
11/18/2019							0.00513		
12/3/2019							0.00513		
2/11/2020							0.00854		
2/13/2020							0.00854		
4/3/2020	<0.004	<0.025	0.0668	0.00916	<0.008	<0.008	<0.025	<0.008	
4/17/2020	<0.004			0.00916					0.0136
4/20/2020		<0.025	0.0668		<0.008	<0.008	<0.025	<0.008	
7/7/2020							0.00643		
10/15/2020	<0.004								
10/16/2020		0.0155	0.0543		0.00761		0.0066		0.0103
5/11/2021		0.0187	0.0499				0.00673		
9/28/2021						<0.008	0.0062		
9/29/2021								<0.008	0.00884
9/30/2021	<0.004	0.0113							
10/1/2021			0.0521	<0.008	0.00683				
4/25/2022				0.00549	0.00621				

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
4/26/2022								<0.008	
4/27/2022		0.0161	0.0419				0.00624		
5/2/2022	<0.004					<0.008			
5/4/2022									0.00693
11/8/2022	<0.004	0.0141	0.0516		0.00618	<0.008	0.00762		0.00679
4/28/2023	<0.004	0.016	0.043	<0.008	<0.008	<0.008	0.00949	<0.008	0.0118
10/17/2023					0.00537		0.00791		
10/18/2023		0.0156	0.0567						
10/23/2023	<0.004								
10/24/2023									0.00709

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							0.0034 (J)		
5/18/2016							<0.008		
7/19/2016							<0.008		
9/19/2016							<0.008		
11/29/2016							<0.008		
1/31/2017							<0.008		
5/23/2017							<0.008		
4/17/2018							0.0022 (J)		
8/14/2018							0.0027 (J)		
4/6/2019								0.0015 (J)	0.0018 (J)
4/7/2019		0.0038 (J)			0.003 (J)	0.011			
4/8/2019			0.046	0.15					
4/10/2019							0.002 (J)		
4/17/2019		0.0038 (J)	0.046	0.15	0.003 (J)	0.011		0.0015 (J)	0.0018 (J)
4/18/2019							0.002 (J)		
7/31/2019		<0.004	0.0322	0.0897					
8/1/2019					<0.004	0.00791		<0.004	<0.004
10/17/2019		<0.004			<0.004	0.00916		<0.004	
10/19/2019							<0.008		
10/23/2019			0.0353	0.0925					<0.004
11/19/2019			0.0399	0.132	<0.004				<0.004
11/20/2019		<0.004				0.00932		<0.004	
12/3/2019		<0.004	0.0399	0.132	<0.004	0.00932		<0.004	<0.004
2/11/2020		<0.004	0.0379	0.124	<0.004	0.0139		<0.004	<0.004
2/13/2020		<0.004	0.0379	0.124	<0.004	0.0139		<0.004	<0.004
4/3/2020				0.115	<0.004	<0.025	<0.008	<0.004	<0.004
4/17/2020		0.00756	0.0371				<0.008		
4/20/2020				0.115	<0.004	<0.025		<0.004	<0.004
7/8/2020		<0.004	0.0429	0.107	<0.004	0.00835			<0.004
10/15/2020							<0.008		
10/16/2020		<0.004	0.0287	0.0469	<0.004				
10/22/2020						0.0102		<0.004	<0.004
5/11/2021			0.0526	0.109		0.0103			
9/28/2021				0.103		0.00914			
9/29/2021	0.194				<0.004				
9/30/2021							<0.008		
10/4/2021		<0.004	0.0519					<0.004	<0.004
4/26/2022	0.0939	<0.004	0.0405		<0.004	0.00874			
5/3/2022				0.0877					<0.004
5/4/2022								<0.004	
5/5/2022							<0.008		
11/8/2022	0.177	<0.004	0.0334	0.047	<0.004	0.00994	<0.008	<0.004	<0.004
4/28/2023	0.0834	<0.004	0.0344	0.0992	<0.004	0.0134	<0.008	<0.004	<0.004
10/17/2023		<0.004	0.0337			0.00904			
10/18/2023	0.141								
10/19/2023					<0.004				
10/24/2023								<0.004	<0.004
10/26/2023				0.0652					

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							0.0093	<0.008	
5/19/2016							0.0069	<0.008	
7/19/2016							0.006		
8/4/2016									0.2
9/20/2016							0.0062		0.2
11/29/2016							0.0087		
11/30/2016									0.18
1/31/2017							0.0045 (J)		
2/1/2017								0.0096	0.22
5/23/2017							0.0065		
5/24/2017								0.0034 (J)	0.11
4/18/2018							0.0086	0.0045 (J)	0.23
8/14/2018							0.0071		
8/15/2018									0.097
4/6/2019						0.0027 (J)			
4/7/2019	0.0012 (J)								
4/8/2019		0.2							
4/9/2019								<0.008	0.09
4/10/2019							0.0056		
4/17/2019	0.0012 (J)					0.0374 (JD)			
4/18/2019		0.2					0.0056	<0.008	0.09
7/31/2019	<0.004								
8/1/2019		0.126				<0.004			
10/12/2019		0.2							
10/17/2019						<0.004	0.0071		
10/23/2019	<0.004								0.0813
11/18/2019						<0.004			
11/19/2019	<0.004	0.197							
12/3/2019	<0.004	0.197				<0.004			
2/11/2020	<0.004	0.168				0.00825			
2/13/2020	<0.004	0.168				0.00825			
4/3/2020						<0.004	0.00597		
4/17/2020	<0.004	0.135				<0.004	0.00597	<0.008	0.0671
7/7/2020						<0.004			
7/8/2020	<0.004	0.174	0.251	0.15					
7/10/2020					<0.004				
10/15/2020						<0.004	0.0068		0.0488
10/22/2020	<0.004	0.169	0.143	0.185	<0.004				
5/11/2021									0.0626
9/28/2021			0.114				0.00517	<0.008	0.0663
9/29/2021						<0.004			
9/30/2021	<0.004								
10/1/2021		0.173							
10/5/2021				0.12	<0.004				
4/26/2022								<0.008	0.0561
5/2/2022	<0.004								
5/3/2022			0.136			<0.004	0.0054		
5/4/2022		0.145		0.12	<0.004				
11/8/2022	<0.004	0.136	0.105	0.149	<0.004	<0.004	0.00649		0.0569
4/28/2023	<0.004	0.165	0.0744	0.127	<0.004	<0.004	<0.008	<0.008	0.053
10/23/2023						<0.004			
10/24/2023	<0.004								0.0506

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/25/2023		0.128							
10/26/2023			0.0709	0.139	<0.004				

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	<0.008	0.16		<0.004		
3/30/2016			<0.004			
5/18/2016				<0.004		
5/19/2016	<0.008	0.21	<0.004			
7/19/2016		0.11		<0.004		
7/20/2016	0.0046 (J)		<0.004			
9/20/2016	0.0055	0.22	<0.004	<0.004		
11/29/2016	0.011			<0.004		
11/30/2016		0.22	<0.004			
1/31/2017	<0.008			<0.004		
2/1/2017		0.13	<0.004			
5/22/2017				<0.004		
5/24/2017	<0.008	0.17	<0.004			
4/17/2018	0.0019 (J)			<0.004		
4/18/2018		0.14	<0.004			
8/14/2018				<0.004		
8/15/2018	0.0054	0.19	0.0011 (J)			
4/7/2019	0.002 (J)	0.15	<0.004			
4/10/2019				<0.004		
4/17/2019	0.002 (J)	0.15	<0.004			
4/18/2019				<0.004		
10/17/2019		0.117		<0.004		
10/23/2019	0.00832		<0.004			
4/3/2020	<0.008	0.0727	<0.004	<0.004		
4/17/2020	<0.008	0.0727				
4/20/2020			<0.004	<0.004		
10/15/2020	0.00614	0.0982	<0.004			
10/16/2020				<0.004		
5/11/2021		0.0681				
9/29/2021		0.0891				
9/30/2021	<0.008		<0.004	<0.004		
4/25/2022				<0.004		
4/27/2022	<0.008		<0.004			
5/3/2022		0.0752				
11/8/2022	0.00603	0.0863	<0.004	<0.004		
4/28/2023	<0.008	0.0784	<0.004	<0.004		
10/17/2023	0.00564					
10/18/2023		0.0873				
10/19/2023				<0.004		
10/23/2023			<0.004			
10/25/2023					<0.004	<0.004

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	<0.0002								
3/30/2016		<0.0002	<0.0002	<0.0002					
5/18/2016	<0.0002	<0.0002							
5/19/2016			<0.0002	<0.0002		<0.0002			
5/20/2016								<0.0002	
7/19/2016	8E-05 (J)								
7/20/2016		8.4E-05 (J)	8.6E-05 (J)			8.3E-05 (J)			
8/4/2016					<0.0002				<0.0002
9/19/2016	<0.0002								
9/20/2016		<0.0002			<0.0002				
9/21/2016			<0.0002			<0.0002			<0.0002
11/29/2016	<0.0002					<0.0002			
11/30/2016		<0.0002			<0.0002				
12/1/2016			<0.0002						<0.0002
1/30/2017						<0.0002			
1/31/2017	<0.0002							<0.0002	<0.0002
2/1/2017		<0.0002		<0.0002	<0.0002				
2/2/2017			<0.0002						
5/22/2017						<0.0002			
5/23/2017	<0.0002							<0.0002	<0.0002
5/24/2017		<0.0002	<0.0002						
5/25/2017				<0.0002	<0.0002				
4/17/2018	<0.0002							<0.0002	<0.0002
4/18/2018			<0.0002			<0.0002			
4/19/2018		<0.0002		<0.0002	<0.0002				
8/13/2018						<0.0002			
8/14/2018	<0.0002	<0.0002			<0.0002				
8/15/2018			<0.0002						<0.0002
4/9/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
4/10/2019	<0.0002							<0.0002	<0.0002
8/1/2019							<0.0002		
9/23/2019						<0.0002	<0.0002		
9/24/2019	<0.0002								
9/26/2019		<0.0002	<0.0002		<0.0002				<0.0002
11/18/2019							<0.0002		
1/30/2020							<0.0002		
3/23/2020									<0.0002
3/24/2020				<0.0002	<0.0002			<0.0002	
3/25/2020		<0.0002	<0.0002			<0.0002	<0.0002		
3/26/2020	<0.0002								
6/23/2020							<0.0002		
9/21/2020							<0.0002		
9/23/2020	<0.0002	<0.0002							
9/24/2020			<0.0002		<0.0002				<0.0002
4/19/2021						<0.0002	<0.0002		
4/20/2021		<0.0002	<0.0002						
4/21/2021				<0.0002	<0.0002				
4/22/2021	<0.0002							<0.0002	<0.0002
9/28/2021						<0.0002	<0.0002		
9/29/2021								<0.0002	<0.0002
9/30/2021	<0.0002	<0.0002							
10/1/2021			<0.0002	<0.0002	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
4/25/2022				<0.0002	<0.0002				
4/26/2022								<0.0002	
4/27/2022		<0.0002	<0.0002				<0.0002		
5/2/2022	<0.0002					<0.0002			
5/4/2022									<0.0002
10/11/2022	<0.0002								
10/12/2022									<0.0002
10/13/2022		<0.0002			<0.0002				
10/17/2022			<0.0002				<0.0002		
10/18/2022						<0.0002			
4/10/2023						<0.0002			
4/11/2023	<0.0002						<0.0002		
4/12/2023		<0.0002	<0.0002						
4/13/2023								<0.0002	<0.0002
4/18/2023				<0.0002	<0.0002				
10/17/2023					<0.0002		<0.0002		
10/18/2023		<0.0002	<0.0002						
10/23/2023	<0.0002								
10/24/2023									<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							<0.0002		
5/18/2016							<0.0002		
7/19/2016							8.3E-05 (J)		
9/19/2016							<0.0002		
11/29/2016							<0.0002		
1/31/2017							<0.0002		
5/23/2017							<0.0002		
4/17/2018							<0.0002		
8/14/2018							<0.0002		
4/6/2019								<0.0002	<0.0002
4/7/2019		<0.0002			<0.0002	<0.0002			
4/8/2019			<0.0002	<0.0002					
4/10/2019							<0.0002		
7/31/2019		<0.0002	<0.0002	<0.0002					
8/1/2019					<0.0002	<0.0002		<0.0002	<0.0002
9/24/2019		<0.0002			<0.0002		<0.0002		
9/25/2019			<0.0002			<0.0002		<0.0002	<0.0002
9/26/2019				<0.0002					
11/19/2019			<0.0002	<0.0002	<0.0002				<0.0002
11/20/2019		<0.0002				<0.0002		<0.0002	
1/29/2020						<0.0002		<0.0002	<0.0002
1/30/2020		<0.0002	<0.0002	<0.0002	<0.0002				
3/23/2020		<0.0002	<0.0002						
3/25/2020				<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
3/26/2020							<0.0002		
6/22/2020		<0.0002	<0.0002						
6/23/2020				<0.0002	<0.0002	<0.0002		<0.0002	
6/24/2020									<0.0002
9/21/2020		<0.0002						<0.0002	
9/22/2020			<0.0002	<0.0002	<0.0002	<0.0002			<0.0002
9/23/2020							<0.0002		
4/19/2021				<0.0002	<0.0002				
4/20/2021		<0.0002	<0.0002			<0.0002		<0.0002	
4/21/2021									<0.0002
4/22/2021							<0.0002		
9/28/2021				<0.0002		<0.0002			
9/29/2021	<0.0002				<0.0002				
9/30/2021							<0.0002		
10/4/2021		<0.0002	<0.0002					<0.0002	<0.0002
4/26/2022	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002			
5/2/2022							<0.0002		
5/3/2022				<0.0002					<0.0002
5/4/2022								<0.0002	
10/11/2022							<0.0002	<0.0002	
10/12/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				
10/13/2022									<0.0002
10/18/2022						<0.0002			
4/11/2023							<0.0002	<0.0002	<0.0002
4/12/2023		<0.0002	<0.0002	<0.0002	<0.0002				
4/13/2023	<0.0002					<0.0002			
10/17/2023		<0.0002	<0.0002			<0.0002			
10/18/2023	<0.0002								

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/19/2023					<0.0002				
10/24/2023								<0.0002	<0.0002
10/26/2023				<0.0002					

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							<0.0002	<0.0002	
5/19/2016							<0.0002	<0.0002	
7/19/2016							8.3E-05 (J)		
8/4/2016									<0.0002
9/20/2016							<0.0002		<0.0002
11/29/2016							<0.0002		
11/30/2016									<0.0002
1/31/2017							<0.0002		
2/1/2017								<0.0002	<0.0002
5/23/2017							<0.0002		
5/24/2017								<0.0002	<0.0002
4/18/2018							<0.0002	<0.0002	<0.0002
8/14/2018							<0.0002		
8/15/2018									<0.0002
4/6/2019						<0.0002			
4/7/2019	<0.0002								
4/8/2019		<0.0002							
4/9/2019								<0.0002	<0.0002
4/10/2019							<0.0002		
7/31/2019	<0.0002								
8/1/2019		<0.0002				<0.0002			
9/24/2019						<0.0002	<0.0002		
9/26/2019	<0.0002								<0.0002
9/27/2019		<0.0002							
11/18/2019						<0.0002			
11/19/2019	<0.0002	<0.0002							
1/29/2020	<0.0002					<0.0002			
1/30/2020		<0.0002							
3/23/2020	<0.0002	<0.0002						<0.0002	<0.0002
3/26/2020						<0.0002	<0.0002		
6/23/2020	<0.0002					<0.0002			
6/24/2020		<0.0002	<0.0002	<0.0002	<0.0002				
9/21/2020	<0.0002								
9/22/2020			<0.0002			<0.0002			<0.0002
9/23/2020				<0.0002			<0.0002		
9/24/2020		<0.0002			<0.0002				
4/19/2021								<0.0002	<0.0002
4/20/2021	<0.0002								
4/21/2021			<0.0002				<0.0002		
4/22/2021		<0.0002		<0.0002	<0.0002	<0.0002			
9/28/2021			<0.0002				<0.0002	<0.0002	<0.0002
9/29/2021						<0.0002			
9/30/2021	<0.0002								
10/1/2021		<0.0002							
10/5/2021				<0.0002	<0.0002				
4/26/2022								<0.0002	<0.0002
5/2/2022	<0.0002								
5/3/2022			<0.0002			<0.0002	<0.0002		
5/4/2022		<0.0002		<0.0002	<0.0002				
10/11/2022						<0.0002	<0.0002		
10/12/2022									<0.0002
10/13/2022	<0.0002			<0.0002					

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/18/2022		<0.0002	<0.0002		<0.0002				
4/10/2023						<0.0002	<0.0002		
4/12/2023	<0.0002								
4/13/2023			<0.0002	<0.0002					
4/18/2023		<0.0002			<0.0002			<0.0002	<0.0002
10/23/2023						<0.0002			
10/24/2023	<0.0002								<0.0002
10/25/2023		<0.0002							
10/26/2023			<0.0002	<0.0002	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	<0.0002	<0.0002		<0.0002		
3/30/2016			<0.0002			
5/18/2016				<0.0002		
5/19/2016	<0.0002	<0.0002	<0.0002			
7/19/2016		8.6E-05 (J)		8.3E-05 (J)		
7/20/2016	8.4E-05 (J)		8.1E-05 (J)			
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002		
11/29/2016	<0.0002			<0.0002		
11/30/2016		<0.0002	<0.0002			
1/31/2017	<0.0002			<0.0002		
2/1/2017		<0.0002	<0.0002			
5/22/2017				<0.0002		
5/24/2017	<0.0002	<0.0002	<0.0002			
4/17/2018	<0.0002			<0.0002		
4/18/2018		<0.0002	<0.0002			
8/14/2018				<0.0002		
8/15/2018	<0.0002	<0.0002	<0.0002			
4/7/2019	<0.0002	<0.0002	<0.0002			
4/10/2019				<0.0002		
9/24/2019				<0.0002		
9/25/2019	<0.0002	<0.0002				
9/26/2019			<0.0002			
3/26/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/23/2020	<0.0002	<0.0002	<0.0002	<0.0002		
4/20/2021		<0.0002				
4/21/2021	<0.0002		<0.0002	<0.0002		
9/29/2021		<0.0002				
9/30/2021	<0.0002		<0.0002	<0.0002		
4/25/2022				<0.0002		
4/27/2022	<0.0002		<0.0002			
5/3/2022		<0.0002				
10/11/2022				<0.0002		
10/17/2022	<0.0002	<0.0002	<0.0002			
4/11/2023				<0.0002		
4/12/2023	<0.0002	<0.0002	<0.0002			
10/17/2023	<0.0002					
10/18/2023		<0.0002				
10/19/2023				<0.0002		
10/23/2023			<0.0002			
10/25/2023					<0.0002	<0.0002

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	<0.001								
3/30/2016		<0.001	0.0013 (J)	0.18					
5/18/2016	<0.001	<0.001							
5/19/2016			0.19	0.0011 (J)		<0.001			
5/20/2016								<0.001	
7/19/2016	<0.001								
7/20/2016		<0.001	0.21			<0.001			
8/4/2016					<0.001				<0.001
9/19/2016	<0.001								
9/20/2016		<0.001			<0.001				
9/21/2016			0.22			<0.001			<0.001
11/29/2016	<0.001					<0.001			
11/30/2016		<0.001			<0.001				
12/1/2016			0.22						<0.001
1/30/2017						<0.001			
1/31/2017	0.00088 (J)							<0.001	<0.001
2/1/2017		<0.001		<0.001	<0.001				
2/2/2017			0.26						
5/22/2017						<0.001			
5/23/2017	<0.001							<0.001	<0.001
5/24/2017		<0.001	0.23						
5/25/2017				<0.001	0.00088 (J)				
4/17/2018	<0.001							<0.001	<0.001
4/18/2018			0.18			<0.001			
4/19/2018		<0.001		0.0016 (J)	<0.001				
8/13/2018						<0.001			
8/14/2018	<0.001	<0.001			0.0019 (J)				
8/15/2018			0.18						<0.001
4/9/2019		<0.001	0.14	<0.001	<0.001	<0.001	<0.001		
4/10/2019	<0.001							<0.001	<0.001
8/1/2019							<0.001		
9/23/2019						<0.001	<0.001		
9/24/2019	<0.001								
9/26/2019		<0.001	0.139		<0.001				<0.001
11/18/2019							<0.001		
1/30/2020							<0.001		
3/23/2020									<0.001
3/24/2020				<0.001	<0.001			<0.001	
3/25/2020		<0.001	0.141			<0.001	<0.001		
3/26/2020	<0.001								
6/23/2020							<0.001		
9/21/2020							<0.001		
9/23/2020	<0.001	<0.001							
9/24/2020			0.143		<0.001				<0.001
4/19/2021						<0.001	<0.001		
4/20/2021		<0.001	0.109						
4/21/2021				<0.001	<0.001				
4/22/2021	<0.001							<0.001	<0.001
9/28/2021						<0.001	<0.001		
9/29/2021								0.001	<0.001
9/30/2021	<0.001	<0.001							
10/1/2021			0.115	<0.001	<0.001				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
4/25/2022				<0.001	0.001				
4/26/2022								0.001	
4/27/2022		<0.001	0.098				<0.001		
5/2/2022	<0.001					<0.001			
5/4/2022									<0.001
10/11/2022	<0.001								
10/12/2022									<0.001
10/13/2022		<0.001			<0.001				
10/17/2022			0.097				<0.001		
10/18/2022						<0.001			
4/10/2023						<0.001			
4/11/2023	<0.001						<0.001		
4/12/2023		<0.001	0.092						
4/13/2023								<0.001	<0.001
4/18/2023				<0.001	<0.001				
10/17/2023					<0.001		<0.001		
10/18/2023		<0.001	0.092						
10/23/2023	<0.001								
10/24/2023									<0.001

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							<0.001		
5/18/2016							<0.001		
7/19/2016							<0.001		
9/19/2016							<0.001		
11/29/2016							<0.001		
1/31/2017							<0.001		
5/23/2017							<0.001		
4/17/2018							<0.001		
8/14/2018							<0.001		
4/6/2019								<0.001	<0.001
4/7/2019		<0.001			<0.001	<0.001			
4/8/2019			<0.001	0.22					
4/10/2019							<0.001		
7/31/2019		<0.001	0.00128	0.11					
8/1/2019					<0.001	<0.001		<0.001	<0.001
9/24/2019		<0.001			<0.001		<0.001		
9/25/2019			<0.001			<0.001		<0.001	<0.001
9/26/2019				0.103					
11/19/2019			<0.001	0.224	<0.001				<0.001
11/20/2019		<0.001				<0.001		<0.001	
1/29/2020						<0.001		<0.001	<0.001
1/30/2020		<0.001	0.00118	0.128	<0.001				
3/23/2020		<0.001	0.00113						
3/25/2020				0.0871	<0.001	<0.001		<0.001	<0.001
3/26/2020							<0.001		
6/22/2020		<0.001	0.001						
6/23/2020				0.124	<0.001	<0.001		<0.001	
6/24/2020									<0.001
9/21/2020		<0.001						<0.001	
9/22/2020			<0.001	0.012	<0.001	<0.001			<0.001
9/23/2020							<0.001		
4/19/2021				0.109	<0.001				
4/20/2021		<0.001	0.001			<0.001		<0.001	
4/21/2021									<0.001
4/22/2021							<0.001		
9/28/2021				0.145		<0.001			
9/29/2021	0.042				<0.001				
9/30/2021							<0.001		
10/4/2021		<0.001	0.001					<0.001	<0.001
4/26/2022	0.023	<0.001	0.001		<0.001	<0.001			
5/2/2022							<0.001		
5/3/2022				0.112					<0.001
5/4/2022								<0.001	
10/11/2022							<0.001	<0.001	
10/12/2022	0.047	<0.001	<0.001	0.015	<0.001				
10/13/2022									<0.001
10/18/2022						<0.001			
4/11/2023							<0.001	<0.001	<0.001
4/12/2023		<0.001	<0.001	0.089	<0.001				
4/13/2023	0.023					<0.001			
10/17/2023		<0.001	<0.001			<0.001			
10/18/2023	0.045								

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/19/2023					<0.001				
10/24/2023								<0.001	0.001
10/26/2023				0.044					

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							<0.001	<0.005	
5/19/2016							<0.001	<0.005	
7/19/2016							<0.001		
8/4/2016									0.17
9/20/2016							<0.001		0.32
11/29/2016							<0.001		
11/30/2016									0.19
1/31/2017							<0.001		
2/1/2017								<0.005	0.28
5/23/2017							<0.001		
5/24/2017								<0.005	0.11
4/18/2018							<0.001	<0.005	0.44
8/14/2018							<0.001		
8/15/2018									0.29
4/6/2019						<0.001			
4/7/2019	<0.001								
4/8/2019		0.21							
4/9/2019								<0.005	0.2
4/10/2019							<0.001		
7/31/2019	<0.001								
8/1/2019		0.138				<0.001			
9/24/2019						<0.001	<0.001		
9/26/2019	<0.001								0.141
9/27/2019		0.222							
11/18/2019						<0.001			
11/19/2019	<0.001	0.215							
1/29/2020	<0.001					0.00125			
1/30/2020		0.0701							
3/23/2020	<0.001	0.0845						<0.005	0.109
3/26/2020						0.00139	<0.001		
6/23/2020	<0.001					<0.001			
6/24/2020		0.077	0.009	0.051	0.006				
9/21/2020	<0.001								
9/22/2020			0.02			<0.001			0.096
9/23/2020				0.182			<0.001		
9/24/2020		0.093			0.007				
4/19/2021								<0.005	0.09
4/20/2021	<0.001								
4/21/2021			0.007				<0.001		
4/22/2021		0.076		0.078	0.005	0.002			
9/28/2021			0.004				<0.001	<0.005	0.149
9/29/2021						<0.001			
9/30/2021	<0.001								
10/1/2021		0.102							
10/5/2021				0.047	0.006				
4/26/2022								0.001	0.09
5/2/2022	<0.001								
5/3/2022			0.011			<0.001	<0.001		
5/4/2022		0.084		0.074	0.006				
10/11/2022						<0.001	<0.001		
10/12/2022									0.136
10/13/2022	<0.001			0.076					

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/18/2022		0.132	<0.05		0.005				
4/10/2023						<0.001	<0.001		
4/12/2023	<0.001								
4/13/2023			0.008	0.093					
4/18/2023		0.123			0.006			0.001	0.085
10/23/2023						<0.001			
10/24/2023	<0.001								0.064
10/25/2023		0.147							
10/26/2023			0.014	0.081	0.004				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	0.0012 (J)	0.01 (J)		<0.001		
3/30/2016			<0.001			
5/18/2016				<0.001		
5/19/2016	0.0016 (J)	0.017	<0.001			
7/19/2016		0.028		<0.001		
7/20/2016	0.003 (J)		<0.001			
9/20/2016	0.0026 (J)	0.035	<0.001	<0.001		
11/29/2016	0.0019 (J)			<0.001		
11/30/2016		0.024	<0.001			
1/31/2017	<0.001			<0.001		
2/1/2017		0.0095 (J)	<0.001			
5/22/2017				<0.001		
5/24/2017	0.0027 (J)	0.025	0.0011 (J)			
4/17/2018	<0.001			<0.001		
4/18/2018		0.015	<0.001			
8/14/2018				<0.001		
8/15/2018	<0.001	0.03	<0.001			
4/7/2019	<0.001	0.016	<0.001			
4/10/2019				<0.001		
9/24/2019				<0.001		
9/25/2019	0.00252	0.0199				
9/26/2019			<0.001			
3/26/2020	<0.001	0.0108	<0.001	<0.001		
9/23/2020	0.002	0.016	<0.001	<0.001		
4/20/2021		0.007				
4/21/2021	<0.001		<0.001	<0.001		
9/29/2021		0.021				
9/30/2021	<0.001		0.001	<0.001		
4/25/2022				<0.001		
4/27/2022	<0.001		0.001			
5/3/2022		0.018				
10/11/2022				<0.001		
10/17/2022	0.002	0.022	<0.001			
4/11/2023				<0.001		
4/12/2023	<0.001	0.012	<0.001			
10/17/2023	0.002					
10/18/2023		0.019				
10/19/2023				<0.001		
10/23/2023			<0.001			
10/25/2023					<0.001	0.002

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	5.46	3.78	6.76	6.13					
3/30/2016		3.94	6.43	6.87					
5/18/2016	5.52	3.95	6.76	5.67		6.05		6.09	
5/19/2016			3.99	6.41		6.02			
5/20/2016								5.63	
7/19/2016	5.31	3.81	6.75		5.67	5.97			
7/20/2016		3.96	6.79			6.42			
8/4/2016					6				5.63
9/19/2016	5.21	3.79	6.93			6.18			5.75
9/20/2016		3.9			5.59				
9/21/2016			6.9			6.5			6
11/29/2016	5.3	3.83	6.65		5.39	6.19			5.48
11/30/2016		3.8			6.2				
12/1/2016			7.1						6.2
1/30/2017						6.4			
1/31/2017	5.34	4.06	6.8	5.71	5.69	6.01		4.62	5.11
2/1/2017		4.1		6.2	6.3				
2/2/2017			7						
3/27/2017						6.23			
3/28/2017	5.35								
3/29/2017		3.9	6.88					4.99	5.38
3/30/2017				5.59	5.57				
5/23/2017	5.28							5.46	5.16
5/24/2017		3.84	6.73						
5/25/2017				5.58	5.44	6.18			
10/9/2017	4.7								
10/10/2017			6.58		5.38	5.92			5.09
10/11/2017		4.05							
4/17/2018	6.2 (HF)							6.3 (HF)	5.7 (HF)
4/18/2018			7.1 (HF)			6.8 (HF)			
4/19/2018		3.9 (HF)		5.9 (HF)	5.8 (HF)				
8/13/2018						7 (HF)			
8/14/2018	6 (HF)	4.4 (HF)			6.1 (HF)				
8/15/2018			7.3 (HF)						6 (HF)
4/9/2019		3.87	6.9	5.65	5.5	6.25	5.78		
4/10/2019	5.46							6.05	5.41
5/21/2019	5.66								
5/22/2019							5.94		
5/23/2019			6.85						
9/26/2019		4.36	7.15		5.85				5.76
11/18/2019							5.56		
1/30/2020							5.5		
3/24/2020				5.82	5.84			6.11	5.8
3/25/2020		4.31	7.06			6.52	5.59		
3/26/2020	5.8								
6/23/2020							5.62		
9/21/2020							5.32		
9/23/2020	5.33	3.91							
9/24/2020			6.84		5.41				5.4
4/23/2021	4.48	5.24	7.51	6.81	6.78	6.2	5.28	4.83	4.45
9/28/2021						6.61	5.64		
9/29/2021								6.42	6.08

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							4.7		
5/18/2016							4.74		
7/19/2016							4.71		
9/19/2016							4.59		
11/29/2016							4.82		
1/31/2017							4.51		
3/28/2017							4.54		
5/23/2017							4.45		
10/10/2017							4.33		
4/17/2018							5.1 (HF)		
8/14/2018							5.2 (HF)		
4/6/2019								6.1	5.98
4/7/2019		5.49			6.24	4.95			
4/8/2019			5.9	6.12					
4/10/2019							4.54		
5/21/2019							4.71		
5/22/2019		5.55	5.86	6.09	6.15	5.01		6.16	6.07
9/24/2019		5.68			5.94				
9/25/2019			6.06			4.92		6.64	6.68
9/26/2019				6.24					
11/19/2019			5.99	6.27	6.08				6.4
11/20/2019		4.98				4.97		6.18	
1/30/2020		5.03	5.85	6.11	6.19	5.57		6.44	6.42
3/24/2020		5.44	5.97						
3/25/2020				6.22	6.27	5.44		6.39	6.34
3/26/2020							4.81		
6/22/2020		5.49	5.95						
6/23/2020				6.29	6.16	5.19		6.33	
6/24/2020									6.23
9/21/2020		5.04						6.26	
9/22/2020			5.78	6.01	5.87	4.8			6.42
9/23/2020							4.42		
4/23/2021		7.41	6.25	6.7	6.92	7.15	3.22	7.29	7.1
9/28/2021				6.45					
9/29/2021	6.56				6.37	5.84			
9/30/2021							4.82		
10/4/2021		6.11	6.17					6.53	6.53
4/26/2022	6.12	5.17	5.99		6.25	5.65			
5/2/2022							4.83		
5/3/2022				6.26					6.35
5/4/2022								6.29	
10/11/2022							4.91	6.66	
10/12/2022	5.9	5.15	5.68	5.81	5.81				
10/13/2022									6.65
10/18/2022						4.87			
4/10/2023		5.14							
4/11/2023							4.57	6.06	6.24
4/12/2023			5.7	6	6.04				
4/13/2023	5.82					5.33			
10/16/2023				6.23					
10/17/2023			5.76			4.99			
10/19/2023					5.9				

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							4.52	5.96	
5/18/2016							4.45	6.03	
5/19/2016							4.81	6.32	
7/19/2016							4.55		
8/4/2016									5.97
9/19/2016							4.57		
9/20/2016							5.2		6.01
11/29/2016							4.06		5.81
11/30/2016									6.5
1/31/2017							4.55	5.08	5.98
2/1/2017								5.6	6.5
3/28/2017							4.53	5.23	5.64
5/23/2017							4.4		
5/24/2017								5.5	5.63
10/10/2017							4.63		5.84
4/18/2018							5 (HF)	6.2 (HF)	6.7 (HF)
8/14/2018							5.3 (HF)		
8/15/2018									6.6 (HF)
4/6/2019						4.53			
4/7/2019	6.24								
4/8/2019		6.91							
4/9/2019								6.04	6.1
4/10/2019							4.87		
5/21/2019								6.34	
5/22/2019	6.23	6.72				4.65	5.17		
9/24/2019						4.75			
9/26/2019	6.39								6.1
9/27/2019		6.97							
11/18/2019						4.59			
11/19/2019	6.37	6.92							
1/29/2020						4.96			
1/30/2020	6.41	6.63							
3/23/2020	6.41	6.73							6.1
3/24/2020								6.08	
3/26/2020						5.14	5.12		
6/23/2020	6.44					4.73			
6/24/2020		6.51	6.74	5.82	6.64				
9/21/2020	6.23								
9/22/2020			6.43			4.37			5.94
9/23/2020				5.74			4.94		
9/24/2020		6.4			6.38				
4/23/2021	7.1	5.06	7.15	4.44	5.12	3.9	6.04	6.4	6.35
9/28/2021			7.02				5.03	5.66	6.34
9/29/2021						5.21			
9/30/2021	6.6								
10/1/2021		6.69							
10/5/2021				6.46	7.04				
4/26/2022								6.32	6.09
5/2/2022	6.46								
5/3/2022			6.75			5.08	4.86		
5/4/2022		6.62		6.16	6.62				
10/11/2022						4.87	5.11		

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/12/2022									5.83
10/13/2022	6.4			5.97					
10/18/2022		6.26	6.17		6.26				
4/10/2023						4.75	5.58		
4/12/2023	6.2								
4/13/2023			6.26	5.91					
4/18/2023		6.61			6.5			6.1	5.93
10/23/2023						4.94			6.36
10/24/2023	6.51								
10/25/2023		6.77							
10/26/2023			6.53	6.12	6.3				

Time Series

Constituent: pH, Field (SU) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	6.15	5.94	6.11	6.26		
3/30/2016			6.44			
5/18/2016	6.04	5.91	6.29	6.26		
5/19/2016	6.29	6.27	6.65			
7/19/2016	6.2	6.13	6.43	6.2		
7/20/2016	6.33		6.54			
9/19/2016	6.31	6.03	6.48	6.13		
9/20/2016	6.4	6.4	6.7	6.4		
11/29/2016	6.35	5.99	6.43	6.26		
11/30/2016		6.6	6.7			
1/31/2017	5.43	5.93	6.42	6		
2/1/2017		6.5	6.6			
3/28/2017				5.9		
3/29/2017	5.82	6.05	6.19			
5/22/2017				5.95		
5/24/2017	5.66	5.96	6.17			
10/9/2017				5.47		
10/11/2017	6.07	6.16	6.4			
4/17/2018	6.5 (HF)			6.5 (HF)		
4/18/2018		6.7 (HF)	6.8 (HF)			
8/14/2018				5.8 (HF)		
8/15/2018	6.4 (HF)	6.5 (HF)	6.8 (HF)			
4/7/2019	5.65	6.04	6.26			
4/10/2019				5.91		
5/21/2019	5.73		6.53			
9/25/2019	6.35	6.3				
9/26/2019			6.63			
3/26/2020	6.08	6.27	6.6	6.06		
9/23/2020	6.07	6.04	6.43	5.9		
4/23/2021	7.26	6.97	7.55	7.56		
9/29/2021		6.67				
9/30/2021	6.04		6.7	6.22		
4/25/2022				6.34		
4/27/2022	5.75		6.82			
5/3/2022		6.31				
10/11/2022				6.39		
10/17/2022	6.39	6.24	6.61			
4/11/2023				6.08		
4/12/2023	5.68	6.05	6.53			
10/17/2023	6.21					
10/18/2023		5.96				
10/19/2023				6.15		
10/23/2023			6.94			
10/25/2023					5.35	6.35

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	<0.001								
3/30/2016		0.0064	0.0014	0.00025 (J)					
5/18/2016	<0.001	0.0078							
5/19/2016			<0.001	0.0042		0.00074 (J)			
5/20/2016								0.0011 (J)	
7/19/2016	<0.001								
7/20/2016		0.0029	<0.001			0.00027 (J)			
8/4/2016					0.012				<0.001
9/19/2016	<0.001								
9/20/2016		0.0022			0.0077				
9/21/2016			0.00036 (J)			0.00086 (J)			<0.001
11/29/2016	<0.001					0.0016			
11/30/2016		0.0015			0.0083				
12/1/2016			<0.001						<0.001
1/30/2017						0.0009 (J)			
1/31/2017	<0.001							<0.001	<0.001
2/1/2017		0.0035		0.00046 (J)	0.00037 (J)				
2/2/2017			<0.001						
5/22/2017						0.0003 (J)			
5/23/2017	<0.001							<0.001	0.00034 (J)
5/24/2017		0.0023	<0.001						
5/25/2017				<0.001	0.002				
4/17/2018	0.00065 (J)							0.00085 (J)	<0.001
4/18/2018			<0.001			0.0014			
4/19/2018		0.0025		0.00027 (J)	0.00046 (J)				
8/13/2018						0.00088 (J)			
8/14/2018	<0.001	0.0019			0.00091 (J)				
8/15/2018			<0.001						<0.001
4/9/2019		0.003	<0.001	<0.001	<0.001	0.00076 (J)	<0.001		
4/10/2019	<0.001							<0.001	<0.001
8/1/2019							<0.001		
9/23/2019						<0.001	<0.001		
9/24/2019	<0.001								
9/26/2019		0.00206	<0.001		0.00206				<0.001
11/18/2019							<0.001		
1/30/2020							<0.001		
3/23/2020									<0.001
3/24/2020				<0.001	<0.001			<0.001	
3/25/2020		0.00186	<0.001			0.00145	<0.001		
3/26/2020	<0.001								
6/23/2020							<0.001		
9/21/2020							<0.001		
9/23/2020	<0.001	0.003							
9/24/2020			<0.001		0.002				<0.001
4/19/2021						0.003	<0.001		
4/20/2021		0.003	<0.001						
4/21/2021				<0.001	<0.001				
4/22/2021	<0.001							<0.001	<0.001
9/28/2021						0.002	<0.001		
9/29/2021								0.001	<0.001
9/30/2021	<0.001	0.003							
10/1/2021			<0.001	0.001	<0.001				

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
4/25/2022				0.002	0.001				
4/26/2022								0.001	
4/27/2022		0.003	<0.001				<0.001		
5/2/2022	<0.001					0.001			
5/4/2022									<0.001
10/11/2022	<0.001								
10/12/2022									<0.001
10/13/2022		0.001			0.002				
10/17/2022			<0.001				<0.001		
10/18/2022						<0.001			
4/10/2023						<0.001			
4/11/2023	<0.001						<0.001		
4/12/2023		0.001	<0.001						
4/13/2023								<0.001	<0.001
4/18/2023				0.008	0.001				
10/17/2023					0.005		<0.001		
10/18/2023		0.001	<0.001						
10/23/2023	<0.001								
10/24/2023									<0.001

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							0.0003 (J)		
5/18/2016							<0.001		
7/19/2016							<0.001		
9/19/2016							<0.001		
11/29/2016							<0.001		
1/31/2017							<0.001		
5/23/2017							<0.001		
4/17/2018							0.0003 (J)		
8/14/2018							<0.001		
4/6/2019								<0.001	<0.001
4/7/2019		<0.001			<0.001	<0.001			
4/8/2019			<0.001	<0.001					
4/10/2019							<0.001		
7/31/2019		<0.001	<0.001	<0.001					
8/1/2019					<0.001	<0.001		<0.001	<0.001
9/24/2019		<0.001			<0.001		<0.001		
9/25/2019			<0.001			<0.001		<0.001	<0.001
9/26/2019				<0.001					
11/19/2019			<0.001	<0.001	<0.001				0.00186
11/20/2019		<0.001				<0.001		<0.001	
1/29/2020						<0.001		<0.001	<0.001
1/30/2020		<0.001	<0.001	<0.001	<0.001				
3/23/2020		<0.001	<0.001						
3/25/2020				<0.001	<0.001	<0.001		<0.001	<0.001
3/26/2020							<0.001		
6/22/2020		<0.001	<0.001						
6/23/2020				<0.001	<0.001	<0.001		<0.001	
6/24/2020									<0.001
9/21/2020		<0.001						<0.001	
9/22/2020			<0.001	<0.001	<0.001	<0.001			<0.001
9/23/2020							<0.001		
4/19/2021				<0.001	<0.001				
4/20/2021		<0.001	<0.001			<0.001		<0.001	
4/21/2021									<0.001
4/22/2021							<0.001		
9/28/2021				<0.001		<0.001			
9/29/2021	<0.001				<0.001				
9/30/2021							<0.001		
10/4/2021		<0.001	<0.001					<0.001	<0.001
4/26/2022	<0.001	<0.001	<0.001		<0.001	<0.001			
5/2/2022							<0.001		
5/3/2022				<0.001					<0.001
5/4/2022								<0.001	
10/11/2022							<0.001	<0.001	
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
10/13/2022									<0.001
10/18/2022						<0.001			
4/11/2023							<0.001	<0.001	<0.001
4/12/2023		<0.001	<0.001	<0.001	<0.001				
4/13/2023	<0.001					<0.001			
10/17/2023		<0.001	<0.001			<0.001			
10/18/2023	<0.001								

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/19/2023					<0.001				
10/24/2023								<0.001	<0.001
10/26/2023				<0.001					

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							0.0028	0.0033	
5/19/2016							0.0028	0.0047	
7/19/2016							0.0036		
8/4/2016									0.00033 (J)
9/20/2016							0.0067		<0.001
11/29/2016							0.003		
11/30/2016									<0.001
1/31/2017							0.0027		
2/1/2017								<0.001	<0.001
5/23/2017							0.0037		
5/24/2017								0.0021	<0.001
4/18/2018							0.0022	0.0027	<0.001
8/14/2018							0.0015		
8/15/2018									<0.001
4/6/2019						<0.001			
4/7/2019	<0.001								
4/8/2019		<0.001							
4/9/2019								0.0033	<0.001
4/10/2019							0.0013		
7/31/2019	<0.001								
8/1/2019		<0.001				<0.001			
9/24/2019						<0.001	<0.001		
9/26/2019	<0.001								<0.001
9/27/2019		<0.001							
11/18/2019						<0.001			
11/19/2019	<0.001	<0.001							
1/29/2020	<0.001					<0.001			
1/30/2020		<0.001							
3/23/2020	<0.001	<0.001						0.00188	<0.001
3/26/2020						<0.001	<0.001		
6/23/2020	<0.001					<0.001			
6/24/2020		<0.001	<0.001	<0.001	0.008				
9/21/2020	<0.001								
9/22/2020			<0.001			<0.001			<0.001
9/23/2020				<0.001			0.003		
9/24/2020		<0.001			0.007				
4/19/2021								0.002	<0.001
4/20/2021	<0.001								
4/21/2021			<0.001				<0.001		
4/22/2021		<0.001		<0.001	0.03	<0.001			
9/28/2021			<0.001				<0.001	0.003	<0.001
9/29/2021						<0.001			
9/30/2021	<0.001								
10/1/2021		<0.001							
10/5/2021				<0.001	0.017				
4/26/2022								0.003	<0.001
5/2/2022	<0.001								
5/3/2022			<0.001			<0.001	<0.001		
5/4/2022		<0.001		<0.001	0.02				
10/11/2022						<0.001	0.001		
10/12/2022									<0.001
10/13/2022	<0.001			<0.001					

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/18/2022		<0.001	<0.001		0.004				
4/10/2023						<0.001	0.005		
4/12/2023	<0.001								
4/13/2023			<0.001	<0.001					
4/18/2023		<0.001			0.014			0.003	<0.001
10/23/2023						<0.001			
10/24/2023	<0.001								<0.001
10/25/2023		<0.001							
10/26/2023			<0.001	<0.001	0.004				

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	0.00032 (J)	0.00026 (J)		<0.001		
3/30/2016			0.0014			
5/18/2016				<0.001		
5/19/2016	<0.001	0.00045 (J)	0.00046 (J)			
7/19/2016		0.00025 (J)		<0.001		
7/20/2016	<0.001		0.00024 (J)			
9/20/2016	<0.001	<0.001	<0.001	<0.001		
11/29/2016	<0.001			<0.001		
11/30/2016		<0.001	<0.001			
1/31/2017	0.0022			<0.001		
2/1/2017		<0.001	<0.001			
5/22/2017				<0.001		
5/24/2017	0.00097 (J)	<0.001	0.00056 (J)			
4/17/2018	0.00036 (J)			0.00025 (J)		
4/18/2018		0.0017	<0.001			
8/14/2018				<0.001		
8/15/2018	<0.001	<0.001	<0.001			
4/7/2019	<0.001	<0.001	<0.001			
4/10/2019				<0.001		
9/24/2019				<0.001		
9/25/2019	<0.001	<0.001				
9/26/2019			<0.001			
3/26/2020	<0.001	<0.001	<0.001	<0.001		
9/23/2020	<0.001	<0.001	<0.001	<0.001		
4/20/2021		0.002				
4/21/2021	<0.001		<0.001	<0.001		
9/29/2021		<0.001				
9/30/2021	<0.001		<0.001	<0.001		
4/25/2022				<0.001		
4/27/2022	<0.001		<0.001			
5/3/2022		<0.001				
10/11/2022				<0.001		
10/17/2022	<0.001	<0.001	<0.001			
4/11/2023				<0.001		
4/12/2023	<0.001	<0.001	<0.001			
10/17/2023	<0.001					
10/18/2023		<0.001				
10/19/2023				<0.001		
10/23/2023			<0.001			
10/25/2023					<0.001	<0.001

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	15								
3/30/2016		250	230	870					
5/18/2016	14	250							
5/19/2016			990	250		230			
5/20/2016								<5	
7/19/2016	12								
7/20/2016		190 (J)	770			130			
8/4/2016					310				340
9/19/2016	14								
9/20/2016		260			330				
9/21/2016			1200			90			390
11/29/2016	18					120			
11/30/2016		260			350				
12/1/2016			830						360
1/30/2017						170			
1/31/2017	20							260	300
2/1/2017		270		180	200				
2/2/2017			550						
5/22/2017						120			
5/23/2017	16							170	480
5/24/2017		250	680						
5/25/2017				210	210				
10/9/2017	12								
10/10/2017			920		230	63			390
10/11/2017		230							
4/17/2018	12							260	460
4/18/2018			780			41 (F1)			
4/19/2018		290		250	320				
8/13/2018						49			
8/14/2018	11	200			210				
8/15/2018			470						360
4/9/2019		210	690	250	240	32	54		
4/10/2019	10							160	390
8/1/2019							83.3		
9/23/2019						42.3	76		
9/24/2019	14.3								
9/26/2019		386	1330		261				442
11/18/2019							81.2		
1/30/2020							85.7		
3/23/2020									217
3/24/2020				385	395			281	
3/25/2020		397	1000			42.1	89.6		
3/26/2020	30								
6/23/2020							72.6		
9/21/2020							72.8		
9/23/2020	13	234							
9/24/2020			590		232				249
4/19/2021						48.1	75		
4/20/2021		389	460						
4/21/2021				225	211				
4/22/2021	31.8							123	113
9/28/2021						47	86.5		

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							14		
5/18/2016							14		
7/19/2016							14		
9/19/2016							16		
11/29/2016							17		
1/31/2017							15		
5/23/2017							16		
10/10/2017							15		
4/17/2018							15		
8/14/2018							15		
4/6/2019								26	25
4/7/2019		34			17	90			
4/8/2019			210	220					
4/10/2019							14		
7/31/2019		32.8	198	223					
8/1/2019					34.8	107		22.8	27.3
9/24/2019		29.6			27.8		20.4		
9/25/2019			190			94.1		<1	18.4
9/26/2019				232					
11/19/2019			193	207	26.6				46
11/20/2019		32.1				90.7		13.4	
1/29/2020						73.7		11.1	18.4
1/30/2020		36.3	129	192	<1				
3/23/2020		27.3	119						
3/25/2020				278	3.65	84.7		28.4	49.3
3/26/2020							17.9		
6/22/2020		26.8	106						
6/23/2020				168	12.8	72.5		41.9	
6/24/2020									67.6
9/21/2020		28.4						11.1	
9/22/2020			129	88.7	25.2	84.3			9.34
9/23/2020							15.4		
4/19/2021				149	<1				
4/20/2021		27	95.8			49.1		11.5	
4/21/2021									51.8
4/22/2021							15.4		
9/28/2021				164		61.9			
9/29/2021	358				30.6				
9/30/2021							16.2		
10/4/2021		27.6	123					32.5	89.5
4/26/2022	88.9	20.3	79.2		1.15	57.3			
5/2/2022							21.9		
5/3/2022				141					81.7
5/4/2022								28.7	
10/11/2022							20.7	<1	
10/12/2022	387	20.2	72.5	174	28.4				
10/13/2022									21.2
10/18/2022						79.8			
4/11/2023							20.9	14.5	38.9
4/12/2023		23.1	52.1	157	2.04				
4/13/2023	73.6					63.4			
10/17/2023		18.5	77			66.9			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/18/2023	196								
10/19/2023					18.2				
10/24/2023								<1	19.4
10/26/2023				123					

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							610	150	
5/19/2016							550	20	
7/19/2016							490		
8/4/2016									790
9/20/2016							610		890
11/29/2016							710		
11/30/2016									660
1/31/2017							470		
2/1/2017								140	590
5/23/2017							640		
5/24/2017								230	430
10/10/2017							520		140
4/18/2018							580	130	170
8/14/2018							560		
8/15/2018									130
4/6/2019						21			
4/7/2019	12								
4/8/2019		620							
4/9/2019								<5	130
4/10/2019							510		
7/31/2019	21.4								
8/1/2019		868				23.1			
9/24/2019						26	656		
9/26/2019	8.64								204
9/27/2019		981							
11/18/2019						21.1			
11/19/2019	13.2	1010							
1/29/2020	5.75					20.6			
1/30/2020		1240							
3/23/2020	16.2	1020						81.3	126
3/26/2020						27.8	637		
6/23/2020	36.3					20.6			
6/24/2020		1040	1110	1220	29				
9/21/2020	15.5								
9/22/2020			851			19.7			178
9/23/2020				1330			602		
9/24/2020		1090			38.3				
4/19/2021								121	116
4/20/2021	11.7								
4/21/2021			717				725		
4/22/2021		1110		716	40.4	22.5			
9/28/2021			204				751	20.8	101
9/29/2021						20.8			
9/30/2021	20.6								
10/1/2021		1110							
10/5/2021				919	89.2				
4/26/2022								86.5	122
5/2/2022	20.8								
5/3/2022			375			23.7	867		
5/4/2022		1140		693	101				
10/11/2022						19.9	732		
10/12/2022									177

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/13/2022	2.89			1360					
10/18/2022		169	106		109				
4/10/2023						26.4	678		
4/12/2023	1.42								
4/13/2023			214	708					
4/18/2023		983			44			38.4	114
10/23/2023						19.4			
10/24/2023	<1								206
10/25/2023		768							
10/26/2023			372	1220	92.8				

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	140	390		77		
3/30/2016			12			
5/18/2016				180		
5/19/2016	130	480	12			
7/19/2016		170 (J)		200		
7/20/2016	64		<1			
9/20/2016	94	650	<1	310		
11/29/2016	100			570		
11/30/2016		870	<1			
1/31/2017	140			280		
2/1/2017		230	21			
5/22/2017				460		
5/24/2017	130	370	9.6			
10/9/2017				420		
10/11/2017	120	230	2.9 (J)			
4/17/2018	170			230		
4/18/2018		96	<1			
8/14/2018				720		
8/15/2018	89	400	<1			
4/7/2019	170	280	3.4 (J)			
4/10/2019				790		
9/24/2019				1070		
9/25/2019	62.8	158				
9/26/2019			<1			
3/26/2020	173	72.1	6.32	1100		
9/23/2020	69.1	84.7	<1	975		
4/20/2021		48.7				
4/21/2021	137		3.25	865		
9/29/2021		80.1				
9/30/2021	135		11	881		
4/25/2022				726		
4/27/2022	129		10.2			
5/3/2022		64.3				
10/11/2022				767		
10/17/2022	69.9	55.4	<1			
4/11/2023				602		
4/12/2023	123	50	<1			
10/17/2023	54.1					
10/18/2023		37.7				
10/19/2023				411		
10/23/2023			<1			
10/25/2023					46.2	250

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	<0.001								
3/30/2016		<0.001	<0.001	<0.001					
5/18/2016	<0.001	<0.001							
5/19/2016			<0.001	<0.001		<0.001			
5/20/2016								<0.001	
7/19/2016	<0.001								
7/20/2016		<0.001	<0.001			<0.001			
8/4/2016					<0.001				<0.001
9/19/2016	<0.001								
9/20/2016		<0.001			<0.001				
9/21/2016			<0.001			<0.001			<0.001
11/29/2016	<0.001					<0.001			
11/30/2016		<0.001			<0.001				
12/1/2016			<0.001						<0.001
1/30/2017						<0.001			
1/31/2017	<0.001							0.00015 (J)	<0.001
2/1/2017		<0.001		<0.001	<0.001				
2/2/2017			<0.001						
5/22/2017						<0.001			
5/23/2017	<0.001							0.00013 (J)	9.5E-05 (J)
5/24/2017		<0.001	<0.001						
5/25/2017				<0.001	<0.001				
4/17/2018	<0.001							<0.001	<0.001
4/18/2018			<0.001			<0.001			
4/19/2018		<0.001		<0.001	0.0001 (J)				
8/13/2018						<0.001			
8/14/2018	<0.001	<0.001			<0.001				
8/15/2018			<0.001						<0.001
4/9/2019		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
4/10/2019	<0.001							<0.001	<0.001
8/1/2019							<0.001		
9/23/2019						<0.001	<0.001		
9/24/2019	<0.001								
9/26/2019		<0.001	<0.001		<0.001				<0.001
11/18/2019							<0.001		
1/30/2020							<0.001		
3/23/2020									<0.001
3/24/2020				<0.001	<0.001			<0.001	
3/25/2020		<0.001	<0.001			<0.001	<0.001		
3/26/2020	<0.001								
6/23/2020							<0.001		
9/21/2020							<0.001		
9/23/2020	<0.001	<0.001							
9/24/2020			<0.001		<0.001				<0.001
4/19/2021						<0.001	<0.001		
4/20/2021		<0.001	<0.001						
4/21/2021				<0.001	<0.001				
4/22/2021	<0.001							<0.001	<0.001
9/28/2021						<0.001	<0.001		
9/29/2021								<0.001	<0.001
9/30/2021	<0.001	<0.001							
10/1/2021			<0.001	<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
4/25/2022				<0.001	<0.001				
4/26/2022								<0.001	
4/27/2022		<0.001	<0.001				<0.001		
5/2/2022	<0.001					<0.001			
5/4/2022									<0.001
10/11/2022	<0.001								
10/12/2022									<0.001
10/13/2022		<0.001			<0.001				
10/17/2022			<0.001				<0.001		
10/18/2022						<0.001			
4/10/2023						<0.001			
4/11/2023	<0.001						<0.001		
4/12/2023		<0.001	<0.001						
4/13/2023								<0.001	<0.001
4/18/2023				<0.001	<0.001				
10/17/2023					<0.001		<0.001		
10/18/2023		<0.001	<0.001						
10/23/2023	<0.001								
10/24/2023									<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							<0.001		
5/18/2016							<0.001		
7/19/2016							<0.001		
9/19/2016							<0.001		
11/29/2016							<0.001		
1/31/2017							<0.001		
5/23/2017							<0.001		
4/17/2018							<0.001		
8/14/2018							<0.001		
4/6/2019								<0.001	<0.001
4/7/2019		<0.001			<0.001	<0.001			
4/8/2019			<0.001	<0.001					
4/10/2019							<0.001		
7/31/2019		<0.001	<0.001	<0.001					
8/1/2019					<0.001	<0.001		<0.001	<0.001
9/24/2019		<0.001			<0.001		<0.001		
9/25/2019			<0.001			<0.001		<0.001	<0.001
9/26/2019				<0.001					
11/19/2019			<0.001	<0.001	<0.001				<0.001
11/20/2019		<0.001				<0.001		<0.001	
1/29/2020						<0.001		<0.001	<0.001
1/30/2020		<0.001	<0.001	<0.001	<0.001				
3/23/2020		<0.001	<0.001						
3/25/2020				<0.001	<0.001	<0.001		<0.001	<0.001
3/26/2020							<0.001		
6/22/2020		<0.001	<0.001						
6/23/2020				<0.001	<0.001	<0.001		<0.001	
6/24/2020									<0.001
9/21/2020		<0.001						<0.001	
9/22/2020			<0.001	<0.001	<0.001	<0.001			<0.001
9/23/2020							<0.001		
4/19/2021				<0.001	<0.001				
4/20/2021		<0.001	<0.001			<0.001		<0.001	
4/21/2021									<0.001
4/22/2021							<0.001		
9/28/2021				<0.001		<0.001			
9/29/2021	<0.001				<0.001				
9/30/2021							<0.001		
10/4/2021		<0.001	<0.001					<0.001	<0.001
4/26/2022	<0.001	<0.001	<0.001		<0.001	<0.001			
5/2/2022							<0.001		
5/3/2022				<0.001					<0.001
5/4/2022								<0.001	
10/11/2022							<0.001	<0.001	
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001				
10/13/2022									<0.001
10/18/2022						<0.001			
4/11/2023							<0.001	<0.001	<0.001
4/12/2023		<0.001	<0.001	<0.001	<0.001				
4/13/2023	<0.001					<0.001			
10/17/2023		<0.001	<0.001			<0.001			
10/18/2023	<0.001								

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/19/2023					<0.001				
10/24/2023								<0.001	<0.001
10/26/2023				<0.001					

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							0.00023 (J)	<0.001	
5/19/2016							0.00025 (J)	<0.001	
7/19/2016							0.00023 (J)		
8/4/2016									0.00012 (J)
9/20/2016							0.00027 (J)		<0.001
11/29/2016							0.00031 (J)		
11/30/2016									8.5E-05 (J)
1/31/2017							0.0003 (J)		
2/1/2017								<0.001	<0.001
5/23/2017							0.00027 (J)		
5/24/2017								<0.001	<0.001
4/18/2018							0.0003 (J)	<0.001	<0.001
8/14/2018							0.00023 (J)		
8/15/2018									<0.001
4/6/2019						<0.001			
4/7/2019	<0.001								
4/8/2019		<0.001							
4/9/2019								<0.001	<0.001
4/10/2019							0.00023 (J)		
7/31/2019	<0.001								
8/1/2019		<0.001				<0.001			
9/24/2019						<0.001	<0.001		
9/26/2019	<0.001								<0.001
9/27/2019		<0.001							
11/18/2019						<0.001			
11/19/2019	<0.001	<0.001							
1/29/2020	<0.001					<0.001			
1/30/2020		<0.001							
3/23/2020	<0.001	<0.001						<0.001	<0.001
3/26/2020						<0.001	<0.001		
6/23/2020	<0.001					<0.001			
6/24/2020		<0.001	<0.001	<0.001	<0.001				
9/21/2020	<0.001								
9/22/2020			<0.001			<0.001			<0.001
9/23/2020				<0.001			<0.001		
9/24/2020		<0.001			<0.001				
4/19/2021								<0.001	<0.001
4/20/2021	<0.001								
4/21/2021			<0.001				<0.001		
4/22/2021		<0.001		<0.001	<0.001	<0.001			
9/28/2021			<0.001				<0.001	<0.001	<0.001
9/29/2021						<0.001			
9/30/2021	<0.001								
10/1/2021		<0.001							
10/5/2021				<0.001	<0.001				
4/26/2022								<0.001	<0.001
5/2/2022	<0.001								
5/3/2022			<0.001			<0.001	<0.001		
5/4/2022		<0.001		<0.001	<0.001				
10/11/2022						<0.001	<0.001		
10/12/2022									<0.001
10/13/2022	<0.001			<0.001					

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/18/2022		<0.001	<0.001		<0.001				
4/10/2023						<0.001	<0.001		
4/12/2023	<0.001								
4/13/2023			<0.001	<0.001					
4/18/2023		<0.001			<0.001			<0.001	<0.001
10/23/2023						<0.001			
10/24/2023	<0.001								<0.001
10/25/2023		<0.001							
10/26/2023			<0.001	<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	<0.001	<0.001		<0.001		
3/30/2016			<0.001			
5/18/2016				<0.001		
5/19/2016	<0.001	<0.001	<0.001			
7/19/2016		<0.001		<0.001		
7/20/2016	<0.001		<0.001			
9/20/2016	<0.001	<0.001	<0.001	<0.001		
11/29/2016	<0.001			<0.001		
11/30/2016		<0.001	<0.001			
1/31/2017	<0.001			<0.001		
2/1/2017		<0.001	<0.001			
5/22/2017				<0.001		
5/24/2017	<0.001	<0.001	<0.001			
4/17/2018	<0.001			<0.001		
4/18/2018		<0.001	<0.001			
8/14/2018				<0.001		
8/15/2018	<0.001	<0.001	<0.001			
4/7/2019	<0.001	<0.001	<0.001			
4/10/2019				<0.001		
9/24/2019				<0.001		
9/25/2019	<0.001	<0.001				
9/26/2019			<0.001			
3/26/2020	<0.001	<0.001	<0.001	<0.001		
9/23/2020	<0.001	<0.001	<0.001	<0.001		
4/20/2021		<0.001				
4/21/2021	<0.001		<0.001	<0.001		
9/29/2021		<0.001				
9/30/2021	<0.001		<0.001	<0.001		
4/25/2022				<0.001		
4/27/2022	<0.001		<0.001			
5/3/2022		<0.001				
10/11/2022				<0.001		
10/17/2022	<0.001	<0.001	<0.001			
4/11/2023				<0.001		
4/12/2023	<0.001	<0.001	<0.001			
10/17/2023	<0.001					
10/18/2023		<0.001				
10/19/2023				<0.001		
10/23/2023			<0.001			
10/25/2023					<0.001	<0.001

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
3/29/2016	100								
3/30/2016		550	620	2700					
5/18/2016	150	650							
5/19/2016			2800	690		520			
5/20/2016								470	
7/19/2016	90								
7/20/2016		590	2700			370			
8/4/2016					810				1100
9/19/2016	80								
9/20/2016		590			750				
9/21/2016			3300			310			1100
11/29/2016	110					740			
11/30/2016		570			770				
12/1/2016			2400						1100
1/30/2017						570			
1/31/2017	98							870	1200
2/1/2017		750		530	670				
2/2/2017			1700						
5/22/2017						350			
5/23/2017	74							580	1100
5/24/2017		570	1700						
5/25/2017				560	550				
10/9/2017	150								
10/10/2017			2800		620	250			1200
10/11/2017		520							
4/17/2018	140							970	1400
4/18/2018			2100			170			
4/19/2018		670		800	900				
8/13/2018						200			
8/14/2018	110	490			520				
8/15/2018			1300						1100
4/9/2019		460	1900	660	660	200	190		
4/10/2019	150							780	1000
8/1/2019							264		
9/23/2019						210	289		
9/24/2019	160								
9/26/2019		458	2840		557				933
11/18/2019							236		
1/30/2020							278		
3/23/2020									636
3/24/2020				716	717			678	
3/25/2020		642	2130			222	266		
3/26/2020	172								
6/23/2020							287		
9/21/2020							242		
9/23/2020	118	469							
9/24/2020			1400		538				684
4/19/2021						204	312		
4/20/2021		779	1080						
4/21/2021				640	575				
4/22/2021	220							667	512
9/28/2021						559	340		

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
3/29/2016							46		
5/18/2016							56		
7/19/2016							42		
9/19/2016							30		
11/29/2016							76		
1/31/2017							32		
5/23/2017							26		
10/10/2017							46		
4/17/2018							38		
8/14/2018							50		
4/6/2019								170	220
4/7/2019		150			260	210			
4/8/2019			700	1300					
4/10/2019							44		
7/31/2019		104	726	945					
8/1/2019					196	258		245	330
9/24/2019		128			220		66.2		
9/25/2019			602			283		212	300
9/26/2019				765					
11/19/2019			576	792	157				296
11/20/2019		98.9				229		202	
1/29/2020						145		146	265
1/30/2020		106	555	1050	263				
3/23/2020		76	463						
3/25/2020				872	227	220		208	314
3/26/2020							69.3		
6/22/2020		87.7	520						
6/23/2020				998	208	220		246	
6/24/2020									369
9/21/2020		112						242	
9/22/2020			517	642	170	217			298
9/23/2020							64.5		
4/19/2021				724	238				
4/20/2021		83.3	469			166		233	
4/21/2021									424
4/22/2021							56		
9/28/2021				695		170			
9/29/2021	955				163				
9/30/2021							70.5		
10/4/2021		66	492					180	294
4/26/2022	454	70	440		234	188			
5/2/2022							37.8		
5/3/2022				600					313
5/4/2022								206	
10/11/2022							51.5	185	
10/12/2022	1060	79.5	385	672	239				
10/13/2022									312
10/18/2022						235			
4/11/2023							58.4	210	312
4/12/2023		85.7	322	603	208				
4/13/2023	294					126			
10/17/2023		68	376			226			

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)	MW-20	MW-21
10/18/2023	633								
10/19/2023					148				
10/24/2023								128	252
10/26/2023				526					

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
3/29/2016							1700	770	
5/19/2016							2000	680	
7/19/2016							1900		
8/4/2016									2500
9/20/2016							1800		2300
11/29/2016							2400		
11/30/2016									1800
1/31/2017							310		
2/1/2017								1300	2200
5/23/2017							1800		
5/24/2017								940	1600
10/10/2017							1900		1300
4/18/2018							1700	880	1300
8/14/2018							1700		
8/15/2018									1000
4/6/2019						24			
4/7/2019	360								
4/8/2019		2000							
4/9/2019								700	920
4/10/2019							1800		
7/31/2019	420								
8/1/2019		2100				<25			
9/24/2019						70.7	1890		
9/26/2019	390								794
9/27/2019		2200							
11/18/2019						52.5			
11/19/2019	383	2170							
1/29/2020	364					52.6			
1/30/2020		2910							
3/23/2020	402	2200						555	612
3/26/2020						80	1650		
6/23/2020	429					66.6			
6/24/2020		2830	2310	2620	224				
9/21/2020	434								
9/22/2020			1930			56			646
9/23/2020				2850			1850		
9/24/2020		2430			202				
4/19/2021								725	579
4/20/2021	406								
4/21/2021			1810				1990		
4/22/2021		2730		1550	272	125			
9/28/2021			682				1700	698	640
9/29/2021						61.3			
9/30/2021	420								
10/1/2021		2860							
10/5/2021				1820	368				
4/26/2022								658	652
5/2/2022	404								
5/3/2022			1080			61.4	1940		
5/4/2022		2930		1590	396				
10/11/2022						73.6	1810		
10/12/2022									608

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
10/13/2022	393			2740					
10/18/2022		1780	1240		338				
4/12/2023	402								
4/13/2023			543	1360					
4/18/2023		1950			263	<25	1600	645	524
10/23/2023						<25			
10/24/2023	338								582
10/25/2023		1620							
10/26/2023			853	2750	304				

Time Series

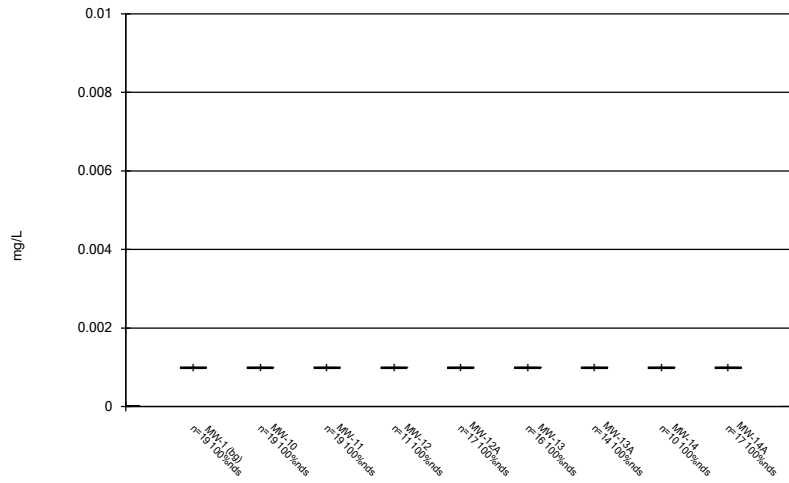
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 6:56 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9	MW-2R (bg)	MW-4R
3/29/2016	490	1200		430		
3/30/2016			210			
5/18/2016				530		
5/19/2016	430	1600	270			
7/19/2016		740		760		
7/20/2016	340		330			
9/20/2016	370	1800	320	920		
11/29/2016	380			1600		
11/30/2016		2800	300			
1/31/2017	410			1100		
2/1/2017		770	300			
5/22/2017				1300		
5/24/2017	400	1100	280			
10/9/2017				1500		
10/11/2017	410	710	280			
4/17/2018	480			720		
4/18/2018		410	200			
8/14/2018				1700		
8/15/2018	400	1100	320			
4/7/2019	370	860	190			
4/10/2019				1900		
9/24/2019				2360		
9/25/2019	298	580				
9/26/2019			270			
3/26/2020	398	356	241	2300		
9/23/2020	337	366	250	2350		
4/20/2021		310				
4/21/2021	455		229	1850		
9/29/2021		323				
9/30/2021	421		256	1840		
4/25/2022				1450		
4/27/2022	368		202			
5/3/2022		295				
10/11/2022				1390		
10/17/2022	372	337	320			
4/11/2023				1200		
4/12/2023	357	278	198			
10/17/2023	310					
10/18/2023		236				
10/19/2023				1130		
10/23/2023			234			
10/25/2023					150	610

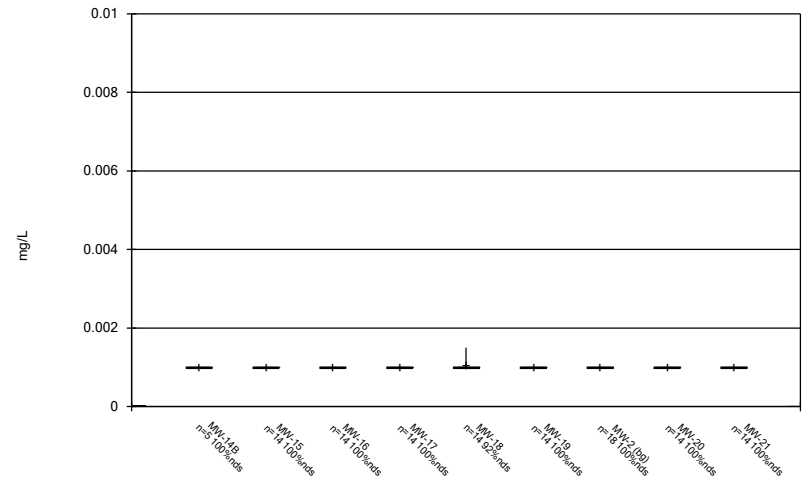
Figure B. Box Plots

Box & Whiskers Plot



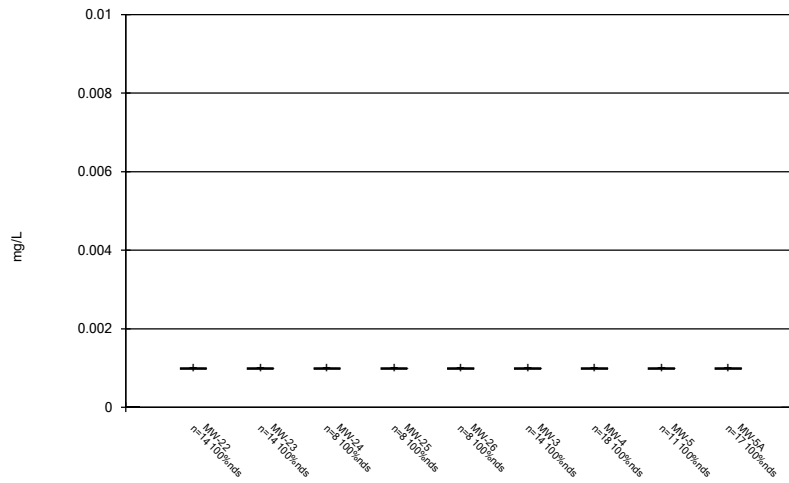
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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



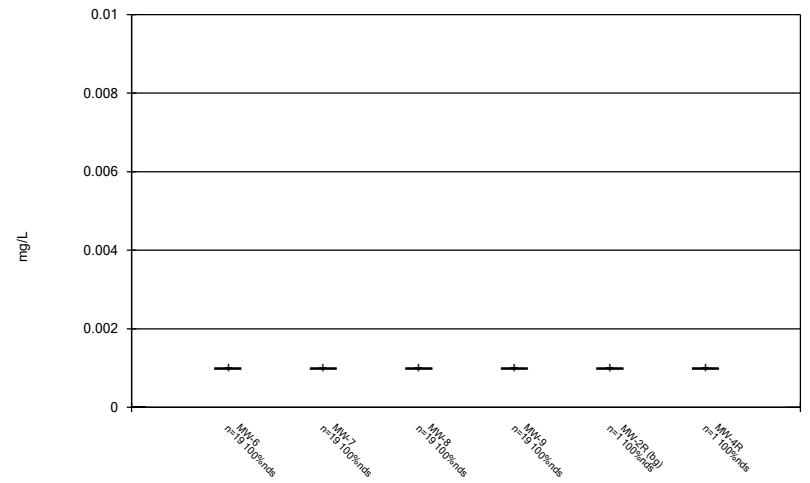
Constituent: Antimony Analysis Run 1/16/2024 6:59 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



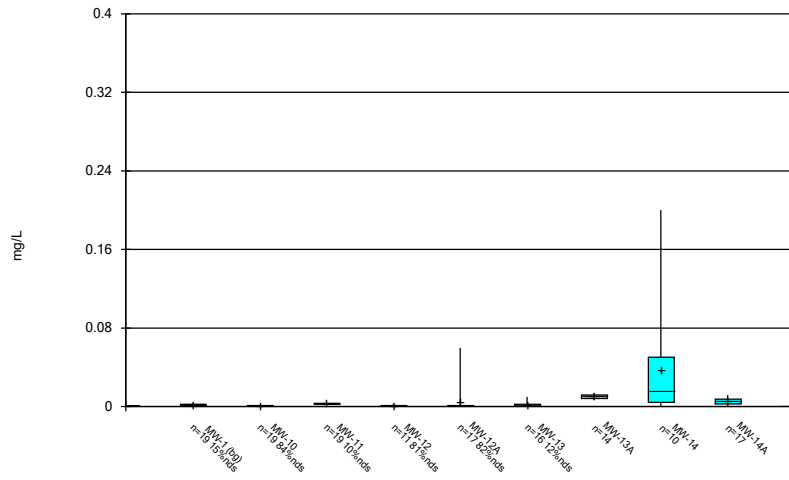
Constituent: Antimony Analysis Run 1/16/2024 6:59 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



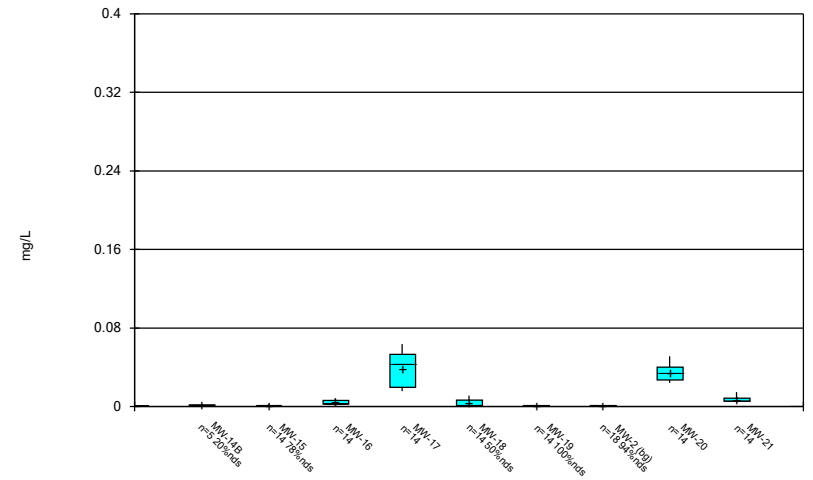
Constituent: Antimony Analysis Run 1/16/2024 6:59 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



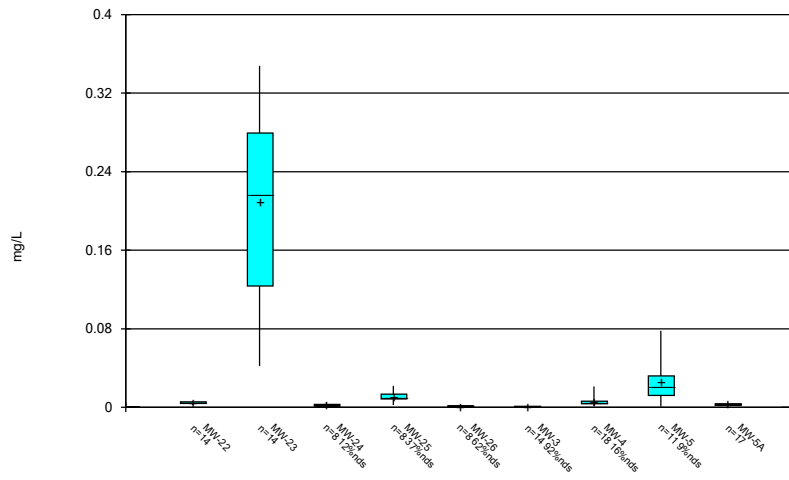
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Box & Whiskers Plot



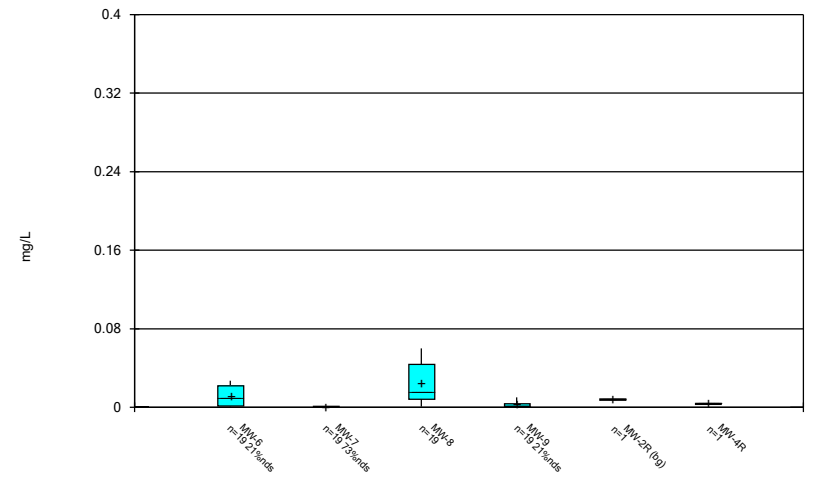
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Box & Whiskers Plot



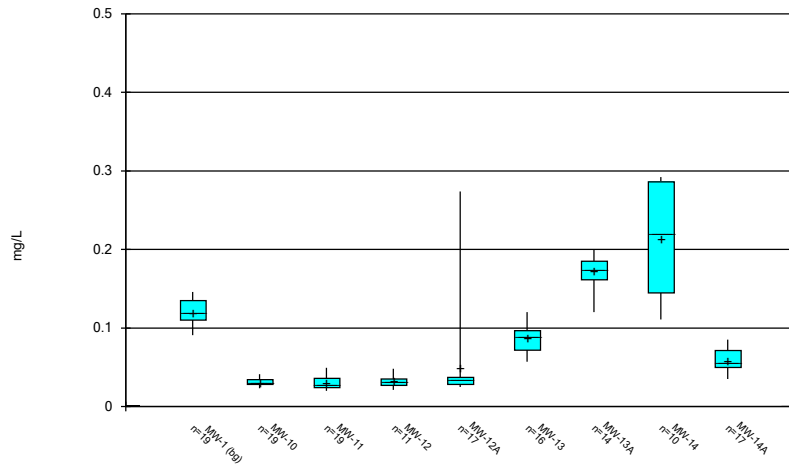
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Box & Whiskers Plot



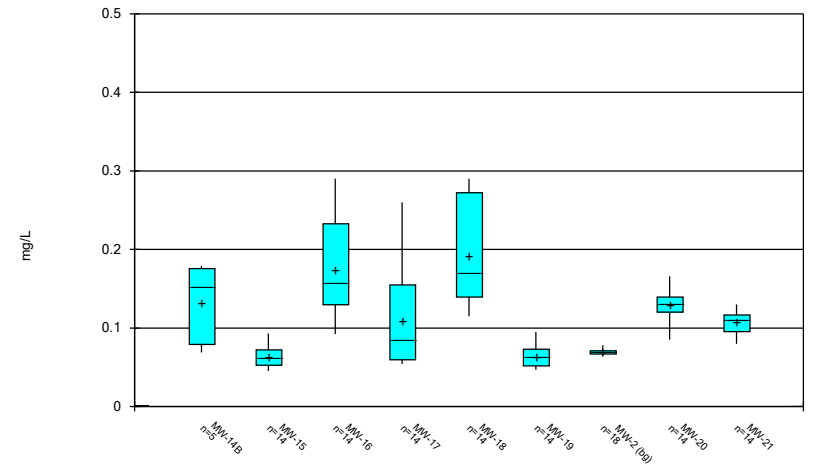
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Box & Whiskers Plot



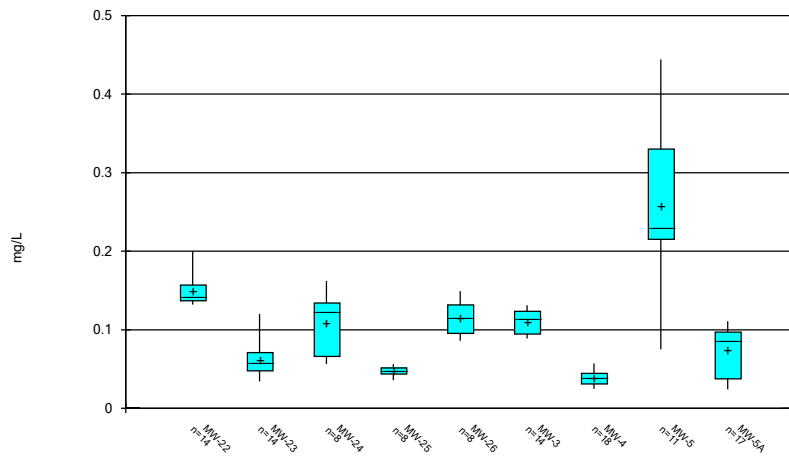
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Box & Whiskers Plot



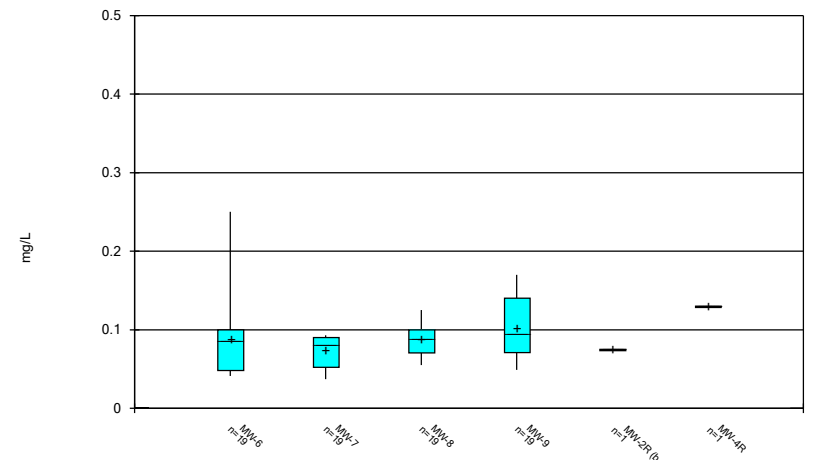
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Box & Whiskers Plot



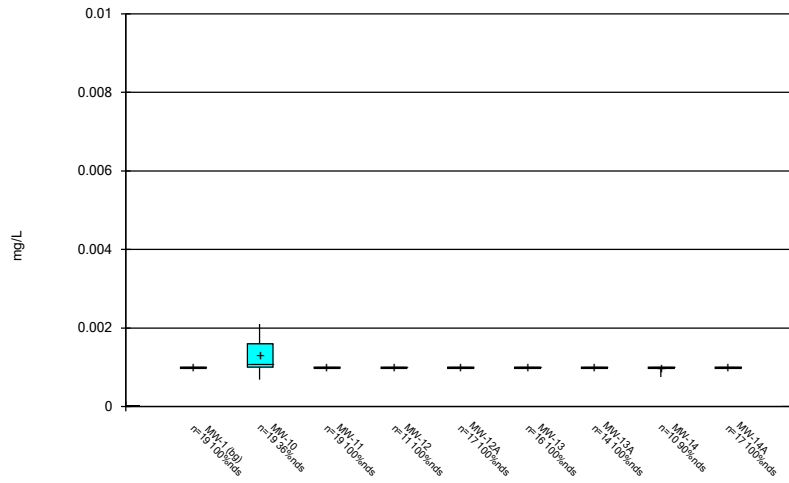
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Box & Whiskers Plot



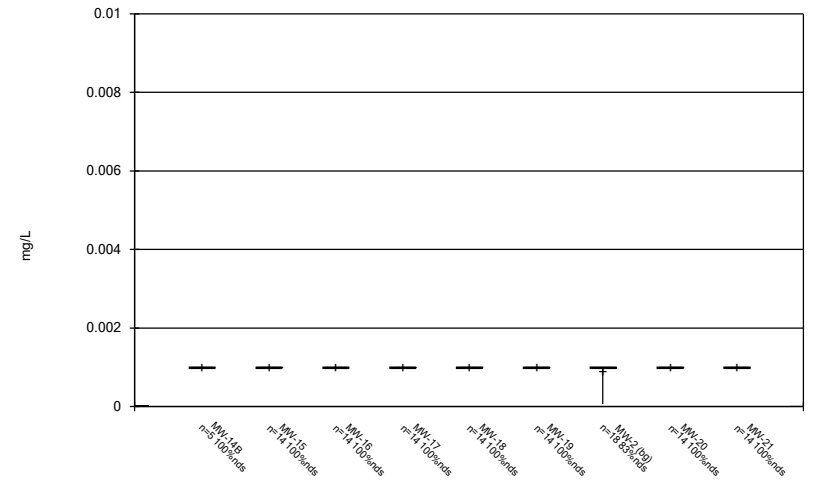
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Box & Whiskers Plot



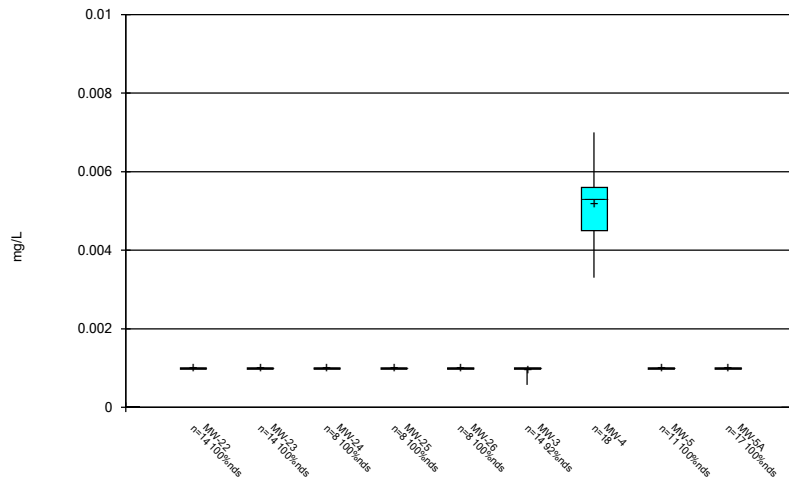
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Box & Whiskers Plot



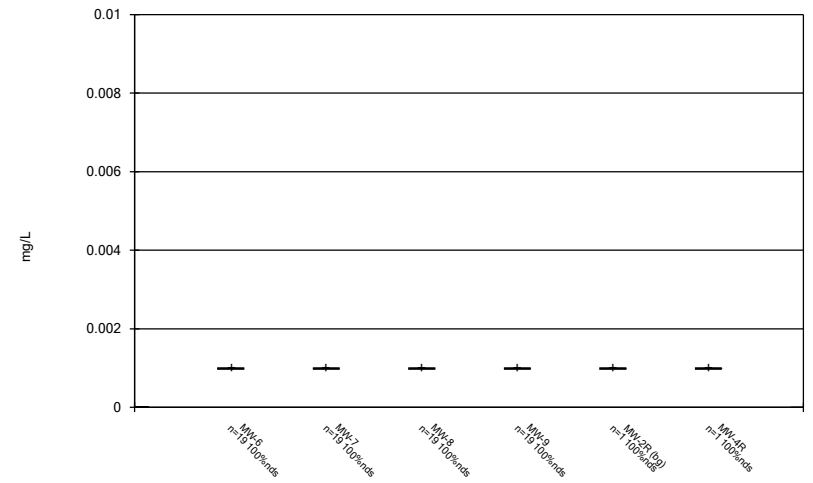
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Box & Whiskers Plot



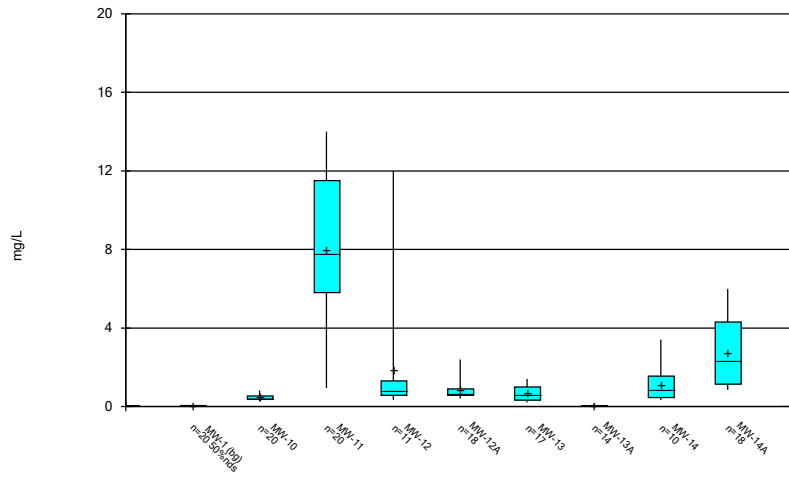
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Box & Whiskers Plot



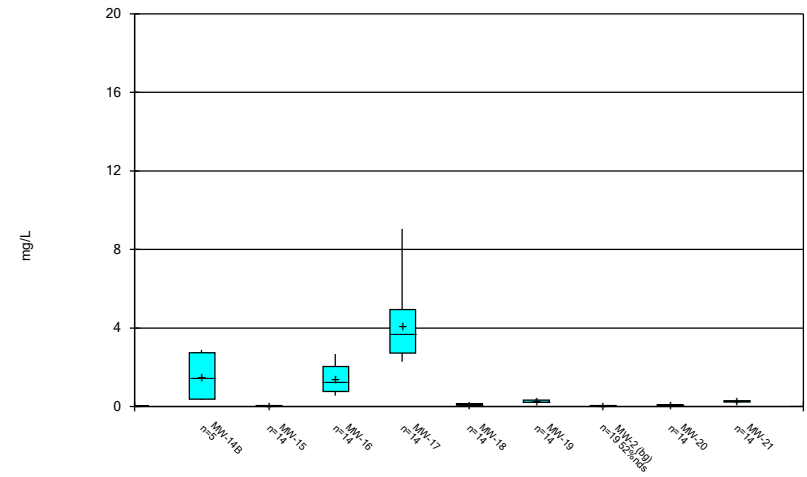
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Box & Whiskers Plot



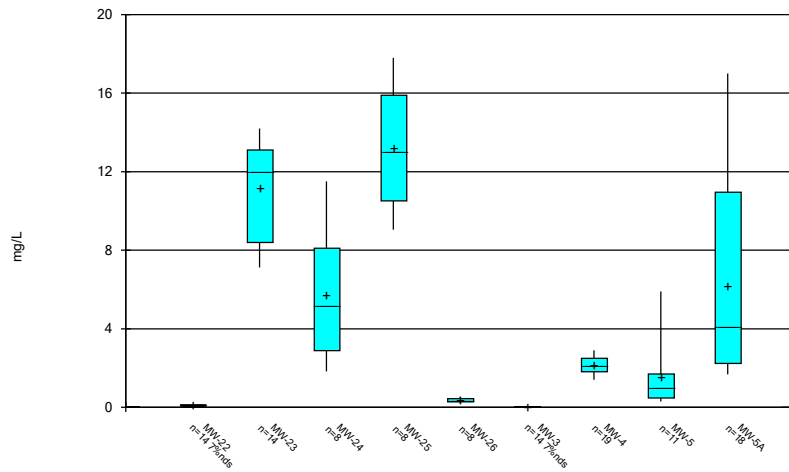
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Box & Whiskers Plot



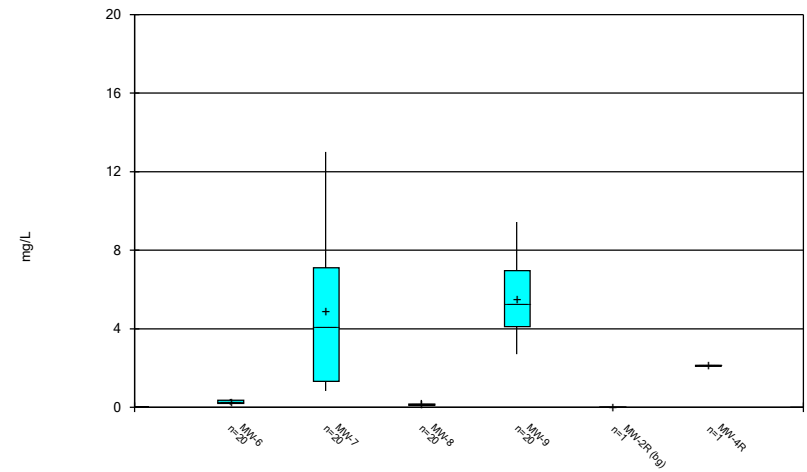
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Box & Whiskers Plot



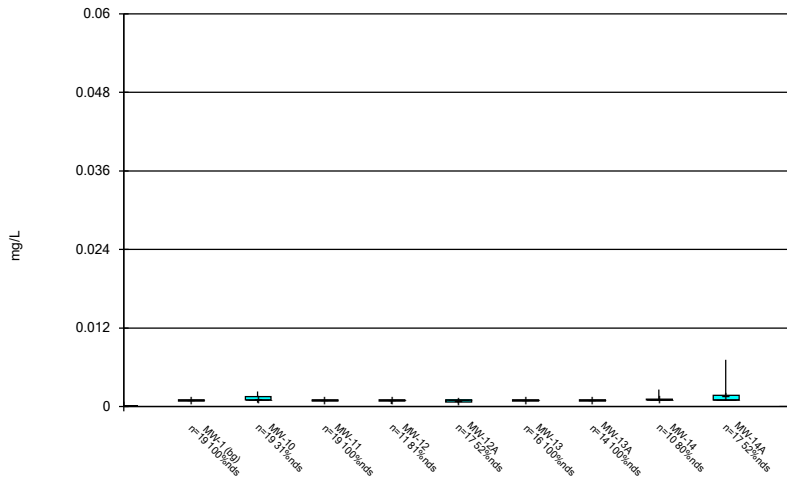
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Box & Whiskers Plot



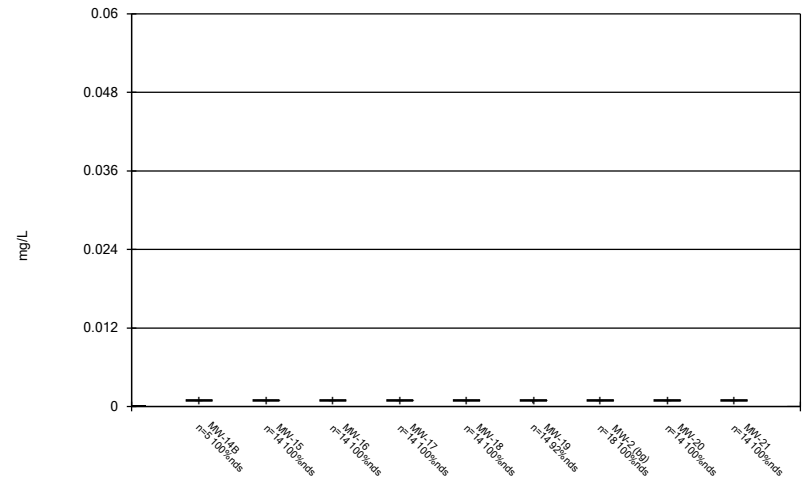
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Box & Whiskers Plot



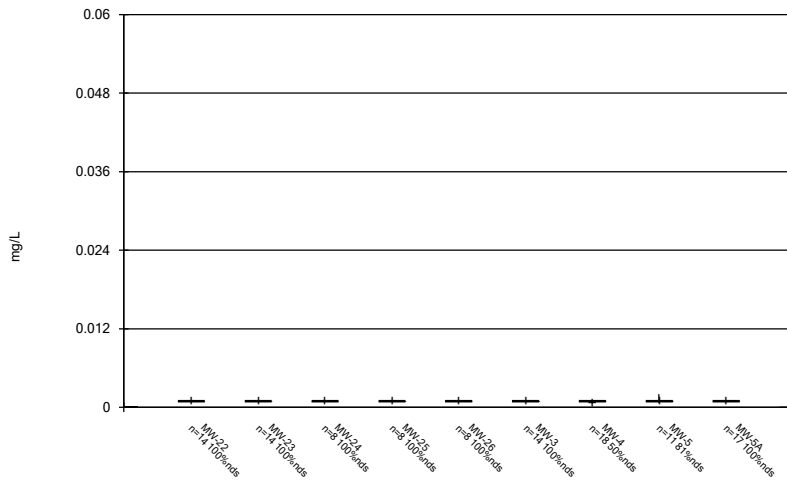
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Box & Whiskers Plot



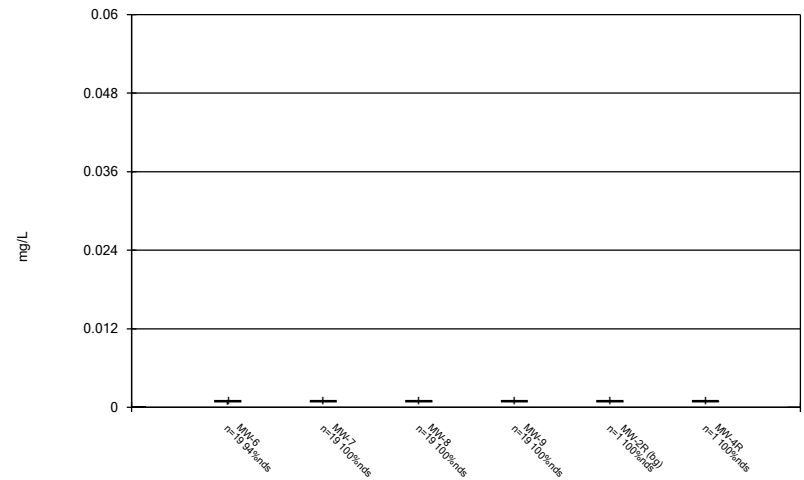
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Box & Whiskers Plot



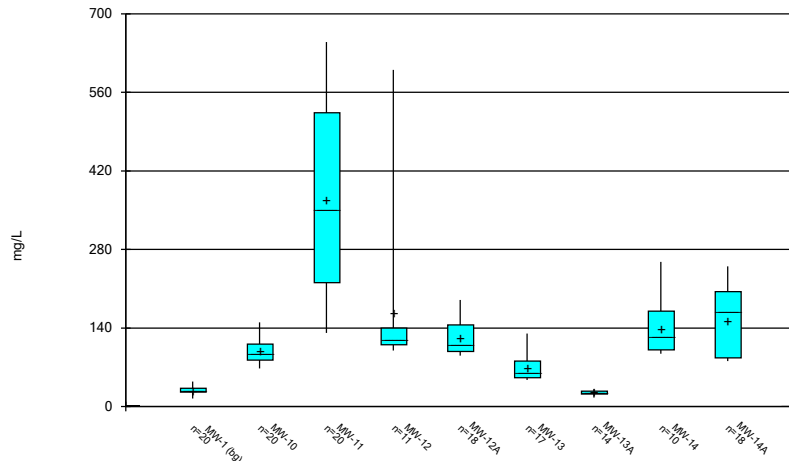
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Box & Whiskers Plot



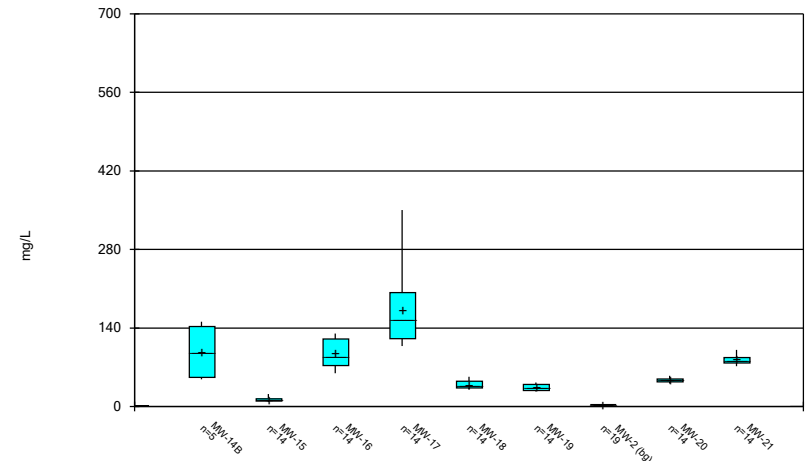
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Box & Whiskers Plot



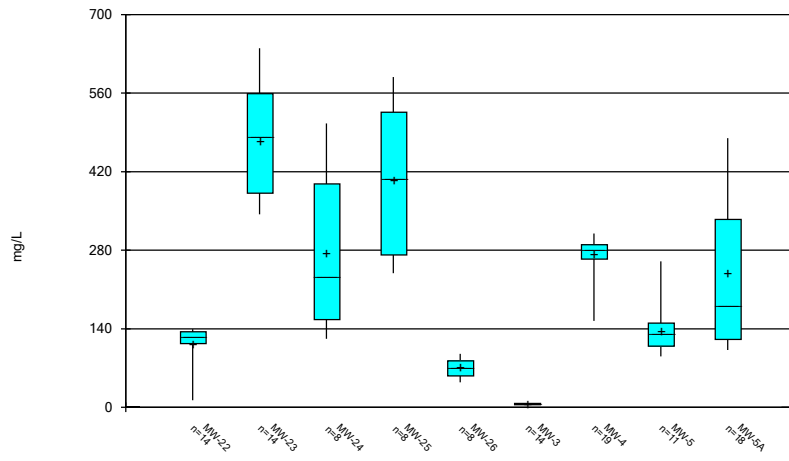
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Box & Whiskers Plot



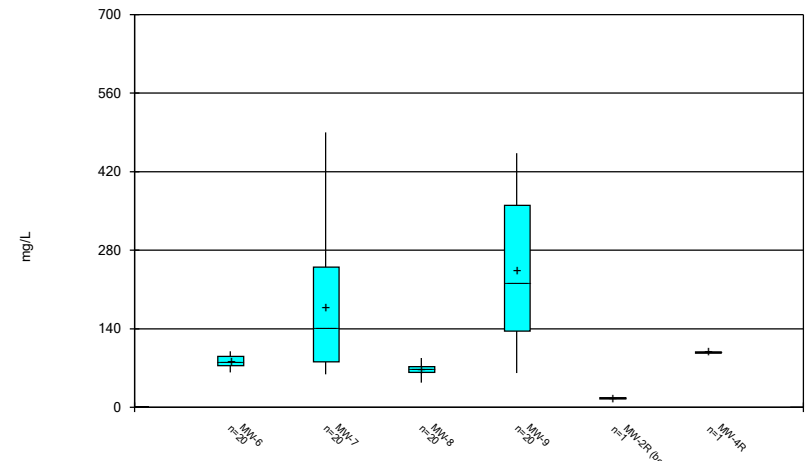
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Box & Whiskers Plot



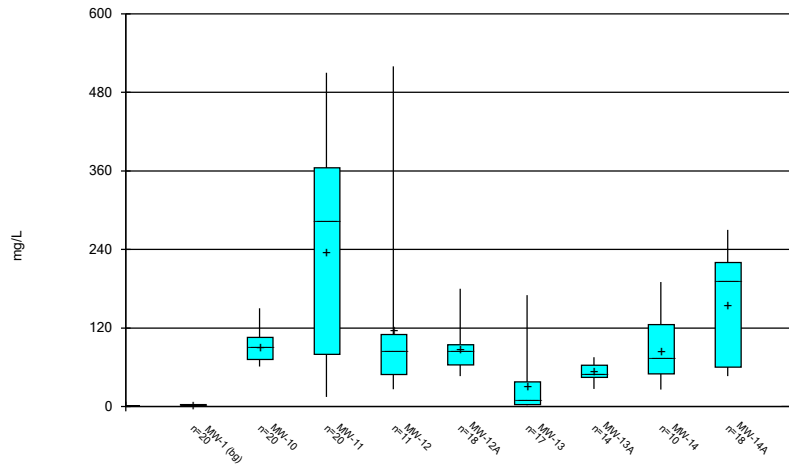
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Box & Whiskers Plot



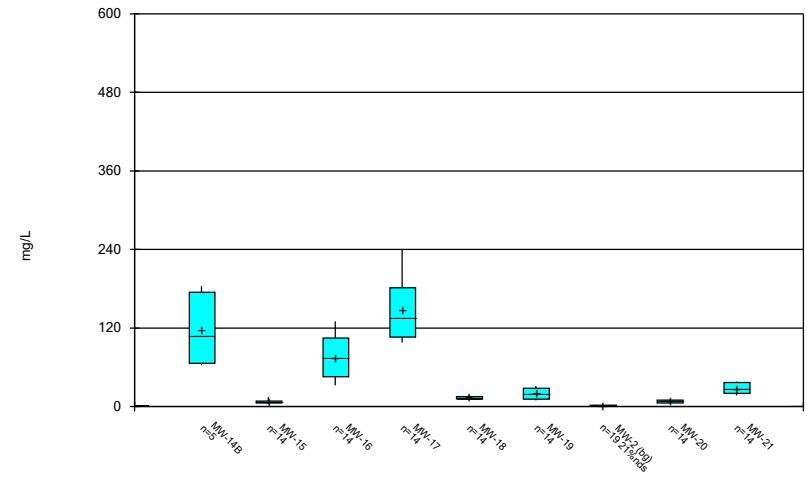
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Box & Whiskers Plot



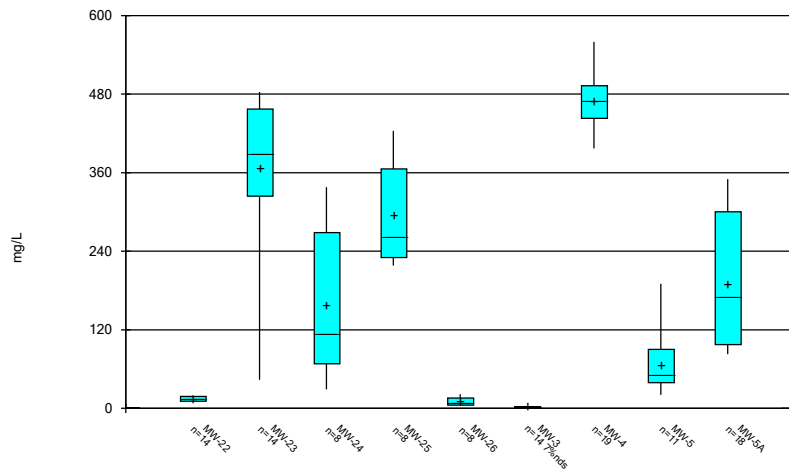
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Box & Whiskers Plot



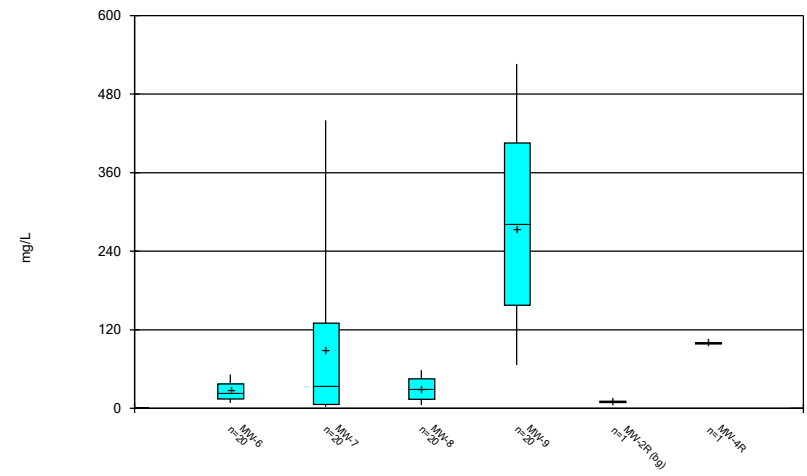
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Box & Whiskers Plot



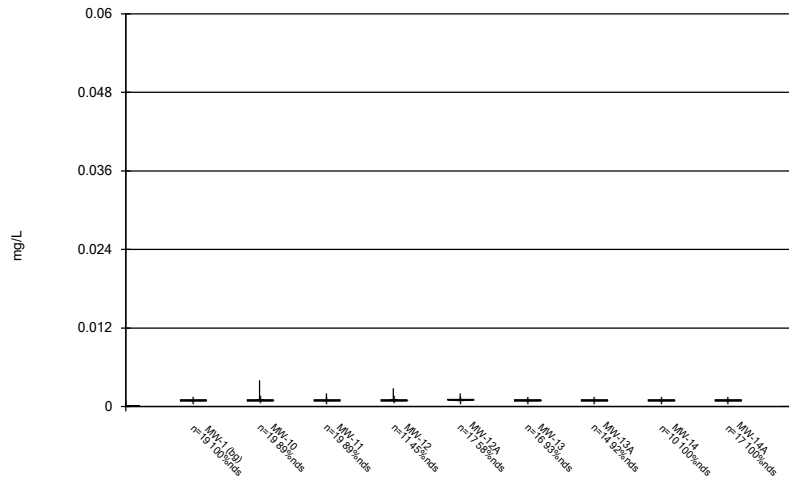
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Box & Whiskers Plot



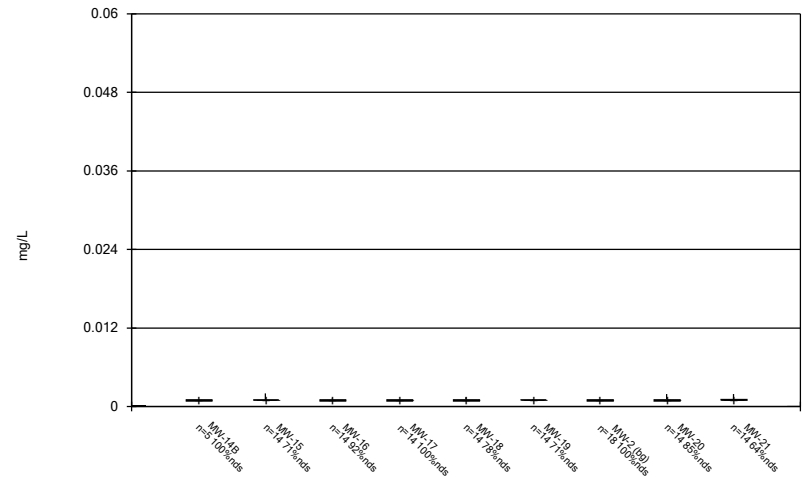
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Box & Whiskers Plot



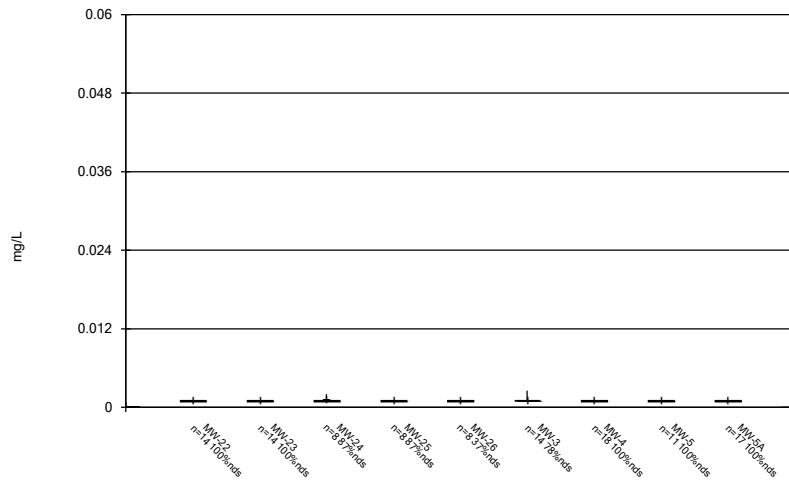
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Box & Whiskers Plot



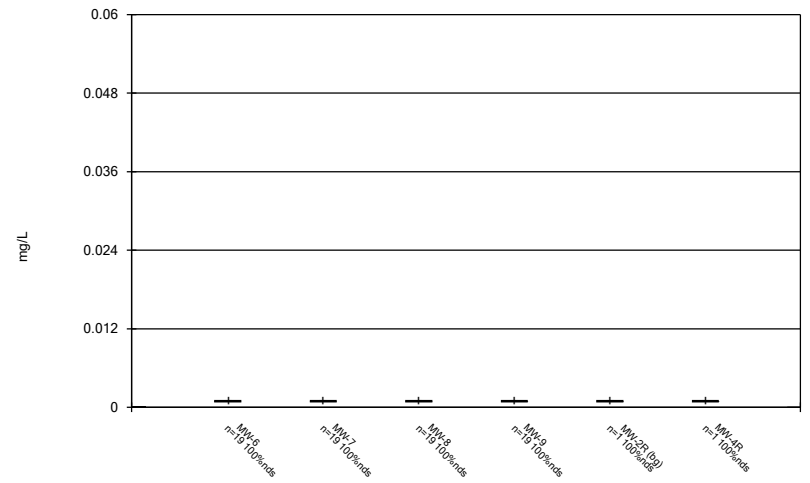
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Box & Whiskers Plot



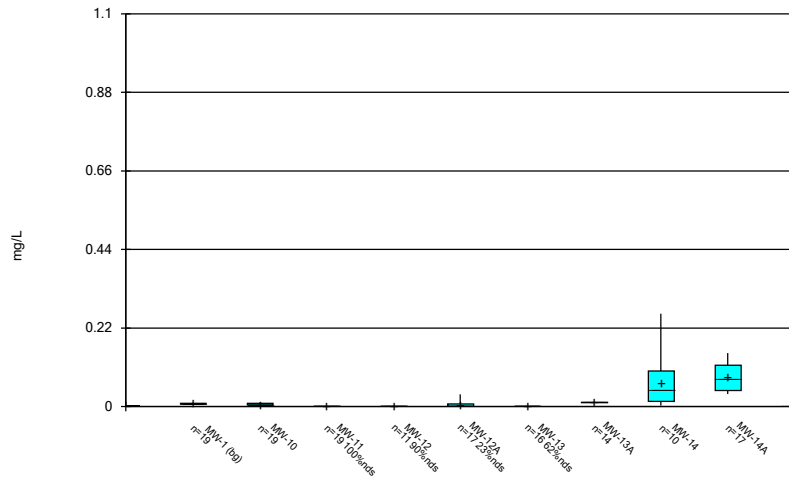
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Box & Whiskers Plot



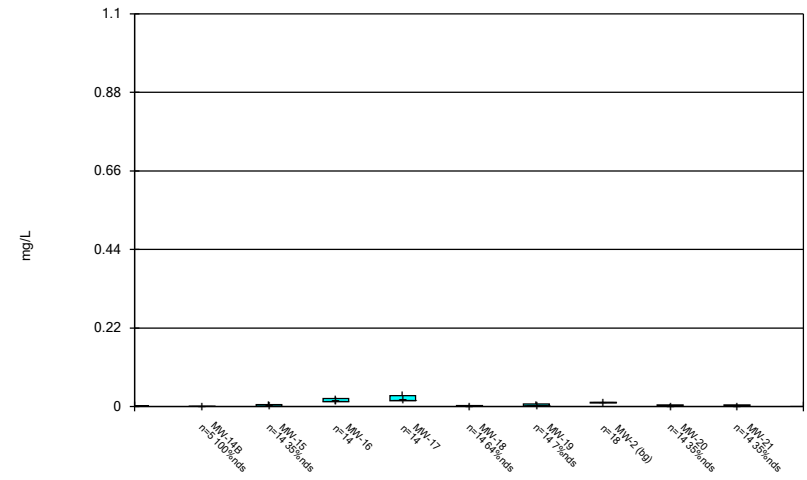
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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



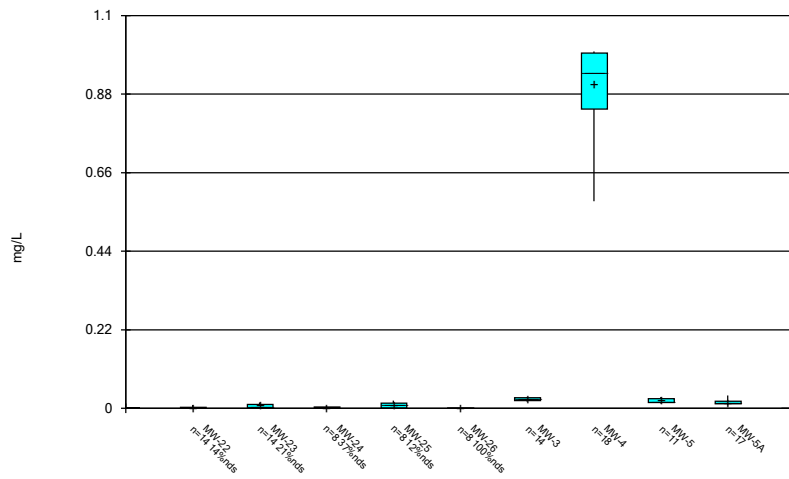
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Box & Whiskers Plot



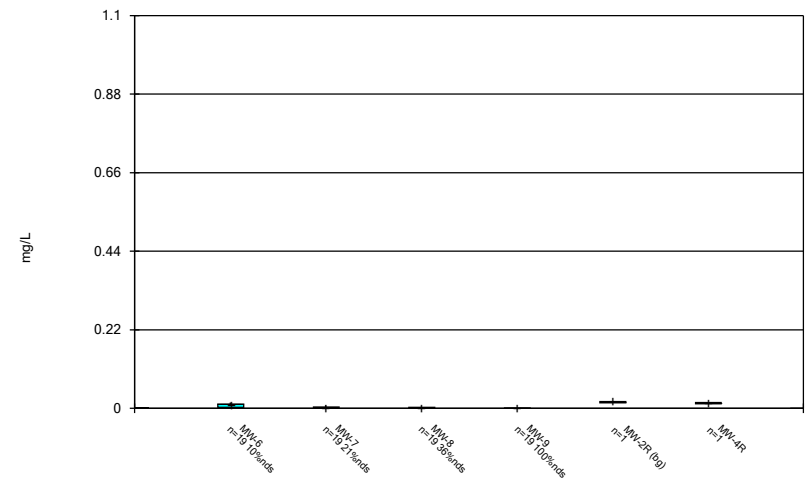
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Box & Whiskers Plot



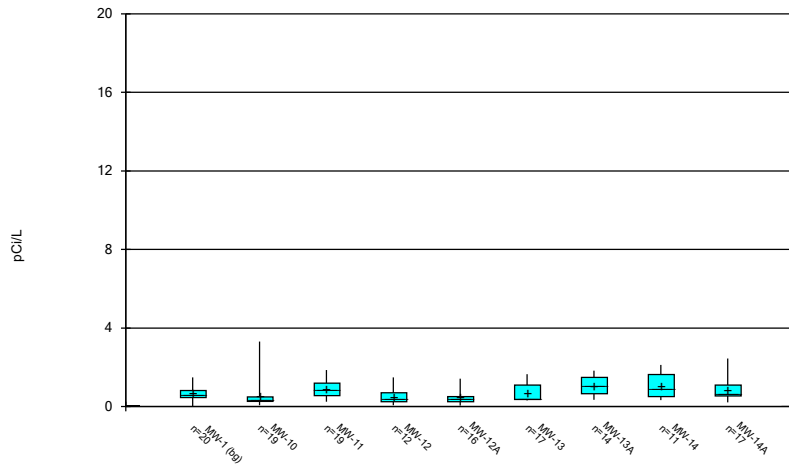
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Box & Whiskers Plot



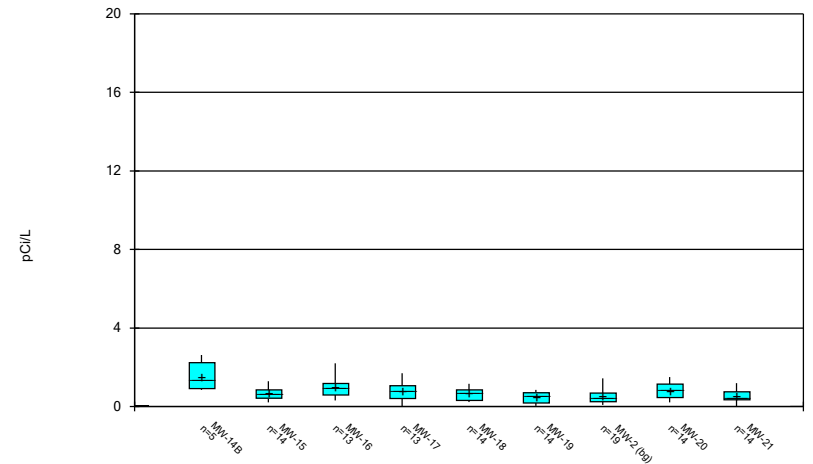
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Box & Whiskers Plot



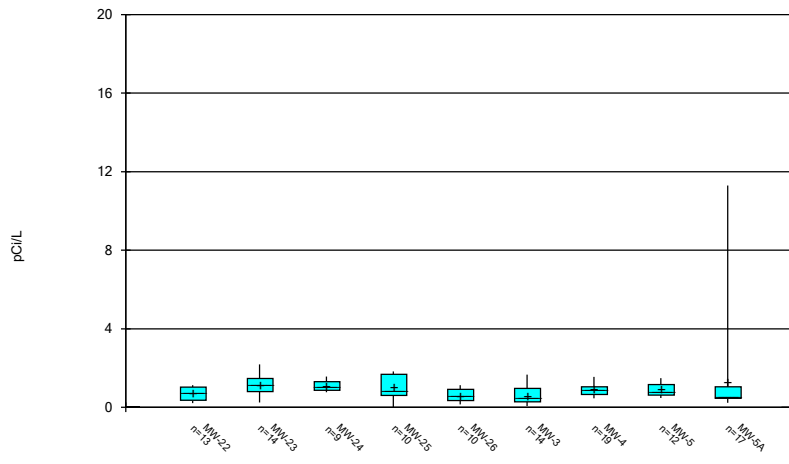
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Box & Whiskers Plot



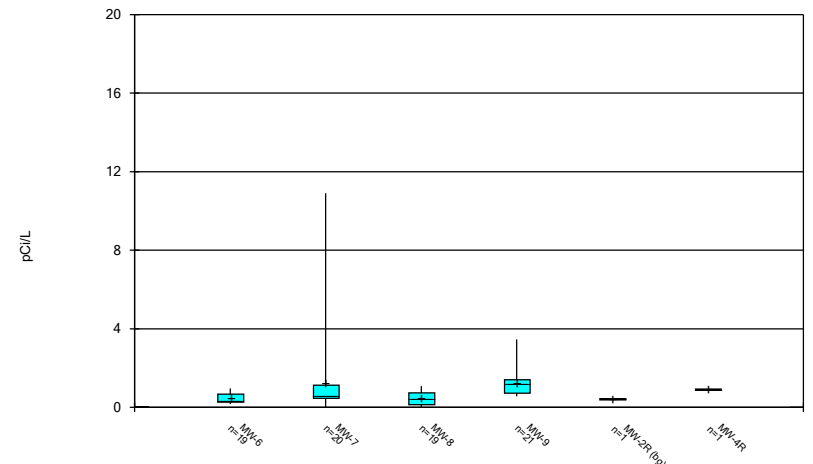
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Box & Whiskers Plot



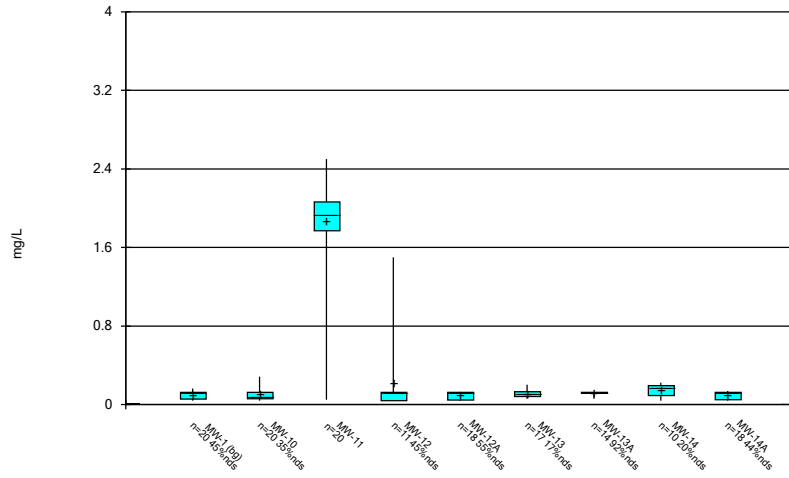
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Box & Whiskers Plot



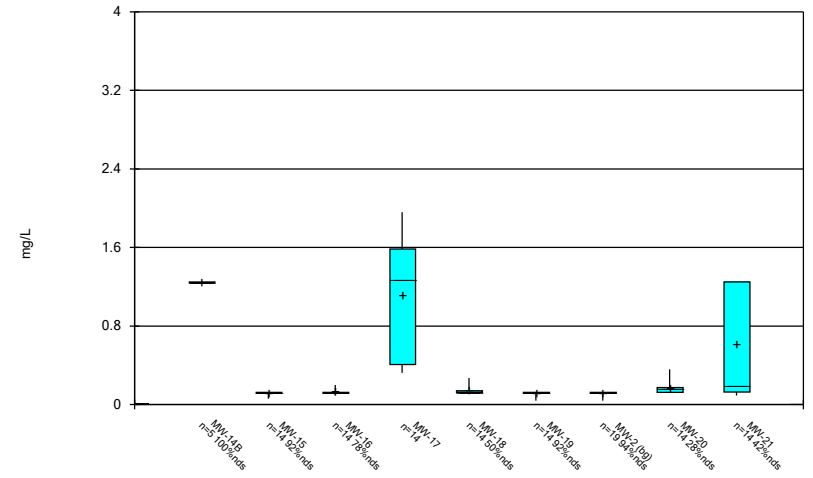
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Box & Whiskers Plot



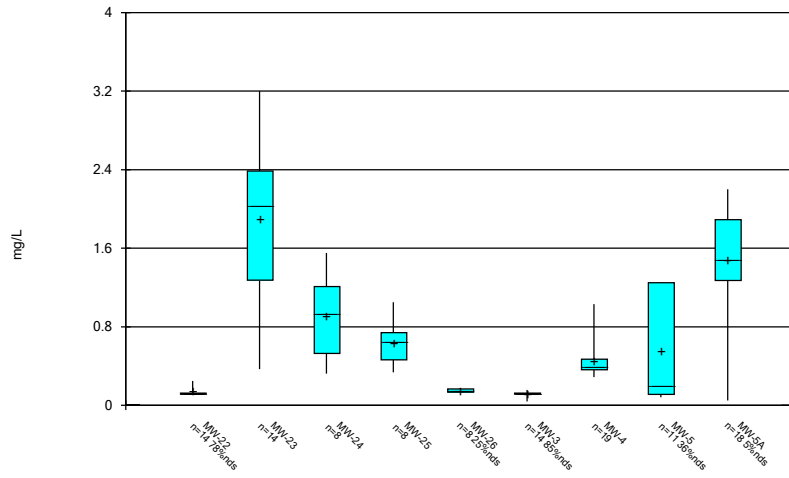
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Box & Whiskers Plot



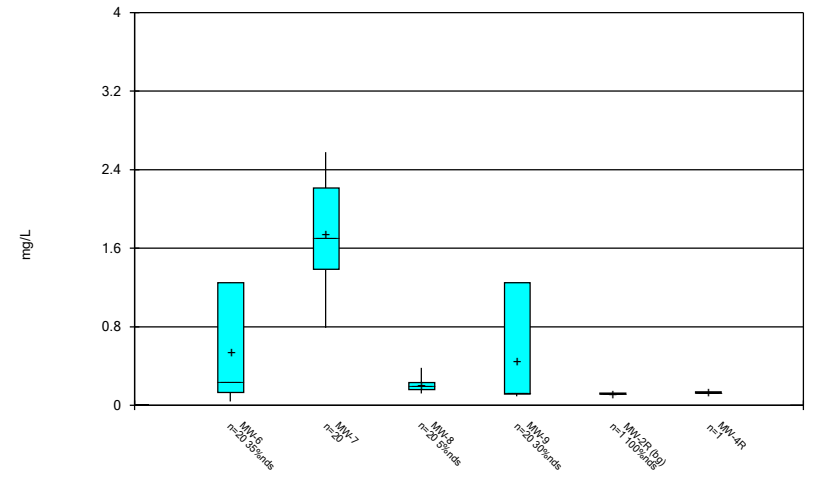
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Box & Whiskers Plot



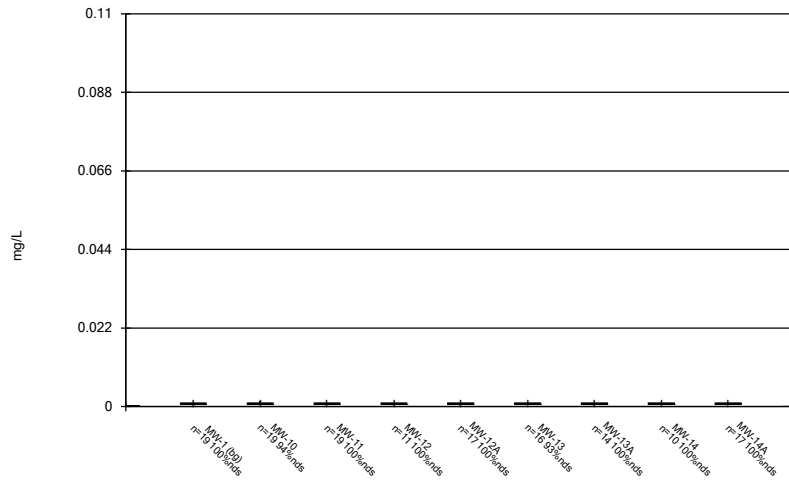
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Box & Whiskers Plot



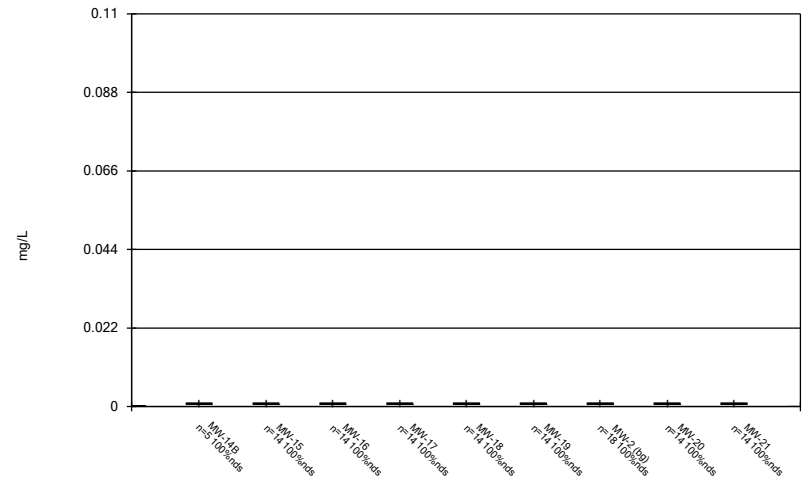
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Box & Whiskers Plot



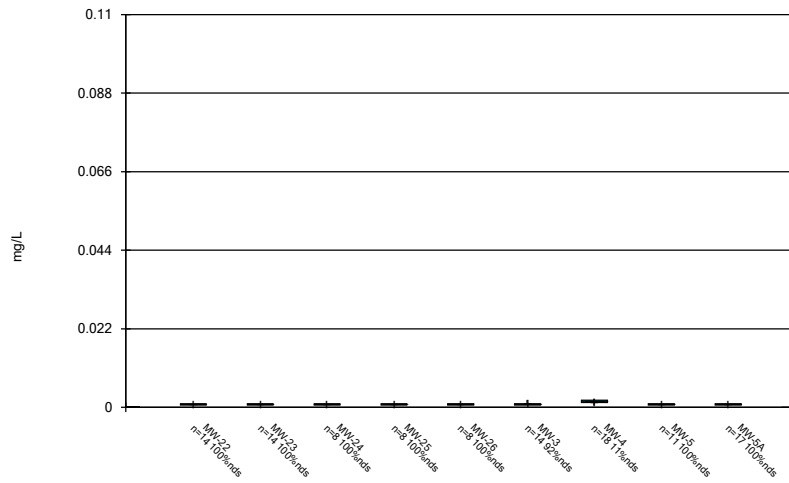
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Box & Whiskers Plot



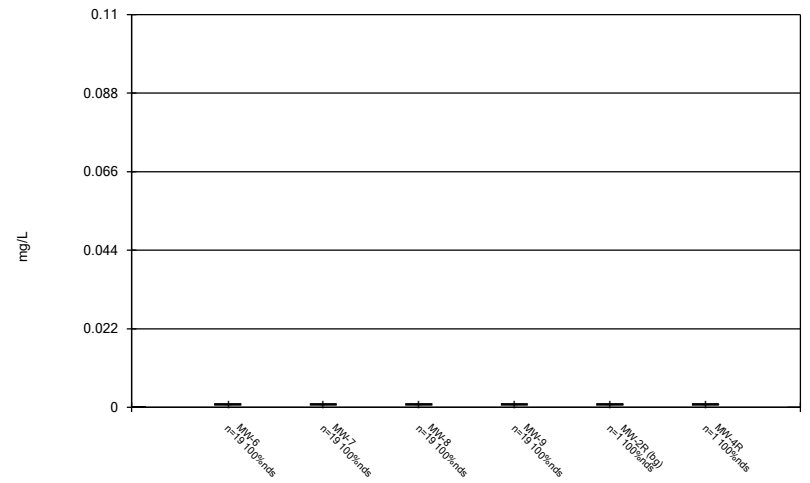
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Box & Whiskers Plot



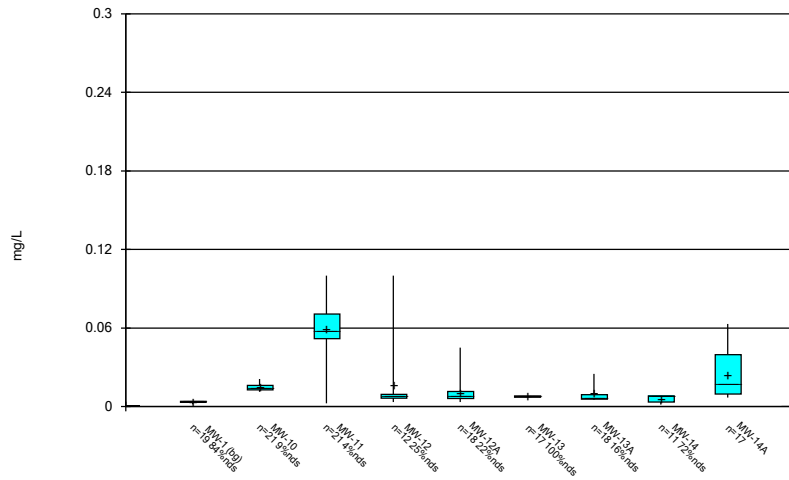
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Box & Whiskers Plot



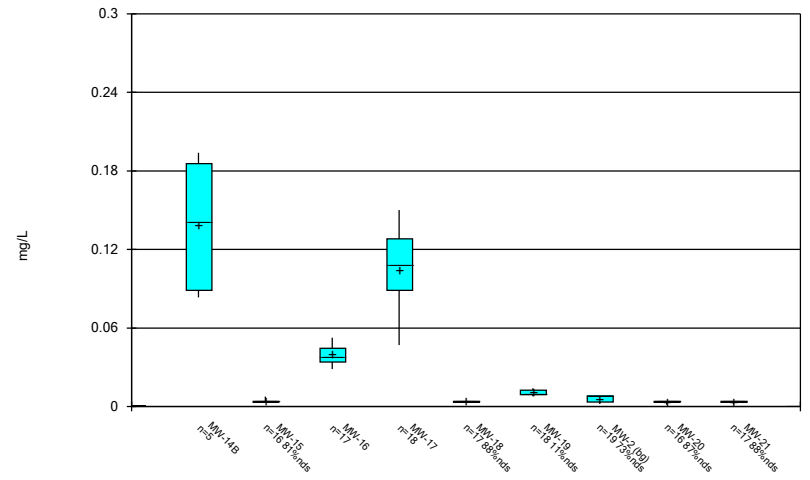
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Box & Whiskers Plot



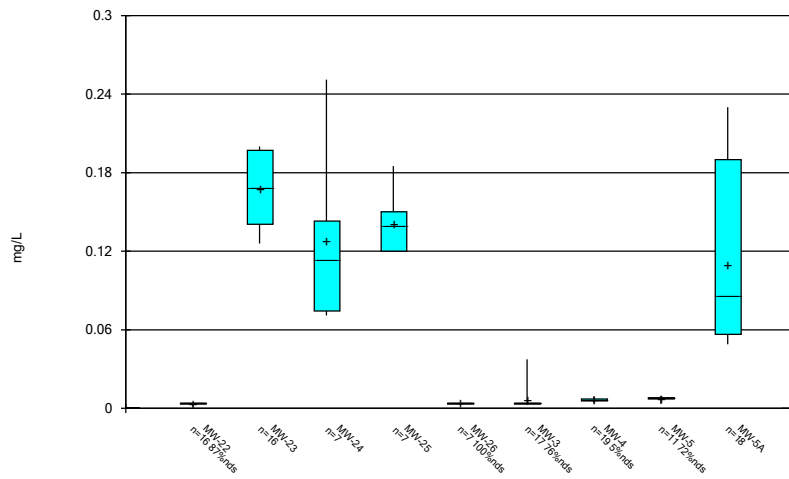
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Box & Whiskers Plot



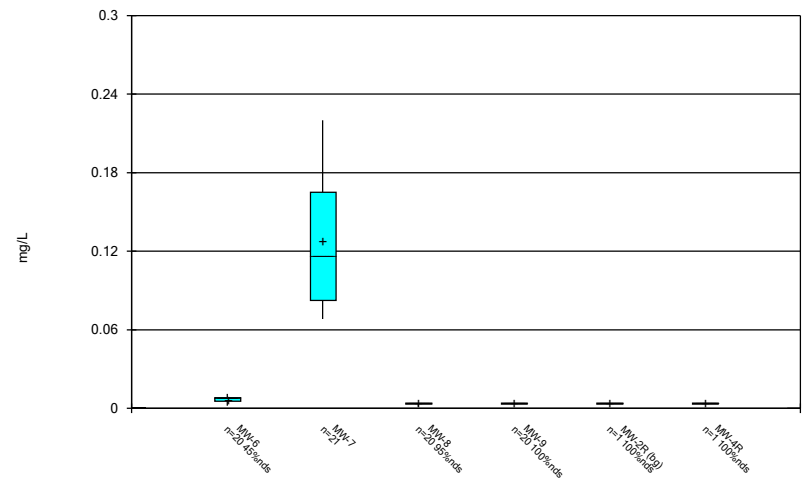
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Box & Whiskers Plot



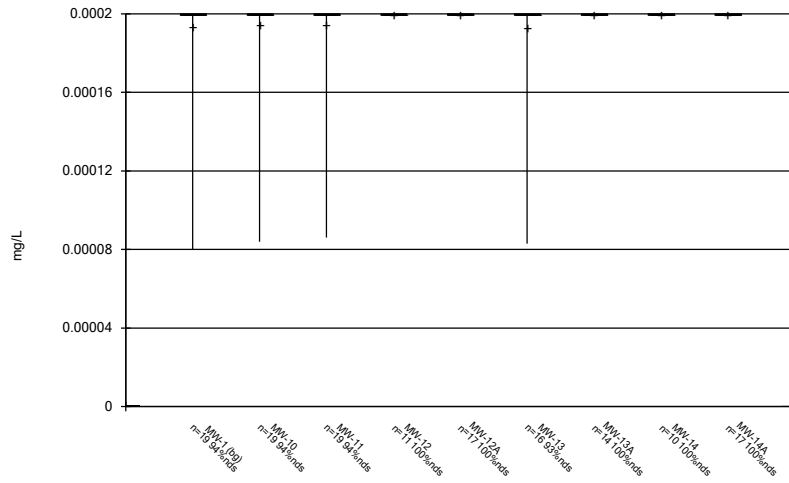
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Box & Whiskers Plot



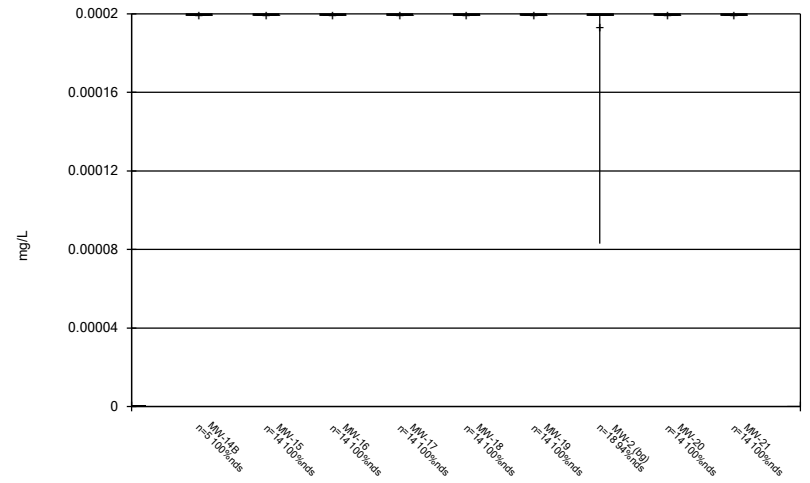
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Box & Whiskers Plot



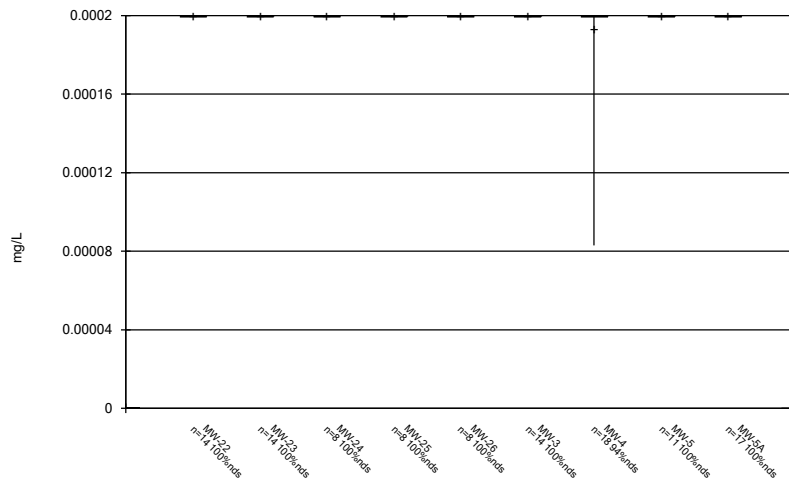
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Box & Whiskers Plot



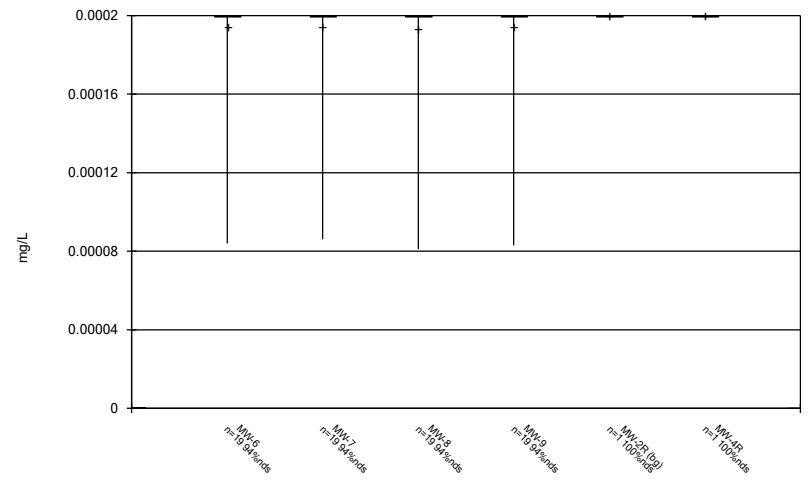
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Box & Whiskers Plot



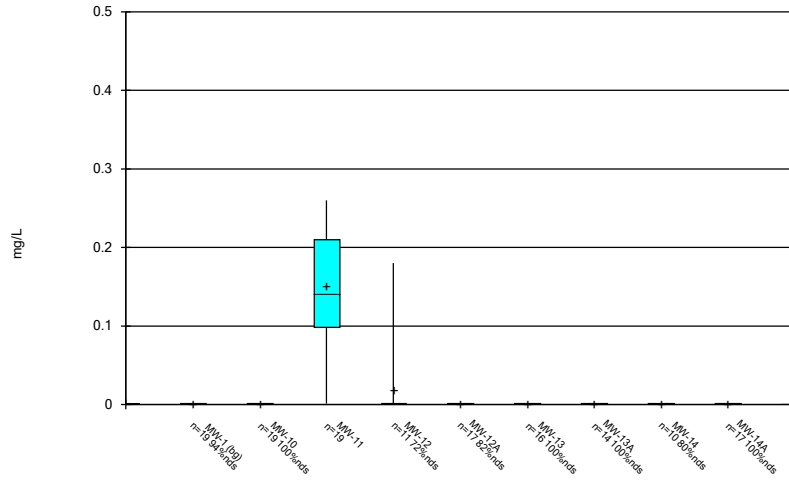
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Box & Whiskers Plot



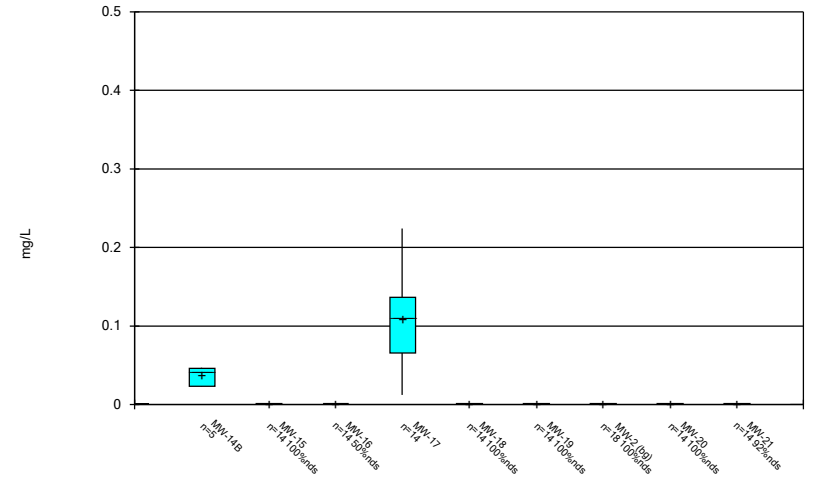
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Box & Whiskers Plot



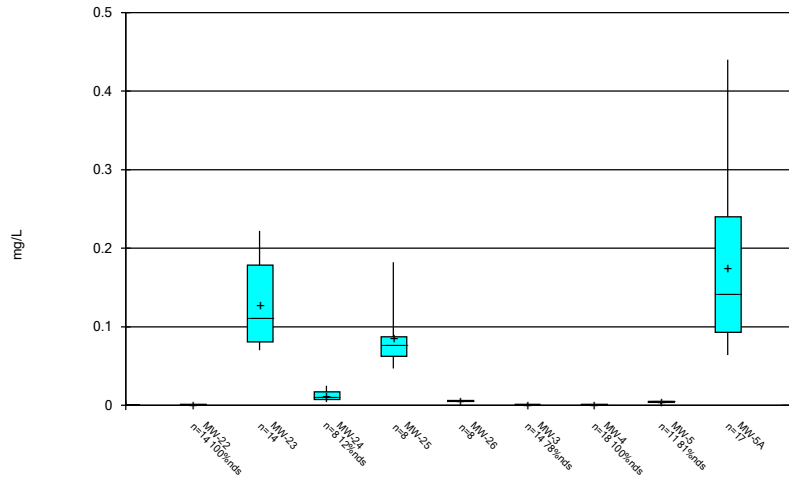
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Box & Whiskers Plot



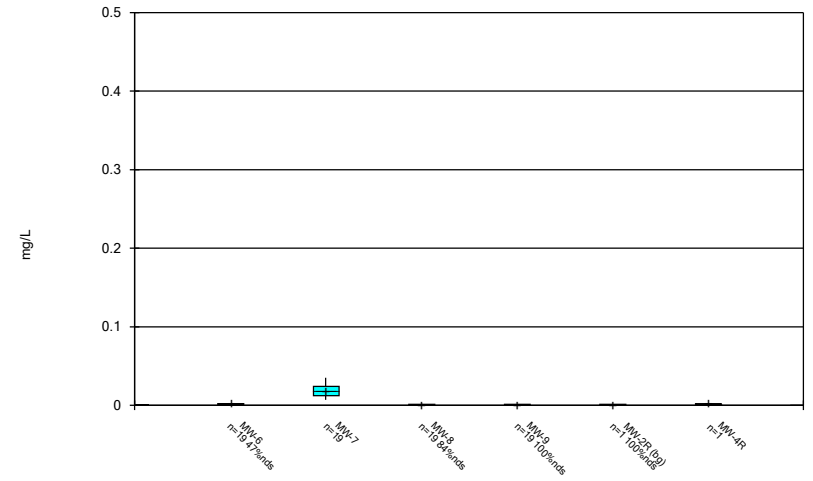
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Box & Whiskers Plot



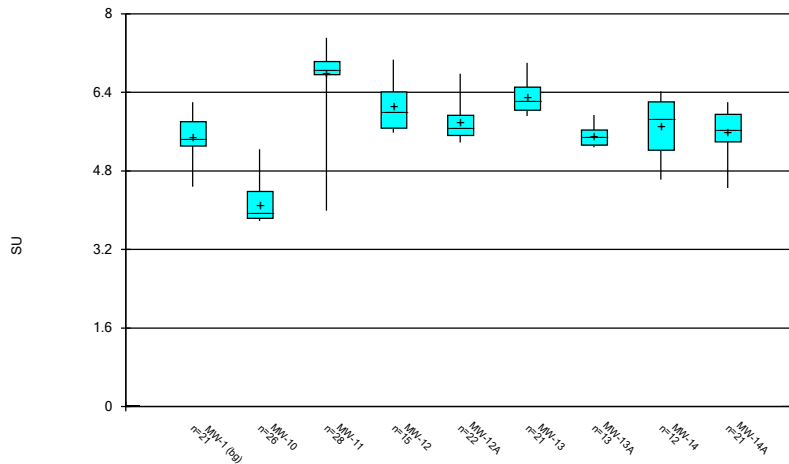
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Box & Whiskers Plot



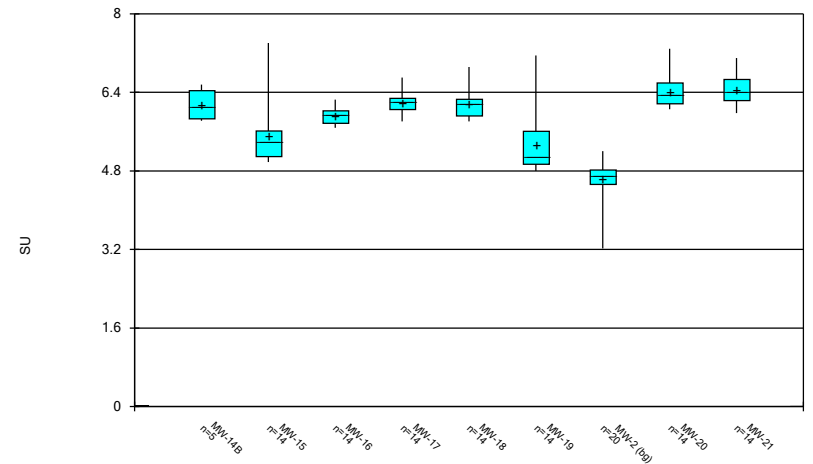
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Box & Whiskers Plot



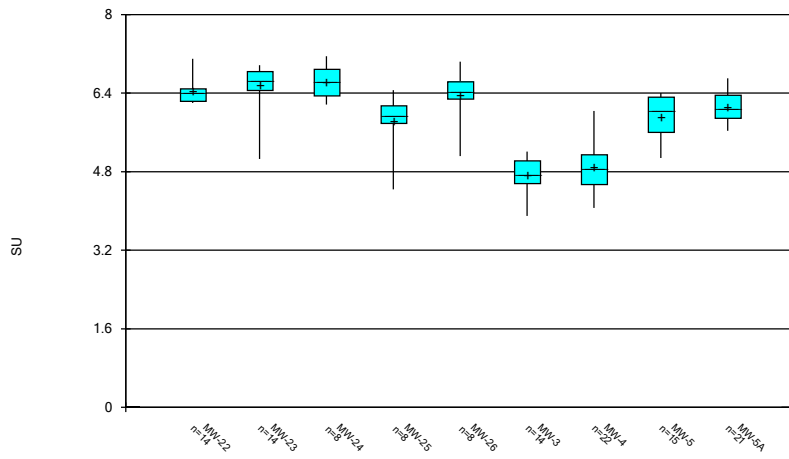
Constituent: pH, Field Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



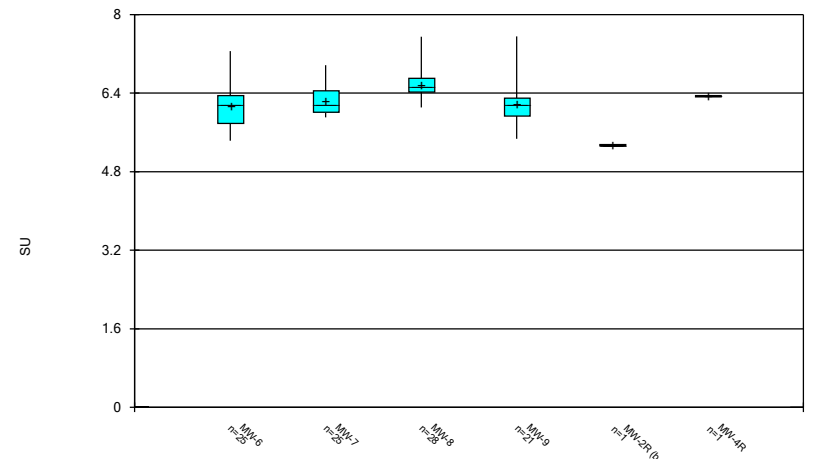
Constituent: pH, Field Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



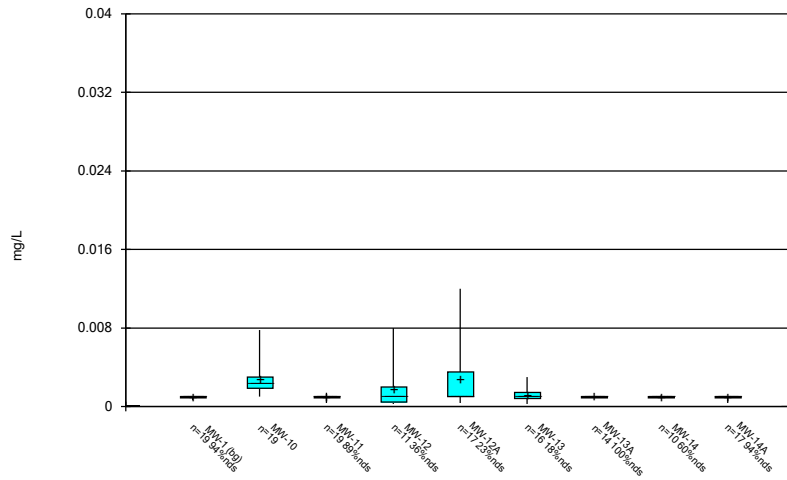
Constituent: pH, Field Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



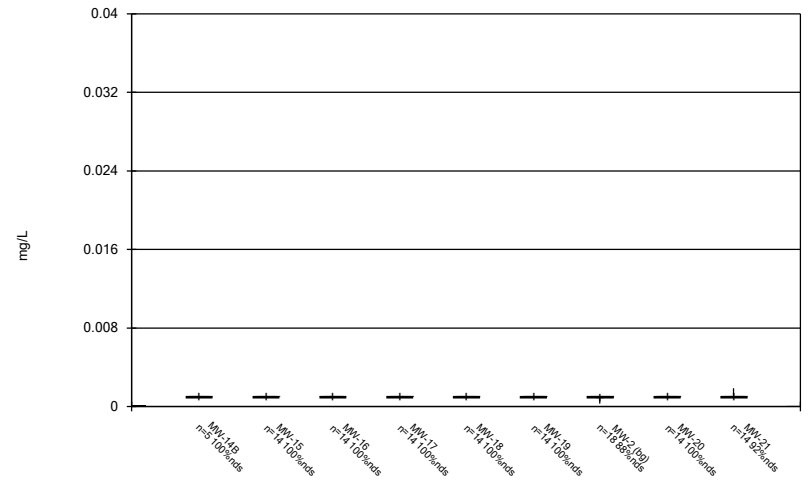
Constituent: pH, Field Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



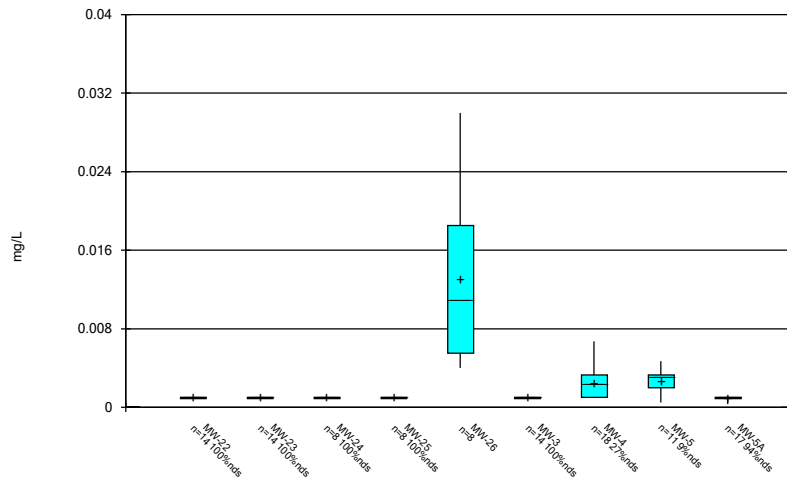
Constituent: Selenium Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



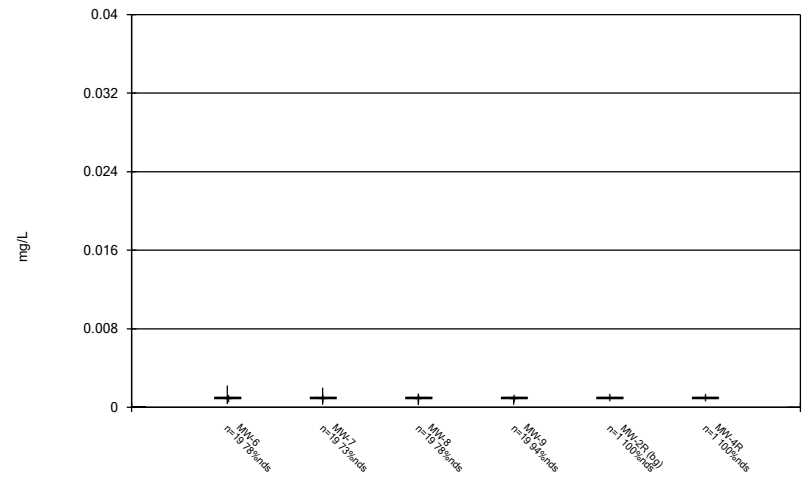
Constituent: Selenium Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



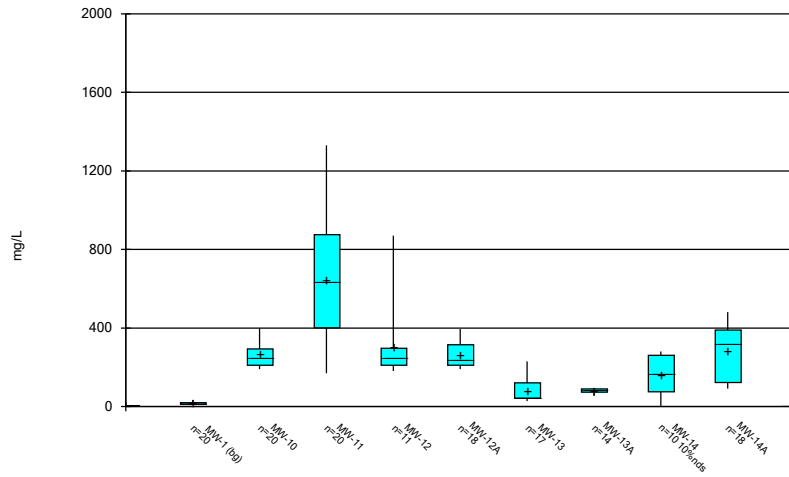
Constituent: Selenium Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



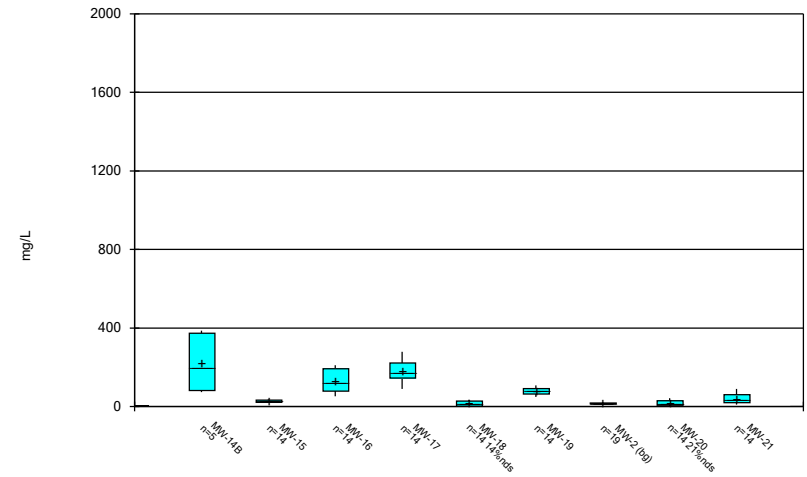
Constituent: Selenium Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



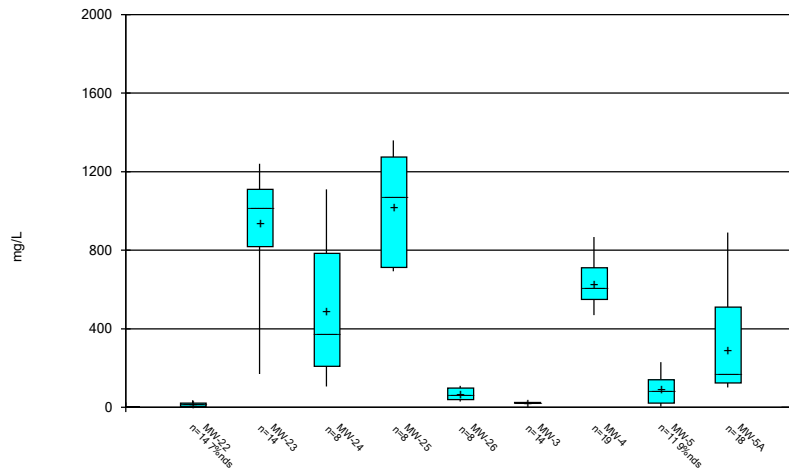
Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



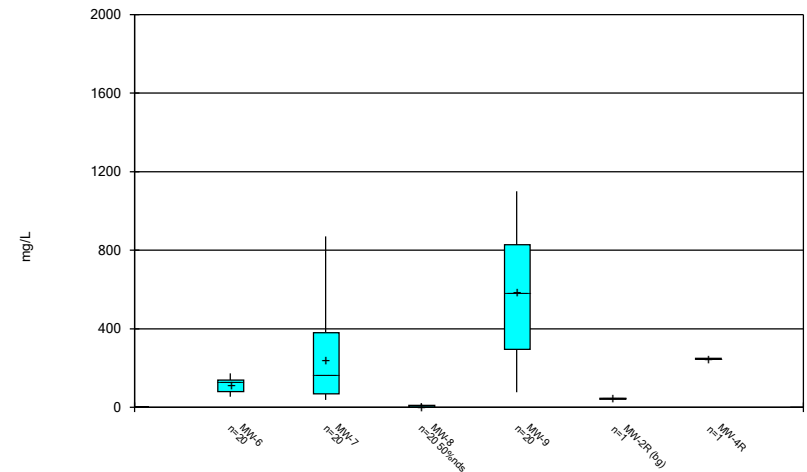
Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



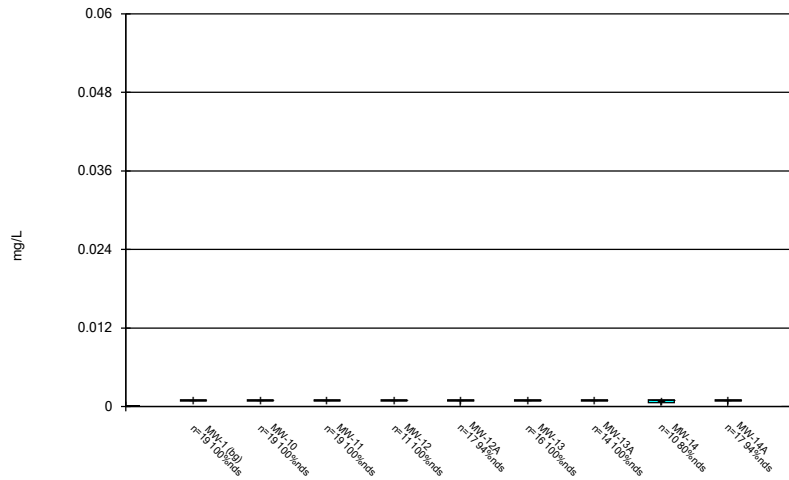
Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



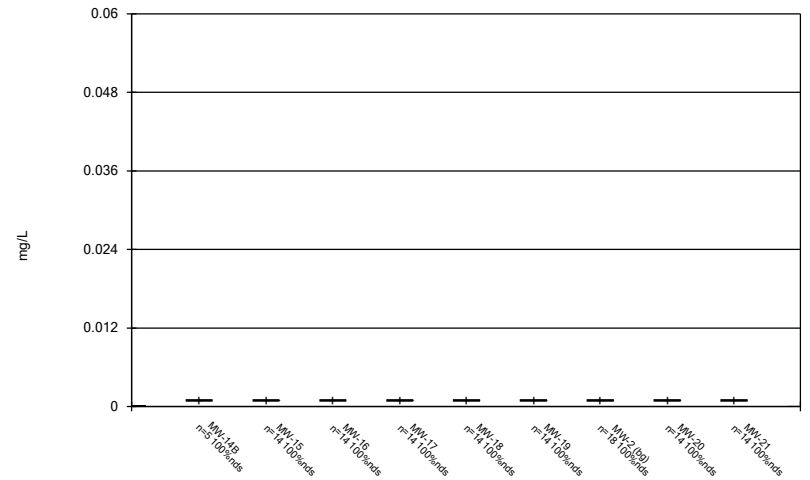
Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



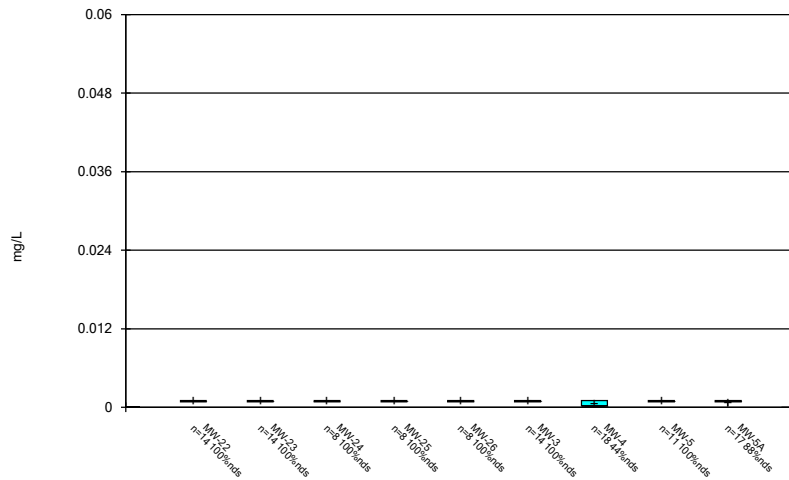
Constituent: Thallium Analysis Run 1/16/2024 7:00 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



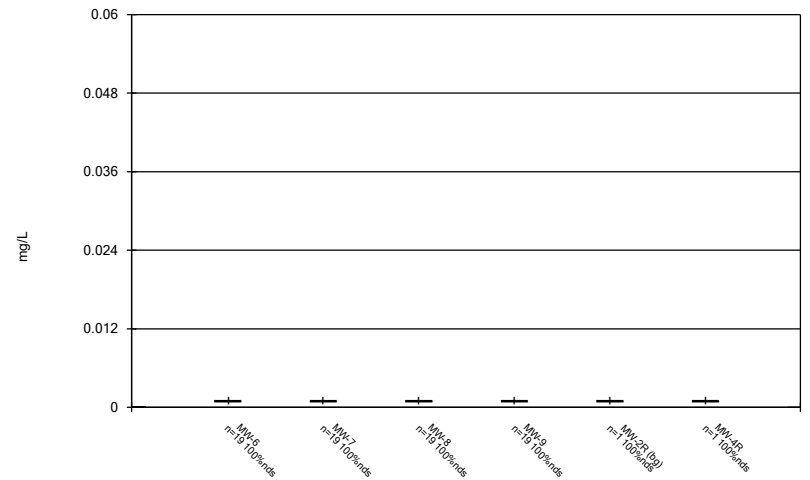
Constituent: Thallium Analysis Run 1/16/2024 7:00 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



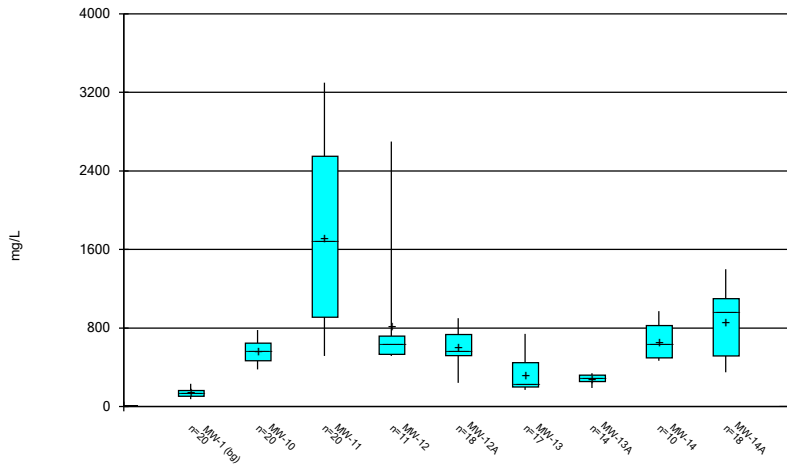
Constituent: Thallium Analysis Run 1/16/2024 7:00 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



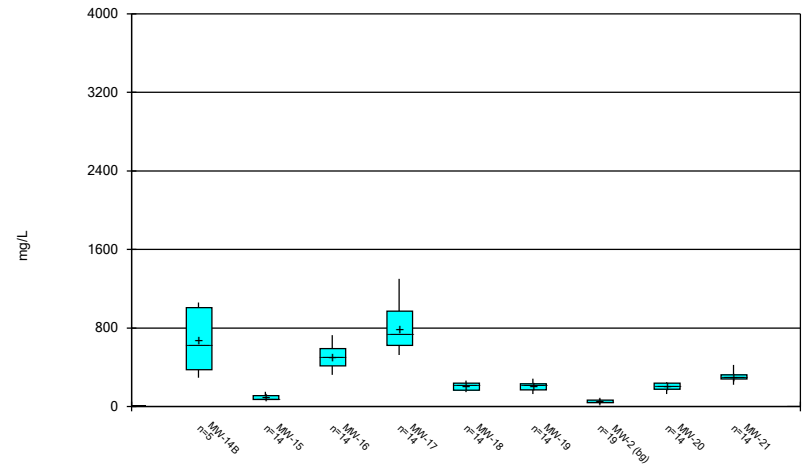
Constituent: Thallium Analysis Run 1/16/2024 7:00 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



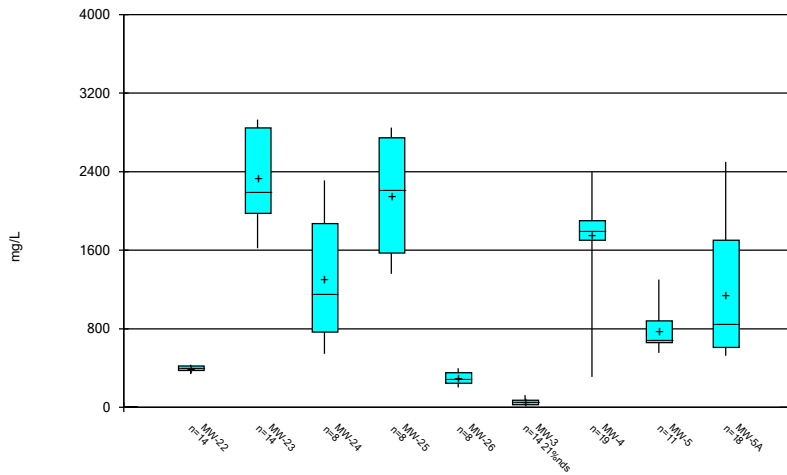
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



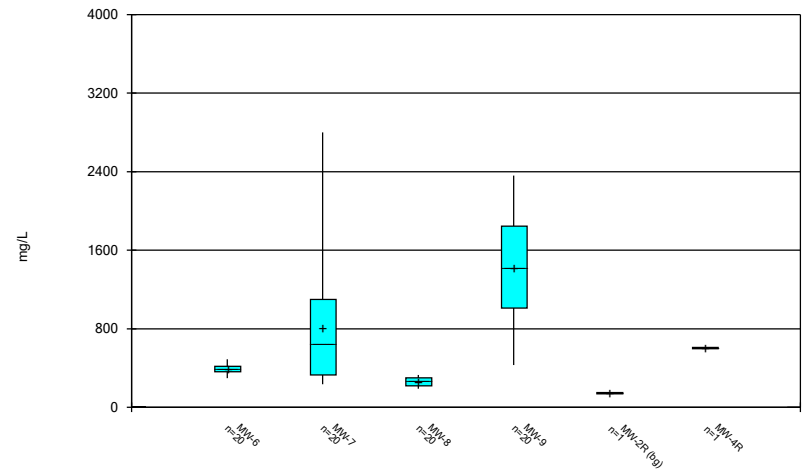
Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:00 PM View: Descriptive
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Figure C. Outlier Summary

Outlier Summary

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 1/16/2024, 6:58 PM

No values were flagged as outliers.

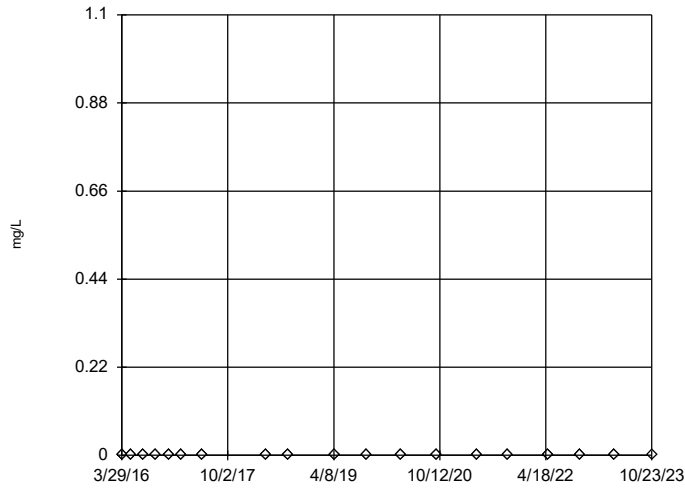
Outlier Summary (Upgradient Wells) - All Results (No Significant)

Lowman Power Plant Data: Lowman Power Plant Printed 1/23/2024, 11:42 AM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	MW-1,MW-2	n/a	n/a	NP	NaN	37	0.001	0	unknown	ShapiroWilk
Arsenic (mg/L)	MW-1,MW-2	No	n/a	NP	NaN	37	0.00128	0.0005742	ln(x)	ShapiroWilk
Barium, Total (mg/L)	MW-1,MW-2	No	n/a	NP	NaN	37	0.09545	0.02835	ln(x)	ShapiroWilk
Beryllium (mg/L)	MW-1,MW-2	n/a	n/a	NP	NaN	37	0.0009402	0.0002079	unknown	ShapiroWilk
Boron, total (mg/L)	MW-1,MW-2	No	n/a	NP	NaN	39	0.03447	0.01629	ln(x)	ShapiroWilk
Cadmium (mg/L)	MW-1,MW-2	n/a	n/a	NP	NaN	37	0.001	0	unknown	ShapiroWilk
Calcium, total (mg/L)	MW-1,MW-2	No	n/a	NP	NaN	39	15.89	13.33	x^2	ShapiroWilk
Chloride, Total (mg/L)	MW-1,MW-2	No	n/a	NP	NaN	39	1.916	0.9086	x^(1/3)	ShapiroWilk
Chromium (mg/L)	MW-1,MW-2	n/a	n/a	NP	NaN	37	0.001	0	unknown	ShapiroWilk
Cobalt (mg/L)	MW-1,MW-2	No	n/a	NP	NaN	37	0.009458	0.001857	x^2	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	MW-1,MW-2	No	n/a	NP	NaN	39	0.5793	0.343	normal	ShapiroWilk
Fluoride, total (mg/L)	MW-1,MW-2	No	n/a	NP	NaN	39	0.1079	0.03418	x^3	ShapiroWilk
Lead (mg/L)	MW-1,MW-2	n/a	n/a	NP	NaN	37	0.001	0	unknown	ShapiroWilk
Lithium (mg/L)	MW-1,MW-2	n/a	n/a	NP	NaN	38	0.003653	0.0007173	unknown	ShapiroWilk
Mercury (mg/L)	MW-1,MW-2	n/a	n/a	NP	NaN	37	0.0001936	0.00002717	unknown	ShapiroWilk
Molybdenum (mg/L)	MW-1,MW-2	n/a	n/a	NP	NaN	37	0.0009968	0.00001973	unknown	ShapiroWilk
pH, Field (SU)	MW-1,MW-2	No	n/a	NP	NaN	41	5.067	0.5877	x^2	ShapiroWilk
Selenium (mg/L)	MW-1,MW-2	n/a	n/a	NP	NaN	37	0.0009527	0.0001683	unknown	ShapiroWilk
Sulfate as SO4 (mg/L)	MW-1,MW-2	No	n/a	NP	NaN	39	16.65	5.023	ln(x)	ShapiroWilk
Thallium (mg/L)	MW-1,MW-2	n/a	n/a	NP	NaN	37	0.001	0	unknown	ShapiroWilk
Total Dissolved Solids [TDS] (mg/L)	MW-1,MW-2	No	n/a	NP	NaN	39	95.65	55.1	ln(x)	ShapiroWilk

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

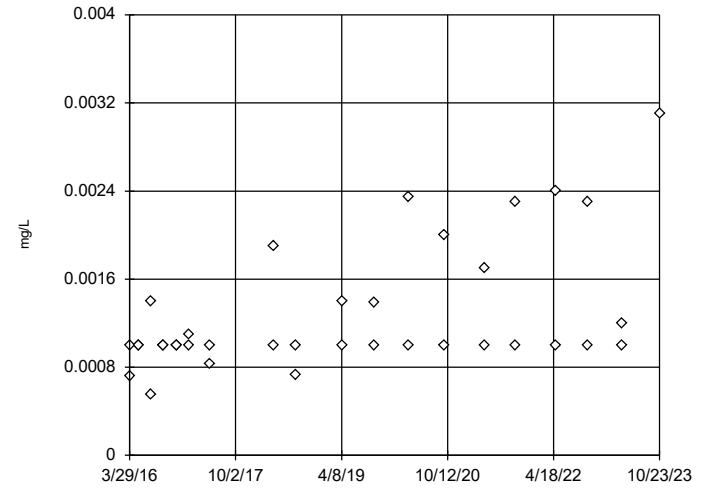


n = 37
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

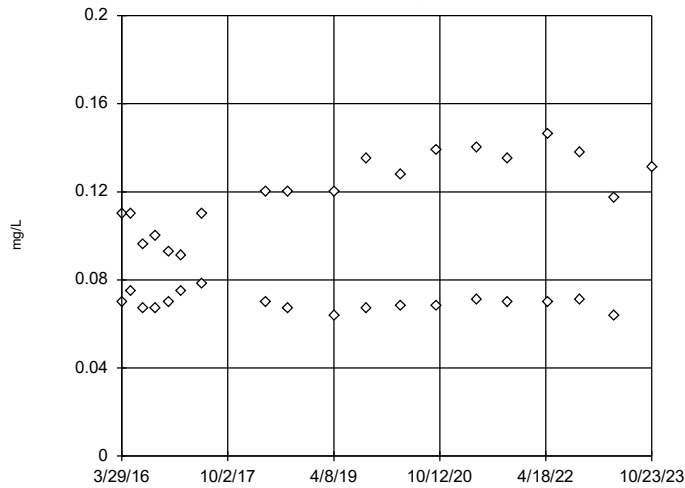


n = 37
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.003842,
 low cutoff = 0.0003644,
 based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

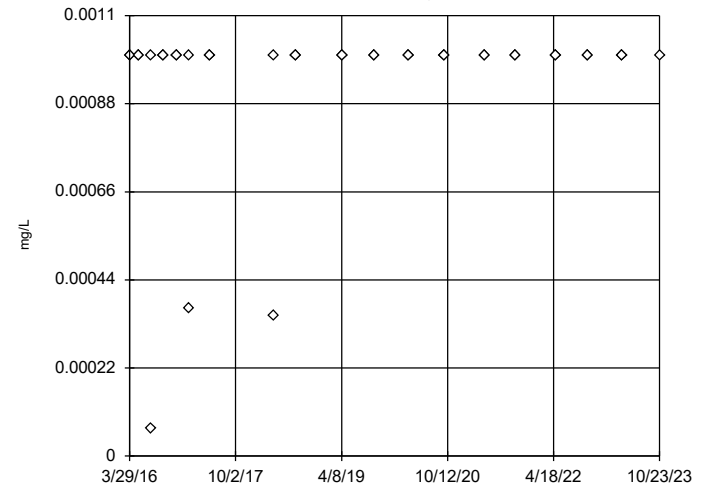


n = 37
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.6045,
 low cutoff = 0.01389,
 based on IQR multiplier of 3.

Constituent: Barium, Total Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

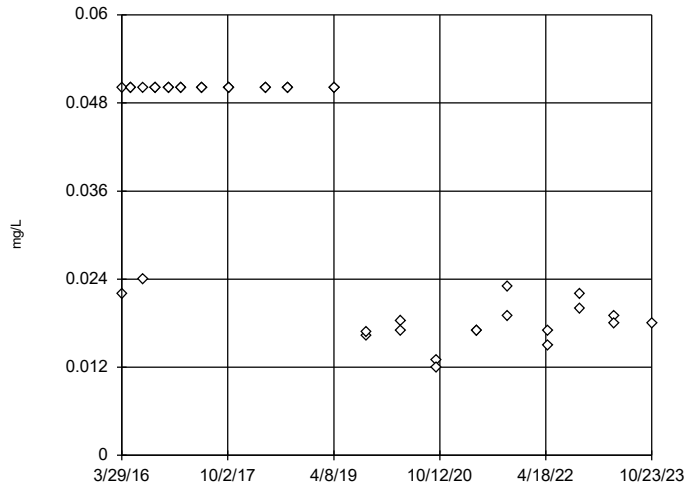


n = 37
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

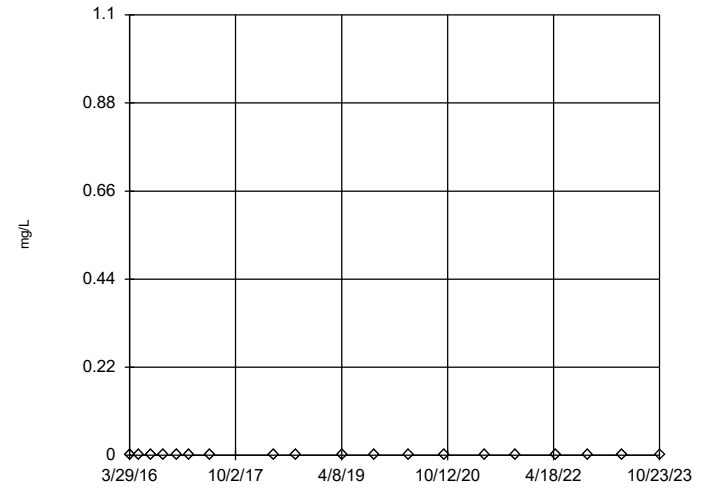


n = 39
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 1.072, low cutoff = 0.0008398, based on IQR multiplier of 3.

Constituent: Boron, total Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

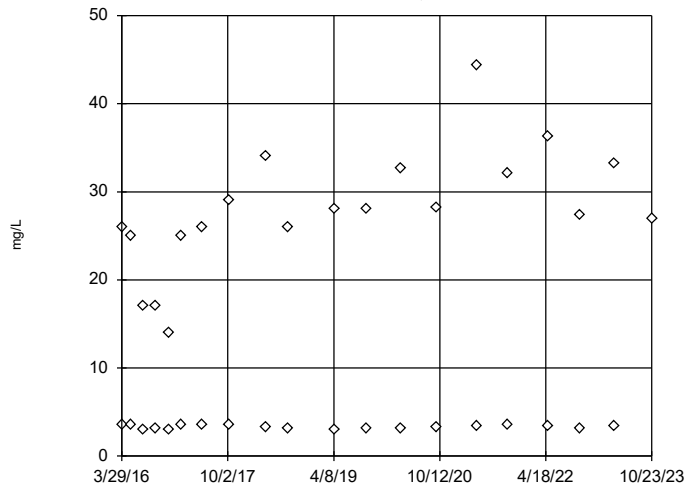


n = 37
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

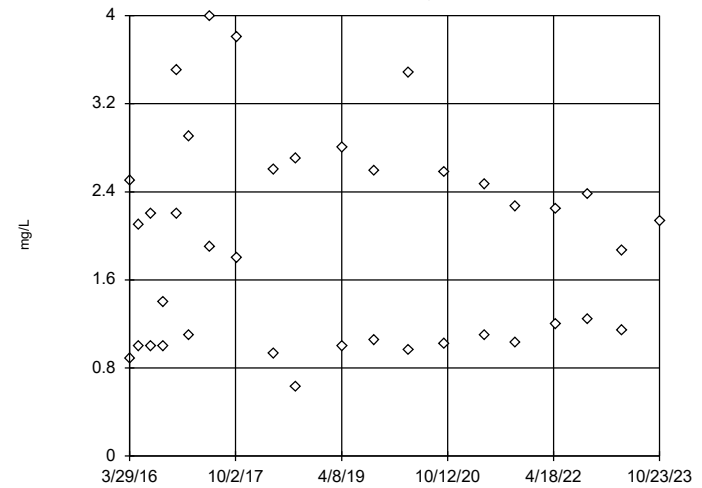


n = 39
 No outliers found.
 Tukey's method selected by user.
 Data were square transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 55.7, low cutoff = 48.04, based on IQR multiplier of 3.

Constituent: Calcium, total Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

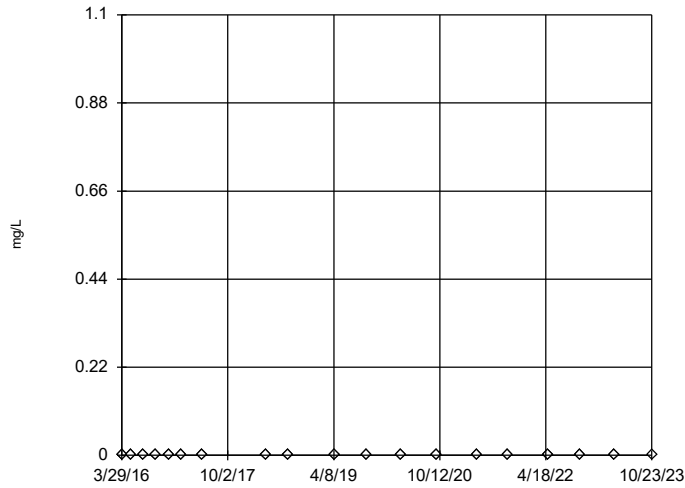


n = 39
 No outliers found.
 Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 14.82, low cutoff = -0.0004218, based on IQR multiplier of 3.

Constituent: Chloride, Total Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

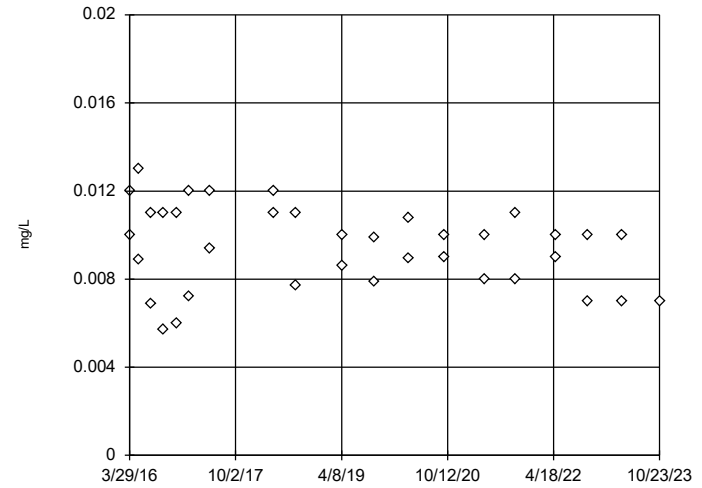


n = 37
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

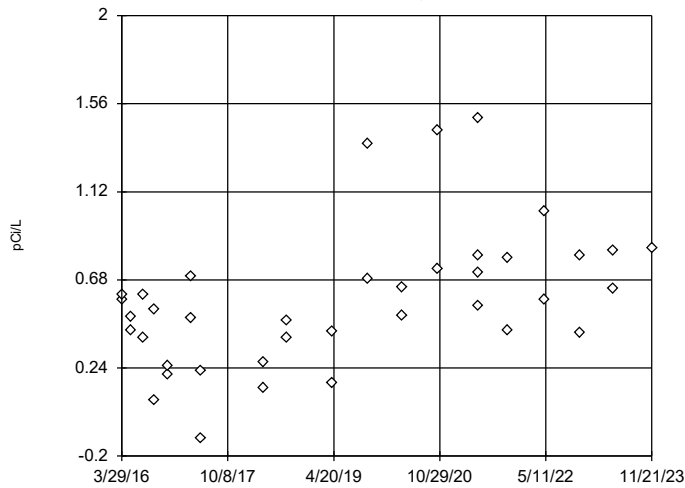


n = 37
 No outliers found.
 Tukey's method selected by user.
 Data were square transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.01716, low cutoff = -0.0105, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

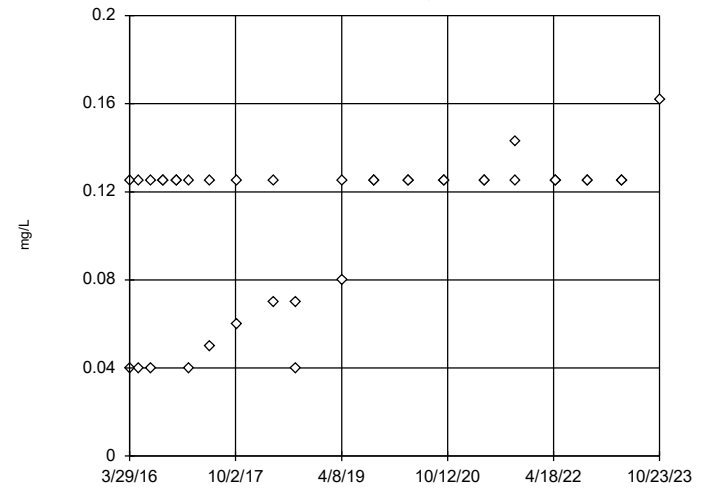


n = 39
 No outliers found.
 Tukey's method selected by user.
 Ladder of Powers transformations did not improve normality; analysis run on raw data.
 High cutoff = 1.761, low cutoff = -0.633, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

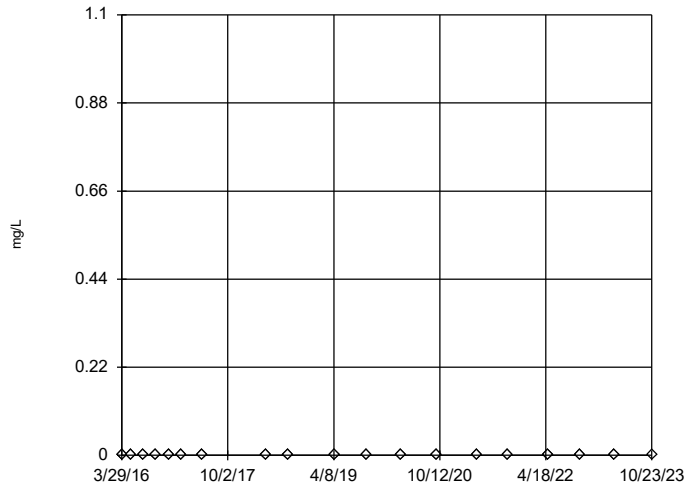


n = 39
 No outliers found.
 Tukey's method selected by user.
 Data were cube transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 0.1845, low cutoff = -0.1562, based on IQR multiplier of 3.

Constituent: Fluoride, total Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

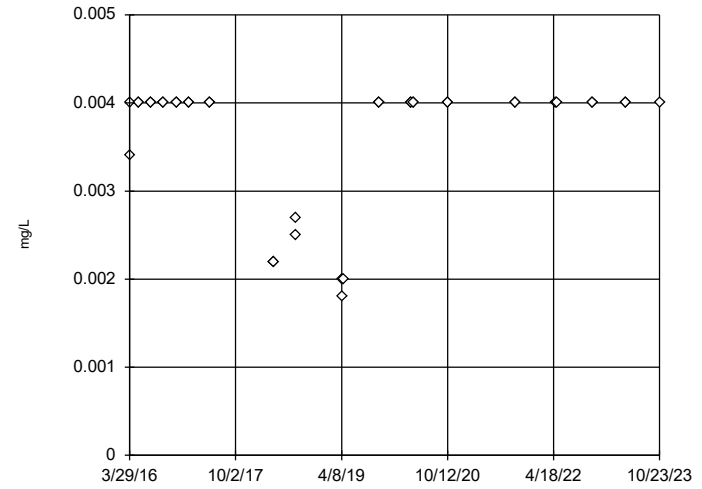


n = 37
 No outliers found. Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

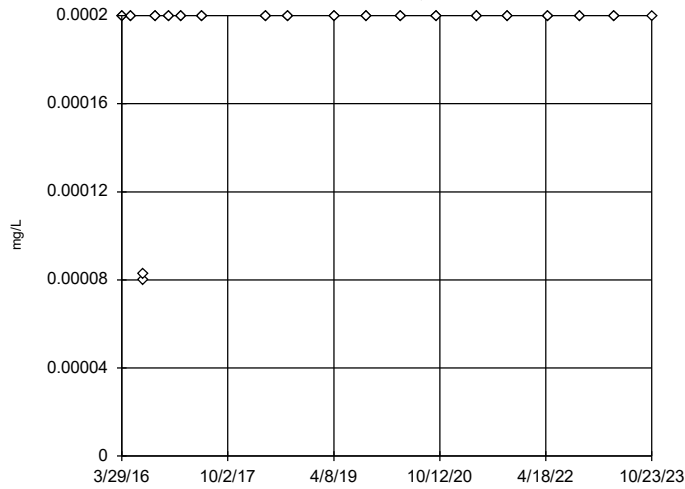


n = 38
 No outliers found. Tukey's method selected by user.
 Data were cube root transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

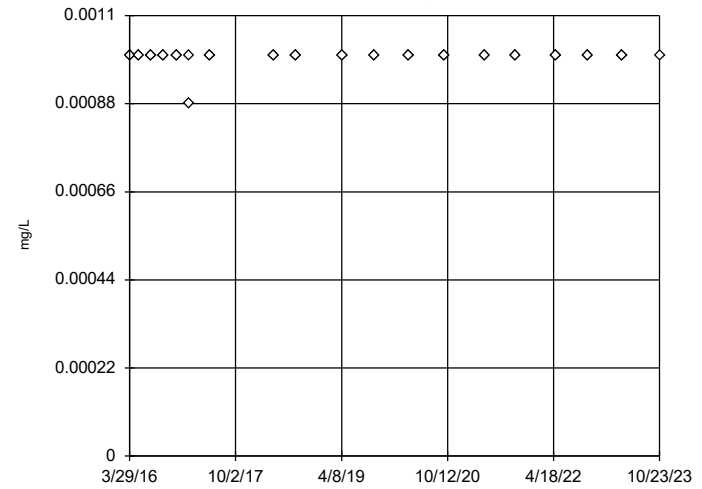


n = 37
 No outliers found. Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

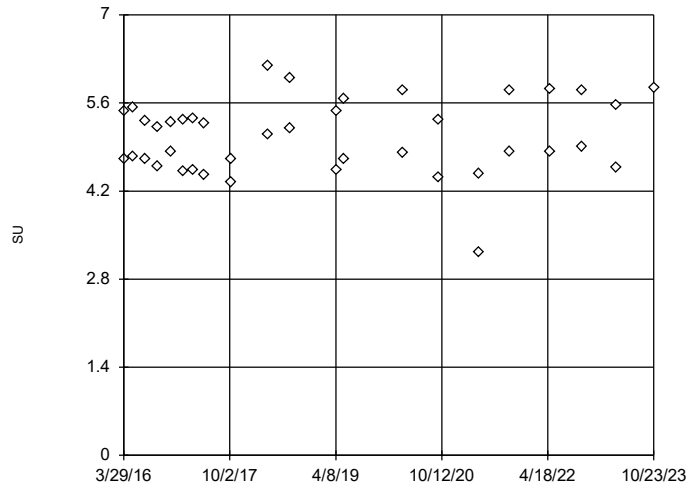


n = 37
 No outliers found. Tukey's method selected by user.
 Data were square transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

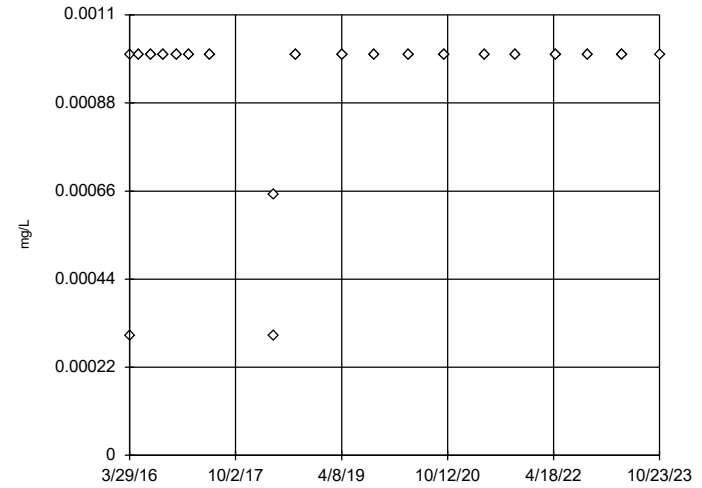


n = 41
 No outliers found.
 Tukey's method selected by user.
 Data were square transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 7.472, low cutoff = -2.027, based on IQR multiplier of 3.

Constituent: pH, Field Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

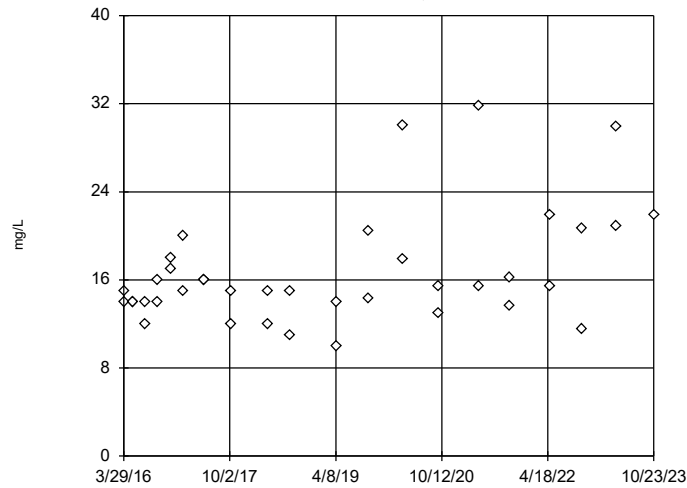


n = 37
 No outliers found.
 Tukey's method selected by user.
 Data were cube transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

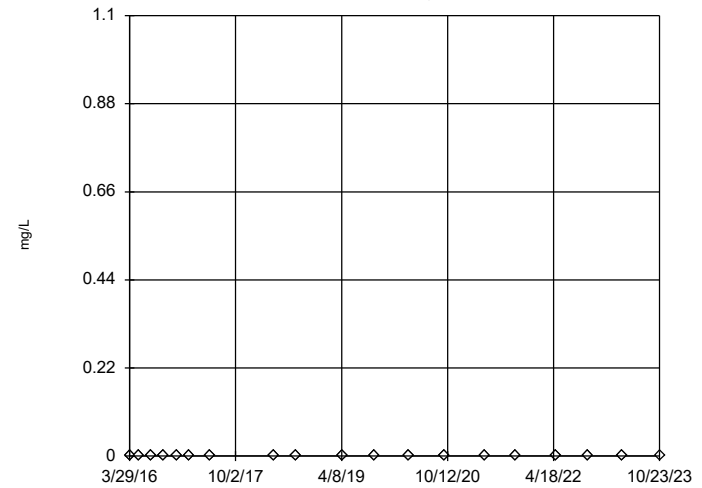


n = 39
 No outliers found.
 Tukey's method selected by user.
 Data were natural log transformed to achieve best W statistic (graph shown in original units).
 High cutoff = 38.26, low cutoff = 6.587, based on IQR multiplier of 3.

Constituent: Sulfate as SO4 Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2

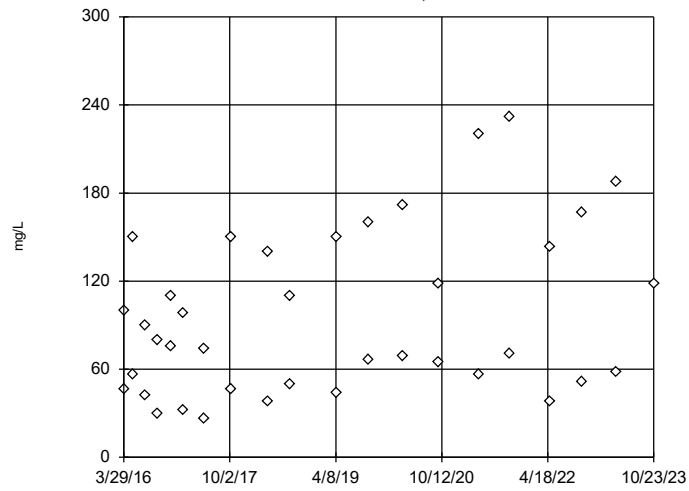


n = 37
 No outliers found.
 Tukey's method selected by user.
 Data were square root transformed to achieve best W statistic (graph shown in original units).
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 1/23/2024 11:33 AM View: Tukey's
 Lowman Power Plant Data: Lowman Power Plant

Tukey's Outlier Screening, Pooled Background

MW-1,MW-2



n = 39

No outliers found.
Tukey's method selected by user.

Data were natural log transformed to achieve best W statistic (graph shown in original units).

High cutoff = 3345, low cutoff = 2.137, based on IQR multiplier of 3.

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/23/2024 11:33 AM View: Tukey's

Lowman Power Plant Data: Lowman Power Plant

Figure D. Trend Tests - Upgradient Wells

Trend Tests (Upgradient Wells) - Significant Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/23/2024, 12:54 PM

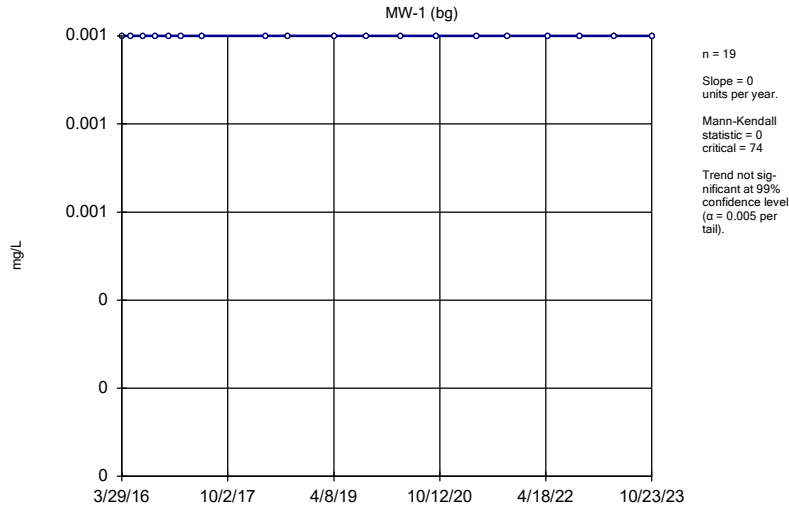
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	MW-1 (bg)	0.0001861	82	74	Yes	19	15.79	n/a	n/a	0.01	NP
Barium, Total (mg/L)	MW-1 (bg)	0.005196	94	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-1 (bg)	1.397	91	81	Yes	20	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-2 (bg)	-0.0002491	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1 (bg)	0.01377	117	81	Yes	20	45	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-2 (bg)	0.6305	87	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1 (bg)	11.66	87	81	Yes	20	0	n/a	n/a	0.01	NP

Trend Tests (Upgradient Wells) - All Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/23/2024, 12:54 PM

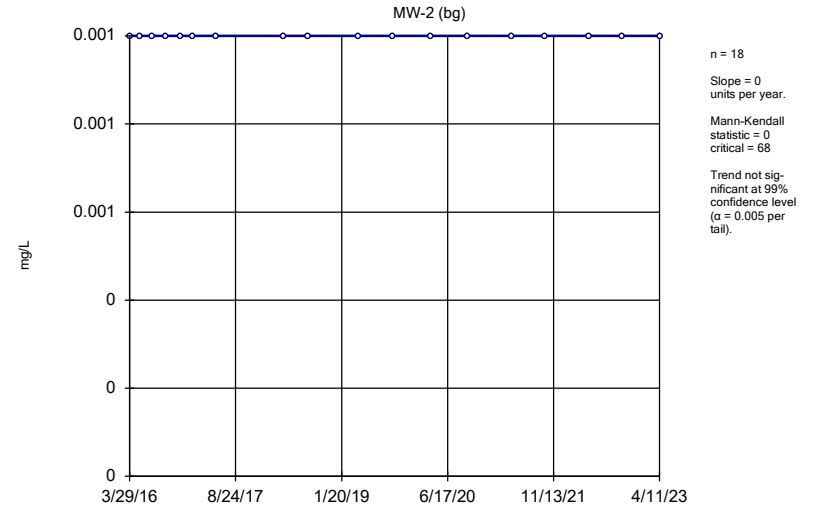
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Antimony (mg/L)	MW-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Antimony (mg/L)	MW-2 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Arsenic (mg/L)	MW-1 (bg)	0.0001861	82	74	Yes	19	15.79	n/a	n/a	0.01	NP
Arsenic (mg/L)	MW-2 (bg)	0	13	68	No	18	94.44	n/a	n/a	0.01	NP
Barium, Total (mg/L)	MW-1 (bg)	0.005196	94	74	Yes	19	0	n/a	n/a	0.01	NP
Barium, Total (mg/L)	MW-2 (bg)	0	-10	-68	No	18	0	n/a	n/a	0.01	NP
Beryllium (mg/L)	MW-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	MW-2 (bg)	0	24	68	No	18	83.33	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-1 (bg)	-0.004049	-81	-81	No	20	50	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-2 (bg)	-0.00149	-67	-74	No	19	52.63	n/a	n/a	0.01	NP
Cadmium (mg/L)	MW-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	MW-2 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-1 (bg)	1.397	91	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-2 (bg)	0	-8	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-1 (bg)	-0.08531	-48	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-2 (bg)	-0.1119	-28	-74	No	19	21.05	n/a	n/a	0.01	NP
Chromium (mg/L)	MW-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Chromium (mg/L)	MW-2 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-1 (bg)	-0.00003229	-8	-74	No	19	0	n/a	n/a	0.01	NP
Cobalt (mg/L)	MW-2 (bg)	-0.0002491	-78	-68	Yes	18	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	MW-1 (bg)	0.05266	66	81	No	20	0	n/a	n/a	0.01	NP
Combined Radium 226 + 228 (pCi/L)	MW-2 (bg)	0.04616	51	74	No	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1 (bg)	0.01377	117	81	Yes	20	45	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-2 (bg)	0	0	74	No	19	94.74	n/a	n/a	0.01	NP
Lead (mg/L)	MW-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Lead (mg/L)	MW-2 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Lithium (mg/L)	MW-1 (bg)	0	5	74	No	19	84.21	n/a	n/a	0.01	NP
Lithium (mg/L)	MW-2 (bg)	0	15	74	No	19	73.68	n/a	n/a	0.01	NP
Mercury (mg/L)	MW-1 (bg)	0	14	74	No	19	94.74	n/a	n/a	0.01	NP
Mercury (mg/L)	MW-2 (bg)	0	13	68	No	18	94.44	n/a	n/a	0.01	NP
Molybdenum (mg/L)	MW-1 (bg)	0	8	74	No	19	94.74	n/a	n/a	0.01	NP
Molybdenum (mg/L)	MW-2 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
pH, Field (SU)	MW-1 (bg)	0.05343	60	87	No	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-2 (bg)	0.005783	9	81	No	20	0	n/a	n/a	0.01	NP
Selenium (mg/L)	MW-1 (bg)	0	4	74	No	19	94.74	n/a	n/a	0.01	NP
Selenium (mg/L)	MW-2 (bg)	0	20	68	No	18	88.89	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-1 (bg)	0.3046	20	81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-2 (bg)	0.6305	87	74	Yes	19	0	n/a	n/a	0.01	NP
Thallium (mg/L)	MW-1 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Thallium (mg/L)	MW-2 (bg)	0	0	68	No	18	100	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1 (bg)	11.66	87	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-2 (bg)	2.386	41	74	No	19	0	n/a	n/a	0.01	NP

Sen's Slope Estimator



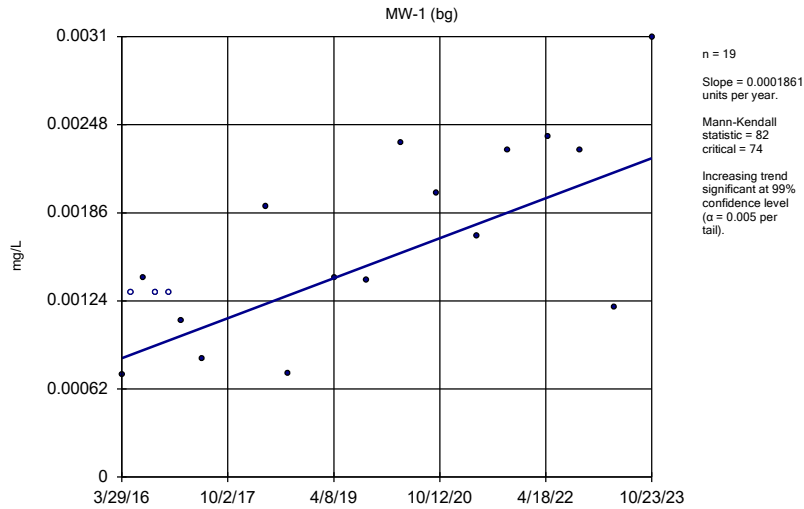
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Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator



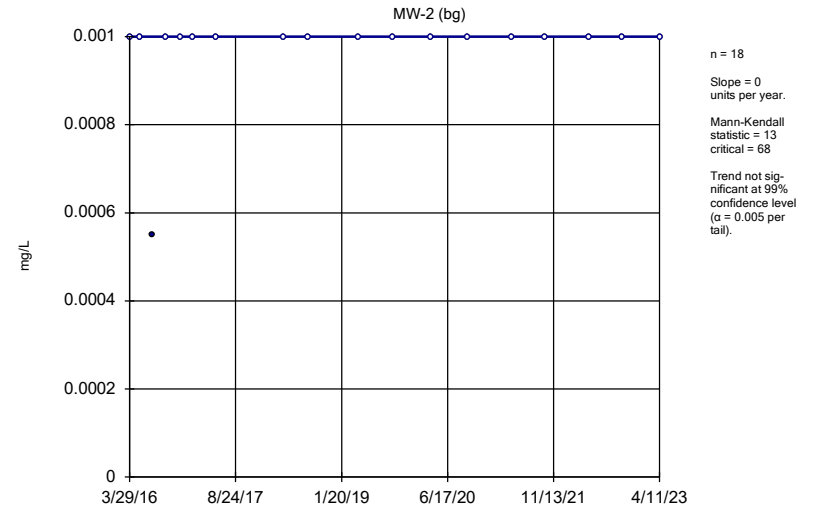
Constituent: Antimony Analysis Run 1/23/2024 12:48 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator



Constituent: Arsenic Analysis Run 1/23/2024 12:48 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

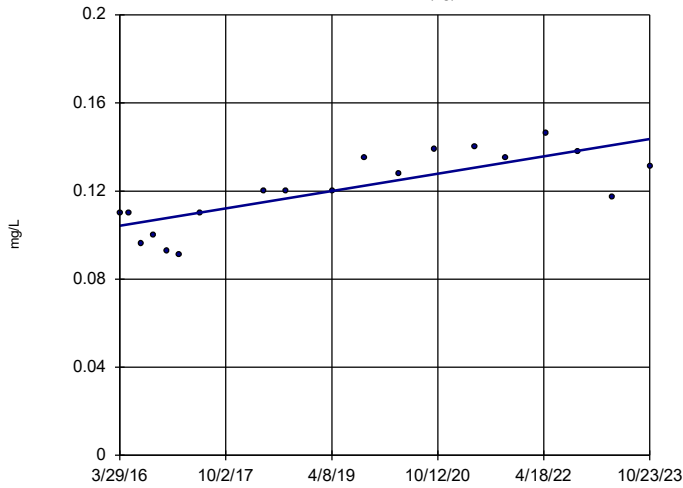
Sen's Slope Estimator



Constituent: Arsenic Analysis Run 1/23/2024 12:48 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-1 (bg)

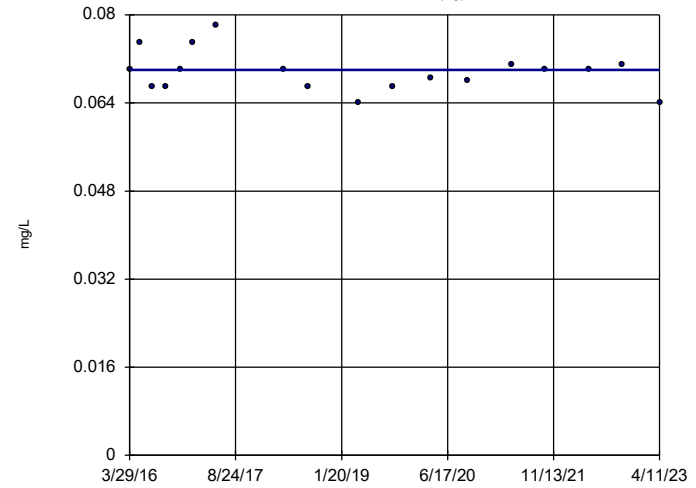


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 units per year.
 Mann-Kendall
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 critical = 74
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Barium, Total Analysis Run 1/23/2024 12:48 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-2 (bg)

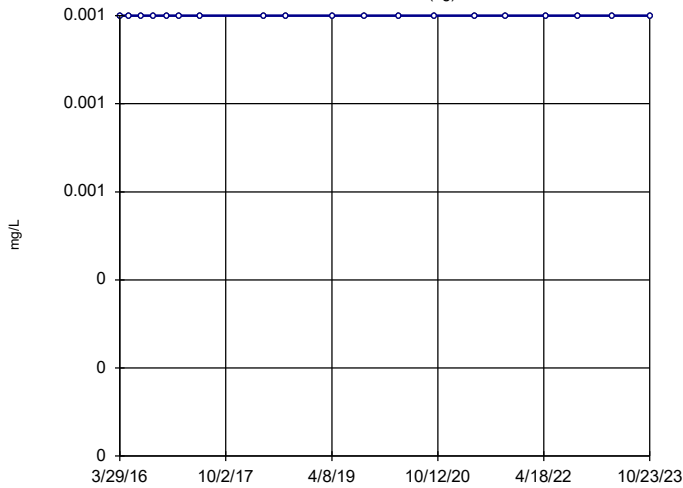


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 units per year.
 Mann-Kendall
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 critical = -68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Barium, Total Analysis Run 1/23/2024 12:48 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-1 (bg)

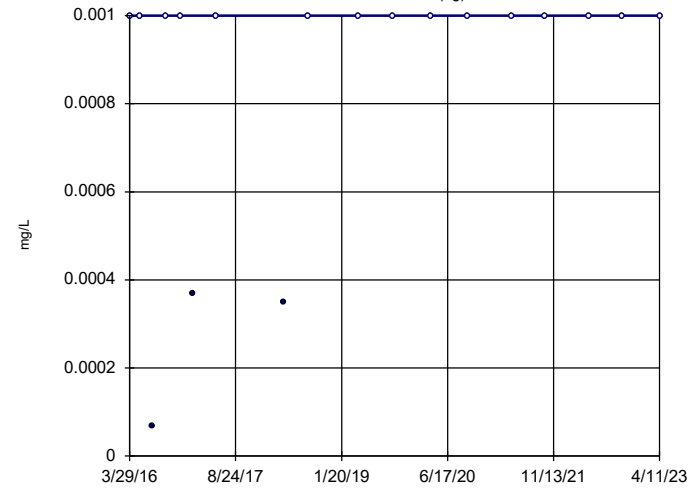


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 Slope = 0
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 Mann-Kendall
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 critical = 74
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 confidence level
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Constituent: Beryllium Analysis Run 1/23/2024 12:48 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-2 (bg)

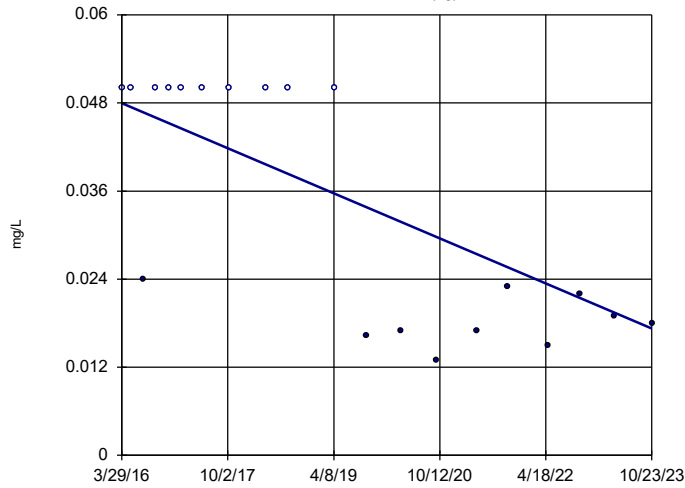


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 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 24
 critical = 68
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
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Constituent: Beryllium Analysis Run 1/23/2024 12:48 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

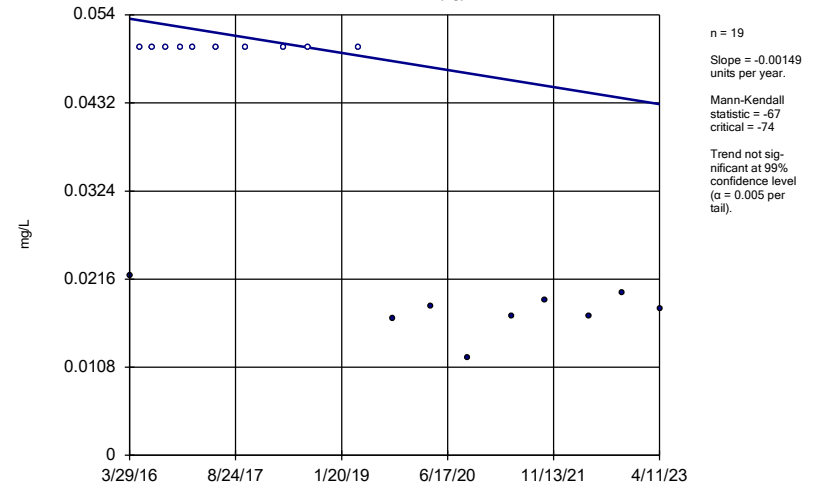
MW-1 (bg)



Constituent: Boron, total Analysis Run 1/23/2024 12:48 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

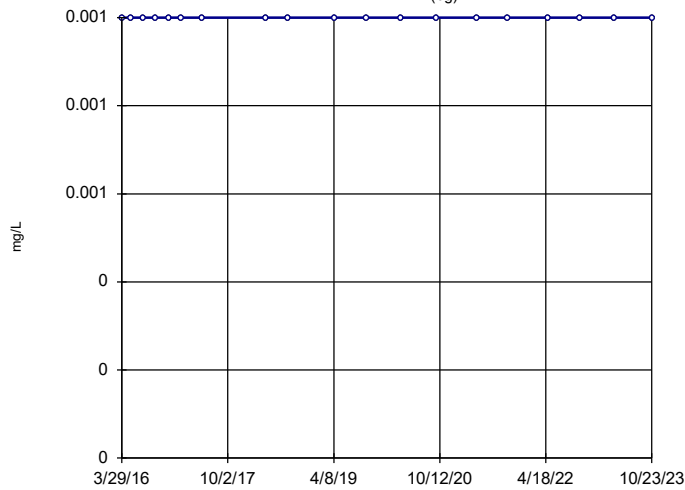
MW-2 (bg)



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Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

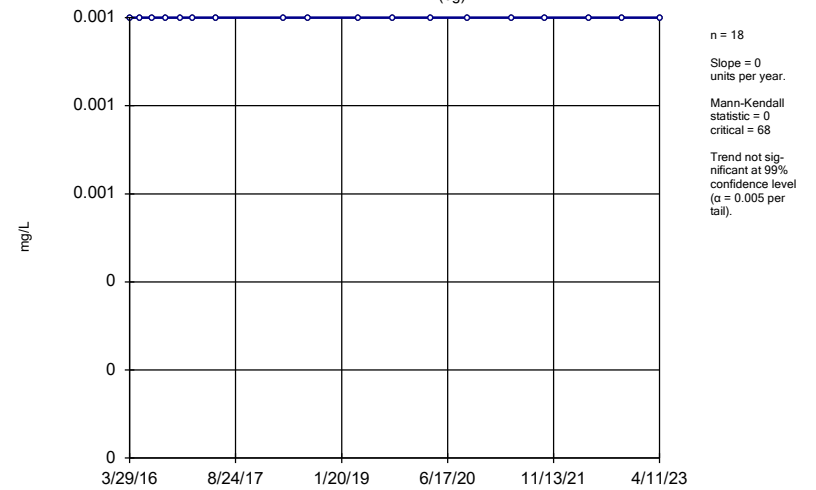
MW-1 (bg)



Constituent: Cadmium Analysis Run 1/23/2024 12:48 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

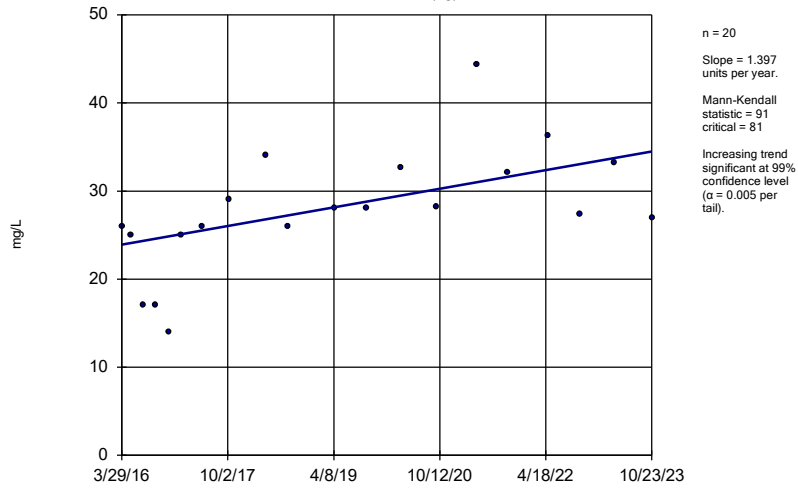
MW-2 (bg)



Constituent: Cadmium Analysis Run 1/23/2024 12:48 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

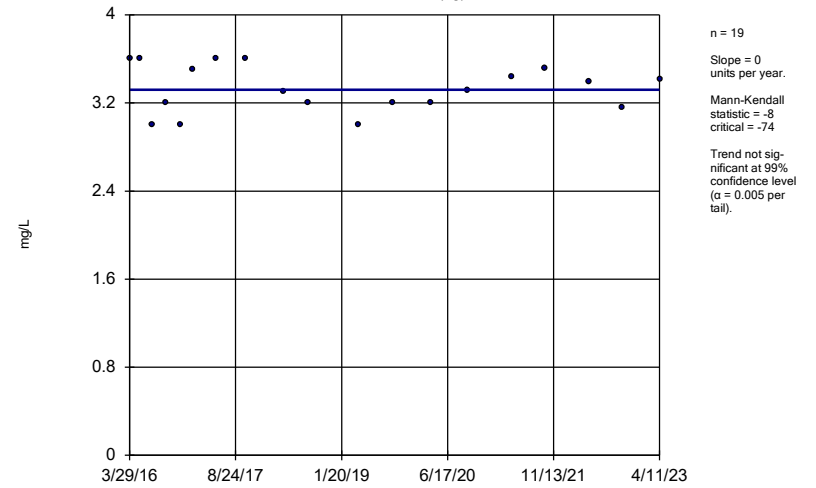
MW-1 (bg)



Constituent: Calcium, total Analysis Run 1/23/2024 12:48 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

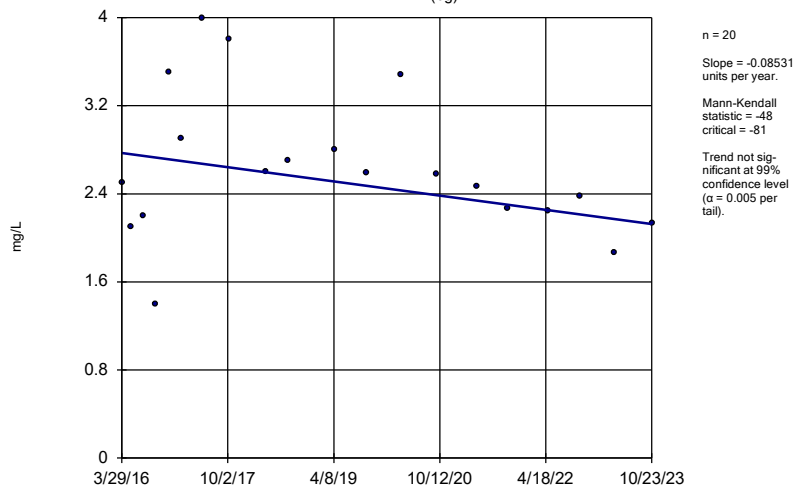
MW-2 (bg)



Constituent: Calcium, total Analysis Run 1/23/2024 12:48 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

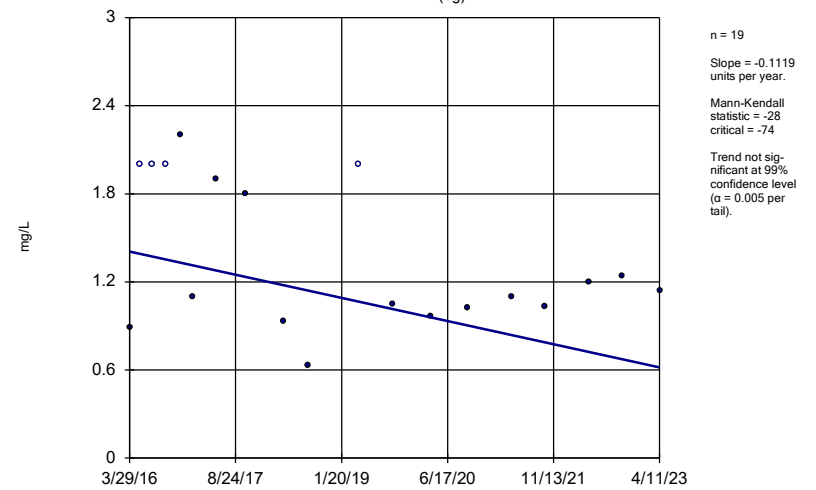
MW-1 (bg)



Constituent: Chloride, Total Analysis Run 1/23/2024 12:49 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

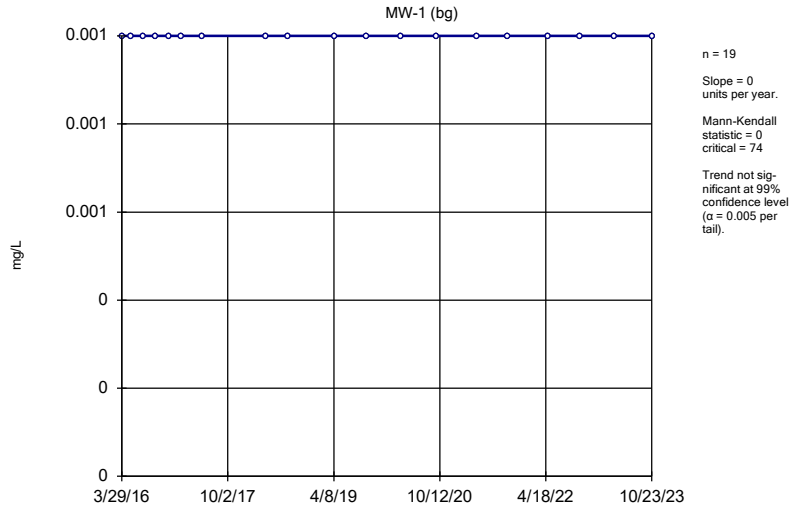
Sen's Slope Estimator

MW-2 (bg)



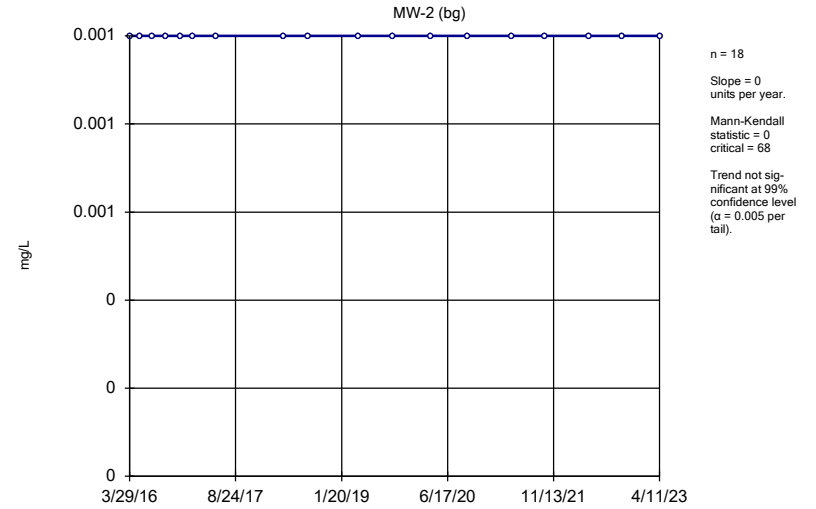
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 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator



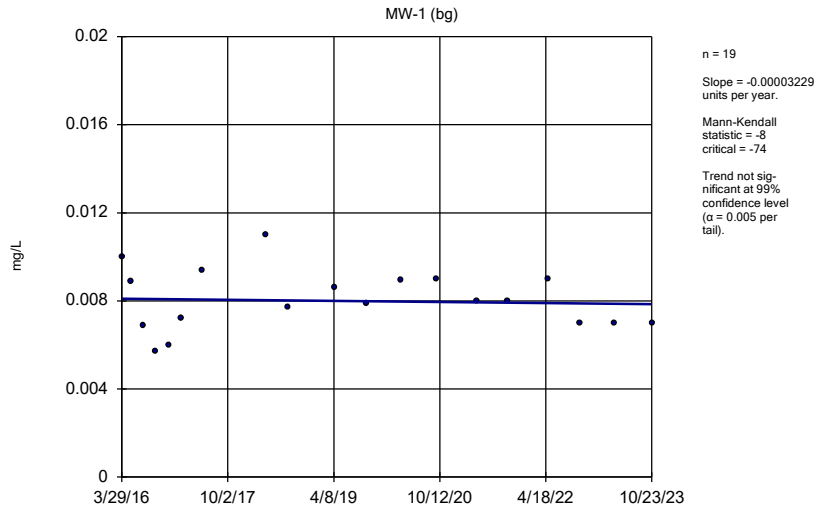
Constituent: Chromium Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator



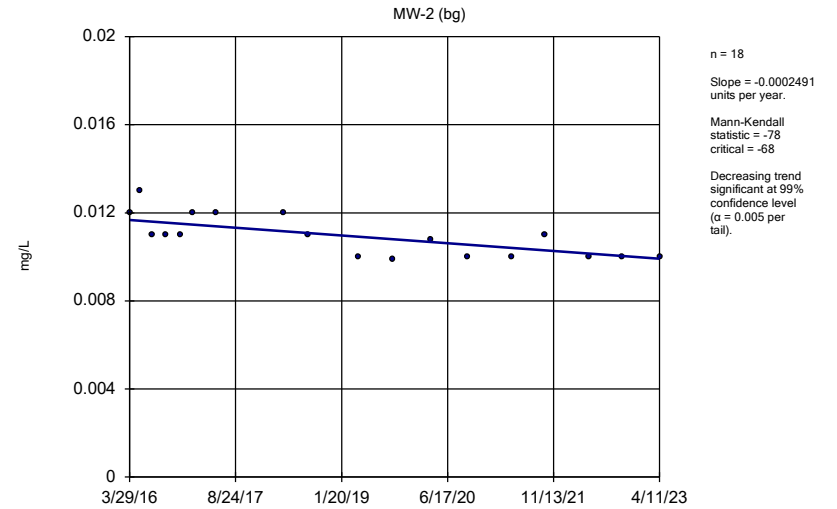
Constituent: Chromium Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator



Constituent: Cobalt Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

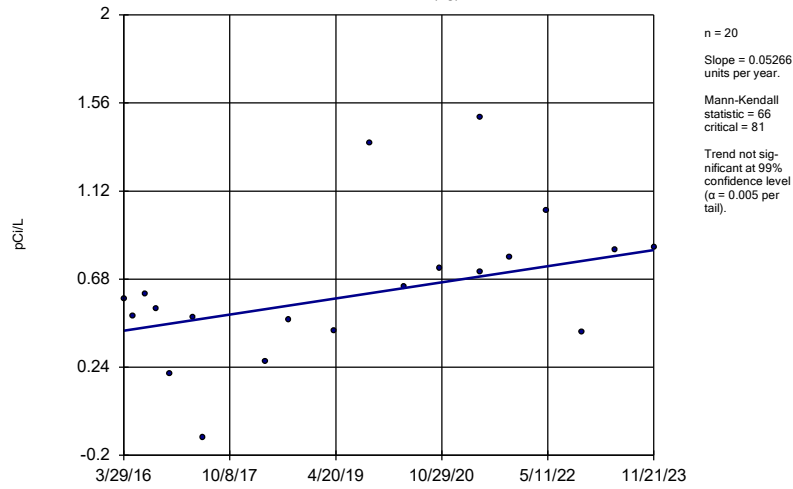
Sen's Slope Estimator



Constituent: Cobalt Analysis Run 1/23/2024 12:49 PM View: Trend Tests
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Sen's Slope Estimator

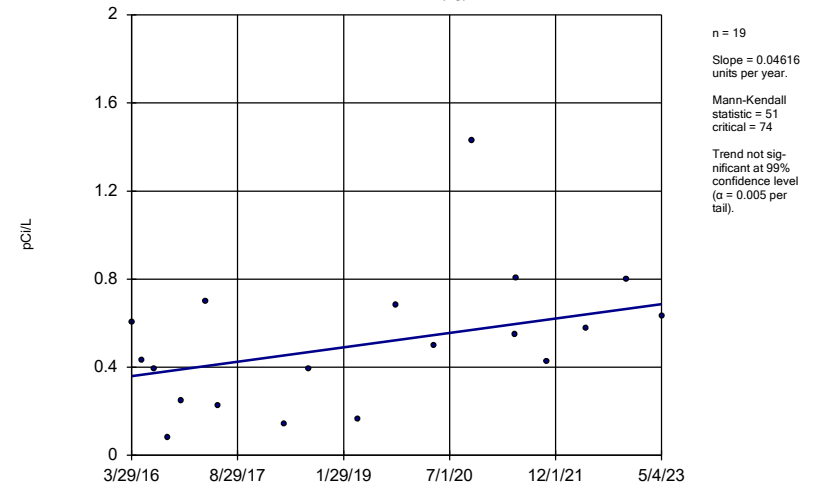
MW-1 (bg)



Constituent: Combined Radium 226 + 228 Analysis Run 1/23/2024 12:49 PM View: Trend Tests
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Sen's Slope Estimator

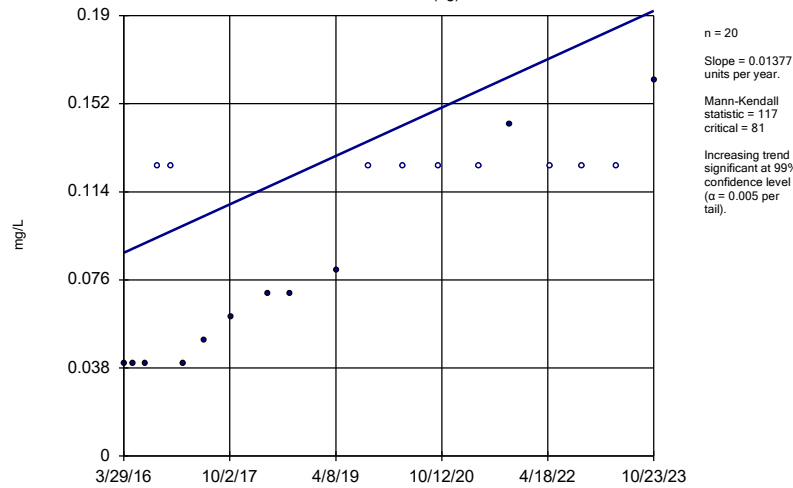
MW-2 (bg)



Constituent: Combined Radium 226 + 228 Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

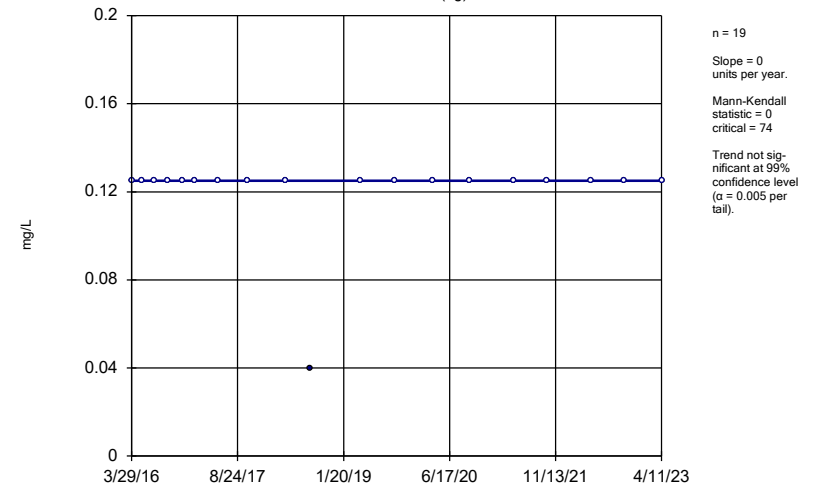
MW-1 (bg)



Constituent: Fluoride, total Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

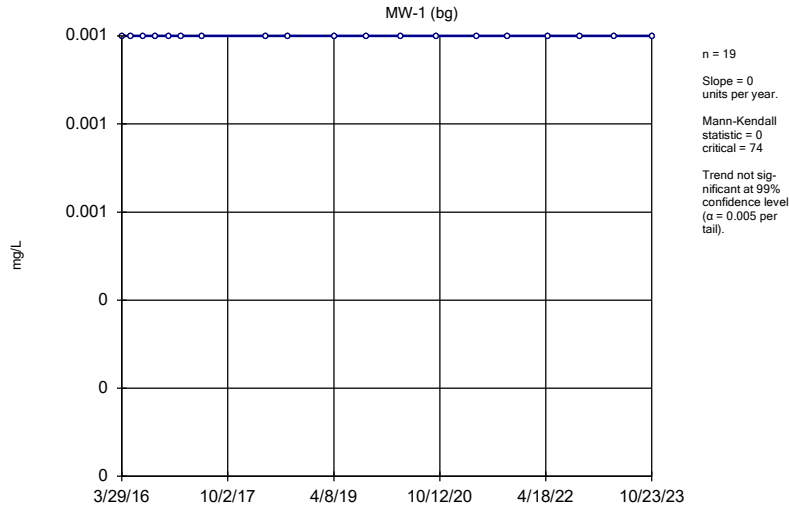
Sen's Slope Estimator

MW-2 (bg)



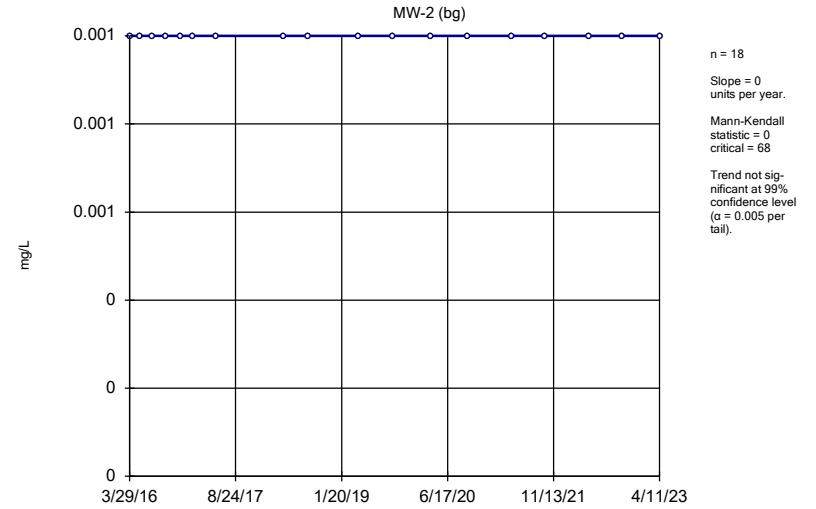
Constituent: Fluoride, total Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator



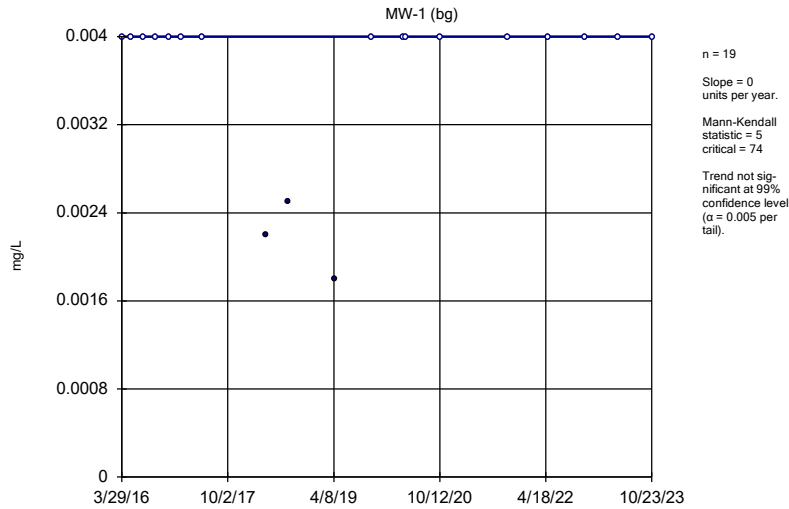
Constituent: Lead Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator



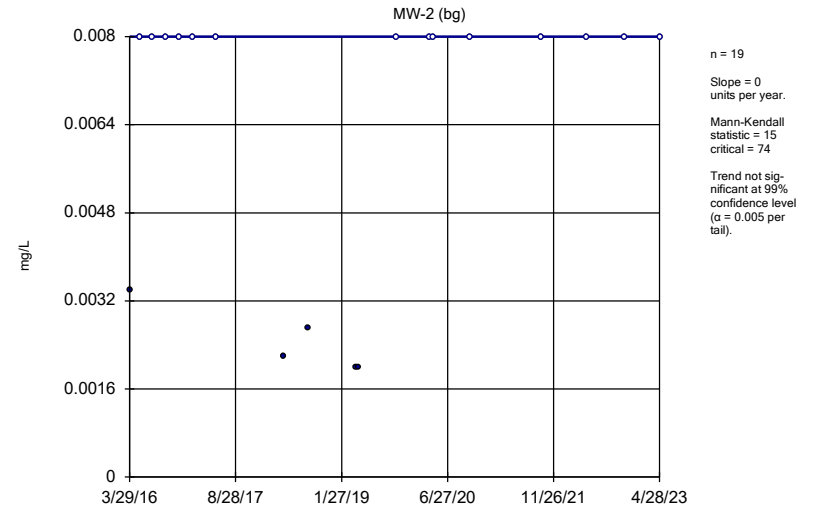
Constituent: Lead Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator



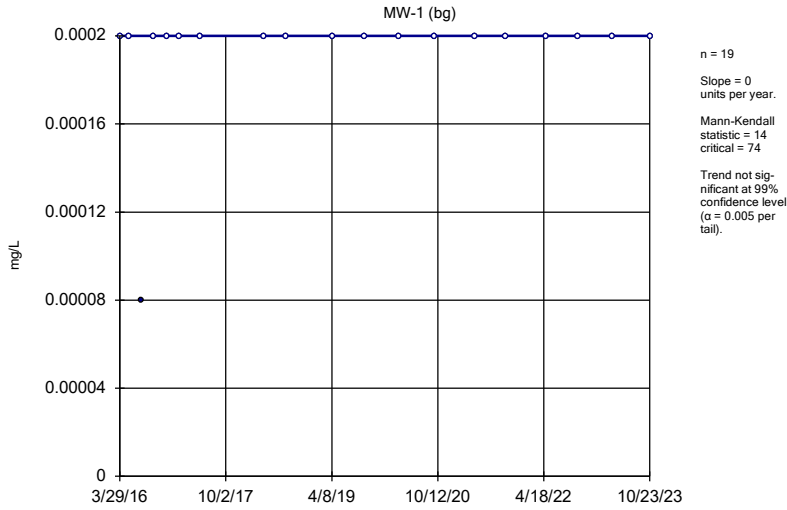
Constituent: Lithium Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator



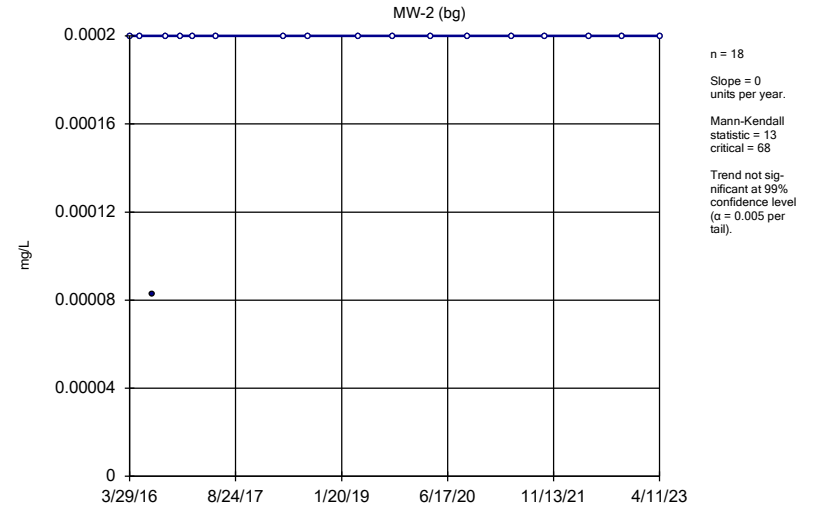
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Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator



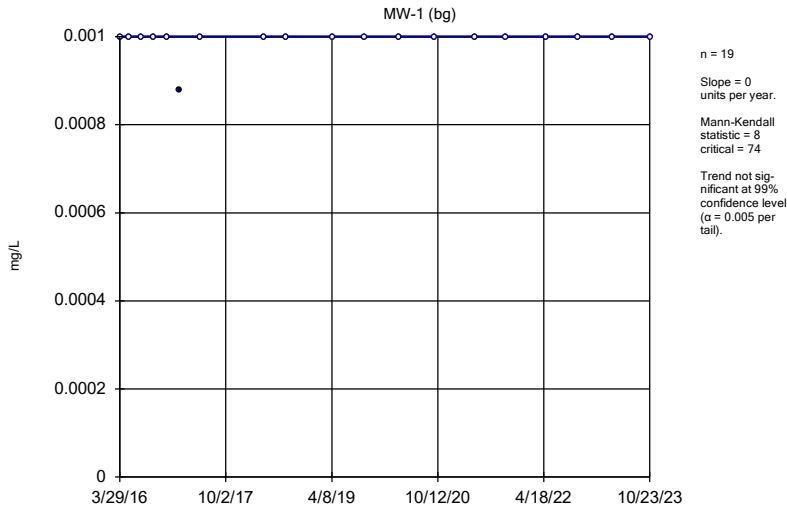
Constituent: Mercury Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator



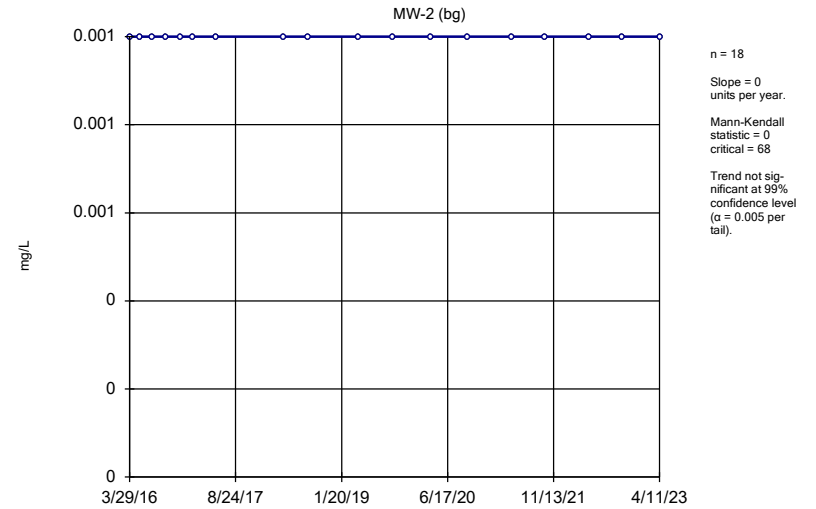
Constituent: Mercury Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator



Constituent: Molybdenum Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

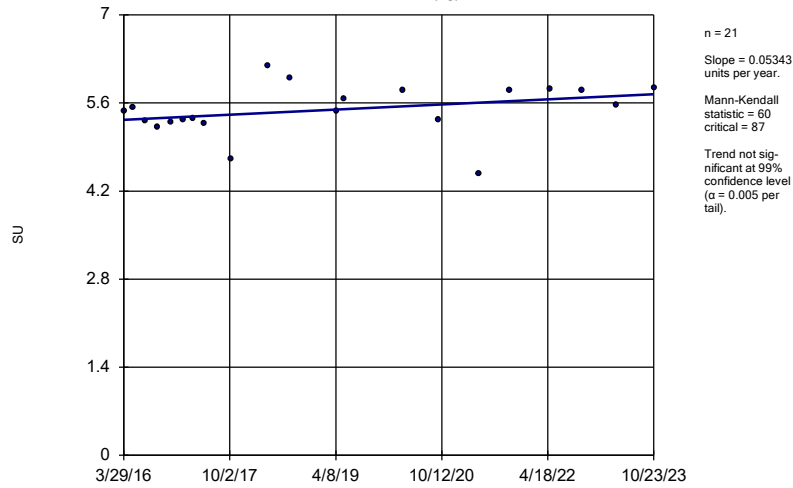
Sen's Slope Estimator



Constituent: Molybdenum Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

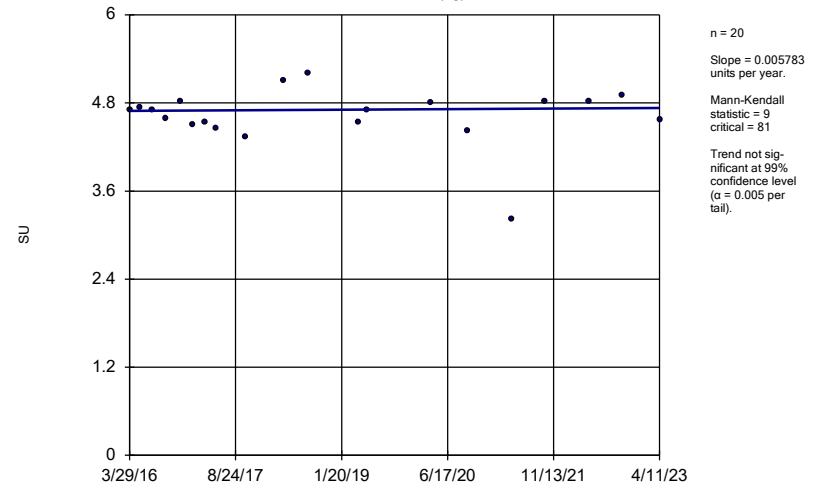
MW-1 (bg)



Constituent: pH, Field Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

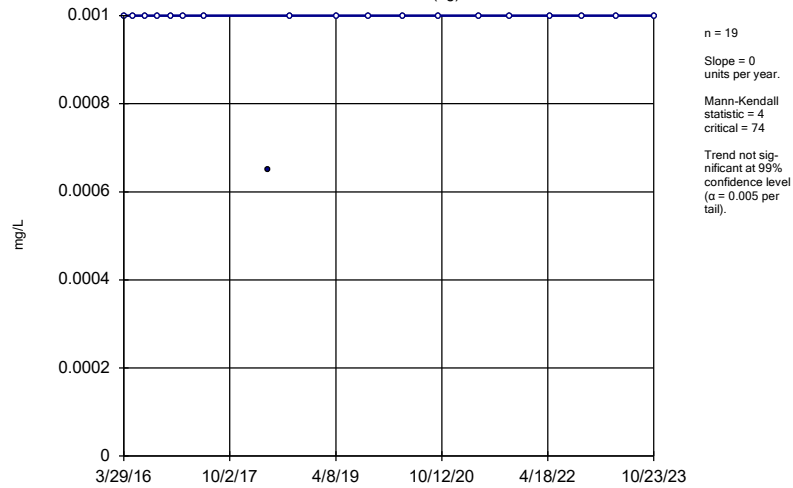
MW-2 (bg)



Constituent: pH, Field Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

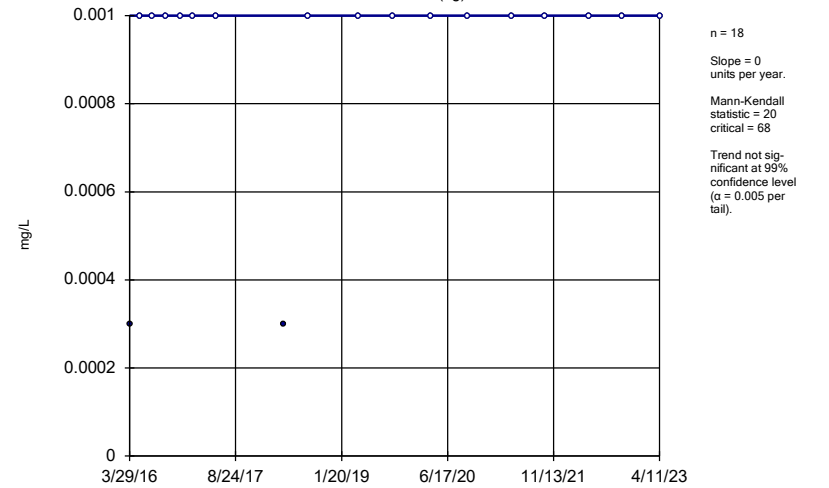
MW-1 (bg)



Constituent: Selenium Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

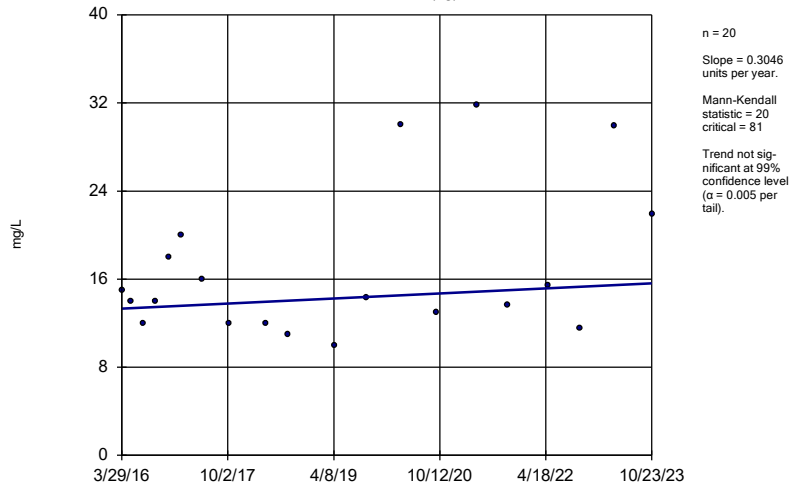
MW-2 (bg)



Constituent: Selenium Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

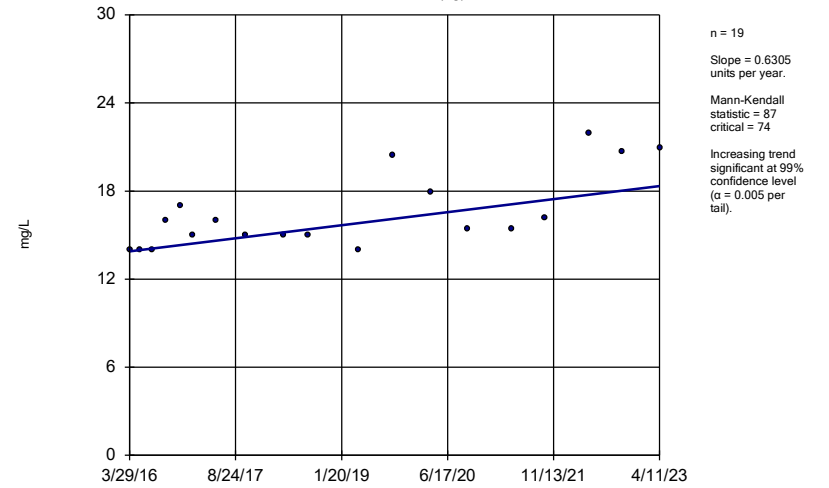
MW-1 (bg)



Constituent: Sulfate as SO4 Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

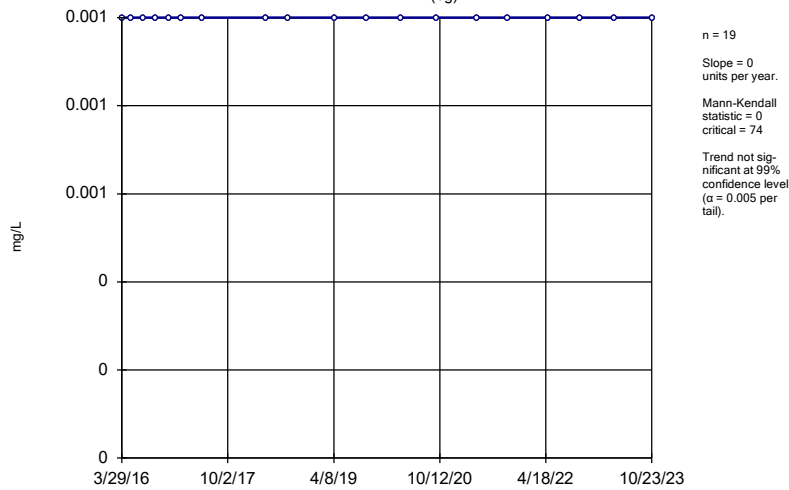
MW-2 (bg)



Constituent: Sulfate as SO4 Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

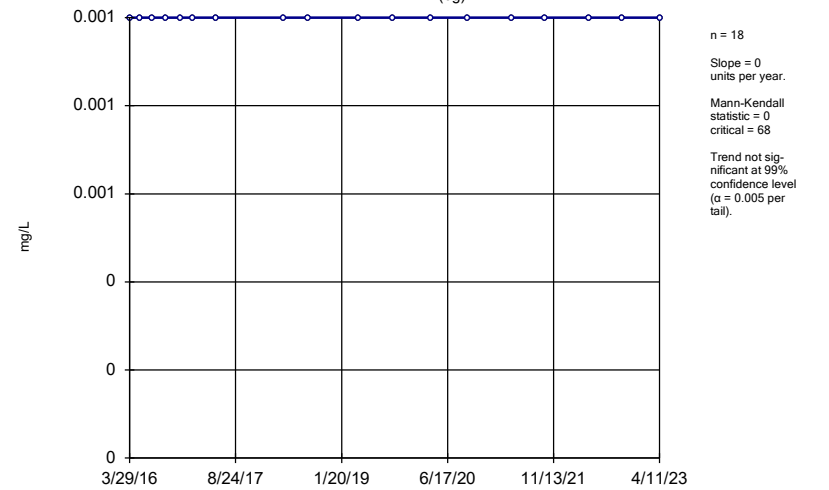
MW-1 (bg)



Constituent: Thallium Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

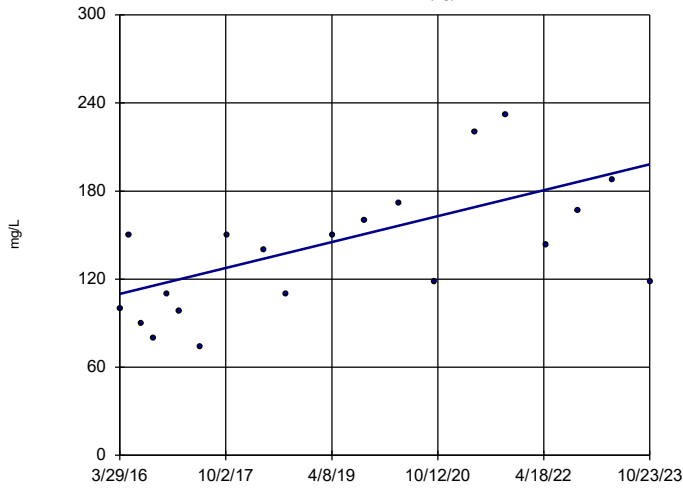
MW-2 (bg)



Constituent: Thallium Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-1 (bg)

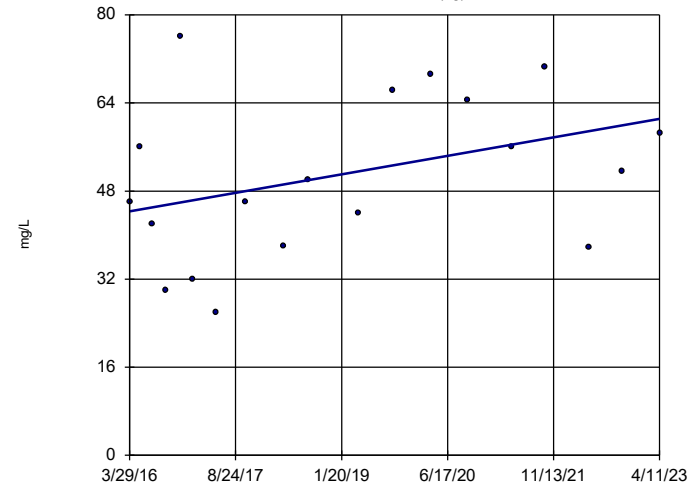


n = 20
Slope = 11.66
units per year.
Mann-Kendall
statistic = 87
critical = 81
Increasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-2 (bg)



n = 19
Slope = 2.386
units per year.
Mann-Kendall
statistic = 41
critical = 74
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/23/2024 12:49 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Figure E. Interwell Prediction Limits

Interwell Prediction Limits - Significant Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Meas	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MW-10	0.05	n/a	10/18/2023	0.355	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-11	0.05	n/a	10/18/2023	3.31	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-12A	0.05	n/a	10/17/2023	0.57	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-13A	0.05	n/a	10/17/2023	0.123	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-14A	0.05	n/a	10/24/2023	0.953	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-16	0.05	n/a	10/17/2023	0.75	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-17	0.05	n/a	10/26/2023	2.28	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-18	0.05	n/a	10/19/2023	0.117	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-19	0.05	n/a	10/17/2023	0.215	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-20	0.05	n/a	10/24/2023	0.087	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-21	0.05	n/a	10/24/2023	0.291	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-22	0.05	n/a	10/24/2023	0.102	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-23	0.05	n/a	10/25/2023	7.12	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-24	0.05	n/a	10/26/2023	3.11	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-25	0.05	n/a	10/26/2023	13.5	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-26	0.05	n/a	10/26/2023	0.443	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-5A	0.05	n/a	10/24/2023	2.12	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-6	0.05	n/a	10/17/2023	0.296	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-7	0.05	n/a	10/18/2023	0.938	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-8	0.05	n/a	10/23/2023	0.123	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-9	0.05	n/a	10/19/2023	6.61	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	MW-10	44.4	n/a	10/18/2023	67.7	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-11	44.4	n/a	10/18/2023	131	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-12A	44.4	n/a	10/17/2023	105	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-14A	44.4	n/a	10/24/2023	81.1	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-16	44.4	n/a	10/17/2023	74.2	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-17	44.4	n/a	10/26/2023	108	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-21	44.4	n/a	10/24/2023	74.8	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-22	44.4	n/a	10/24/2023	113	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-23	44.4	n/a	10/25/2023	344	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-24	44.4	n/a	10/26/2023	170	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-25	44.4	n/a	10/26/2023	514	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-26	44.4	n/a	10/26/2023	68.4	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-5A	44.4	n/a	10/24/2023	131	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-6	44.4	n/a	10/17/2023	74.6	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-7	44.4	n/a	10/18/2023	58.6	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-8	44.4	n/a	10/23/2023	69.1	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-9	44.4	n/a	10/19/2023	253	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-10	4	n/a	10/18/2023	60.9	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-11	4	n/a	10/18/2023	14.8	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-12A	4	n/a	10/17/2023	48.5	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-13A	4	n/a	10/17/2023	75.4	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-14A	4	n/a	10/24/2023	63.9	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-15	4	n/a	10/17/2023	4.03	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-16	4	n/a	10/17/2023	41.5	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-17	4	n/a	10/26/2023	98	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-18	4	n/a	10/19/2023	9.71	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-19	4	n/a	10/17/2023	18.9	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-20	4	n/a	10/24/2023	4.92	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-21	4	n/a	10/24/2023	19.8	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-22	4	n/a	10/24/2023	9.93	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-23	4	n/a	10/25/2023	211	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-24	4	n/a	10/26/2023	95.2	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-25	4	n/a	10/26/2023	246	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-26	4	n/a	10/26/2023	21.6	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-5A	4	n/a	10/24/2023	85.5	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-6	4	n/a	10/17/2023	8.26	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-8	4	n/a	10/23/2023	23.8	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-9	4	n/a	10/19/2023	135	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	MW-11	0.162	n/a	10/18/2023	1.93	Yes	39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-17	0.162	n/a	10/26/2023	0.94	Yes	39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-20	0.162	n/a	10/24/2023	0.163	Yes	39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-23	0.162	n/a	10/25/2023	0.367	Yes	39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-24	0.162	n/a	10/26/2023	1.55	Yes	39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-25	0.162	n/a	10/26/2023	0.365	Yes	39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-5A	0.162	n/a	10/24/2023	1.3	Yes	39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-7	0.162	n/a	10/18/2023	2.46	Yes	39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-8	0.162	n/a	10/23/2023	0.206	Yes	39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2

Interwell Prediction Limits - Significant Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig. Bg N	Bg Meas	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (SU)	MW-11	6.433	3.701	10/18/2023	6.76	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-20	6.433	3.701	10/23/2023	6.54	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-21	6.433	3.701	10/24/2023	6.84	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-22	6.433	3.701	10/24/2023	6.51	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-23	6.433	3.701	10/25/2023	6.77	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-24	6.433	3.701	10/26/2023	6.53	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-8	6.433	3.701	10/23/2023	6.94	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	MW-10	31.8	n/a	10/18/2023	197	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-11	31.8	n/a	10/18/2023	169	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-12A	31.8	n/a	10/17/2023	247	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-13A	31.8	n/a	10/17/2023	92.7	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-14A	31.8	n/a	10/24/2023	127	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-16	31.8	n/a	10/17/2023	77	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-17	31.8	n/a	10/26/2023	123	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-19	31.8	n/a	10/17/2023	66.9	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-23	31.8	n/a	10/25/2023	768	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-24	31.8	n/a	10/26/2023	372	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-25	31.8	n/a	10/26/2023	1220	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-26	31.8	n/a	10/26/2023	92.8	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-5A	31.8	n/a	10/24/2023	206	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-6	31.8	n/a	10/17/2023	54.1	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-7	31.8	n/a	10/18/2023	37.7	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-9	31.8	n/a	10/19/2023	411	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-10	232	n/a	10/18/2023	378	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-11	232	n/a	10/18/2023	516	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-12A	232	n/a	10/17/2023	518	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-13A	232	n/a	10/17/2023	314	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-14A	232	n/a	10/24/2023	350	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-16	232	n/a	10/17/2023	376	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-17	232	n/a	10/26/2023	526	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-21	232	n/a	10/24/2023	252	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-22	232	n/a	10/24/2023	338	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-23	232	n/a	10/25/2023	1620	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-24	232	n/a	10/26/2023	853	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-25	232	n/a	10/26/2023	2750	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-26	232	n/a	10/26/2023	304	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-5A	232	n/a	10/24/2023	582	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-6	232	n/a	10/17/2023	310	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-7	232	n/a	10/18/2023	236	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-8	232	n/a	10/23/2023	234	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-9	232	n/a	10/19/2023	1130	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MW-10	0.05	n/a	10/18/2023	0.355	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-11	0.05	n/a	10/18/2023	3.31	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-12A	0.05	n/a	10/17/2023	0.57	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-13A	0.05	n/a	10/17/2023	0.123	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-14A	0.05	n/a	10/24/2023	0.953	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-15	0.05	n/a	10/17/2023	0.035	No	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-16	0.05	n/a	10/17/2023	0.75	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-17	0.05	n/a	10/26/2023	2.28	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-18	0.05	n/a	10/19/2023	0.117	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-19	0.05	n/a	10/17/2023	0.215	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-20	0.05	n/a	10/24/2023	0.087	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-21	0.05	n/a	10/24/2023	0.291	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-22	0.05	n/a	10/24/2023	0.102	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-23	0.05	n/a	10/25/2023	7.12	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-24	0.05	n/a	10/26/2023	3.11	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-25	0.05	n/a	10/26/2023	13.5	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-26	0.05	n/a	10/26/2023	0.443	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-3	0.05	n/a	10/23/2023	0.036	No	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-5A	0.05	n/a	10/24/2023	2.12	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-6	0.05	n/a	10/17/2023	0.296	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-7	0.05	n/a	10/18/2023	0.938	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-8	0.05	n/a	10/23/2023	0.123	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-9	0.05	n/a	10/19/2023	6.61	Yes	39	n/a	n/a	51.28	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	MW-10	44.4	n/a	10/18/2023	67.7	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-11	44.4	n/a	10/18/2023	131	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-12A	44.4	n/a	10/17/2023	105	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-13A	44.4	n/a	10/17/2023	30.8	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-14A	44.4	n/a	10/24/2023	81.1	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-15	44.4	n/a	10/17/2023	8.15	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-16	44.4	n/a	10/17/2023	74.2	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-17	44.4	n/a	10/26/2023	108	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-18	44.4	n/a	10/19/2023	32.3	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-19	44.4	n/a	10/17/2023	30.9	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-20	44.4	n/a	10/24/2023	42.8	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-21	44.4	n/a	10/24/2023	74.8	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-22	44.4	n/a	10/24/2023	113	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-23	44.4	n/a	10/25/2023	344	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-24	44.4	n/a	10/26/2023	170	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-25	44.4	n/a	10/26/2023	514	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-26	44.4	n/a	10/26/2023	68.4	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-3	44.4	n/a	10/23/2023	3.92	No	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-5A	44.4	n/a	10/24/2023	131	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-6	44.4	n/a	10/17/2023	74.6	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-7	44.4	n/a	10/18/2023	58.6	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-8	44.4	n/a	10/23/2023	69.1	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-9	44.4	n/a	10/19/2023	253	Yes	39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-10	4	n/a	10/18/2023	60.9	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-11	4	n/a	10/18/2023	14.8	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-12A	4	n/a	10/17/2023	48.5	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-13A	4	n/a	10/17/2023	75.4	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-14A	4	n/a	10/24/2023	63.9	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-15	4	n/a	10/17/2023	4.03	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-16	4	n/a	10/17/2023	41.5	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-17	4	n/a	10/26/2023	98	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-18	4	n/a	10/19/2023	9.71	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-19	4	n/a	10/17/2023	18.9	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-20	4	n/a	10/24/2023	4.92	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-21	4	n/a	10/24/2023	19.8	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-22	4	n/a	10/24/2023	9.93	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-23	4	n/a	10/25/2023	211	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-24	4	n/a	10/26/2023	95.2	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-25	4	n/a	10/26/2023	246	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-26	4	n/a	10/26/2023	21.6	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-3	4	n/a	10/23/2023	1.52	No	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-5A	4	n/a	10/24/2023	85.5	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-6	4	n/a	10/17/2023	8.26	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-7	4	n/a	10/18/2023	2.53	No	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-8	4	n/a	10/23/2023	23.8	Yes	39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig. Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Chloride, Total (mg/L)	MW-9	4	n/a	10/19/2023	135	Yes39	n/a	n/a	10.26	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	MW-10	0.162	n/a	10/18/2023	0.125ND	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-11	0.162	n/a	10/18/2023	1.93	Yes39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-12A	0.162	n/a	10/17/2023	0.125ND	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-13A	0.162	n/a	10/17/2023	0.125ND	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-14A	0.162	n/a	10/24/2023	0.137	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-15	0.162	n/a	10/17/2023	0.125ND	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-16	0.162	n/a	10/17/2023	0.125ND	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-17	0.162	n/a	10/26/2023	0.94	Yes39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-18	0.162	n/a	10/19/2023	0.125ND	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-19	0.162	n/a	10/17/2023	0.125ND	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-20	0.162	n/a	10/24/2023	0.163	Yes39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-21	0.162	n/a	10/24/2023	0.129	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-22	0.162	n/a	10/24/2023	0.125ND	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-23	0.162	n/a	10/25/2023	0.367	Yes39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-24	0.162	n/a	10/26/2023	1.55	Yes39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-25	0.162	n/a	10/26/2023	0.365	Yes39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-26	0.162	n/a	10/26/2023	0.161	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-3	0.162	n/a	10/23/2023	0.157	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-5A	0.162	n/a	10/24/2023	1.3	Yes39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-6	0.162	n/a	10/17/2023	0.125ND	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-7	0.162	n/a	10/18/2023	2.46	Yes39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-8	0.162	n/a	10/23/2023	0.206	Yes39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-9	0.162	n/a	10/19/2023	0.125ND	No 39	n/a	n/a	69.23	n/a	n/a	0.001079	NP Inter (NDs) 1 of 2
pH, Field (SU)	MW-10	6.433	3.701	10/18/2023	4.7	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-11	6.433	3.701	10/18/2023	6.76	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-12A	6.433	3.701	10/17/2023	5.54	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-13A	6.433	3.701	10/17/2023	5.33	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-14A	6.433	3.701	10/24/2023	6.07	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-15	6.433	3.701	10/23/2023	5.34	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-16	6.433	3.701	10/17/2023	5.76	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-17	6.433	3.701	10/16/2023	6.23	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-18	6.433	3.701	10/19/2023	5.9	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-19	6.433	3.701	10/17/2023	4.99	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-20	6.433	3.701	10/23/2023	6.54	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-21	6.433	3.701	10/24/2023	6.84	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-22	6.433	3.701	10/24/2023	6.51	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-23	6.433	3.701	10/25/2023	6.77	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-24	6.433	3.701	10/26/2023	6.53	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-25	6.433	3.701	10/26/2023	6.12	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-26	6.433	3.701	10/26/2023	6.3	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-3	6.433	3.701	10/23/2023	4.94	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-5A	6.433	3.701	10/23/2023	6.36	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-6	6.433	3.701	10/17/2023	6.21	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-7	6.433	3.701	10/18/2023	5.96	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-8	6.433	3.701	10/23/2023	6.94	Yes41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
pH, Field (SU)	MW-9	6.433	3.701	10/19/2023	6.15	No 41	5.067	0.5877	0	None	No	0.0001344	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	MW-10	31.8	n/a	10/18/2023	197	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-11	31.8	n/a	10/18/2023	169	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-12A	31.8	n/a	10/17/2023	247	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-13A	31.8	n/a	10/17/2023	92.7	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-14A	31.8	n/a	10/24/2023	127	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-15	31.8	n/a	10/17/2023	18.5	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-16	31.8	n/a	10/17/2023	77	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-17	31.8	n/a	10/26/2023	123	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-18	31.8	n/a	10/19/2023	18.2	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-19	31.8	n/a	10/17/2023	66.9	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-20	31.8	n/a	10/24/2023	0.5ND	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-21	31.8	n/a	10/24/2023	19.4	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-22	31.8	n/a	10/24/2023	0.5ND	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-23	31.8	n/a	10/25/2023	768	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-24	31.8	n/a	10/26/2023	372	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-25	31.8	n/a	10/26/2023	1220	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-26	31.8	n/a	10/26/2023	92.8	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-3	31.8	n/a	10/23/2023	19.4	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-5A	31.8	n/a	10/24/2023	206	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-6	31.8	n/a	10/17/2023	54.1	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-7	31.8	n/a	10/18/2023	37.7	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2

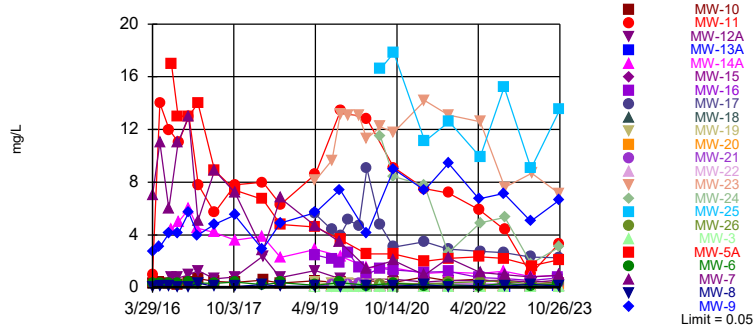
Interwell Prediction Limits - All Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig. Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Sulfate as SO4 (mg/L)	MW-8	31.8	n/a	10/23/2023	0.5ND	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-9	31.8	n/a	10/19/2023	411	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-10	232	n/a	10/18/2023	378	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-11	232	n/a	10/18/2023	516	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-12A	232	n/a	10/17/2023	518	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-13A	232	n/a	10/17/2023	314	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-14A	232	n/a	10/24/2023	350	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-15	232	n/a	10/17/2023	68	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-16	232	n/a	10/17/2023	376	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-17	232	n/a	10/26/2023	526	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-18	232	n/a	10/19/2023	148	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-19	232	n/a	10/17/2023	226	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-20	232	n/a	10/24/2023	128	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-21	232	n/a	10/24/2023	252	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-22	232	n/a	10/24/2023	338	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-23	232	n/a	10/25/2023	1620	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-24	232	n/a	10/26/2023	853	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-25	232	n/a	10/26/2023	2750	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-26	232	n/a	10/26/2023	304	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-3	232	n/a	10/23/2023	12.5ND	No 39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-5A	232	n/a	10/24/2023	582	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-6	232	n/a	10/17/2023	310	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-7	232	n/a	10/18/2023	236	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-8	232	n/a	10/23/2023	234	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-9	232	n/a	10/19/2023	1130	Yes39	n/a	n/a	0	n/a	n/a	0.001079	NP Inter (normality) 1 of 2

Exceeds Limit: MW-10, MW-11, MW-12A,
MW-13A, MW-14A, MW-16, MW-17, MW-
18, MW-19, MW-20, MW-21, MW-22,...

Prediction Limit Interwell Non-parametric

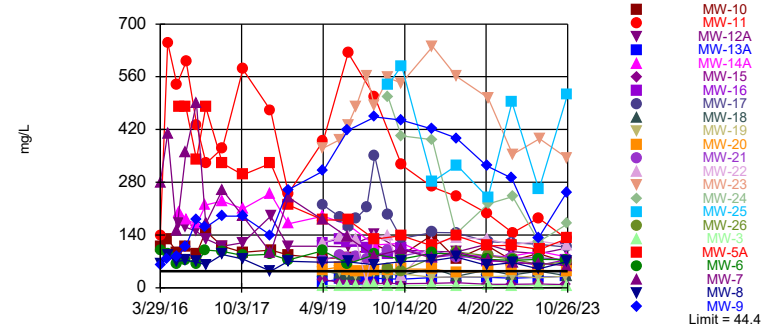


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 51.28% NDs. Annual per-constituent alpha = 0.05866. Individual comparison alpha = 0.001079 (1 of 2). Comparing 23 points to limit. Assumes 5 future values.

Constituent: Boron, total Analysis Run 1/16/2024 7:14 PM View: Interwell PLs
Lowman Power Plant Data: Lowman Power Plant

Exceeds Limit: MW-10, MW-11, MW-12A,
MW-14A, MW-16, MW-17, MW-21, MW-22,
MW-23, MW-24, MW-25, MW-26,...

Prediction Limit Interwell Non-parametric

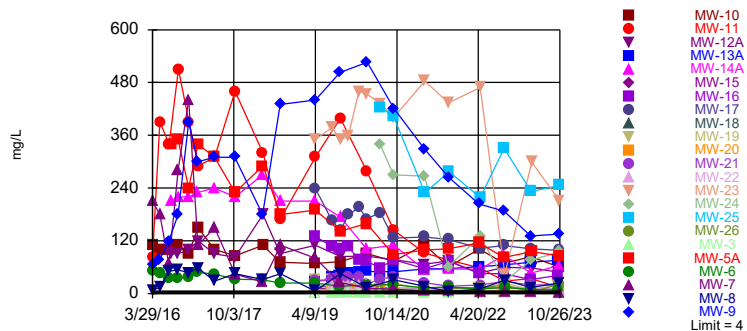


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. Annual per-constituent alpha = 0.05866. Individual comparison alpha = 0.001079 (1 of 2). Comparing 23 points to limit. Assumes 5 future values.

Constituent: Calcium, total Analysis Run 1/16/2024 7:14 PM View: Interwell PLs
Lowman Power Plant Data: Lowman Power Plant

Exceeds Limit: MW-10, MW-11, MW-12A,
MW-13A, MW-14A, MW-15, MW-16, MW-
17, MW-18, MW-19, MW-20, MW-21,...

Prediction Limit Interwell Non-parametric

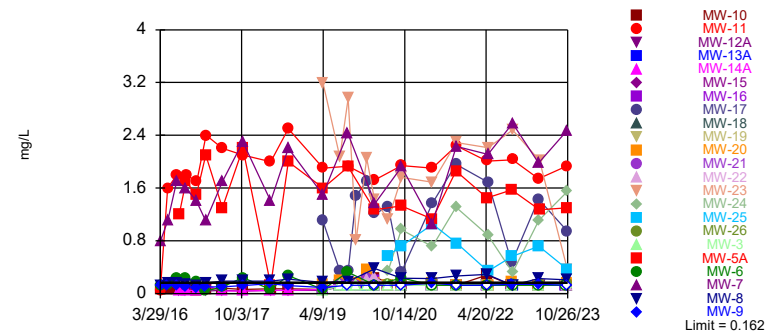


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. 10.26% NDs. Annual per-constituent alpha = 0.05866. Individual comparison alpha = 0.001079 (1 of 2). Comparing 23 points to limit. Assumes 5 future values.

Constituent: Chloride, Total Analysis Run 1/16/2024 7:14 PM View: Interwell PLs
Lowman Power Plant Data: Lowman Power Plant

Exceeds Limit: MW-11, MW-17, MW-20,
MW-23, MW-24, MW-25, MW-5A, MW-7,
MW-8

Prediction Limit Interwell Non-parametric

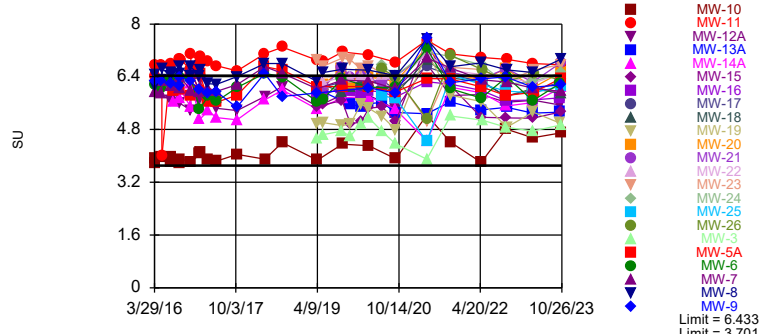


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 39 background values. 69.23% NDs. Annual per-constituent alpha = 0.05866. Individual comparison alpha = 0.001079 (1 of 2). Comparing 23 points to limit. Assumes 5 future values.

Constituent: Fluoride, total Analysis Run 1/16/2024 7:14 PM View: Interwell PLs
Lowman Power Plant Data: Lowman Power Plant

Exceeds Limits: MW-11, MW-20, MW-21, MW-22, MW-23, MW-24, MW-8

Prediction Limit
Interwell Parametric



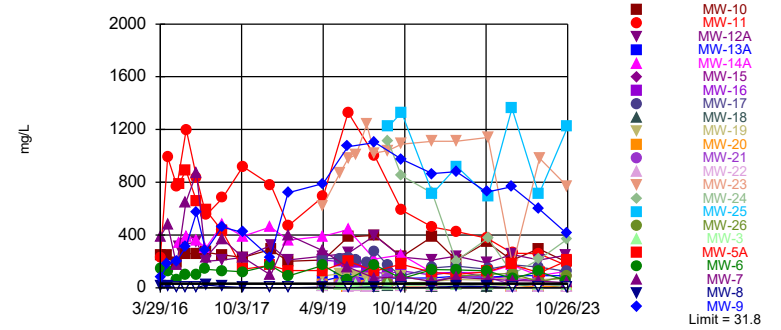
Background Data Summary: Mean=5.067, Std. Dev.=0.5877, n=41. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9532, critical = 0.92. Kappa = 2.324 (c=7, w=28, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0001344. Comparing 23 points to limit. Assumes 5 future values.

Constituent: pH, Field Analysis Run 1/16/2024 7:14 PM View: Interwell PLs
Lowman Power Plant Data: Lowman Power Plant

Hollow symbols indicate censored values.

Exceeds Limit: MW-10, MW-11, MW-12A, MW-13A, MW-14A, MW-16, MW-17, MW-19, MW-23, MW-24, MW-25, MW-26...

Prediction Limit
Interwell Non-parametric



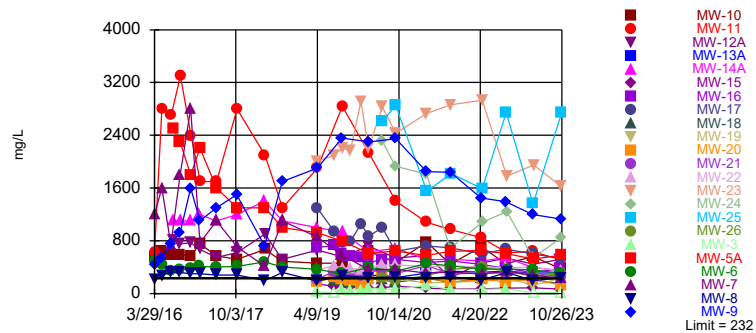
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. Annual per-constituent alpha = 0.05866. Individual comparison alpha = 0.001079 (1 of 2). Comparing 23 points to limit. Assumes 5 future values.

Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:14 PM View: Interwell PLs
Lowman Power Plant Data: Lowman Power Plant

Hollow symbols indicate censored values.

Exceeds Limit: MW-10, MW-11, MW-12A, MW-13A, MW-14A, MW-16, MW-17, MW-21, MW-22, MW-23, MW-24, MW-25,...

Prediction Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 39 background values. Annual per-constituent alpha = 0.05866. Individual comparison alpha = 0.001079 (1 of 2). Comparing 23 points to limit. Assumes 5 future values.

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:14 PM View: Interwell PLs
Lowman Power Plant Data: Lowman Power Plant

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs

Lowman Power Plant Data: Lowman Power Plant

	MW-1 (bg)	MW-9	MW-2 (bg)	MW-6	MW-7	MW-8	MW-11	MW-10	MW-14A
3/29/2016	<0.05	2.7	0.022 (J)	0.3	7				
3/30/2016						0.051	0.95	0.35	
5/18/2016	<0.05	3.1	<0.05					0.41	
5/19/2016				0.28	11	0.16	14		
7/19/2016	0.024 (J)	4.1	<0.05		6				
7/20/2016				0.32		0.13	12	0.34	
8/4/2016									4.4
9/19/2016	<0.05		<0.05						
9/20/2016		4.1		0.35	11	0.049 (J)		0.26	
9/21/2016							11		5
11/29/2016	<0.05	5.7	<0.05	0.4					
11/30/2016					13	0.071		0.39	
12/1/2016							13		6
1/31/2017	<0.05	4	<0.05	0.35					4.5
2/1/2017					5.1	0.37		0.69	
2/2/2017							7.8		
5/22/2017		4.8							
5/23/2017	<0.05		<0.05						4.2
5/24/2017				0.34	8.9	0.097	5.7	0.48	
5/25/2017									
10/9/2017	<0.05	5.5							
10/10/2017			<0.05				7.8		3.6
10/11/2017				0.43	7.2	0.098		0.4	
4/17/2018	<0.05	2.9	<0.05	0.23					3.9
4/18/2018					2.8	0.25	8		
4/19/2018								0.57	
8/14/2018	<0.05	4.9	<0.05					0.36	
8/15/2018				0.38	6.8	0.13	6.3		2.3
4/6/2019									
4/7/2019				0.19	4.7	0.13			
4/8/2019									
4/9/2019							8.6	0.53	
4/10/2019	<0.05	5.7	<0.05						2.9
7/31/2019									
8/1/2019									
9/23/2019									
9/24/2019	0.0163	7.44	0.0168						
9/25/2019				0.385	3.46				
9/26/2019						0.0858	13.4	0.388	2.4
9/27/2019									
11/18/2019									
11/19/2019									
11/20/2019									
1/29/2020									
1/30/2020									
3/23/2020									1.54
3/24/2020									
3/25/2020							12.8	0.539	
3/26/2020	0.0169	4.13	0.0183	0.179	1.48	0.133			
6/22/2020									
6/23/2020									
6/24/2020									

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-5A	MW-12A	MW-20	MW-21	MW-3	MW-18	MW-19	MW-22	MW-15
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
7/19/2016									
7/20/2016									
8/4/2016	17	0.75							
9/19/2016									
9/20/2016	13	0.75							
9/21/2016									
11/29/2016									
11/30/2016	13	0.97							
12/1/2016									
1/31/2017									
2/1/2017	14	1.3							
2/2/2017									
5/22/2017									
5/23/2017									
5/24/2017	8.9								
5/25/2017		0.68							
10/9/2017									
10/10/2017	7.4	0.83							
10/11/2017									
4/17/2018									
4/18/2018	6.7								
4/19/2018		2.4							
8/14/2018		0.78							
8/15/2018	4.8								
4/6/2019			0.089	0.14	<0.05				
4/7/2019						0.17	0.38	0.12	0.052
4/8/2019									
4/9/2019	4.6	1.3							
4/10/2019									
7/31/2019								0.0867	0.0517
8/1/2019			0.0535	0.216	0.0204	0.132	0.295		
9/23/2019									
9/24/2019					0.0208	0.145			0.0518
9/25/2019			0.0659	0.305			0.328		
9/26/2019	3.65	0.672						0.0968	
9/27/2019									
11/18/2019					0.0222				
11/19/2019				0.268		0.134		0.102	
11/20/2019			0.0625				0.309		0.0447
1/29/2020			0.0556	0.291	0.018		0.241	<0.05	
1/30/2020						0.0726			0.0294
3/23/2020	2.57							0.0918	0.0349
3/24/2020		0.65							
3/25/2020			0.0554	0.201		0.0784	0.261		
3/26/2020					0.0184				
6/22/2020									0.039
6/23/2020			0.06		0.022	0.109	0.239	0.101	
6/24/2020				0.265					

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-17	MW-16	MW-13A	MW-24	MW-26	MW-25
3/29/2016							
3/30/2016							
5/18/2016							
5/19/2016							
7/19/2016							
7/20/2016							
8/4/2016							
9/19/2016							
9/20/2016							
9/21/2016							
11/29/2016							
11/30/2016							
12/1/2016							
1/31/2017							
2/1/2017							
2/2/2017							
5/22/2017							
5/23/2017							
5/24/2017							
5/25/2017							
10/9/2017							
10/10/2017							
10/11/2017							
4/17/2018							
4/18/2018							
4/19/2018							
8/14/2018							
8/15/2018							
4/6/2019							
4/7/2019							
4/8/2019	8.1	5.6	2.5				
4/9/2019				0.022 (J)			
4/10/2019							
7/31/2019		4.38	2.18				
8/1/2019	9.67			0.0128			
9/23/2019				0.0187			
9/24/2019							
9/25/2019			1.89				
9/26/2019		4					
9/27/2019	13.2						
11/18/2019				0.0145			
11/19/2019	13.1	5.12	2.67				
11/20/2019							
1/29/2020							
1/30/2020	13.1	4.73	1.53	0.0133			
3/23/2020	11.3		1.02				
3/24/2020							
3/25/2020		9.05		0.0245			
3/26/2020							
6/22/2020			1.48				
6/23/2020		4.75		0.023			
6/24/2020	12.2				11.5	0.195	16.6

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-17	MW-16	MW-13A	MW-24	MW-26	MW-25
9/21/2020				0.013			
9/22/2020		3.09	1.36		8.45		
9/23/2020							17.8
9/24/2020	11.8					0.354	
4/19/2021		3.48		0.023			
4/20/2021			1.19				
4/21/2021					7.76		
4/22/2021	14.2					0.291	11.1
9/28/2021		2.93		0.03	2.65		
9/29/2021							
9/30/2021							
10/1/2021	13.1						
10/4/2021			1.24				
10/5/2021						0.373	12.6
4/25/2022							
4/26/2022			0.767				
4/27/2022				0.028			
5/2/2022							
5/3/2022		2.77			4.93		
5/4/2022	12.6					0.448	9.91
10/11/2022							
10/12/2022		2.66	0.712				
10/13/2022							15.2
10/17/2022				0.032			
10/18/2022	7.61				5.34	0.529	
4/10/2023							
4/11/2023				0.068			
4/12/2023		2.33	0.55				
4/13/2023					1.83		9.05
4/18/2023	8.68					0.265	
10/17/2023			0.75	0.123			
10/18/2023							
10/19/2023							
10/23/2023							
10/24/2023							
10/25/2023	7.12						
10/26/2023		2.28			3.11	0.443	13.5

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-5A	MW-12A	MW-20	MW-21	MW-3	MW-18	MW-19	MW-22	MW-15
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
7/19/2016									
7/20/2016									
8/4/2016	480	170							
9/19/2016									
9/20/2016	480	160							
9/21/2016									
11/29/2016									
11/30/2016	340	150							
12/1/2016									
1/31/2017									
2/1/2017	480	130							
2/2/2017									
5/22/2017									
5/23/2017									
5/24/2017	330								
5/25/2017		110							
10/9/2017									
10/10/2017	300	120							
10/11/2017									
4/17/2018									
4/18/2018	330								
4/19/2018		190							
8/14/2018		110							
8/15/2018	220								
4/6/2019			48	72	5.7				
4/7/2019						45	41	120	22
4/8/2019									
4/9/2019	180	110							
4/10/2019									
7/31/2019								135	14.7
8/1/2019			54.8	87.5	4.42	36.4	42.7		
9/23/2019									
9/24/2019					4.51	34.5			14.5
9/25/2019			48.1	81.2			39.3		
9/26/2019	180	109						134	
9/27/2019									
11/18/2019					4.63				
11/19/2019				83		33.4		127	
11/20/2019			45.2				34.5		12.4
1/29/2020			44.6	76.2	5.78		34.2	12.4	
1/30/2020						45.5			12.5
3/23/2020	129							136	10.7
3/24/2020		141							
3/25/2020			45.8	84.3		42.7	39.3		
3/26/2020					6.92				
6/22/2020									12.1
6/23/2020			48.4		5.27	37.8	34.1	139	
6/24/2020				100					

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-17	MW-16	MW-13A	MW-24	MW-26	MW-25
3/29/2016							
3/30/2016							
5/18/2016							
5/19/2016							
7/19/2016							
7/20/2016							
8/4/2016							
9/19/2016							
9/20/2016							
9/21/2016							
11/29/2016							
11/30/2016							
12/1/2016							
1/31/2017							
2/1/2017							
2/2/2017							
5/22/2017							
5/23/2017							
5/24/2017							
5/25/2017							
10/9/2017							
10/10/2017							
10/11/2017							
4/17/2018							
4/18/2018							
4/19/2018							
8/14/2018							
8/15/2018							
4/6/2019							
4/7/2019							
4/8/2019	370	220	120				
4/9/2019				16			
4/10/2019							
7/31/2019		188	130				
8/1/2019	393			22.9			
9/23/2019				20.5			
9/24/2019							
9/25/2019			121				
9/26/2019		162					
9/27/2019	433						
11/18/2019				21.9			
11/19/2019	481	185	123				
11/20/2019							
1/29/2020							
1/30/2020	563	212	105	22.6			
3/23/2020	484		87.7				
3/24/2020							
3/25/2020		350		25.1			
3/26/2020							
6/22/2020			90.7				
6/23/2020		194		23.5			
6/24/2020	557				506	50.5	538

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-17	MW-16	MW-13A	MW-24	MW-26	MW-25
9/21/2020				22.6			
9/22/2020		131	106		403		
9/23/2020							589
9/24/2020	543					44.6	
4/19/2021		147		26.8			
4/20/2021			80.3				
4/21/2021					393		
4/22/2021	640					79.7	282
9/28/2021		146		28.5	143		
9/29/2021							
9/30/2021							
10/1/2021	561						
10/4/2021			87.3				
10/5/2021						95.1	325
4/25/2022							
4/26/2022			70.4				
4/27/2022				27.5			
5/2/2022							
5/3/2022		122			222		
5/4/2022	504					85.1	239
10/11/2022							
10/12/2022		120	71.4				
10/13/2022							492
10/17/2022				25			
10/18/2022	354				242	75.2	
4/10/2023							
4/11/2023				27.6			
4/12/2023		115	59.3				
4/13/2023					122		261
4/18/2023	396					61.6	
10/17/2023			74.2	30.8			
10/18/2023							
10/19/2023							
10/23/2023							
10/24/2023							
10/25/2023	344						
10/26/2023		108			170	68.4	514

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs

Lowman Power Plant Data: Lowman Power Plant

	MW-1 (bg)	MW-9	MW-2 (bg)	MW-6	MW-7	MW-8	MW-11	MW-10	MW-14A
3/29/2016	2.5	66	0.89 (J)	52	210				
3/30/2016						7.9	83	110	
5/18/2016	2.1	78	<2					100	
5/19/2016				45	180	14	390		
7/19/2016	2.2	120	<2		67				
7/20/2016				35		51	340	100	
8/4/2016									210
9/19/2016	1.4 (J)		<2						
9/20/2016		180		34	280	54		110	
9/21/2016							510		220
11/29/2016	3.5	390	2.2	39					
11/30/2016					440	47		91	
12/1/2016							390		220
1/31/2017	2.9	300	1.1 (J)	48					230
2/1/2017					110	58		150	
2/2/2017							290		
5/22/2017		310							
5/23/2017	4		1.9 (J)						240
5/24/2017				44	150	28	310	100	
5/25/2017									
10/9/2017	3.8	310							
10/10/2017			1.8 (J)				460		220
10/11/2017				33	44	45		86	
4/17/2018	2.6	180	0.93 (J)	31					270
4/18/2018					26	32	320		
4/19/2018								110	
8/14/2018	2.7	430	0.63 (J)					71	
8/15/2018				24	110	45	170		210
4/6/2019									
4/7/2019				24	81	6			
4/8/2019									
4/9/2019							310	68	
4/10/2019	2.8	440	<2						210
7/31/2019									
8/1/2019									
9/23/2019									
9/24/2019	2.59	503	1.05						
9/25/2019				16.4	25.5				
9/26/2019						44.8	399	72.5	174
9/27/2019									
11/18/2019									
11/19/2019									
11/20/2019									
1/29/2020									
1/30/2020									
3/23/2020									102
3/24/2020									
3/25/2020							278	91	
3/26/2020	3.48	526	0.969	19.3	11.4	13.4			
6/22/2020									
6/23/2020									
6/24/2020									

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-5A	MW-12A	MW-20	MW-21	MW-3	MW-18	MW-19	MW-22	MW-15
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
7/19/2016									
7/20/2016									
8/4/2016	340	91							
9/19/2016									
9/20/2016	350	91							
9/21/2016									
11/29/2016									
11/30/2016	240	98							
12/1/2016									
1/31/2017									
2/1/2017	340	120							
2/2/2017									
5/22/2017									
5/23/2017									
5/24/2017	310								
5/25/2017		90							
10/9/2017									
10/10/2017	230	83							
10/11/2017									
4/17/2018									
4/18/2018	290								
4/19/2018		180							
8/14/2018		91							
8/15/2018	180								
4/6/2019			9.4	28	<2				
4/7/2019						16	31	19	14
4/8/2019									
4/9/2019	190	110							
4/10/2019									
7/31/2019								17.2	8.91
8/1/2019			9.17	30.8	1.85	14.9	31.2		
9/23/2019									
9/24/2019					2.16	15.5			8.58
9/25/2019			8.12	36.6			30.1		
9/26/2019	142	84.3						17.3	
9/27/2019									
11/18/2019					2.16				
11/19/2019				36.5		17.3		18.5	
11/20/2019			10.1				25.1		8.43
1/29/2020			9.51	38	2.46		12.6	17.8	
1/30/2020						12.3			7.65
3/23/2020	159							19.7	5.96
3/24/2020		85.2							
3/25/2020			9.86	21.1		12.6	19.1		
3/26/2020					2.62				
6/22/2020									5.34
6/23/2020			9.81		1.81	12.8	17.5	10.5	
6/24/2020				33.2					

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-17	MW-16	MW-13A	MW-24	MW-26	MW-25
3/29/2016							
3/30/2016							
5/18/2016							
5/19/2016							
7/19/2016							
7/20/2016							
8/4/2016							
9/19/2016							
9/20/2016							
9/21/2016							
11/29/2016							
11/30/2016							
12/1/2016							
1/31/2017							
2/1/2017							
2/2/2017							
5/22/2017							
5/23/2017							
5/24/2017							
5/25/2017							
10/9/2017							
10/10/2017							
10/11/2017							
4/17/2018							
4/18/2018							
4/19/2018							
8/14/2018							
8/15/2018							
4/6/2019							
4/7/2019							
4/8/2019	350	240	130				
4/9/2019				27			
4/10/2019							
7/31/2019		166	107				
8/1/2019	378			36.6			
9/23/2019				41.7			
9/24/2019							
9/25/2019			102				
9/26/2019		143					
9/27/2019	349						
11/18/2019				47.4			
11/19/2019	359	179	107				
11/20/2019							
1/29/2020							
1/30/2020	460	196	76	47.6			
3/23/2020	454		73.3				
3/24/2020							
3/25/2020		170		50.4			
3/26/2020							
6/22/2020			58.5				
6/23/2020		184		50.2			
6/24/2020	432				338	4.45	424

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-17	MW-16	MW-13A	MW-24	MW-26	MW-25
9/21/2020				49.6			
9/22/2020		126	77.2		270		
9/23/2020							402
9/24/2020	401					6.27	
4/19/2021		129		55.8			
4/20/2021			56.7				
4/21/2021					267		
4/22/2021	483					5.27	229
9/28/2021		123		56.5	60.9		
9/29/2021							
9/30/2021							
10/1/2021	434						
10/4/2021			73.6				
10/5/2021						11.9	277
4/25/2022							
4/26/2022			45.9				
4/27/2022				60.9			
5/2/2022							
5/3/2022		103			130		
5/4/2022	469					12	218
10/11/2022							
10/12/2022		109	45.3				
10/13/2022							330
10/17/2022				65.4			
10/18/2022	43.4				28.6	19.3	
4/10/2023							
4/11/2023				71.3			
4/12/2023		102	32.2				
4/13/2023					75.4		232
4/18/2023	299					3.19	
10/17/2023			41.5	75.4			
10/18/2023							
10/19/2023							
10/23/2023							
10/24/2023							
10/25/2023	211						
10/26/2023		98			95.2	21.6	246

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs

Lowman Power Plant Data: Lowman Power Plant

	MW-1 (bg)	MW-9	MW-2 (bg)	MW-6	MW-7	MW-8	MW-11	MW-10	MW-14A
3/29/2016	0.04 (J)	0.12	<0.125	0.12	0.79				
3/30/2016						0.13	0.05 (J)	0.06 (J)	
5/18/2016	0.04 (J)	0.12	<0.125					0.06 (J)	
5/19/2016				0.14	1.1	0.16	1.6		
7/19/2016	0.04 (J)	0.12	<0.125		1.7				
7/20/2016				0.24		0.16	1.8	0.07 (J)	
8/4/2016									0.05 (J)
9/19/2016	<0.125		<0.125						
9/20/2016		0.11		0.23	1.6	0.14		0.06 (J)	
9/21/2016							1.8		0.05 (J)
11/29/2016	<0.125	0.09 (J)	<0.125	0.17					
11/30/2016					1.4	0.12		0.04 (J)	
12/1/2016							1.7		0.05 (J)
1/31/2017	0.04 (J)	0.1	<0.125	0.04 (J)					<0.125
2/1/2017					1.1	0.16		0.06 (J)	
2/2/2017							2.4		
5/22/2017		0.1							
5/23/2017	0.05 (J)		<0.125						0.04 (J)
5/24/2017				0.1	1.7	0.19	2.2	0.08 (J)	
5/25/2017									
10/9/2017	0.06 (J)	0.12							
10/10/2017			<0.125				2.1		0.04 (J)
10/11/2017				0.24	2.3	0.19		0.06 (J)	
4/17/2018	0.07 (J)	0.15	<0.125	0.06 (J)					0.05 (J)
4/18/2018					1.4	0.19	2		
4/19/2018								0.07 (J)	
8/14/2018	0.07 (J)	0.12	0.04 (J)					0.07 (J)	
8/15/2018				0.27	2.2	0.22	2.5		0.05 (J)
4/6/2019									
4/7/2019				0.06 (J)	1.5	0.17			
4/8/2019									
4/9/2019							1.9	0.06 (J)	
4/10/2019	0.08 (J)	0.09 (J)	<0.125						0.06 (J)
7/31/2019									
8/1/2019									
9/23/2019									
9/24/2019	<0.125	<0.125	<0.125						
9/25/2019				0.324	2.43				
9/26/2019						0.183	1.93	<0.125	<0.125
9/27/2019									
11/18/2019									
11/19/2019									
11/20/2019									
1/29/2020									
1/30/2020									
3/23/2020									<0.125
3/24/2020									
3/25/2020							1.72	0.236	
3/26/2020	<0.125	<0.125	<0.125	<0.125	1.37	0.38			
6/22/2020									
6/23/2020									
6/24/2020									

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-1 (bg)	MW-9	MW-2 (bg)	MW-6	MW-7	MW-8	MW-11	MW-10	MW-14A
9/21/2020									
9/22/2020									
9/23/2020	<0.125	<0.125	<0.125	0.237	1.92	0.233		<0.125	
9/24/2020							1.94		<0.125
4/19/2021									
4/20/2021					1.06		1.9	<0.125	
4/21/2021		0.158		<0.125		0.229			
4/22/2021	<0.125		<0.125						<0.125
9/28/2021									
9/29/2021					2.23				0.136
9/30/2021	0.143	<0.125	<0.125	<0.125		0.267		<0.125	
10/1/2021							2.24		
10/4/2021									
10/5/2021									
4/25/2022		<0.125							
4/26/2022									
4/27/2022				<0.125		0.291	2.01	0.282	
5/2/2022	<0.125		<0.125						
5/3/2022					2.11				
5/4/2022									<0.125
10/11/2022	<0.125	0.139	<0.125						
10/12/2022									<0.125
10/13/2022								<0.125	
10/17/2022				<0.125	2.58	<0.125	2.03		
10/18/2022									
4/10/2023									
4/11/2023	<0.125	0.14	<0.125						
4/12/2023				<0.125	1.98	0.225	1.74	<0.125	
4/13/2023									<0.125
4/18/2023									
10/17/2023				<0.125					
10/18/2023					2.46		1.93	<0.125	
10/19/2023		<0.125							
10/23/2023	0.162					0.206			
10/24/2023									0.137
10/25/2023									
10/26/2023									

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-5A	MW-12A	MW-20	MW-21	MW-3	MW-18	MW-19	MW-22	MW-15
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
7/19/2016									
7/20/2016									
8/4/2016	1.2	0.04 (J)							
9/19/2016									
9/20/2016	1.7	0.04 (J)							
9/21/2016									
11/29/2016									
11/30/2016	1.5	<0.125							
12/1/2016									
1/31/2017									
2/1/2017	2.1	0.04 (J)							
2/2/2017									
5/22/2017									
5/23/2017									
5/24/2017	1.3								
5/25/2017		0.05 (J)							
10/9/2017									
10/10/2017	2.2	0.04 (J)							
10/11/2017									
4/17/2018									
4/18/2018	<0.125								
4/19/2018		0.05 (J)							
8/14/2018		0.05 (J)							
8/15/2018	2								
4/6/2019			0.14	0.09 (J)	0.04 (J)				
4/7/2019						0.11	0.04 (J)	0.11	0.06 (J)
4/8/2019									
4/9/2019	1.6	0.05 (J)							
4/10/2019									
7/31/2019								<0.125	<0.125
8/1/2019			0.203	0.138	<0.125	<0.125	<0.125		
9/23/2019									
9/24/2019					<0.125	<0.125			<0.125
9/25/2019			0.16	0.125			<0.125		
9/26/2019	1.92	<0.125						<0.125	
9/27/2019									
11/18/2019					<0.125				
11/19/2019				<0.125		0.135		<0.125	
11/20/2019			0.155				<0.125		<0.125
1/29/2020			0.357	0.229	<0.125		<0.125	0.206	
1/30/2020						0.271			<0.125
3/23/2020	1.27							0.246	<0.125
3/24/2020		<0.125							
3/25/2020			0.158	0.169		0.129	<0.125		
3/26/2020					<0.125				
6/22/2020									<0.125
6/23/2020			<0.125		<0.125	<0.125	<0.125	<0.125	
6/24/2020				<0.125					

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-5A	MW-12A	MW-20	MW-21	MW-3	MW-18	MW-19	MW-22	MW-15
9/21/2020			0.147					<0.125	<0.125
9/22/2020	1.33			0.127	<0.125	<0.125	<0.125		
9/23/2020									
9/24/2020		<0.125							
4/19/2021	1.13					0.138			
4/20/2021			0.164				<0.125	<0.125	<0.125
4/21/2021		<0.125		0.163					
4/22/2021					<0.125				
9/28/2021	1.86						<0.125		
9/29/2021					<0.125	0.143			
9/30/2021								<0.125	
10/1/2021		<0.125							
10/4/2021			<0.125	<0.125					<0.125
10/5/2021									
4/25/2022		<0.125							
4/26/2022	1.45					0.146	<0.125		<0.125
4/27/2022									
5/2/2022								<0.125	
5/3/2022				<0.125	<0.125				
5/4/2022			<0.125						
10/11/2022			0.182		<0.125				
10/12/2022	1.57					<0.125			<0.125
10/13/2022		<0.125		<0.125				<0.125	
10/17/2022									
10/18/2022							<0.125		
4/10/2023					<0.125				
4/11/2023			<0.125	<0.125					
4/12/2023						<0.125		<0.125	<0.125
4/13/2023							<0.125		
4/18/2023	1.27	<0.125							
10/17/2023		<0.125					<0.125		<0.125
10/18/2023									
10/19/2023						<0.125			
10/23/2023					0.157				
10/24/2023	1.3		0.163	0.129				<0.125	
10/25/2023									
10/26/2023									

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-17	MW-16	MW-13A	MW-24	MW-26	MW-25
3/29/2016							
3/30/2016							
5/18/2016							
5/19/2016							
7/19/2016							
7/20/2016							
8/4/2016							
9/19/2016							
9/20/2016							
9/21/2016							
11/29/2016							
11/30/2016							
12/1/2016							
1/31/2017							
2/1/2017							
2/2/2017							
5/22/2017							
5/23/2017							
5/24/2017							
5/25/2017							
10/9/2017							
10/10/2017							
10/11/2017							
4/17/2018							
4/18/2018							
4/19/2018							
8/14/2018							
8/15/2018							
4/6/2019							
4/7/2019							
4/8/2019	3.2	1.1	0.09 (J)				
4/9/2019				0.06 (J)			
4/10/2019							
7/31/2019		0.342	<0.125				
8/1/2019	2.07			<0.125			
9/23/2019				<0.125			
9/24/2019							
9/25/2019			<0.125				
9/26/2019		0.339					
9/27/2019	2.96						
11/18/2019				<0.125			
11/19/2019	0.812	1.48	<0.125				
11/20/2019							
1/29/2020							
1/30/2020	2.05	1.71	0.192	<0.125			
3/23/2020	1.43		0.199				
3/24/2020							
3/25/2020		1.21		<0.125			
3/26/2020							
6/22/2020			<0.125				
6/23/2020		1.32		<0.125			
6/24/2020	1.12				0.345	0.144	0.576

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-17	MW-16	MW-13A	MW-24	MW-26	MW-25
9/21/2020				<0.125			
9/22/2020		0.322	<0.125		0.969		
9/23/2020							0.72
9/24/2020	1.76					0.17	
4/19/2021		1.37		<0.125			
4/20/2021			<0.125				
4/21/2021					0.713		
4/22/2021	1.69					0.173	1.05
9/28/2021		1.96		<0.125	1.31		
9/29/2021							
9/30/2021							
10/1/2021	2.29						
10/4/2021			<0.125				
10/5/2021						<0.125	0.759
4/25/2022							
4/26/2022			<0.125				
4/27/2022				<0.125			
5/2/2022							
5/3/2022		1.69			0.884		
5/4/2022	2.21					<0.125	0.337
10/11/2022							
10/12/2022		0.472	<0.125				
10/13/2022							0.563
10/17/2022				<0.125			
10/18/2022	2.48				0.321	0.142	
4/10/2023							
4/11/2023				<0.125			
4/12/2023		1.43	<0.125				
4/13/2023					1.11		0.719
4/18/2023	2.02					0.144	
10/17/2023			<0.125	<0.125			
10/18/2023							
10/19/2023							
10/23/2023							
10/24/2023							
10/25/2023	0.367						
10/26/2023		0.94			1.55	0.161	0.365

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs

Lowman Power Plant Data: Lowman Power Plant

	MW-1 (bg)	MW-11	MW-10	MW-6	MW-2 (bg)	MW-8	MW-7	MW-9	MW-12A
3/29/2016	5.46	6.76	3.78	6.15	4.7	6.11	5.94	6.26	
3/30/2016		6.43	3.94			6.44			
5/18/2016	5.52	6.76	3.95	6.04	4.74	6.29	5.91	6.26	
5/19/2016		3.99		6.29		6.65	6.27		
7/19/2016	5.31	6.75	3.81	6.2	4.71	6.43	6.13	6.2	5.67
7/20/2016		6.79	3.96	6.33		6.54			
8/4/2016									6
9/19/2016	5.21	6.93	3.79	6.31	4.59	6.48	6.03	6.13	
9/20/2016			3.9	6.4		6.7	6.4	6.4	5.59
9/21/2016		6.9							
11/29/2016	5.3	6.65	3.83	6.35	4.82	6.43	5.99	6.26	5.39
11/30/2016			3.8			6.7	6.6		6.2
12/1/2016		7.1							
1/31/2017	5.34	6.8	4.06	5.43	4.51	6.42	5.93	6	5.69
2/1/2017			4.1			6.6	6.5		6.3
2/2/2017		7							
3/28/2017	5.35				4.54			5.9	
3/29/2017		6.88	3.9	5.82		6.19	6.05		
3/30/2017									5.57
5/22/2017								5.95	
5/23/2017	5.28				4.45				
5/24/2017		6.73	3.84	5.66		6.17	5.96		
5/25/2017									5.44
10/9/2017	4.7							5.47	
10/10/2017		6.58			4.33				5.38
10/11/2017			4.05	6.07		6.4	6.16		
4/17/2018	6.2 (HF)			6.5 (HF)	5.1 (HF)			6.5 (HF)	
4/18/2018		7.1 (HF)				6.8 (HF)	6.7 (HF)		
4/19/2018			3.9 (HF)						5.8 (HF)
8/14/2018	6 (HF)		4.4 (HF)		5.2 (HF)			5.8 (HF)	6.1 (HF)
8/15/2018		7.3 (HF)		6.4 (HF)		6.8 (HF)	6.5 (HF)		
4/6/2019									
4/7/2019				5.65		6.26	6.04		
4/8/2019									
4/9/2019		6.9	3.87						5.5
4/10/2019	5.46				4.54			5.91	
5/21/2019	5.66			5.73	4.71	6.53			
5/22/2019									
5/23/2019		6.85							
9/24/2019									
9/25/2019				6.35			6.3		
9/26/2019		7.15	4.36			6.63			5.85
9/27/2019									
11/18/2019									
11/19/2019									
11/20/2019									
1/29/2020									
1/30/2020									
3/23/2020									
3/24/2020									5.84
3/25/2020		7.06	4.31						
3/26/2020	5.8			6.08	4.81	6.6	6.27	6.06	

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-14A	MW-5A	MW-20	MW-21	MW-3	MW-18	MW-22	MW-19	MW-15
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
7/19/2016									
7/20/2016									
8/4/2016	5.63	5.97							
9/19/2016	5.75								
9/20/2016		6.01							
9/21/2016	6								
11/29/2016	5.48	5.81							
11/30/2016		6.5							
12/1/2016	6.2								
1/31/2017	5.11	5.98							
2/1/2017		6.5							
2/2/2017									
3/28/2017		5.64							
3/29/2017	5.38								
3/30/2017									
5/22/2017									
5/23/2017	5.16								
5/24/2017		5.63							
5/25/2017									
10/9/2017									
10/10/2017	5.09	5.84							
10/11/2017									
4/17/2018	5.7 (HF)								
4/18/2018		6.7 (HF)							
4/19/2018									
8/14/2018									
8/15/2018	6 (HF)	6.6 (HF)							
4/6/2019			6.1	5.98	4.53				
4/7/2019						6.24	6.24	4.95	5.49
4/8/2019									
4/9/2019		6.1							
4/10/2019	5.41								
5/21/2019									
5/22/2019			6.16	6.07	4.65	6.15	6.23	5.01	5.55
5/23/2019									
9/24/2019					4.75	5.94			5.68
9/25/2019			6.64	6.68				4.92	
9/26/2019	5.76	6.1					6.39		
9/27/2019									
11/18/2019					4.59				
11/19/2019				6.4		6.08	6.37		
11/20/2019			6.18					4.97	4.98
1/29/2020					4.96				
1/30/2020			6.44	6.42		6.19	6.41	5.57	5.03
3/23/2020		6.1					6.41		
3/24/2020	5.8								5.44
3/25/2020			6.39	6.34		6.27		5.44	
3/26/2020					5.14				

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-16	MW-17	MW-13A	MW-24	MW-25	MW-26
3/29/2016							
3/30/2016							
5/18/2016							
5/19/2016							
7/19/2016							
7/20/2016							
8/4/2016							
9/19/2016							
9/20/2016							
9/21/2016							
11/29/2016							
11/30/2016							
12/1/2016							
1/31/2017							
2/1/2017							
2/2/2017							
3/28/2017							
3/29/2017							
3/30/2017							
5/22/2017							
5/23/2017							
5/24/2017							
5/25/2017							
10/9/2017							
10/10/2017							
10/11/2017							
4/17/2018							
4/18/2018							
4/19/2018							
8/14/2018							
8/15/2018							
4/6/2019							
4/7/2019							
4/8/2019	6.91	5.9	6.12				
4/9/2019				5.78			
4/10/2019							
5/21/2019							
5/22/2019	6.72	5.86	6.09	5.94			
5/23/2019							
9/24/2019							
9/25/2019		6.06					
9/26/2019			6.24				
9/27/2019	6.97						
11/18/2019				5.56			
11/19/2019	6.92	5.99	6.27				
11/20/2019							
1/29/2020							
1/30/2020	6.63	5.85	6.11	5.5			
3/23/2020	6.73						
3/24/2020		5.97					
3/25/2020			6.22	5.59			
3/26/2020							

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-16	MW-17	MW-13A	MW-24	MW-25	MW-26
6/22/2020		5.95					
6/23/2020			6.29	5.62			
6/24/2020	6.51				6.74	5.82	6.64
9/21/2020				5.32			
9/22/2020		5.78	6.01		6.43		
9/23/2020						5.74	
9/24/2020	6.4						6.38
4/23/2021	5.06	6.25	6.7	5.28	7.15	4.44	5.12
9/28/2021			6.45	5.64	7.02		
9/29/2021							
9/30/2021							
10/1/2021	6.69						
10/4/2021		6.17					
10/5/2021						6.46	7.04
4/25/2022							
4/26/2022		5.99					
4/27/2022				5.39			
5/2/2022							
5/3/2022			6.26		6.75		
5/4/2022	6.62					6.16	6.62
10/11/2022							
10/12/2022		5.68	5.81				
10/13/2022						5.97	
10/17/2022				5.47			
10/18/2022	6.26				6.17		6.26
4/10/2023							
4/11/2023				5.3			
4/12/2023		5.7	6				
4/13/2023					6.26	5.91	
4/18/2023	6.61						6.5
10/16/2023			6.23				
10/17/2023		5.76		5.33			
10/18/2023							
10/19/2023							
10/23/2023							
10/24/2023							
10/25/2023	6.77						
10/26/2023					6.53	6.12	6.3

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs

Lowman Power Plant Data: Lowman Power Plant

	MW-1 (bg)	MW-9	MW-2 (bg)	MW-6	MW-7	MW-8	MW-11	MW-10	MW-14A
3/29/2016	15	77	14	140	390				
3/30/2016						12	230	250	
5/18/2016	14	180	14					250	
5/19/2016				130	480	12	990		
7/19/2016	12	200	14		170 (J)				
7/20/2016				64		<1	770	190 (J)	
8/4/2016									340
9/19/2016	14		16						
9/20/2016		310		94	650	<1		260	
9/21/2016							1200		390
11/29/2016	18	570	17	100					
11/30/2016					870	<1		260	
12/1/2016							830		360
1/31/2017	20	280	15	140					300
2/1/2017					230	21		270	
2/2/2017							550		
5/22/2017		460							
5/23/2017	16		16						480
5/24/2017				130	370	9.6	680	250	
5/25/2017									
10/9/2017	12	420							
10/10/2017			15				920		390
10/11/2017				120	230	2.9 (J)		230	
4/17/2018	12	230	15	170					460
4/18/2018					96	<1	780		
4/19/2018								290	
8/14/2018	11	720	15					200	
8/15/2018				89	400	<1	470		360
4/6/2019									
4/7/2019				170	280	3.4 (J)			
4/8/2019									
4/9/2019							690	210	
4/10/2019	10	790	14						390
7/31/2019									
8/1/2019									
9/23/2019									
9/24/2019	14.3	1070	20.4						
9/25/2019				62.8	158				
9/26/2019						<1	1330	386	442
9/27/2019									
11/18/2019									
11/19/2019									
11/20/2019									
1/29/2020									
1/30/2020									
3/23/2020									217
3/24/2020									
3/25/2020							1000	397	
3/26/2020	30	1100	17.9	173	72.1	6.32			
6/22/2020									
6/23/2020									
6/24/2020									

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-1 (bg)	MW-9	MW-2 (bg)	MW-6	MW-7	MW-8	MW-11	MW-10	MW-14A
9/21/2020									
9/22/2020									
9/23/2020	13	975	15.4	69.1	84.7	<1		234	
9/24/2020							590		249
4/19/2021									
4/20/2021					48.7		460	389	
4/21/2021		865		137		3.25			
4/22/2021	31.8		15.4						113
9/28/2021									
9/29/2021					80.1				117
9/30/2021	13.7	881	16.2	135		11		210	
10/1/2021							427		
10/4/2021									
10/5/2021									
4/25/2022		726							
4/26/2022									
4/27/2022				129		10.2	375	346	
5/2/2022	15.4		21.9						
5/3/2022					64.3				
5/4/2022									116
10/11/2022	11.5	767	20.7						
10/12/2022									171
10/13/2022								208	
10/17/2022				69.9	55.4	<1	262		
10/18/2022									
4/10/2023									
4/11/2023	29.9	602	20.9						
4/12/2023				123	50	<1	260	296	
4/13/2023									91
4/18/2023									
10/17/2023				54.1					
10/18/2023					37.7		169	197	
10/19/2023		411							
10/23/2023	21.9					<1			
10/24/2023									127
10/25/2023									
10/26/2023									

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-5A	MW-12A	MW-20	MW-21	MW-3	MW-18	MW-19	MW-22	MW-15
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
7/19/2016									
7/20/2016									
8/4/2016	790	310							
9/19/2016									
9/20/2016	890	330							
9/21/2016									
11/29/2016									
11/30/2016	660	350							
12/1/2016									
1/31/2017									
2/1/2017	590	200							
2/2/2017									
5/22/2017									
5/23/2017									
5/24/2017	430								
5/25/2017		210							
10/9/2017									
10/10/2017	140	230							
10/11/2017									
4/17/2018									
4/18/2018	170								
4/19/2018		320							
8/14/2018		210							
8/15/2018	130								
4/6/2019			26	25	21				
4/7/2019						17	90	12	34
4/8/2019									
4/9/2019	130	240							
4/10/2019									
7/31/2019								21.4	32.8
8/1/2019			22.8	27.3	23.1	34.8	107		
9/23/2019									
9/24/2019					26	27.8			29.6
9/25/2019			<1	18.4			94.1		
9/26/2019	204	261						8.64	
9/27/2019									
11/18/2019					21.1				
11/19/2019				46		26.6		13.2	
11/20/2019			13.4				90.7		32.1
1/29/2020			11.1	18.4	20.6		73.7	5.75	
1/30/2020						<1			36.3
3/23/2020	126							16.2	27.3
3/24/2020		395							
3/25/2020			28.4	49.3		3.65	84.7		
3/26/2020					27.8				
6/22/2020									26.8
6/23/2020			41.9		20.6	12.8	72.5	36.3	
6/24/2020				67.6					

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-5A	MW-12A	MW-20	MW-21	MW-3	MW-18	MW-19	MW-22	MW-15
9/21/2020			11.1					15.5	28.4
9/22/2020	178			9.34	19.7	25.2	84.3		
9/23/2020									
9/24/2020		232							
4/19/2021	116					<1			
4/20/2021			11.5				49.1	11.7	27
4/21/2021		211		51.8					
4/22/2021					22.5				
9/28/2021	101						61.9		
9/29/2021					20.8	30.6			
9/30/2021								20.6	
10/1/2021		241							
10/4/2021			32.5	89.5					27.6
10/5/2021									
4/25/2022		190							
4/26/2022	122					1.15	57.3		20.3
4/27/2022									
5/2/2022								20.8	
5/3/2022				81.7	23.7				
5/4/2022			28.7						
10/11/2022			<1		19.9				
10/12/2022	177					28.4			20.2
10/13/2022		253		21.2				2.89	
10/17/2022									
10/18/2022							79.8		
4/10/2023					26.4				
4/11/2023			14.5	38.9					
4/12/2023						2.04		1.42	23.1
4/13/2023							63.4		
4/18/2023	114	211							
10/17/2023		247					66.9		18.5
10/18/2023									
10/19/2023						18.2			
10/23/2023					19.4				
10/24/2023	206		<1	19.4				<1	
10/25/2023									
10/26/2023									

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-17	MW-16	MW-13A	MW-24	MW-26	MW-25
3/29/2016							
3/30/2016							
5/18/2016							
5/19/2016							
7/19/2016							
7/20/2016							
8/4/2016							
9/19/2016							
9/20/2016							
9/21/2016							
11/29/2016							
11/30/2016							
12/1/2016							
1/31/2017							
2/1/2017							
2/2/2017							
5/22/2017							
5/23/2017							
5/24/2017							
5/25/2017							
10/9/2017							
10/10/2017							
10/11/2017							
4/17/2018							
4/18/2018							
4/19/2018							
8/14/2018							
8/15/2018							
4/6/2019							
4/7/2019							
4/8/2019	620	220	210				
4/9/2019				54			
4/10/2019							
7/31/2019		223	198				
8/1/2019	868			83.3			
9/23/2019				76			
9/24/2019							
9/25/2019			190				
9/26/2019		232					
9/27/2019	981						
11/18/2019				81.2			
11/19/2019	1010	207	193				
11/20/2019							
1/29/2020							
1/30/2020	1240	192	129	85.7			
3/23/2020	1020		119				
3/24/2020							
3/25/2020		278		89.6			
3/26/2020							
6/22/2020			106				
6/23/2020		168		72.6			
6/24/2020	1040				1110	29	1220

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-17	MW-16	MW-13A	MW-24	MW-26	MW-25
9/21/2020				72.8			
9/22/2020		88.7	129		851		
9/23/2020							1330
9/24/2020	1090					38.3	
4/19/2021		149		75			
4/20/2021			95.8				
4/21/2021					717		
4/22/2021	1110					40.4	716
9/28/2021		164		86.5	204		
9/29/2021							
9/30/2021							
10/1/2021	1110						
10/4/2021			123				
10/5/2021						89.2	919
4/25/2022							
4/26/2022			79.2				
4/27/2022				80.7			
5/2/2022							
5/3/2022		141			375		
5/4/2022	1140					101	693
10/11/2022							
10/12/2022		174	72.5				
10/13/2022							1360
10/17/2022				91			
10/18/2022	169				106	109	
4/10/2023							
4/11/2023				91.3			
4/12/2023		157	52.1				
4/13/2023					214		708
4/18/2023	983					44	
10/17/2023			77	92.7			
10/18/2023							
10/19/2023							
10/23/2023							
10/24/2023							
10/25/2023	768						
10/26/2023		123			372	92.8	1220

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-5A	MW-12A	MW-20	MW-21	MW-3	MW-18	MW-19	MW-22	MW-15
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
7/19/2016									
7/20/2016									
8/4/2016	2500	810							
9/19/2016									
9/20/2016	2300	750							
9/21/2016									
11/29/2016									
11/30/2016	1800	770							
12/1/2016									
1/31/2017									
2/1/2017	2200	670							
2/2/2017									
5/22/2017									
5/23/2017									
5/24/2017	1600								
5/25/2017		550							
10/9/2017									
10/10/2017	1300	620							
10/11/2017									
4/17/2018									
4/18/2018	1300								
4/19/2018		900							
8/14/2018		520							
8/15/2018	1000								
4/6/2019			170	220	24				
4/7/2019						260	210	360	150
4/8/2019									
4/9/2019	920	660							
4/10/2019									
7/31/2019								420	104
8/1/2019			245	330	<25	196	258		
9/23/2019									
9/24/2019					70.7	220			128
9/25/2019			212	300			283		
9/26/2019	794	557						390	
9/27/2019									
11/18/2019					52.5				
11/19/2019				296		157		383	
11/20/2019			202				229		98.9
1/29/2020			146	265	52.6		145	364	
1/30/2020						263			106
3/23/2020	612							402	76
3/24/2020		717							
3/25/2020			208	314		227	220		
3/26/2020					80				
6/22/2020									87.7
6/23/2020			246		66.6	208	220	429	
6/24/2020				369					

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-5A	MW-12A	MW-20	MW-21	MW-3	MW-18	MW-19	MW-22	MW-15
9/21/2020			242					434	112
9/22/2020	646			298	56	170	217		
9/23/2020									
9/24/2020		538							
4/19/2021	579					238			
4/20/2021			233				166	406	83.3
4/21/2021		575		424					
4/22/2021					125				
9/28/2021	640						170		
9/29/2021					61.3	163			
9/30/2021								420	
10/1/2021		242							
10/4/2021			180	294					66
10/5/2021									
4/25/2022		460							
4/26/2022	652					234	188		70
4/27/2022									
5/2/2022								404	
5/3/2022				313	61.4				
5/4/2022			206						
10/11/2022			185		73.6				
10/12/2022	608					239			79.5
10/13/2022		537		312				393	
10/17/2022									
10/18/2022							235		
4/11/2023			210	312					
4/12/2023						208		402	85.7
4/13/2023							126		
4/18/2023	524	447			<25				
10/17/2023		518					226		68
10/18/2023									
10/19/2023						148			
10/23/2023					<25				
10/24/2023	582		128	252				338	
10/25/2023									
10/26/2023									

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-17	MW-16	MW-13A	MW-24	MW-26	MW-25
3/29/2016							
3/30/2016							
5/18/2016							
5/19/2016							
7/19/2016							
7/20/2016							
8/4/2016							
9/19/2016							
9/20/2016							
9/21/2016							
11/29/2016							
11/30/2016							
12/1/2016							
1/31/2017							
2/1/2017							
2/2/2017							
5/22/2017							
5/23/2017							
5/24/2017							
5/25/2017							
10/9/2017							
10/10/2017							
10/11/2017							
4/17/2018							
4/18/2018							
4/19/2018							
8/14/2018							
8/15/2018							
4/6/2019							
4/7/2019							
4/8/2019	2000	1300	700				
4/9/2019				190			
4/10/2019							
7/31/2019		945	726				
8/1/2019	2100			264			
9/23/2019				289			
9/24/2019							
9/25/2019			602				
9/26/2019		765					
9/27/2019	2200						
11/18/2019				236			
11/19/2019	2170	792	576				
11/20/2019							
1/29/2020							
1/30/2020	2910	1050	555	278			
3/23/2020	2200		463				
3/24/2020							
3/25/2020		872		266			
3/26/2020							
6/22/2020			520				
6/23/2020		998		287			
6/24/2020	2830				2310	224	2620

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 1/16/2024 7:16 PM View: Interwell PLs
 Lowman Power Plant Data: Lowman Power Plant

	MW-23	MW-17	MW-16	MW-13A	MW-24	MW-26	MW-25
9/21/2020				242			
9/22/2020		642	517		1930		
9/23/2020							2850
9/24/2020	2430					202	
4/19/2021		724		312			
4/20/2021			469				
4/21/2021					1810		
4/22/2021	2730					272	1550
9/28/2021		695		340	682		
9/29/2021							
9/30/2021							
10/1/2021	2860						
10/4/2021			492				
10/5/2021						368	1820
4/25/2022							
4/26/2022			440				
4/27/2022				323			
5/2/2022							
5/3/2022		600			1080		
5/4/2022	2930					396	1590
10/11/2022							
10/12/2022		672	385				
10/13/2022							2740
10/17/2022				339			
10/18/2022	1780				1240	338	
4/11/2023				308			
4/12/2023		603	322				
4/13/2023					543		1360
4/18/2023	1950					263	
10/17/2023			376	314			
10/18/2023							
10/19/2023							
10/23/2023							
10/24/2023							
10/25/2023	1620						
10/26/2023		526			853	304	2750

Figure F. Trend Tests

Appendix III Trend Test - Significant Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	MW-12A	-0.05812	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-13A	0.006016	58	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-14A	-0.6171	-128	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-16	-0.3863	-71	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-17	-0.6838	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-19	-0.03418	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-5A	-1.693	-132	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-7	-1.191	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-9	0.5489	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-1 (bg)	1.397	91	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-11	-53.95	-94	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-12A	-6.745	-98	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-14A	-19.98	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-16	-15.46	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-17	-21.47	-63	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-5A	-47.15	-122	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-7	-32.26	-140	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-9	46.17	95	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-11	-48.1	-114	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-12A	-6.489	-98	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-13A	7.922	85	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-14A	-27.41	-95	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-15	-1.221	-75	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-16	-18.59	-74	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-17	-22.67	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-5A	-36.46	-120	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-6	-4.934	-159	-81	Yes	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1 (bg)	0.01377	117	81	Yes	20	45	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-8	0.01642	112	81	Yes	20	5	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-11	-86.96	-84	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-14A	-43.21	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-16	-34.39	-74	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-17	-22.59	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-19	-8.176	-51	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-2 (bg)	0.6305	87	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-5A	-56.25	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-7	-49.68	-131	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-9	91.8	86	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1 (bg)	11.66	87	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-11	-291.2	-98	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-12A	-39.69	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-13A	22.47	51	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-14A	-115.8	-106	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-16	-74.31	-77	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-17	-115.5	-61	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-5A	-240.5	-130	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-7	-131.2	-139	-81	Yes	20	0	n/a	n/a	0.01	NP

Appendix III Trend Test - All Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	MW-1 (bg)	-0.004049	-81	-81	No	20	50	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-10	0.01793	48	81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-11	-0.9332	-69	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-12A	-0.05812	-85	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-13A	0.006016	58	48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-14A	-0.6171	-128	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-16	-0.3863	-71	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-17	-0.6838	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-18	-0.007107	-18	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-19	-0.03418	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-2 (bg)	-0.00149	-67	-74	No	19	52.63	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-20	0.003629	29	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-21	0.009379	28	48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-22	0.0008597	8	48	No	14	7.143	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-23	-0.292	-18	-48	No	14	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-24	-2.349	-18	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-25	-1.209	-10	-21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-26	0.06738	12	21	No	8	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-5A	-1.693	-132	-68	Yes	18	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-6	-0.01522	-55	-81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-7	-1.191	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-8	0.007931	37	81	No	20	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-9	0.5489	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-1 (bg)	1.397	91	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-10	-4.182	-70	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-11	-53.95	-94	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-12A	-6.745	-98	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-14A	-19.98	-99	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-16	-15.46	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-17	-21.47	-63	-48	Yes	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-2 (bg)	0	-8	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-21	-0.3746	-5	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-22	-1.99	-19	-48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-23	3.147	3	48	No	14	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-24	-103.5	-18	-21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-25	-22.12	-6	-21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-26	4.585	2	21	No	8	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-5A	-47.15	-122	-68	Yes	18	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-6	-1.466	-28	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-7	-32.26	-140	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-8	-0.6797	-38	-81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-9	46.17	95	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-1 (bg)	-0.08531	-48	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-10	-5.096	-74	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-11	-48.1	-114	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-12A	-6.489	-98	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-13A	7.922	85	48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-14A	-27.41	-95	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-15	-1.221	-75	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-16	-18.59	-74	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-17	-22.67	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-18	-0.9134	-46	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-19	-4.011	-48	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-2 (bg)	-0.1119	-28	-74	No	19	21.05	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-20	-1.107	-43	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-21	-2.949	-35	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-22	-2.066	-47	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-23	-12.65	-3	-48	No	14	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-24	-81.11	-16	-21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-25	-45.64	-10	-21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-26	5.05	14	21	No	8	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-5A	-36.46	-120	-68	Yes	18	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-6	-4.934	-159	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-8	-3.346	-59	-81	No	20	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-9	8.621	28	81	No	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1 (bg)	0.01377	117	81	Yes	20	45	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-11	0.03305	39	81	No	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-17	0.073	13	48	No	14	0	n/a	n/a	0.01	NP

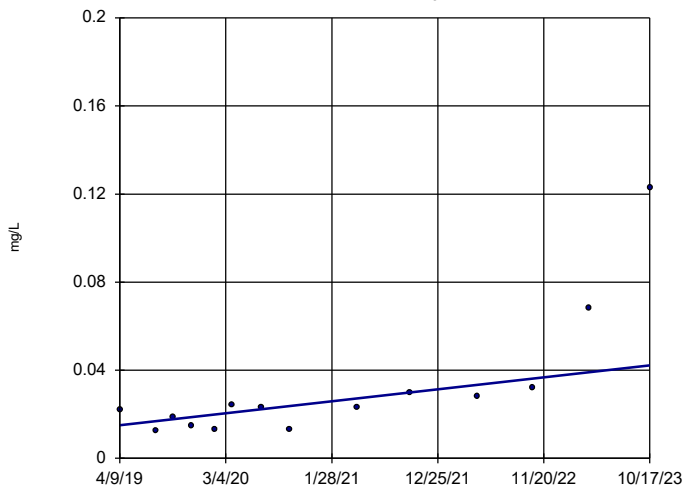
Appendix III Trend Test - All Results

Lowman Power Plant Data: Lowman Power Plant Printed 1/16/2024, 7:20 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Fluoride, total (mg/L)	MW-2 (bg)	0	0	74	No	19	94.74	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-20	-0.006003	-15	-48	No	14	28.57	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-23	-0.1747	-15	-48	No	14	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-24	0.2199	10	21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-25	-0.06979	-8	-21	No	8	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-5A	-0.03603	-23	-68	No	18	5.556	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-7	0.1397	79	81	No	20	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-8	0.01642	112	81	Yes	20	5	n/a	n/a	0.01	NP
pH, Field (SU)	MW-1 (bg)	0.05343	60	87	No	21	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-11	0.04365	113	131	No	28	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-2 (bg)	0.005783	9	81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-20	0.06298	21	48	No	14	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-21	0.1118	30	48	No	14	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-22	0.0367	27	48	No	14	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-23	-0.09434	-35	-48	No	14	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-24	-0.1598	-8	-21	No	8	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-8	0.04977	117	131	No	28	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-1 (bg)	0.3046	20	81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-10	1.085	7	81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-11	-86.96	-84	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-12A	-5.468	-17	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-13A	3.362	45	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-14A	-43.21	-75	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-16	-34.39	-74	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-17	-22.59	-49	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-19	-8.176	-51	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-2 (bg)	0.6305	87	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-23	50.23	18	48	No	14	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-24	-251.7	-16	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-25	-13.16	-3	-21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-26	19.11	18	21	No	8	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-5A	-56.25	-84	-68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-6	-1.954	-25	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-7	-49.68	-131	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-9	91.8	86	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1 (bg)	11.66	87	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-10	-21.54	-58	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-11	-291.2	-98	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-12A	-39.69	-89	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-13A	22.47	51	48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-14A	-115.8	-106	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-16	-74.31	-77	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-17	-115.5	-61	-48	Yes	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-2 (bg)	2.386	41	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-21	2.37	2	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-22	0.9481	3	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-23	23.6	4	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-24	-449	-18	-21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-25	-42.95	-2	-21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-26	28.49	8	21	No	8	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-5A	-240.5	-130	-68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-6	-8.261	-55	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-7	-131.2	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-8	-9.69	-60	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-9	130.7	62	81	No	20	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

MW-13A

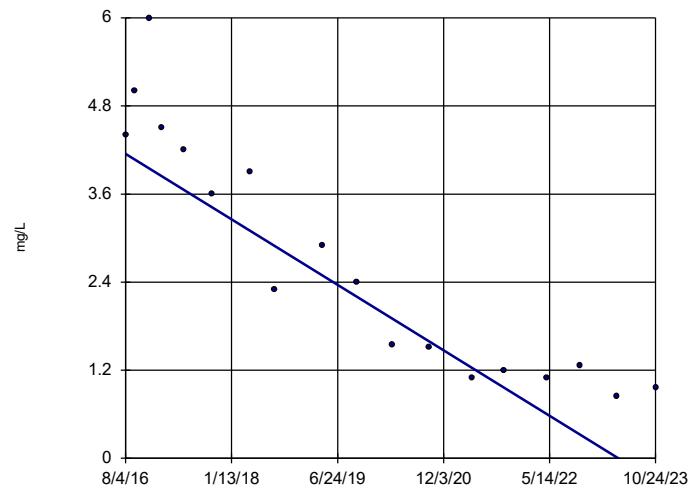


n = 14
 Slope = 0.006016 units per year.
 Mann-Kendall statistic = 58
 critical = 48
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-14A

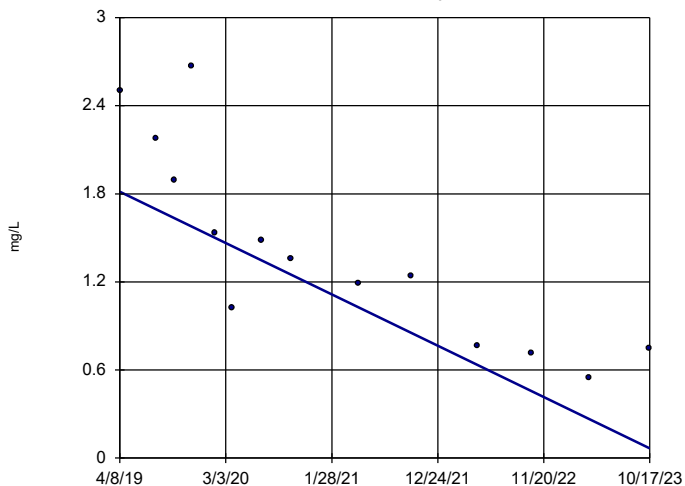


n = 18
 Slope = -0.6171 units per year.
 Mann-Kendall statistic = -128
 critical = -68
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-16

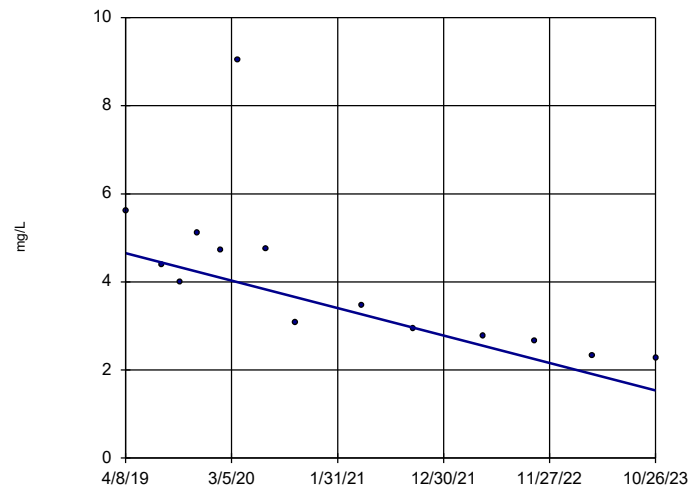


n = 14
 Slope = -0.3863 units per year.
 Mann-Kendall statistic = -71
 critical = -48
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-17

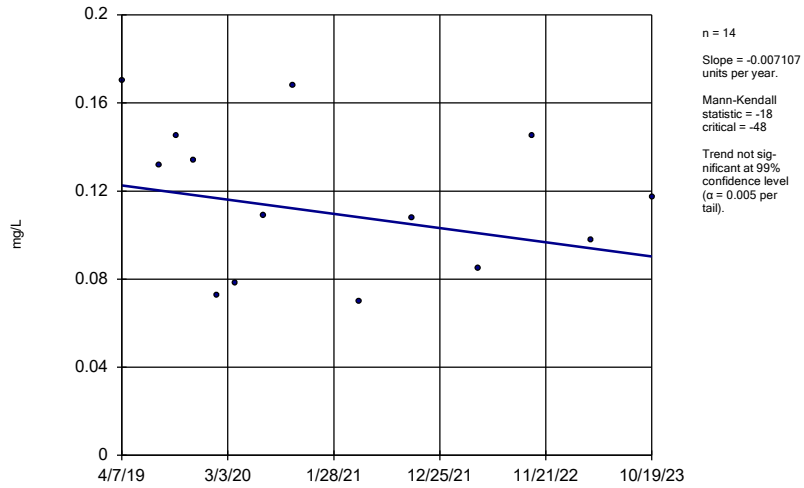


n = 14
 Slope = -0.6838 units per year.
 Mann-Kendall statistic = -65
 critical = -48
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

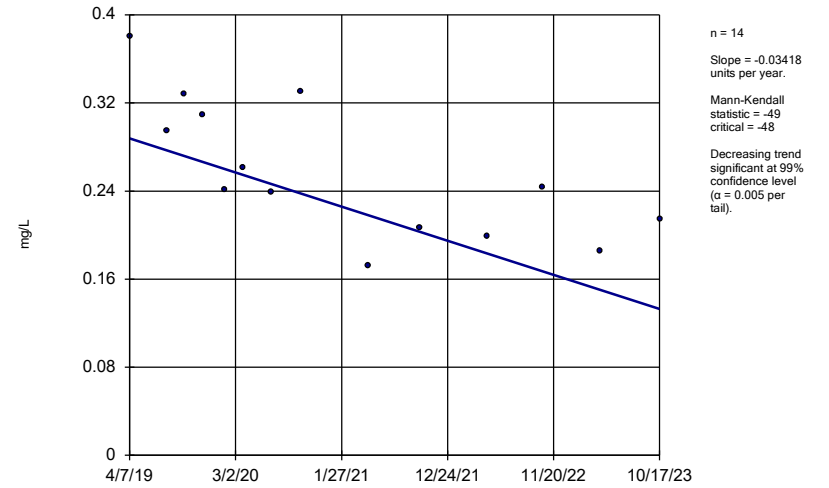
MW-18



Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

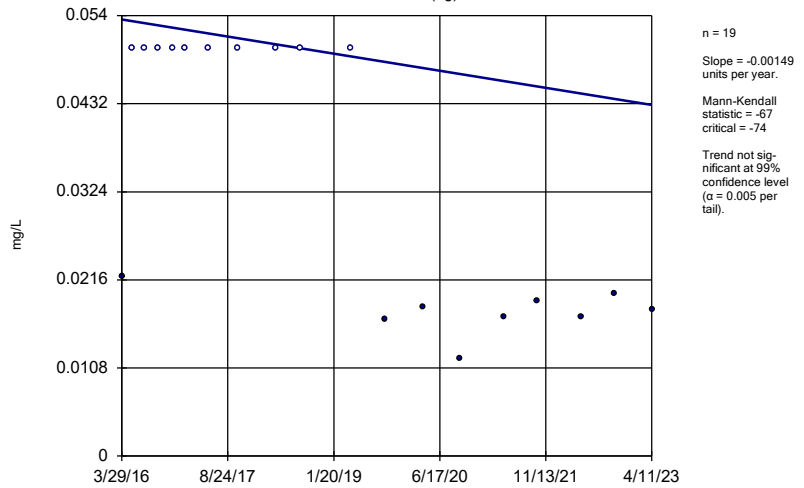
MW-19



Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

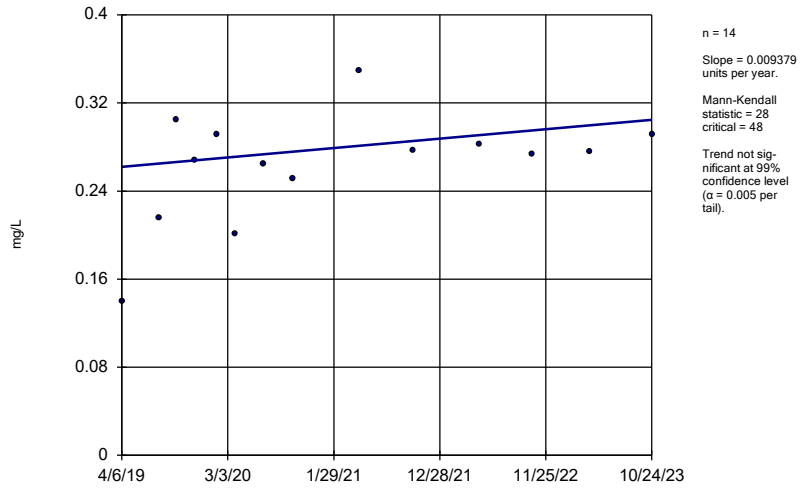
Sen's Slope Estimator

MW-2 (bg)



Sen's Slope Estimator

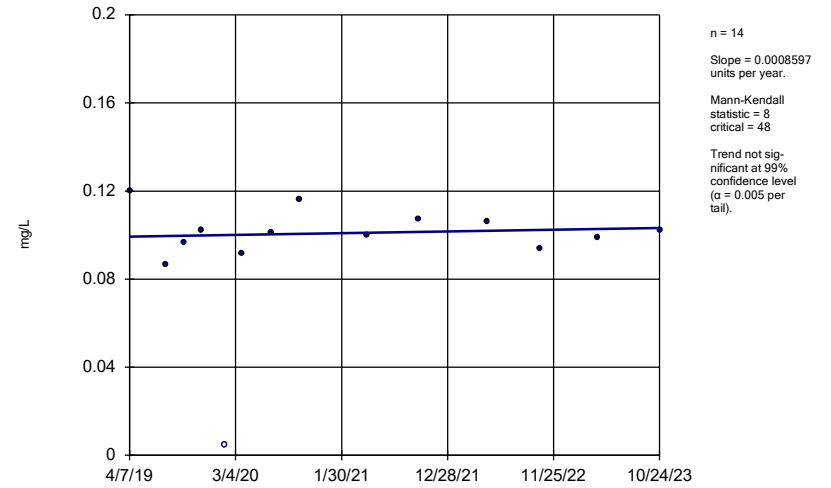
MW-21



Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

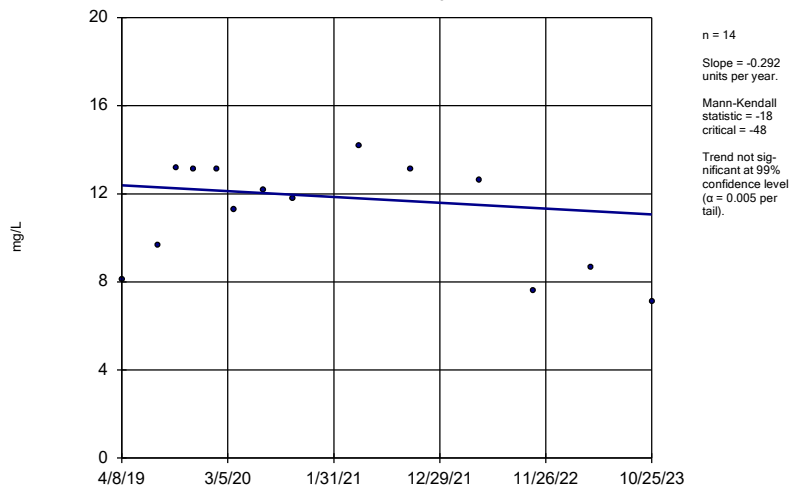
MW-22



Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

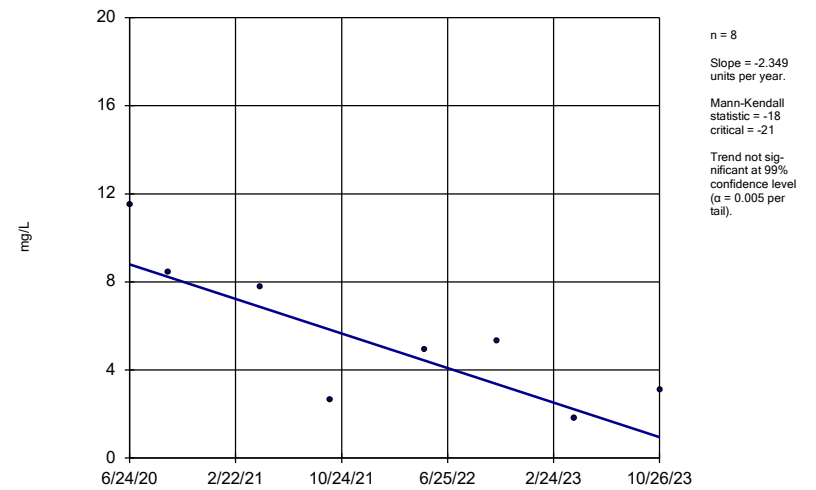
MW-23



Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

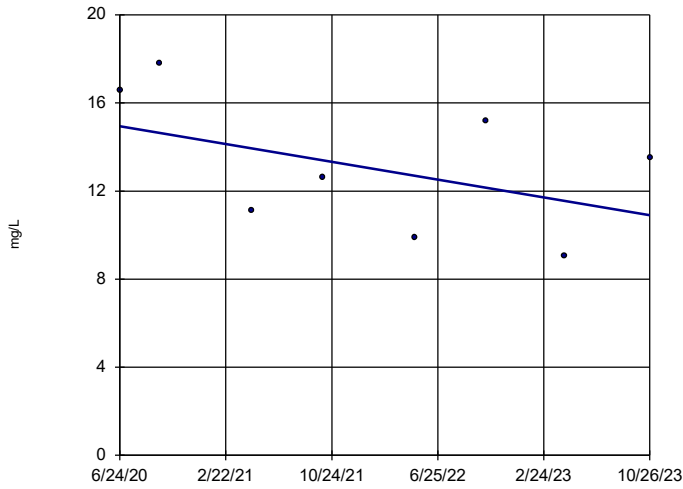
MW-24



Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-25

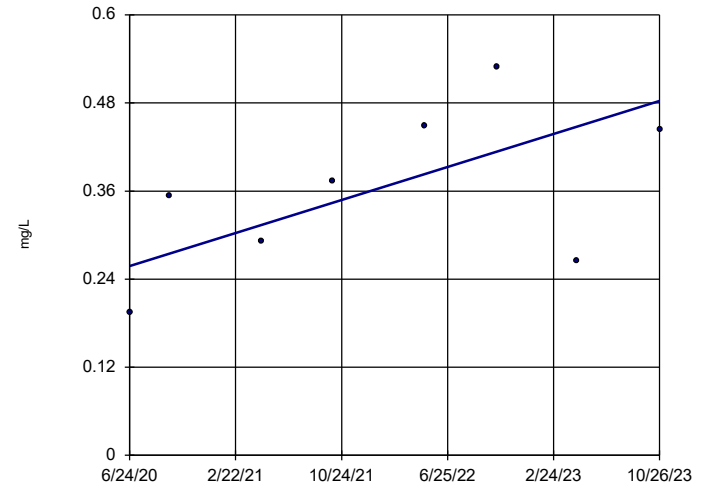


n = 8
 Slope = -1.209
 units per year.
 Mann-Kendall
 statistic = -10
 critical = -21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-26

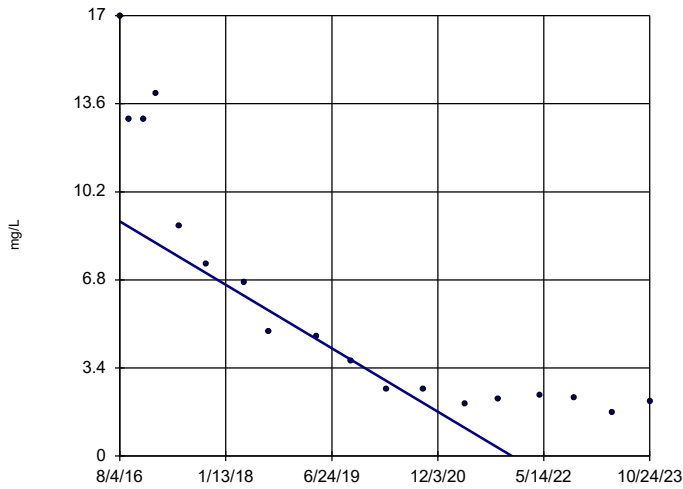


n = 8
 Slope = 0.06738
 units per year.
 Mann-Kendall
 statistic = 12
 critical = 21
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-5A

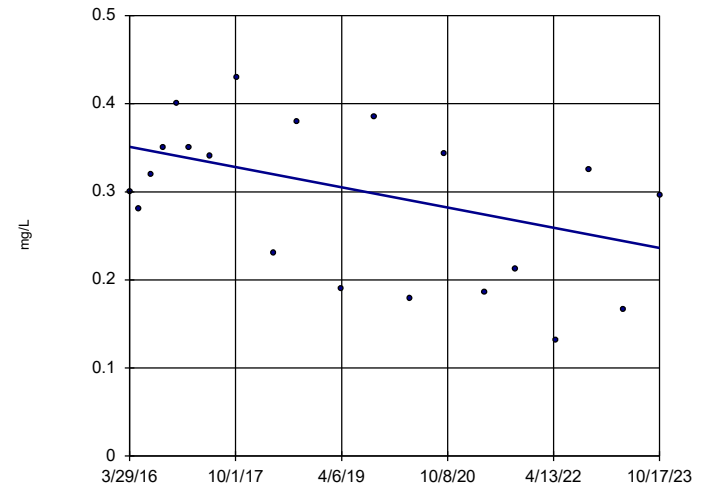


n = 18
 Slope = -1.693
 units per year.
 Mann-Kendall
 statistic = -132
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-6

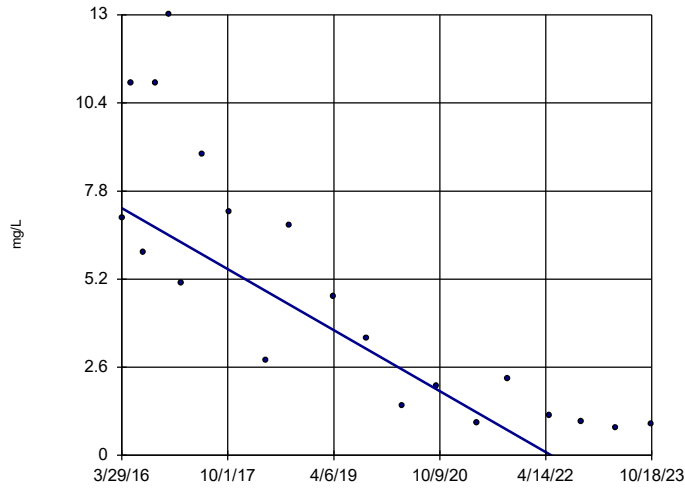


n = 20
 Slope = -0.01522
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-7

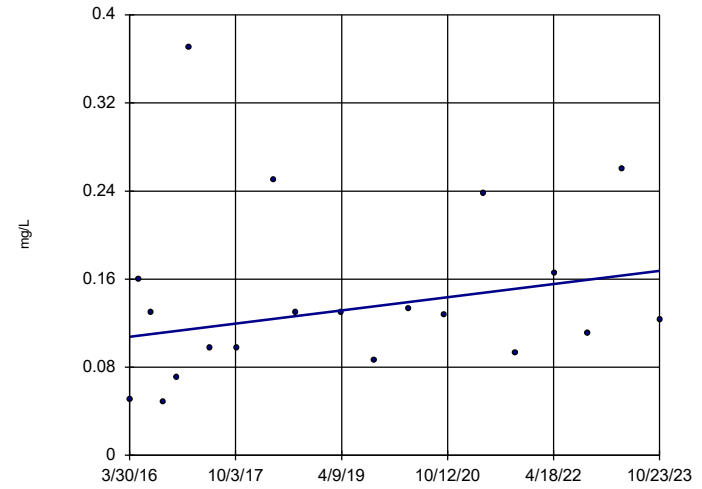


n = 20
 Slope = -1.191
 units per year.
 Mann-Kendall
 statistic = -139
 critical = -81
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-8

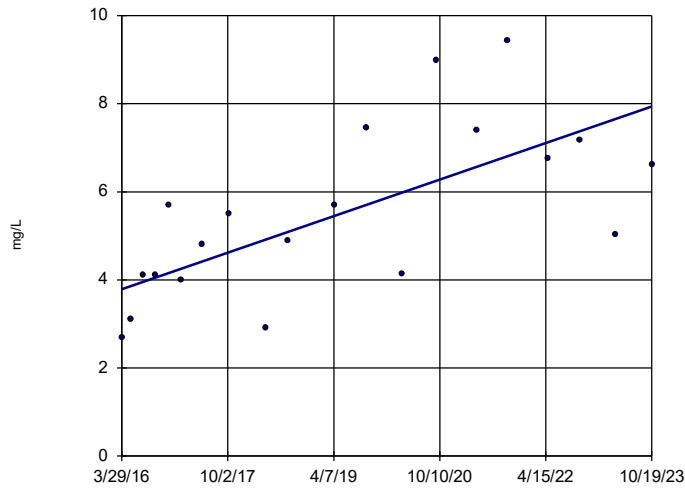


n = 20
 Slope = 0.007931
 units per year.
 Mann-Kendall
 statistic = 37
 critical = 81
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-9

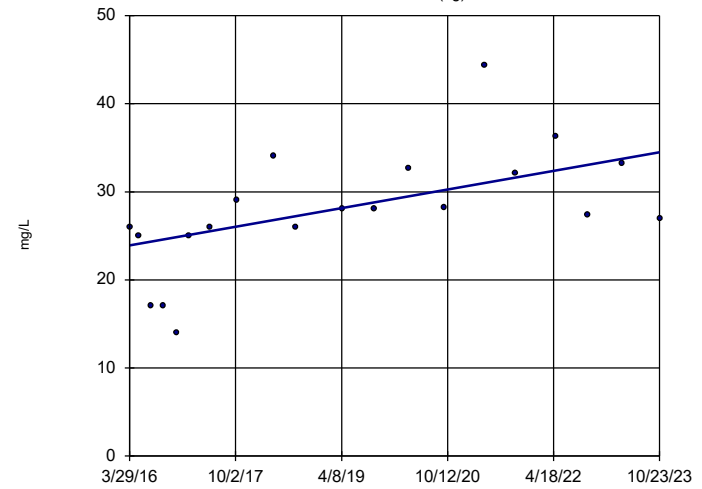


n = 20
 Slope = 0.5489
 units per year.
 Mann-Kendall
 statistic = 98
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Boron, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-1 (bg)

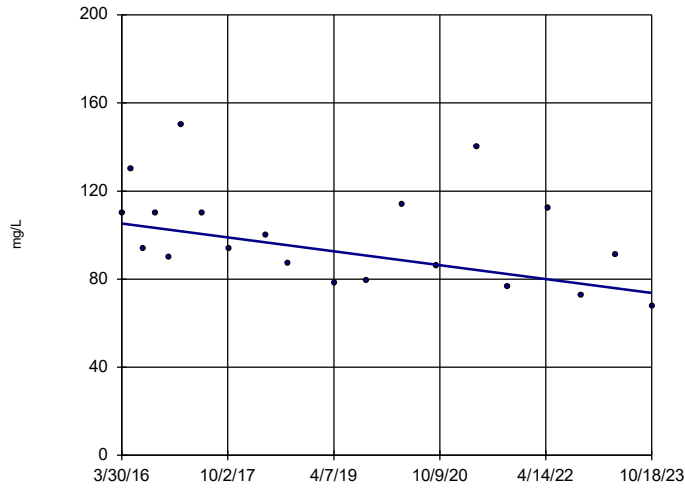


n = 20
 Slope = 1.397
 units per year.
 Mann-Kendall
 statistic = 91
 critical = 81
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

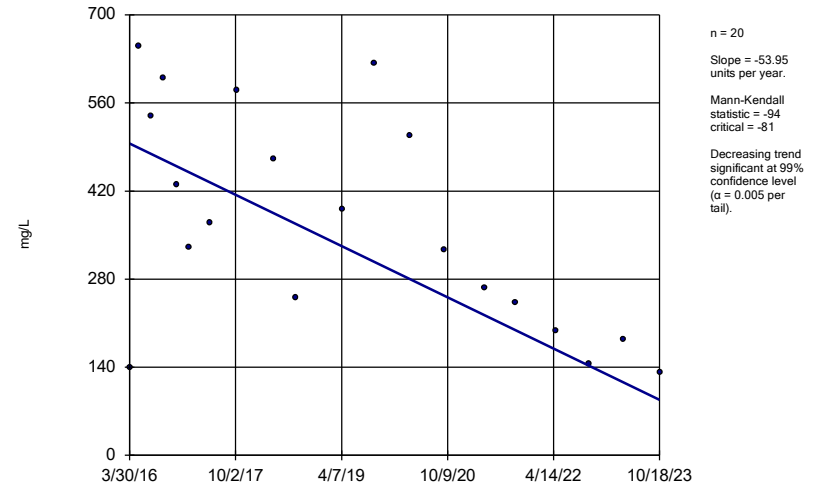
MW-10



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

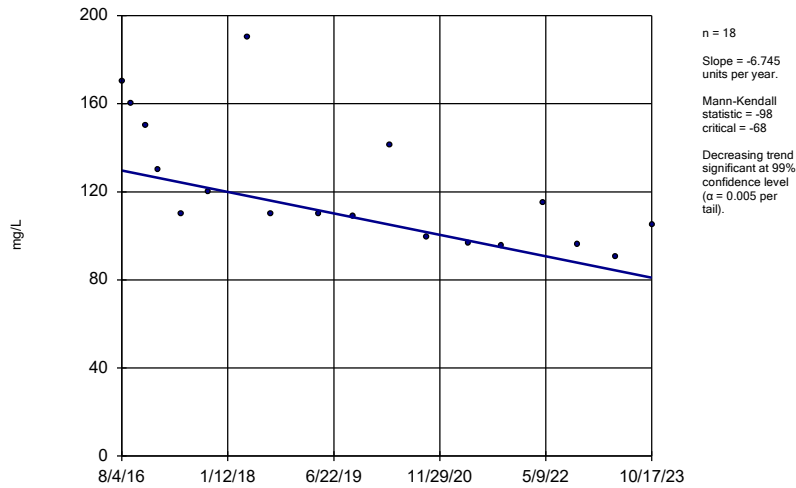
MW-11



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

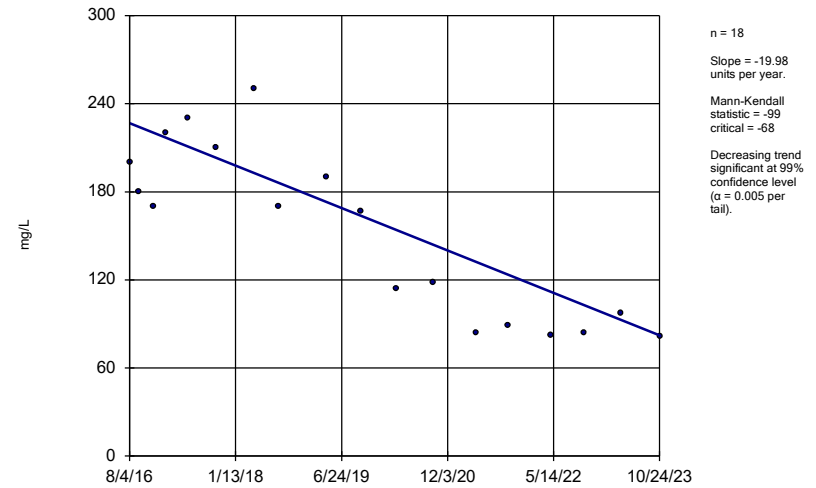
MW-12A



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

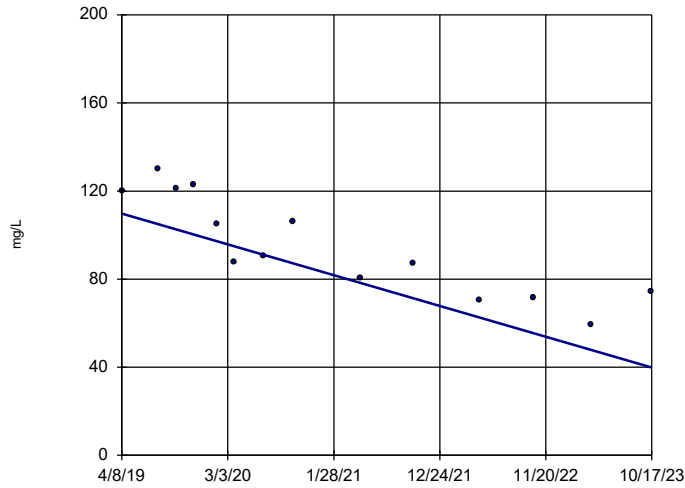
MW-14A



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-16

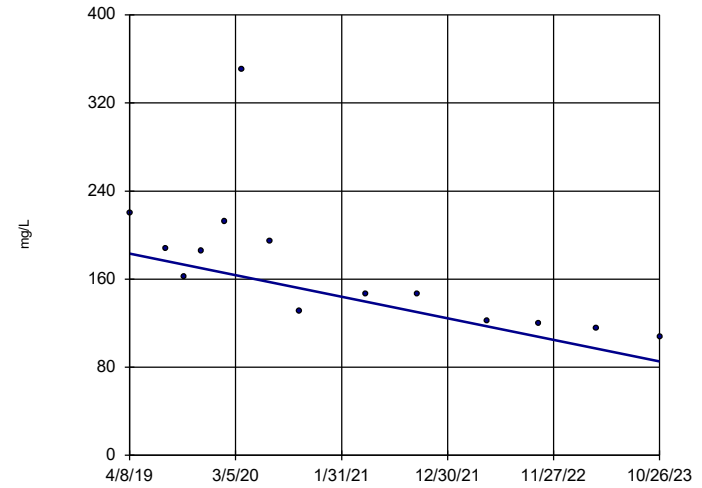


n = 14
 Slope = -15.46
 units per year.
 Mann-Kendall
 statistic = -65
 critical = -48
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-17

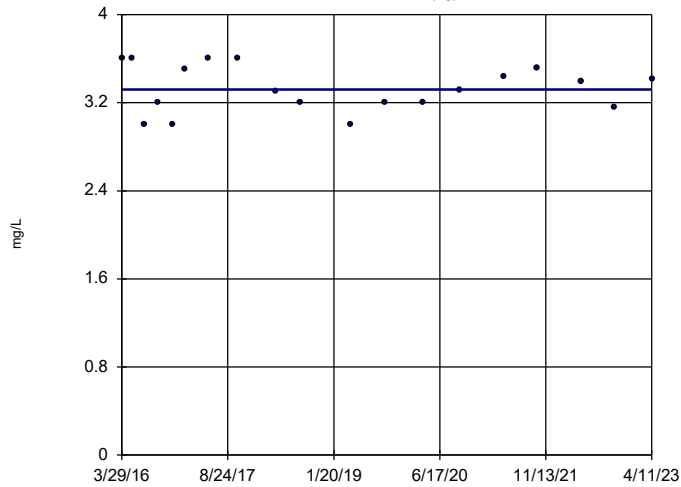


n = 14
 Slope = -21.47
 units per year.
 Mann-Kendall
 statistic = -63
 critical = -48
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-2 (bg)

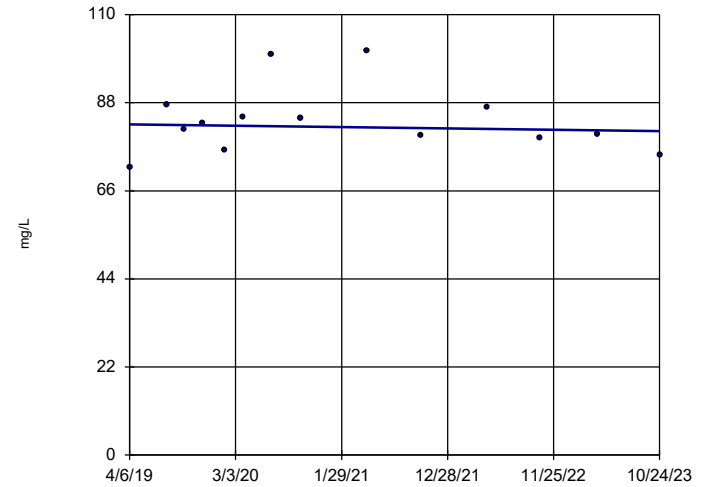


n = 19
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -8
 critical = -74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-21

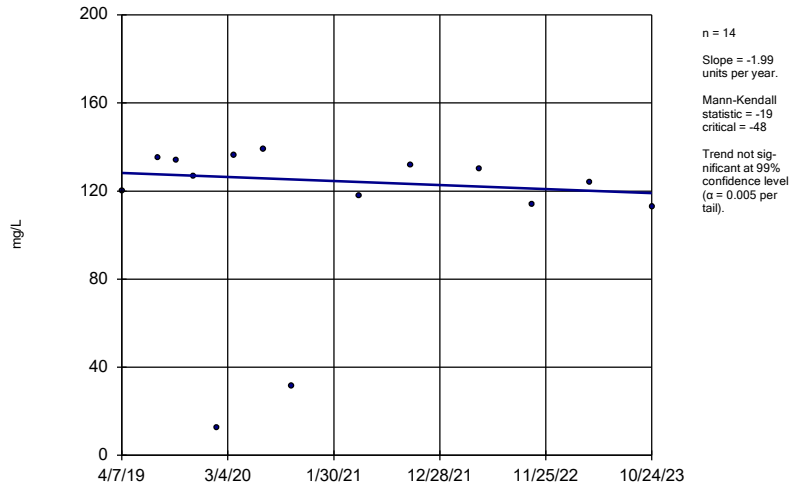


n = 14
 Slope = -0.3746
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

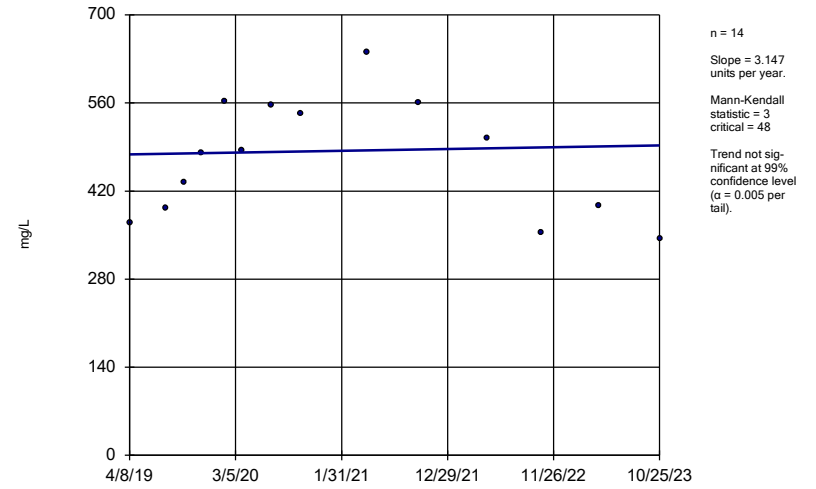
MW-22



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

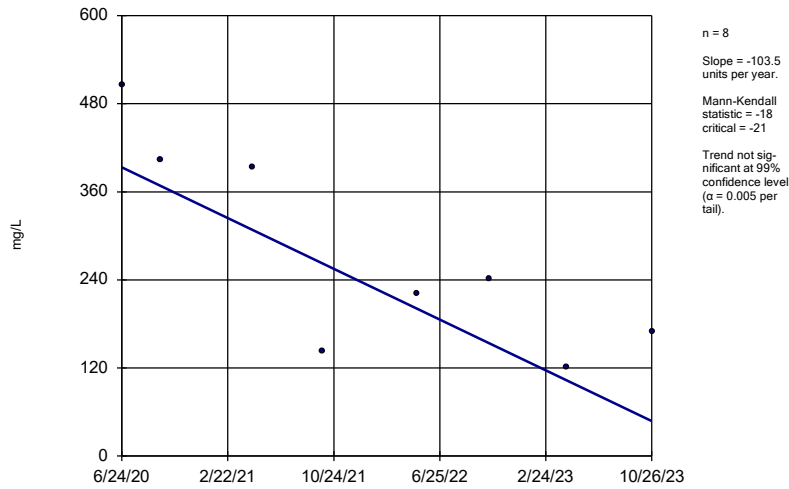
MW-23



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

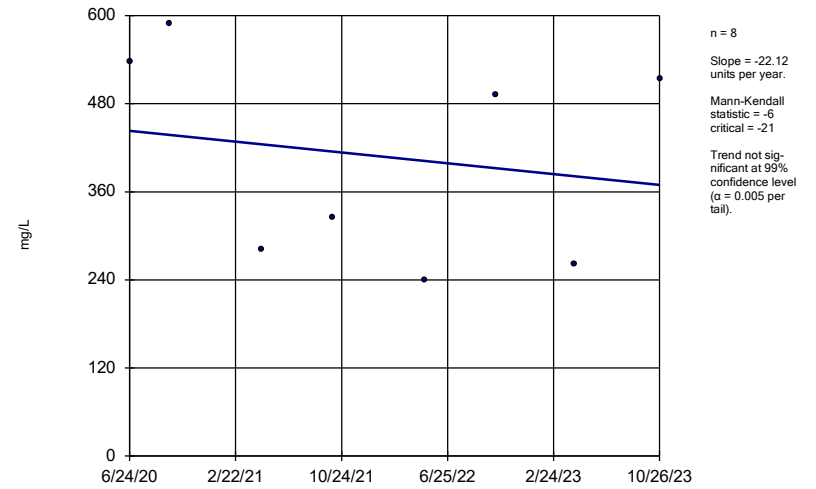
MW-24



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

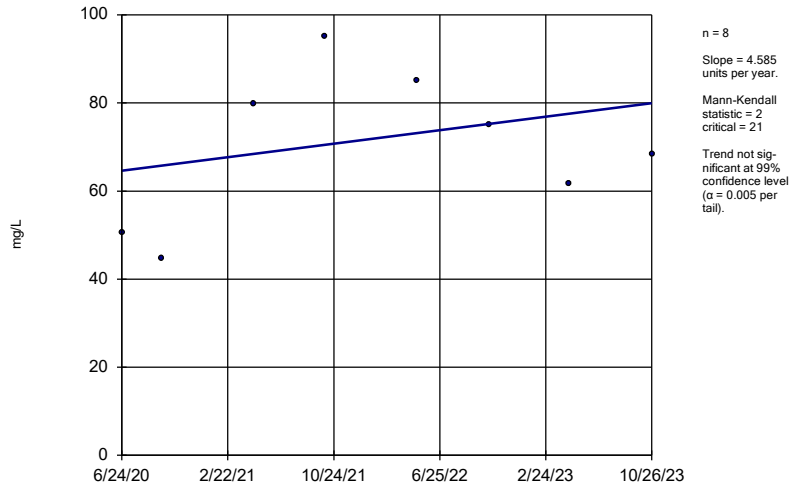
MW-25



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

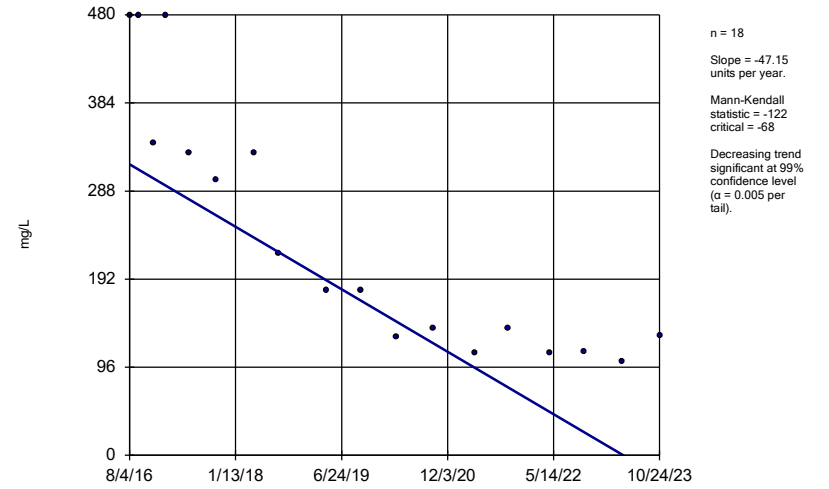
MW-26



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

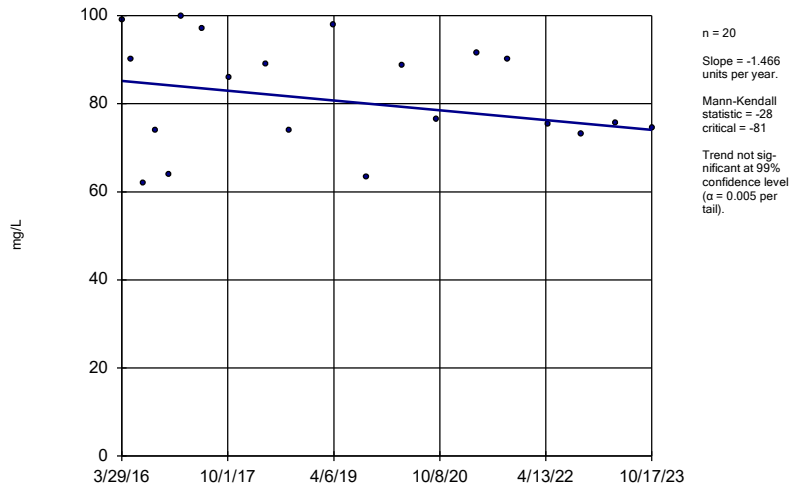
MW-5A



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

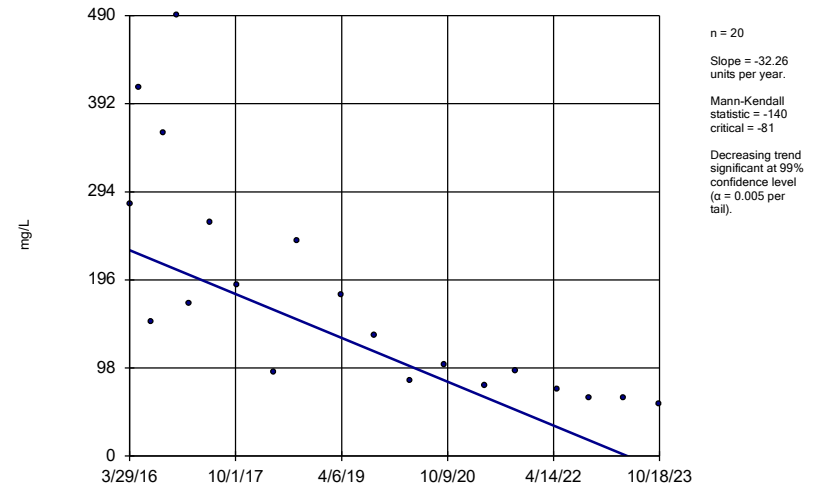
MW-6



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

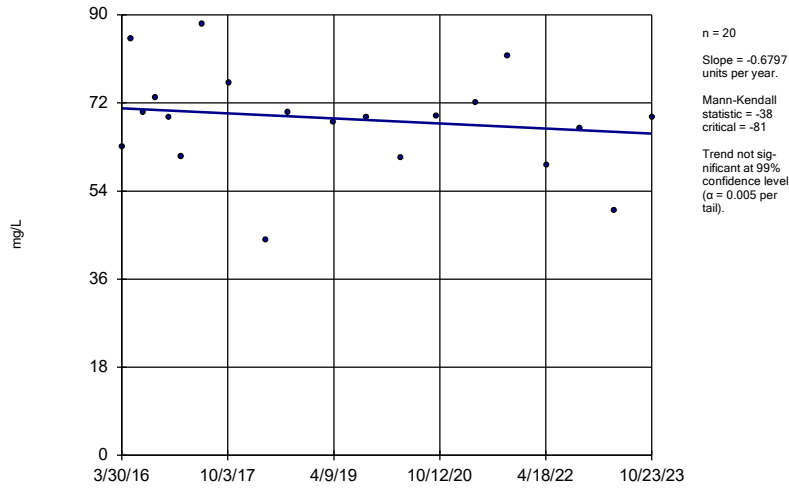
MW-7



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

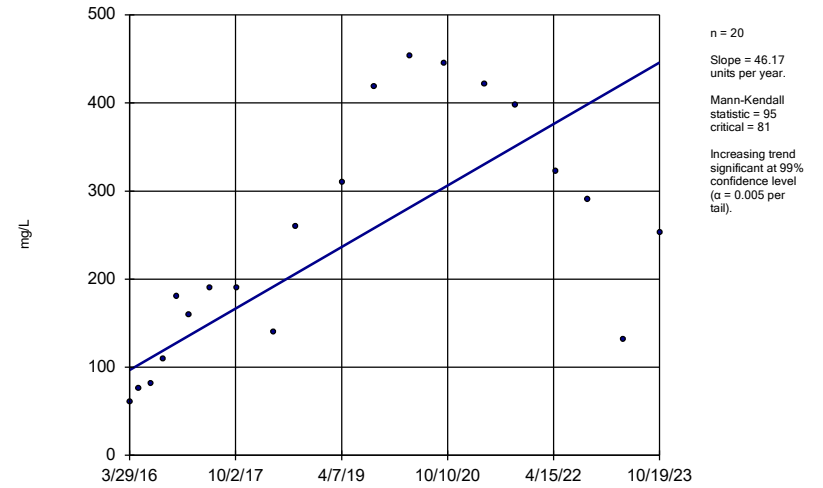
MW-8



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

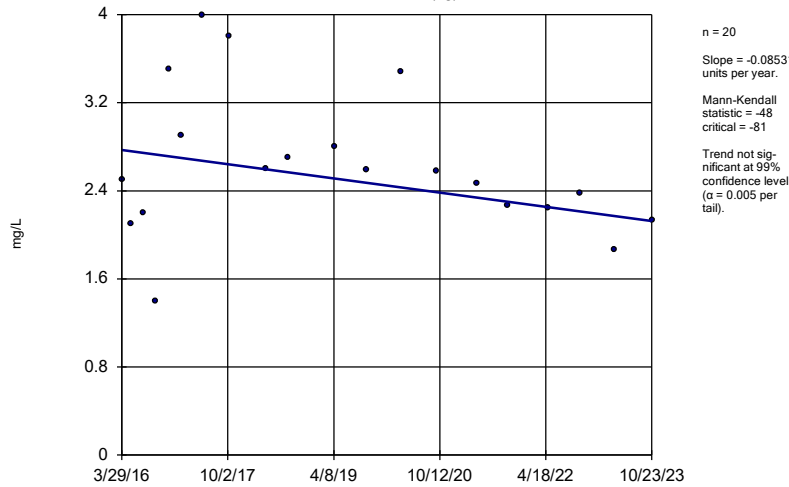
MW-9



Constituent: Calcium, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

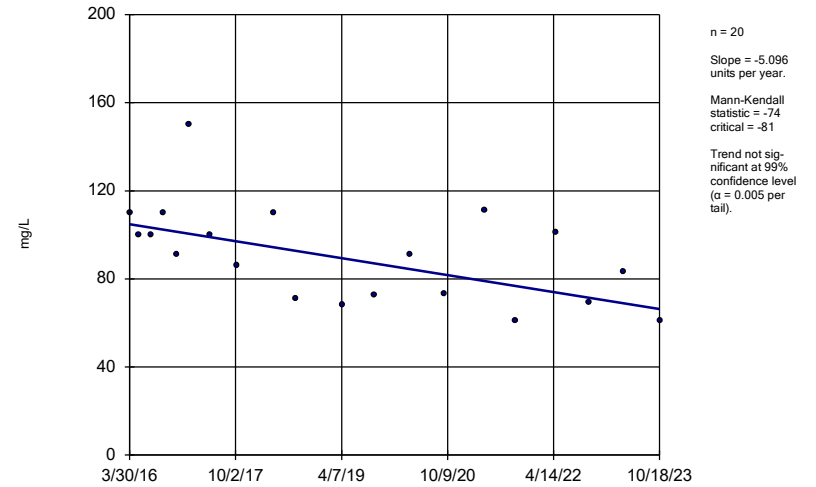
MW-1 (bg)



Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

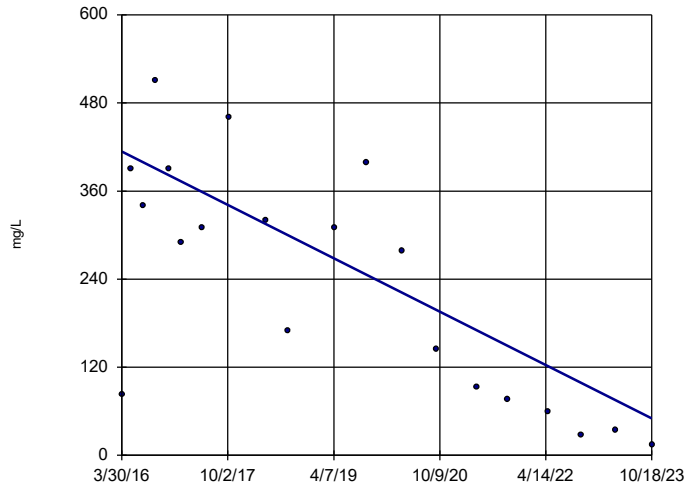
MW-10



Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-11

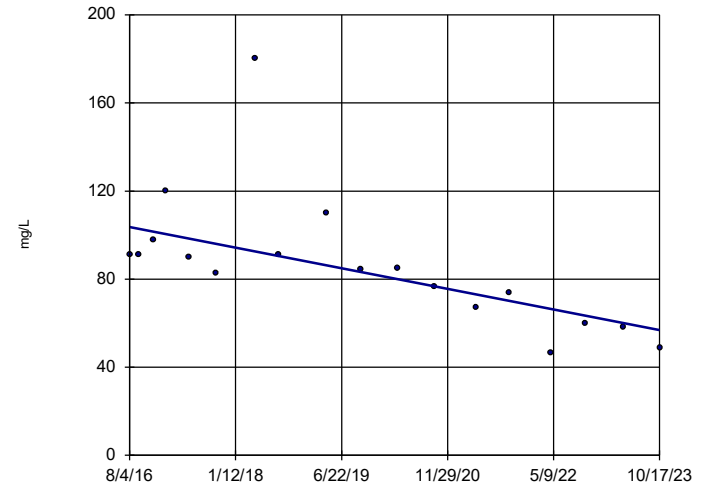


n = 20
 Slope = -48.1 units per year.
 Mann-Kendall statistic = -114
 critical = -81
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-12A

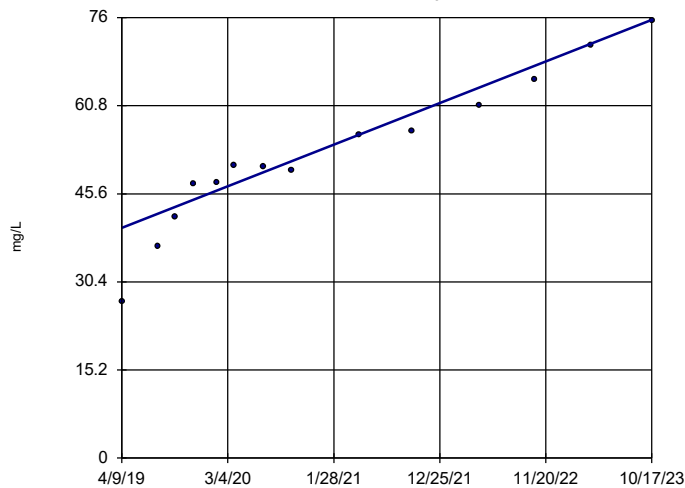


n = 18
 Slope = -6.489 units per year.
 Mann-Kendall statistic = -98
 critical = -68
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-13A

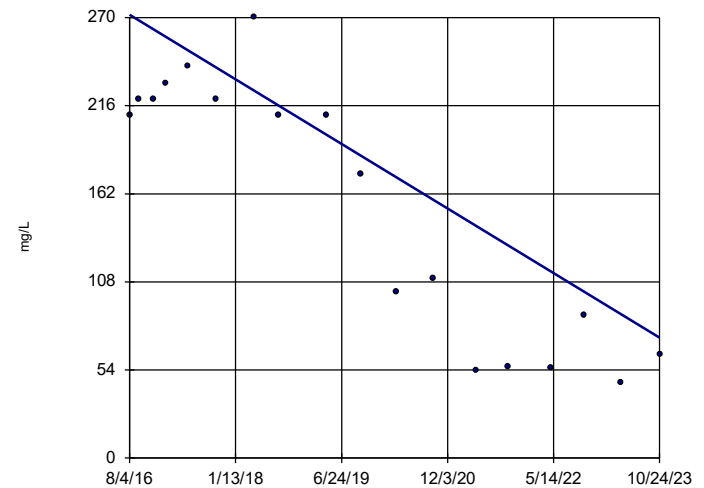


n = 14
 Slope = 7.922 units per year.
 Mann-Kendall statistic = 85
 critical = 48
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-14A

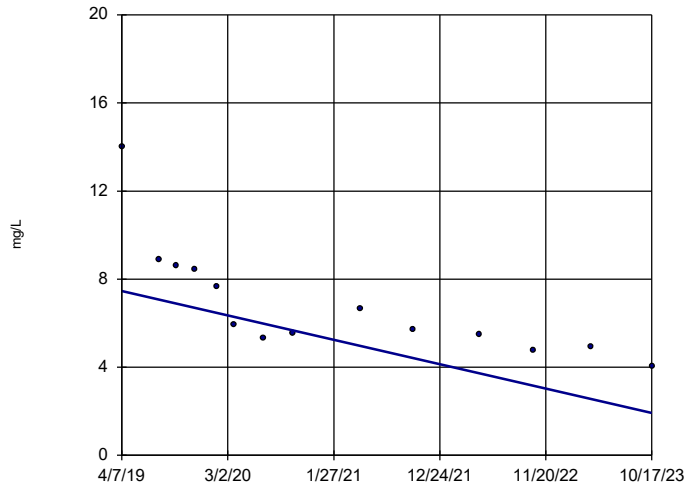


n = 18
 Slope = -27.41 units per year.
 Mann-Kendall statistic = -95
 critical = -68
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

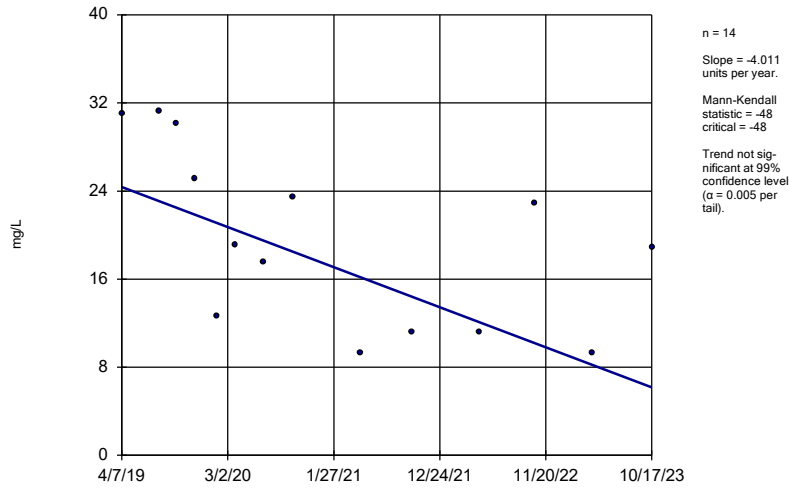
Sen's Slope Estimator

MW-15



Sen's Slope Estimator

MW-19

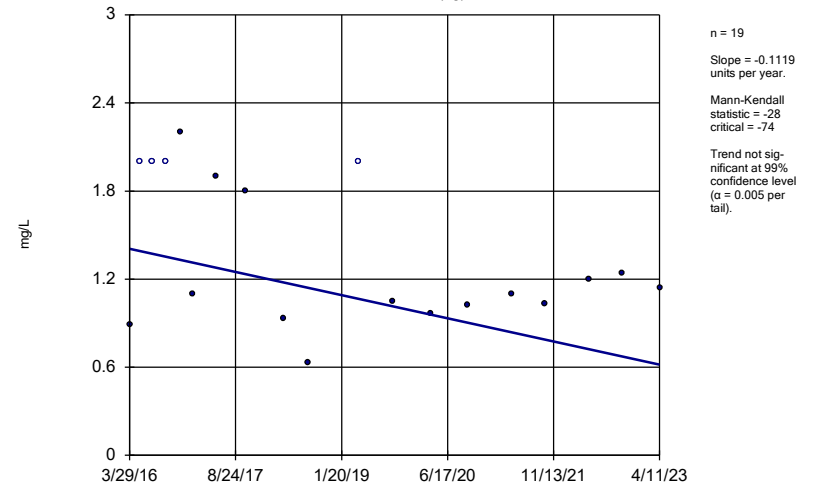


Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Hollow symbols indicate censored values.

Sen's Slope Estimator

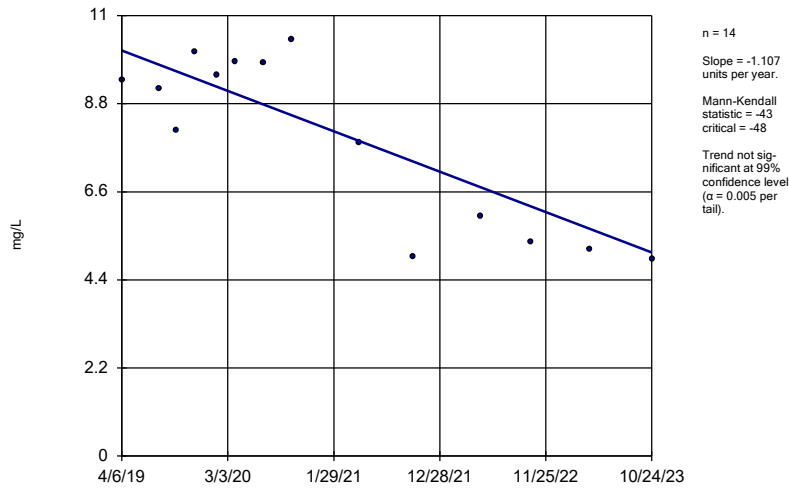
MW-2 (bg)



Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

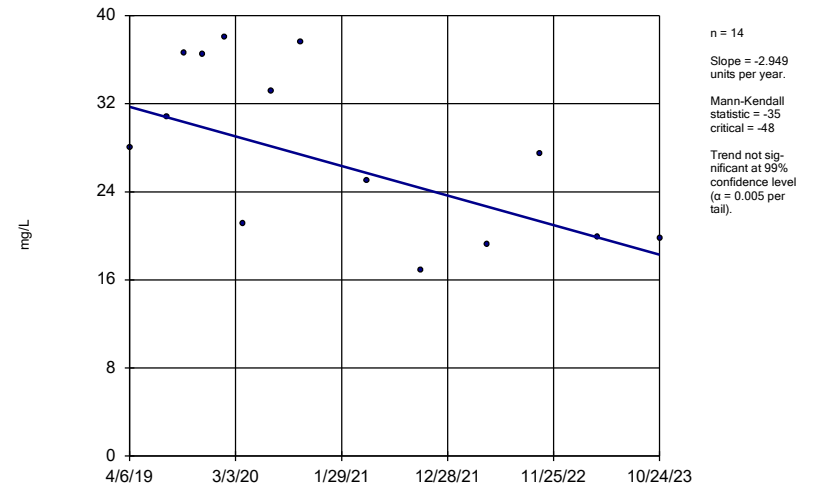
MW-20



Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

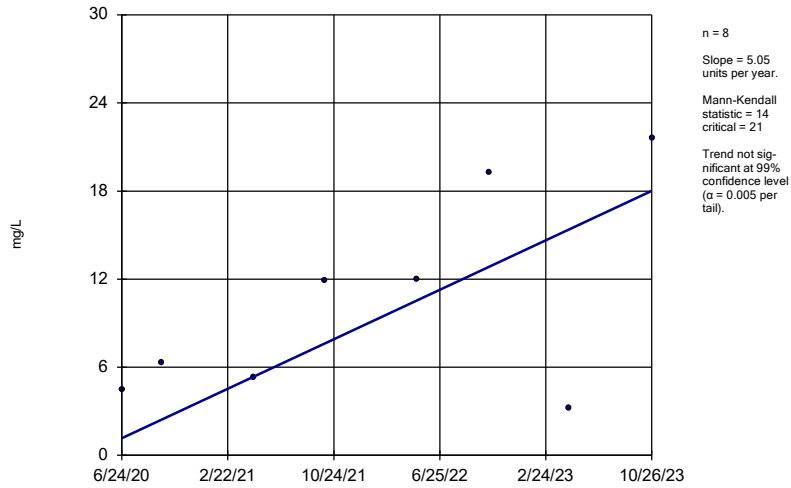
MW-21



Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

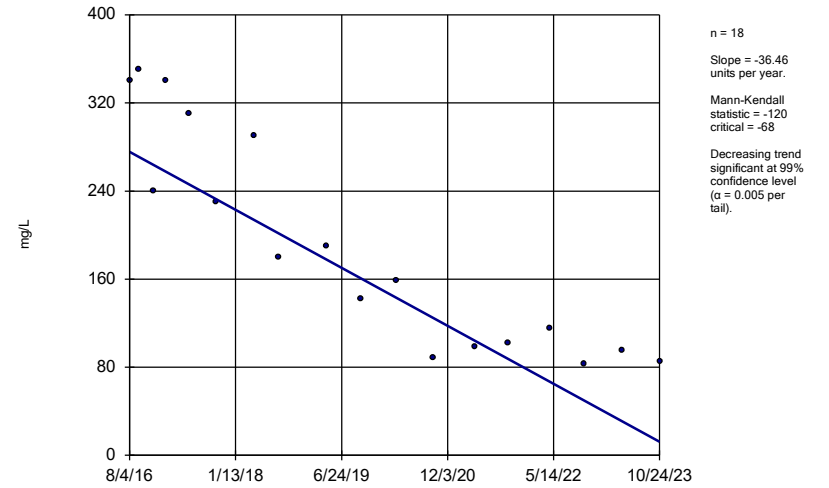
MW-26



Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

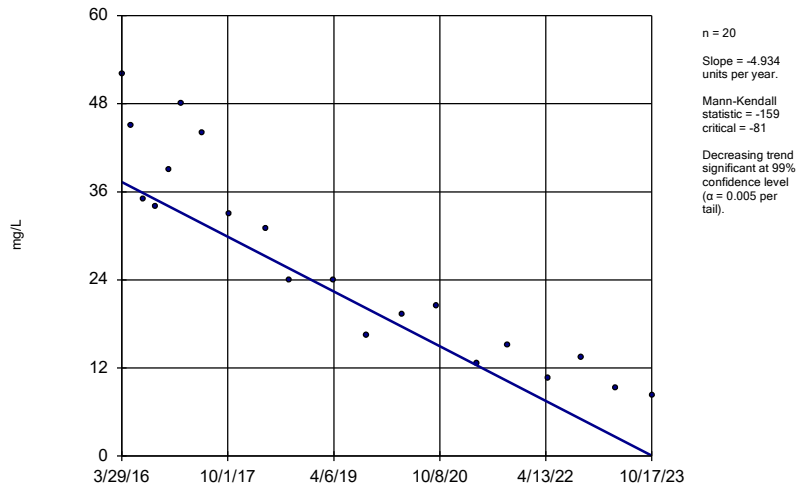
MW-5A



Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

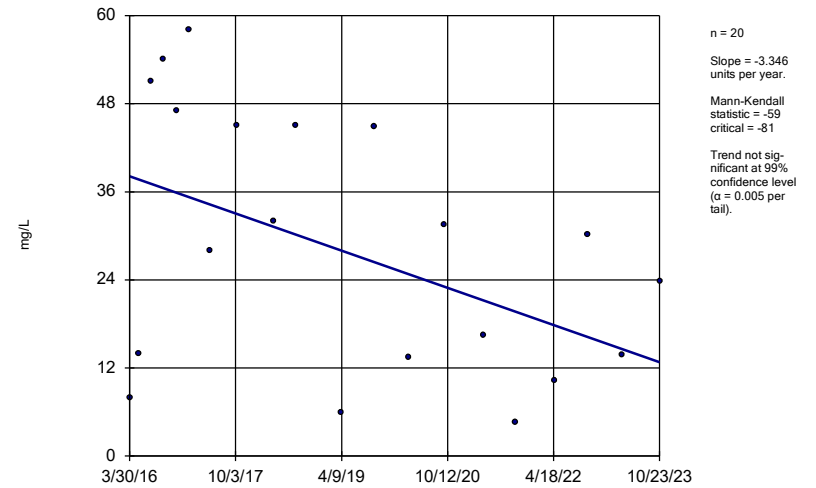
MW-6



Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

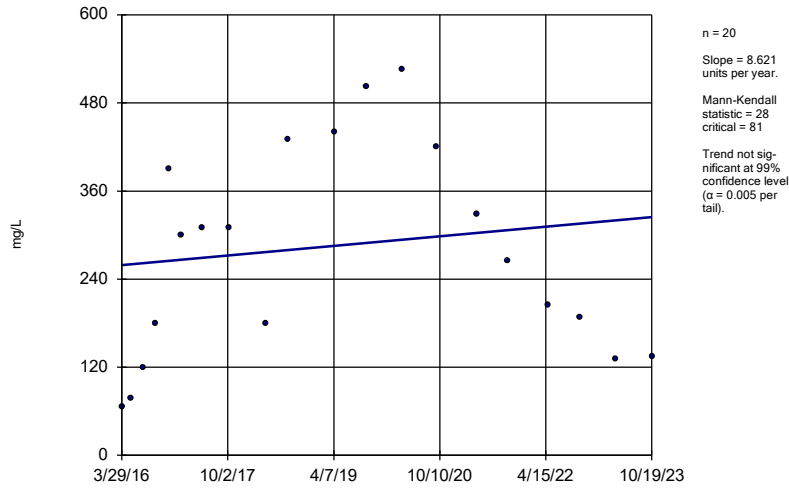
MW-8



Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-9

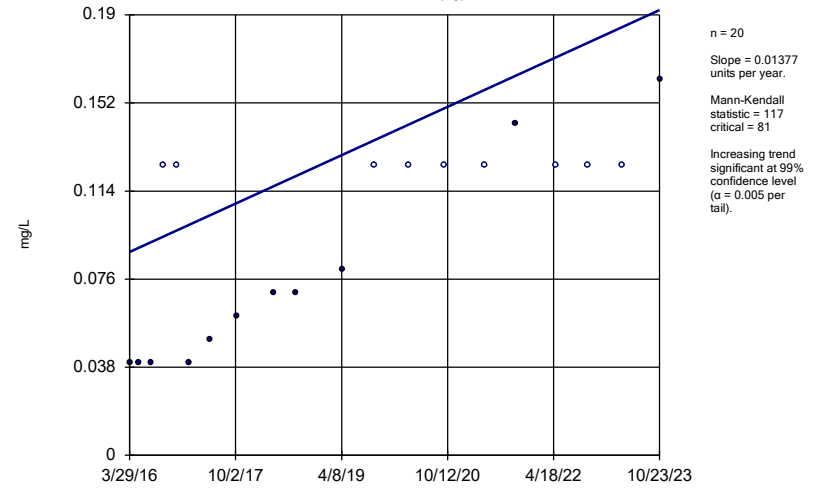


Constituent: Chloride, Total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Hollow symbols indicate censored values.

Sen's Slope Estimator

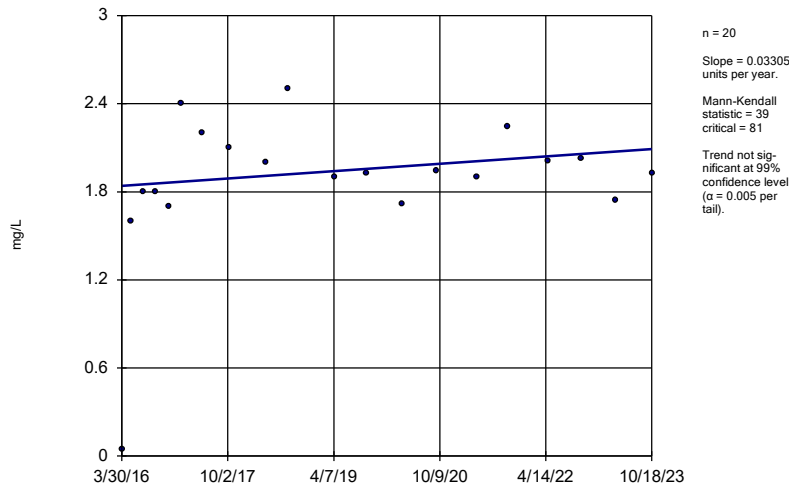
MW-1 (bg)



Constituent: Fluoride, total Analysis Run 1/16/2024 7:18 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

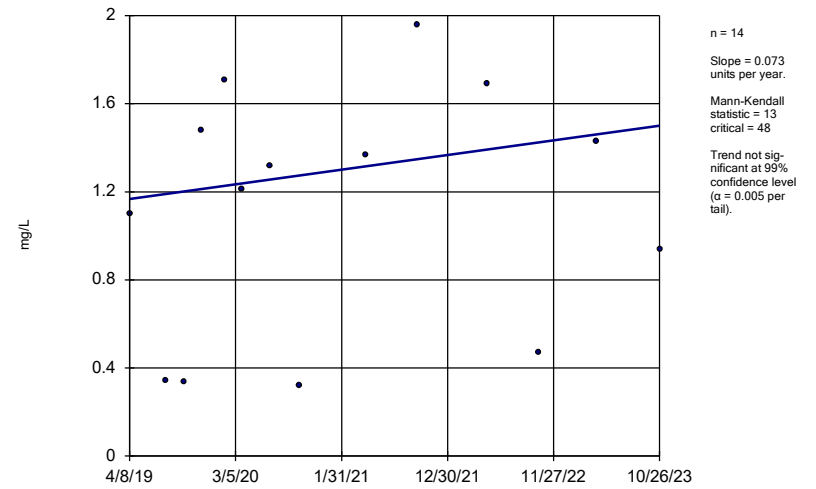
MW-11



Constituent: Fluoride, total Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

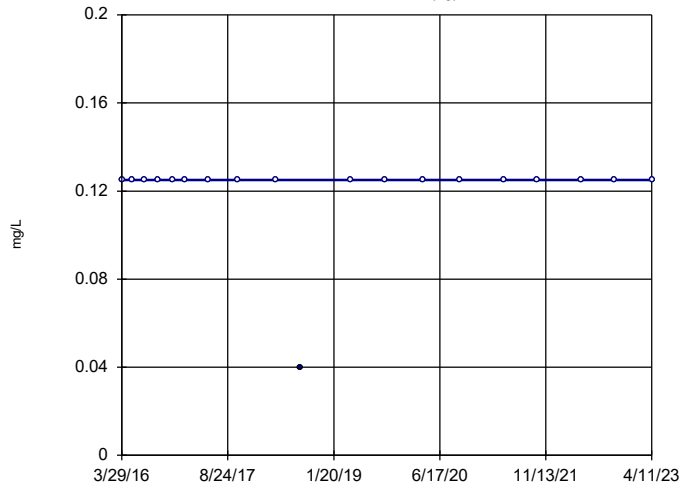
MW-17



Constituent: Fluoride, total Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

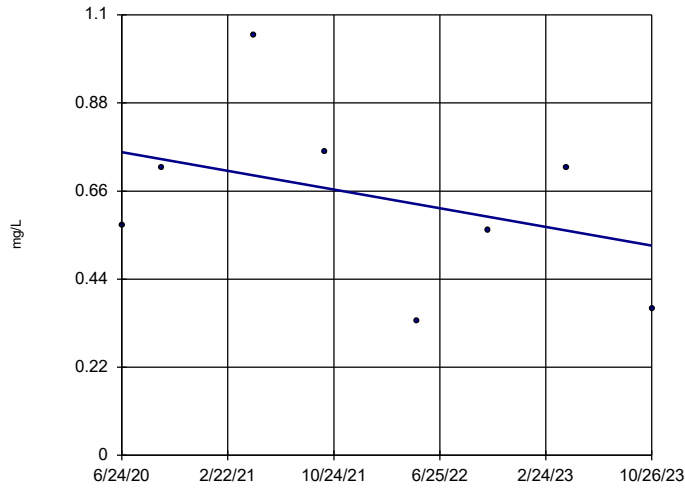
Sen's Slope Estimator

MW-2 (bg)



Sen's Slope Estimator

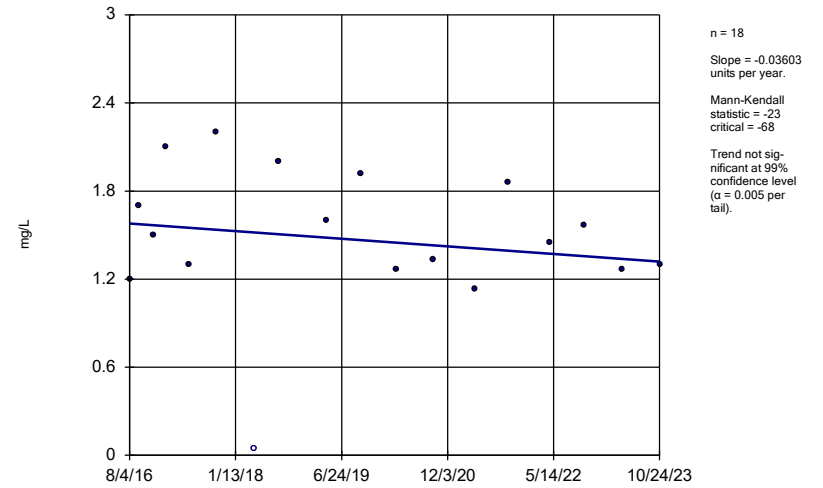
MW-25



Constituent: Fluoride, total Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

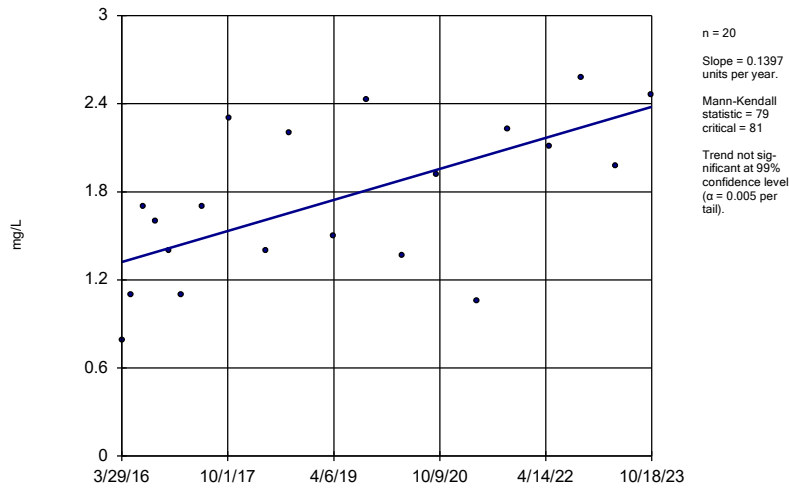
MW-5A



Constituent: Fluoride, total Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

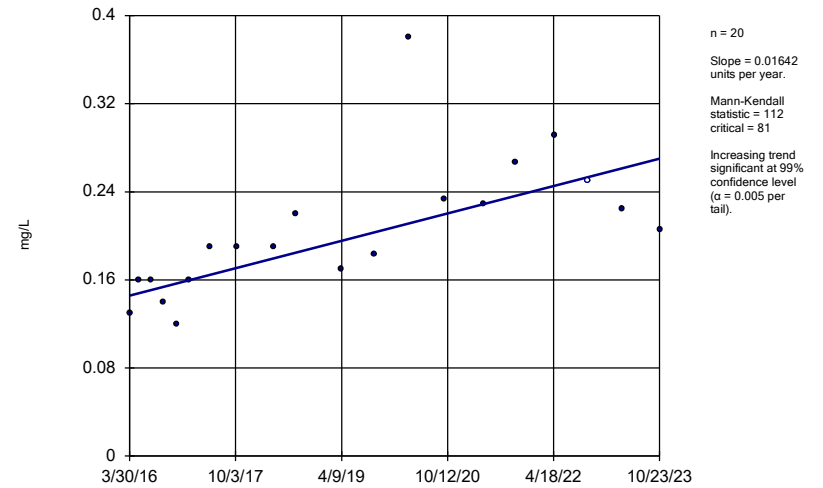
MW-7



Constituent: Fluoride, total Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

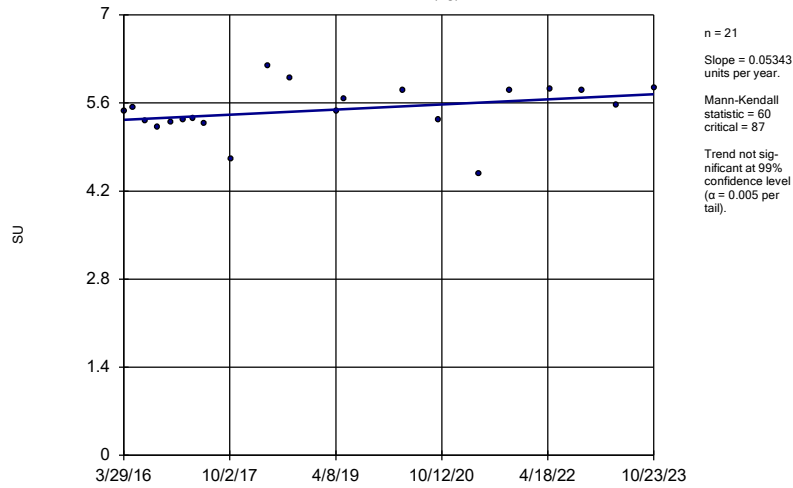
MW-8



Constituent: Fluoride, total Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

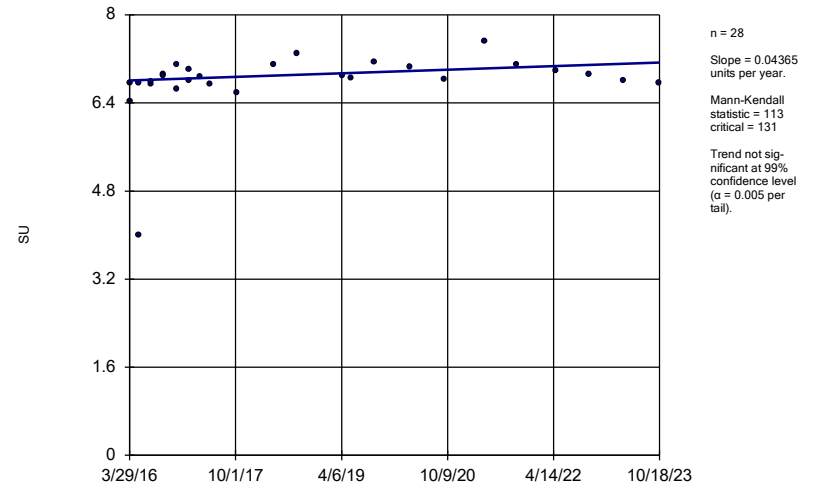
MW-1 (bg)



Constituent: pH, Field Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

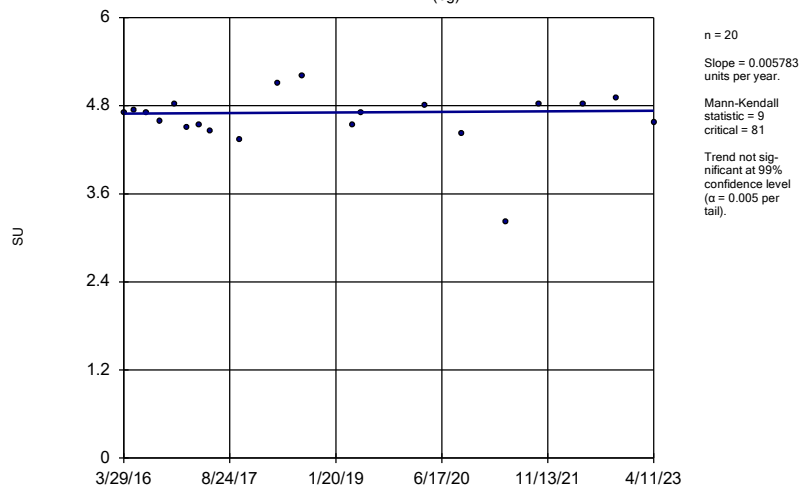
MW-11



Constituent: pH, Field Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

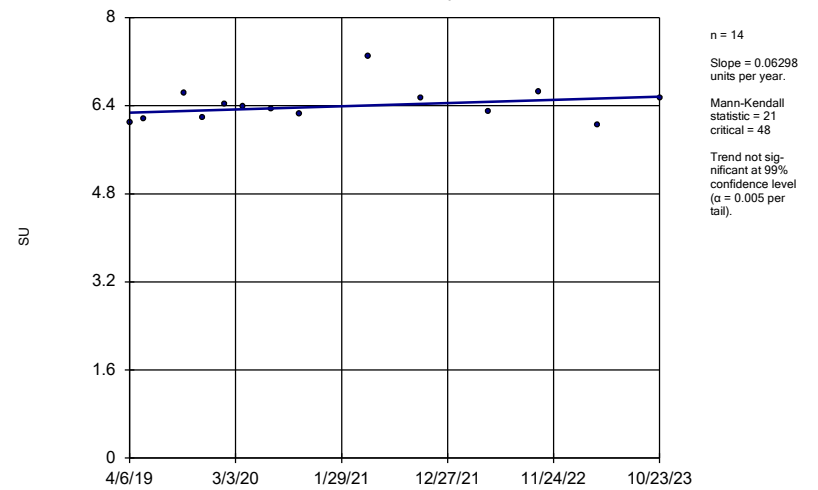
MW-2 (bg)



Constituent: pH, Field Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

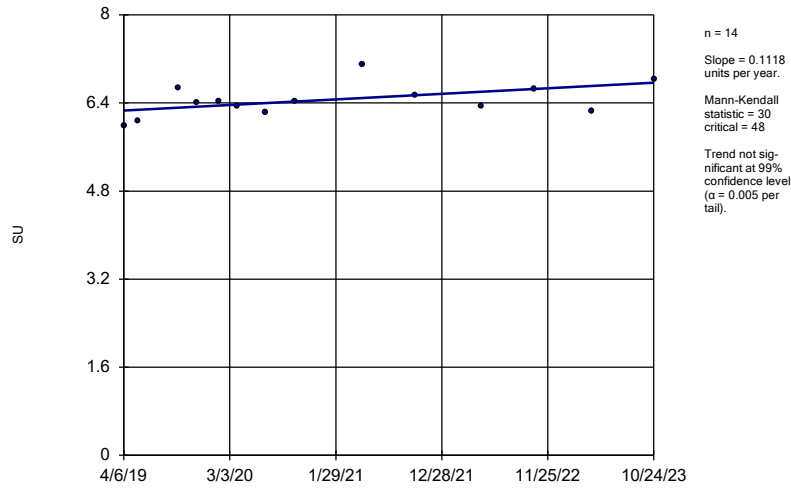
MW-20



Constituent: pH, Field Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

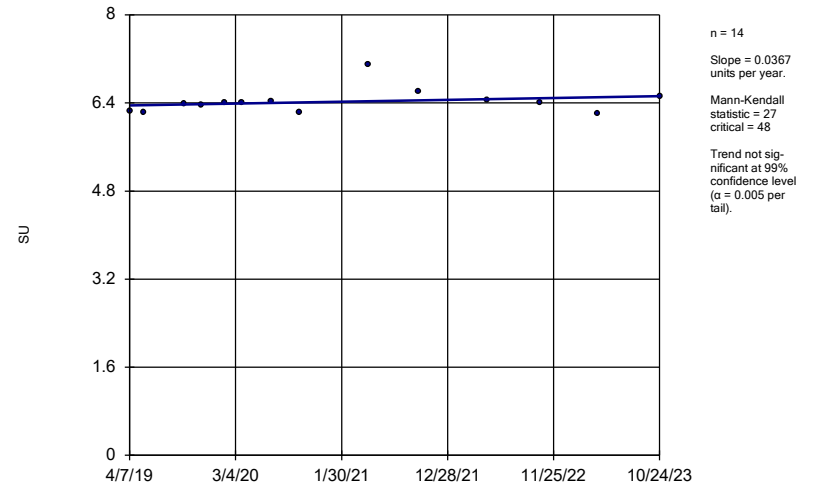
MW-21



Constituent: pH, Field Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

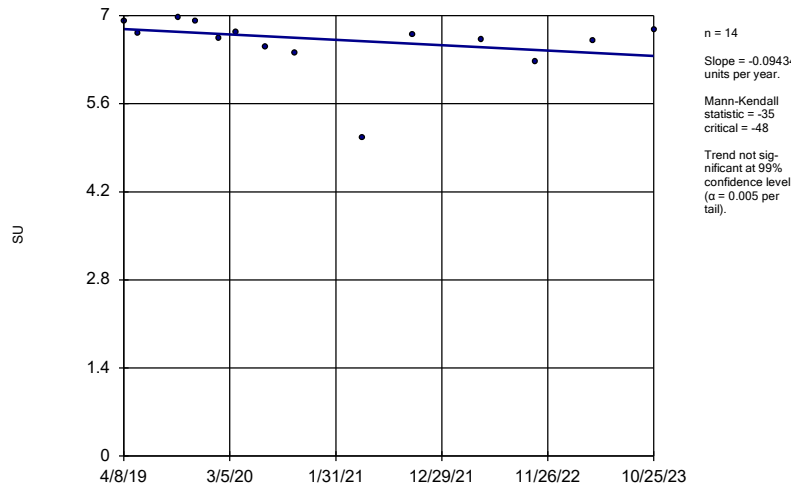
MW-22



Constituent: pH, Field Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

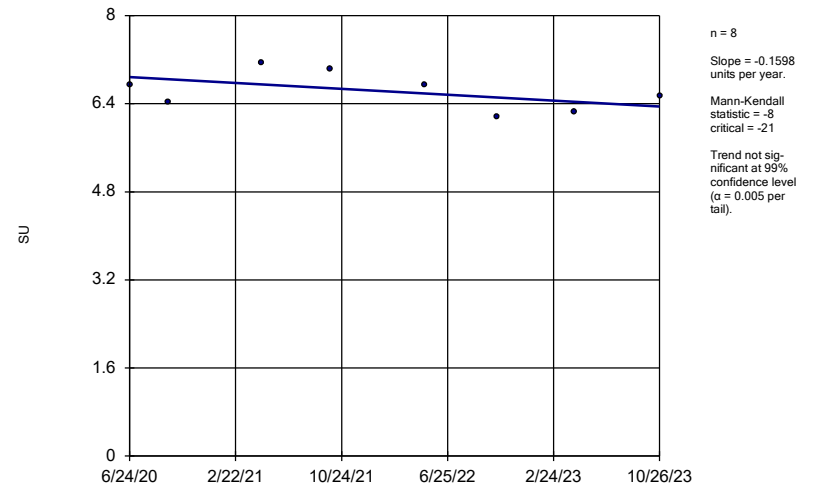
MW-23



Constituent: pH, Field Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

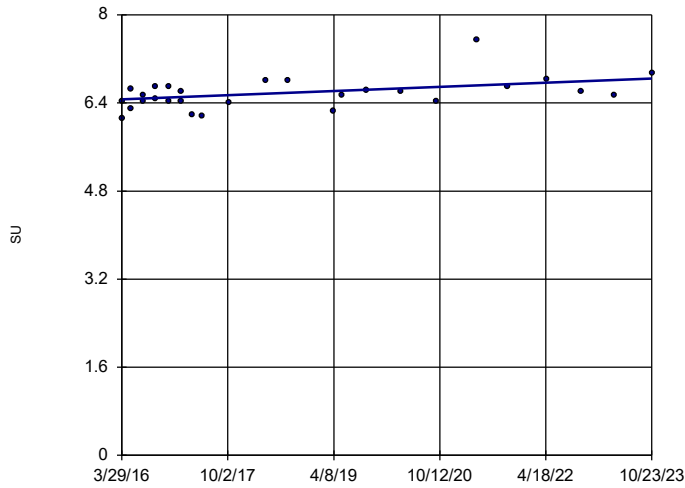
MW-24



Constituent: pH, Field Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

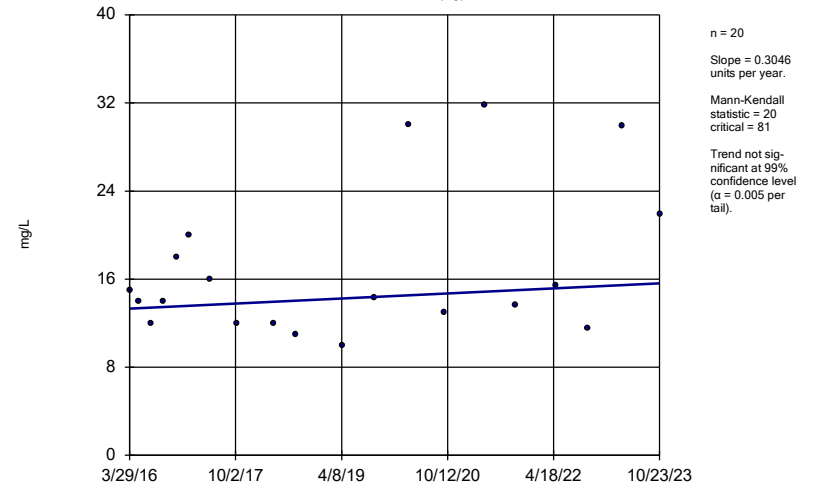
MW-8



Constituent: pH, Field Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

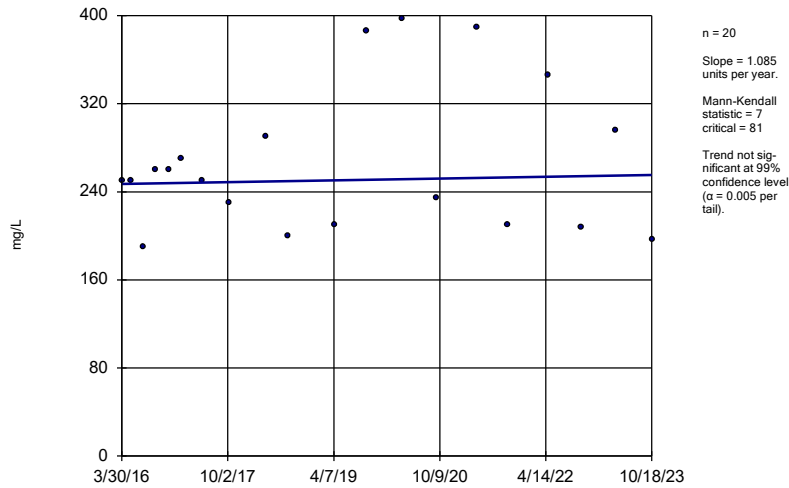
MW-1 (bg)



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

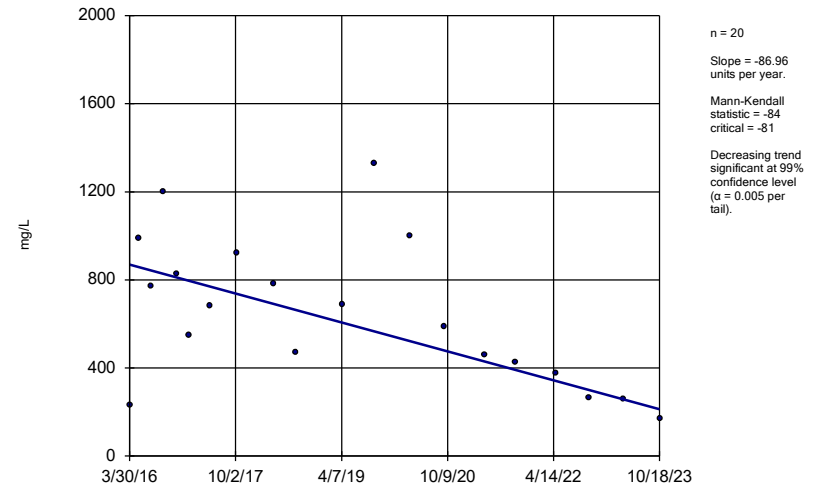
MW-10



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

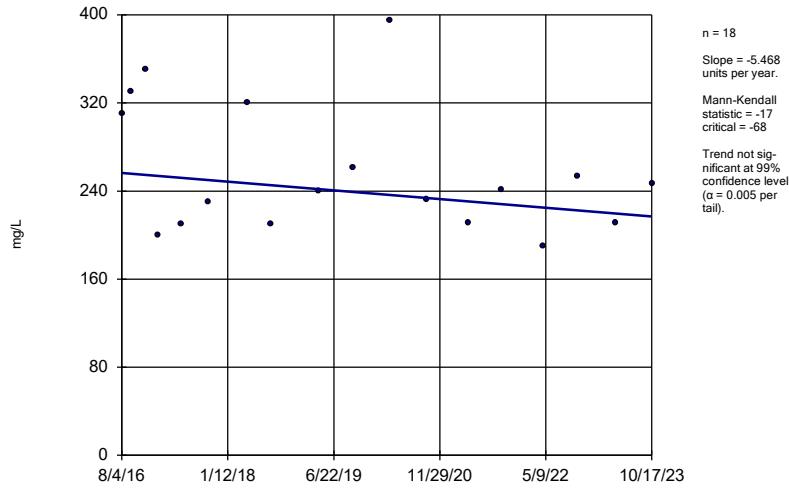
MW-11



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

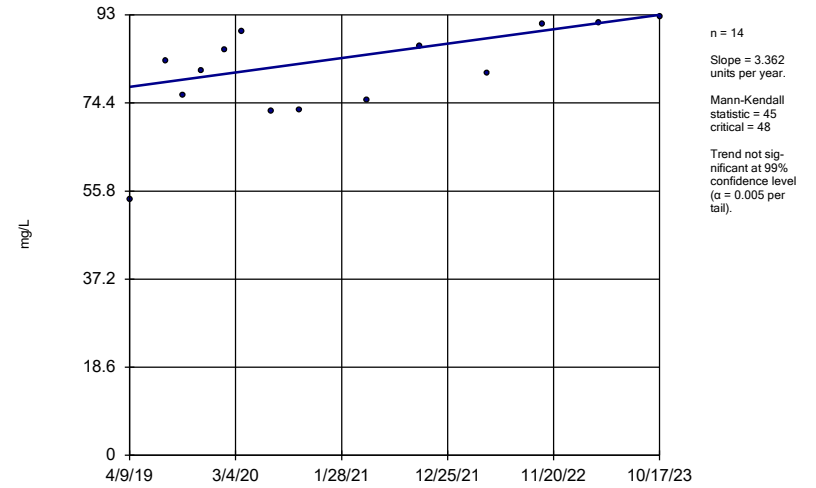
MW-12A



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

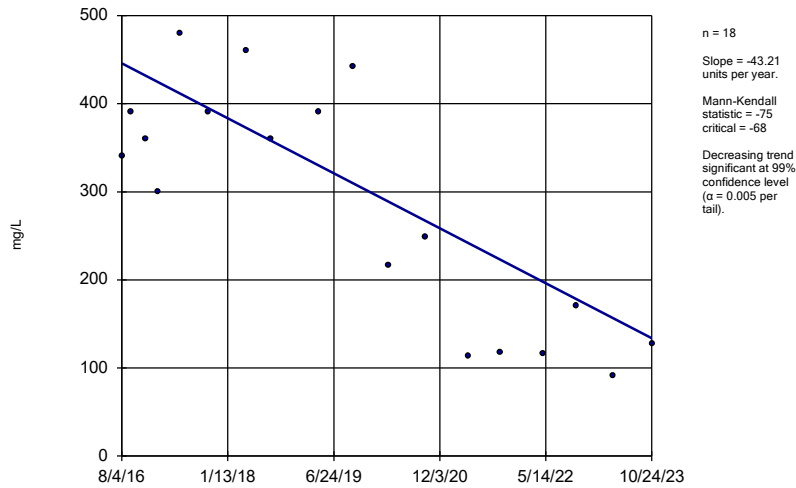
MW-13A



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

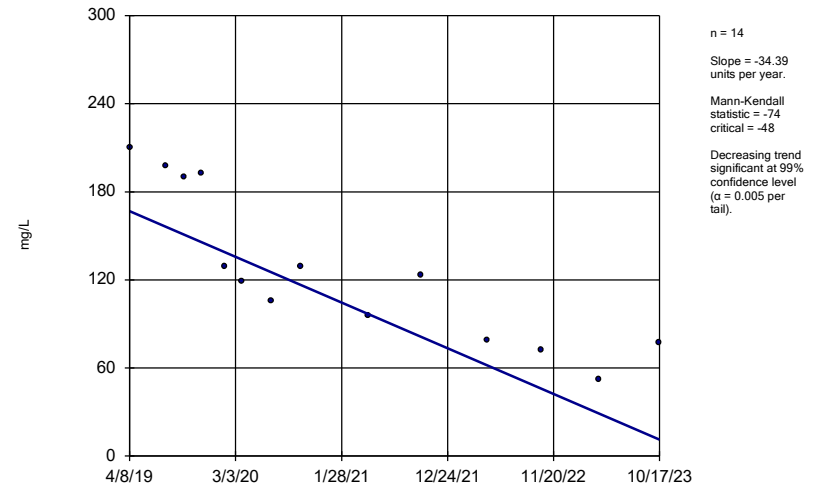
MW-14A



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

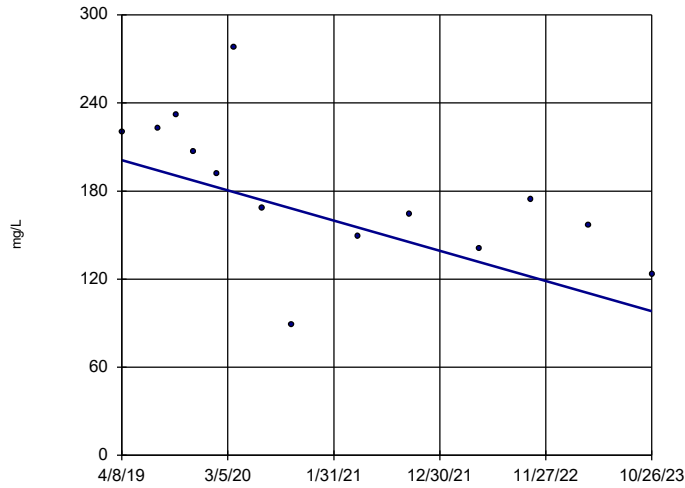
MW-16



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

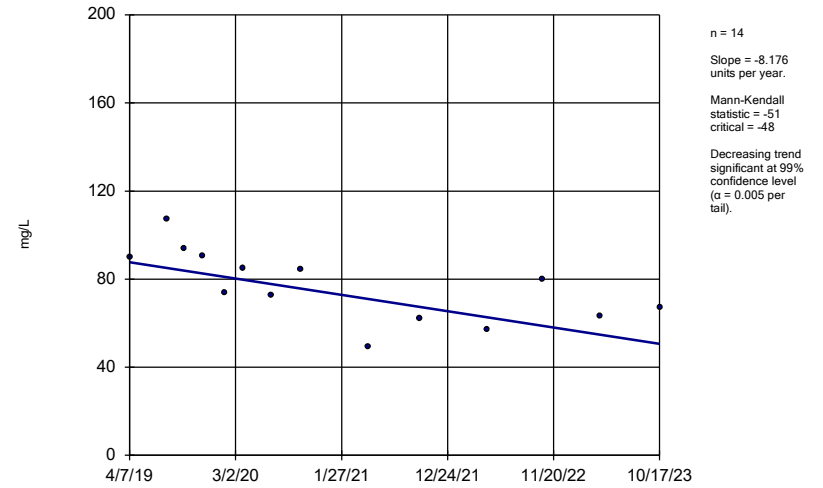
MW-17



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

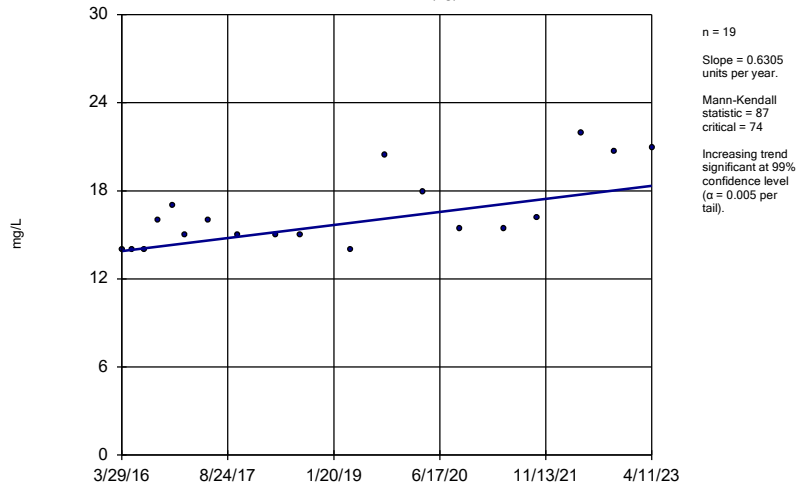
MW-19



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

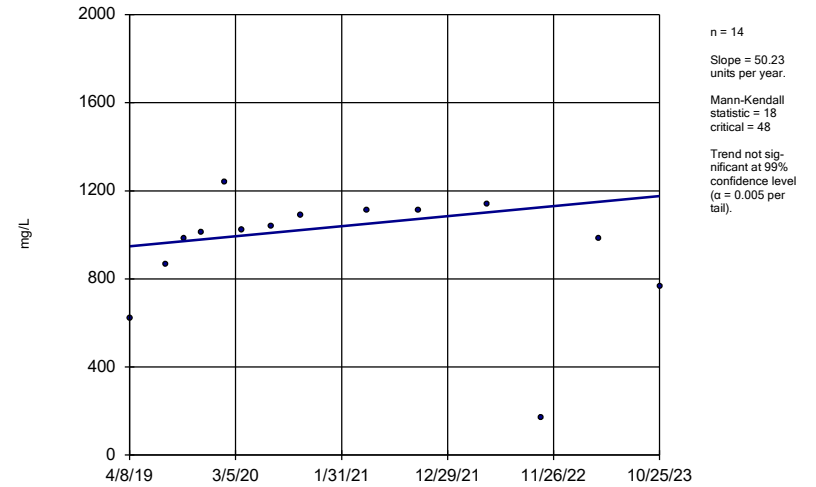
MW-2 (bg)



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

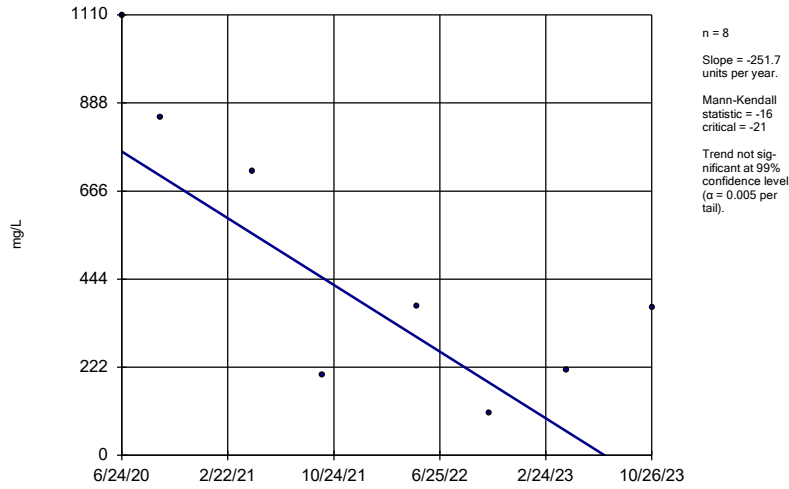
MW-23



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

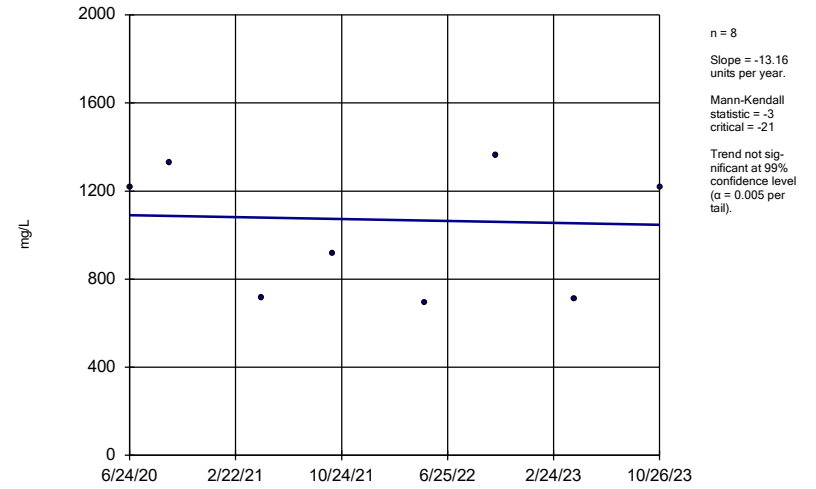
MW-24



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

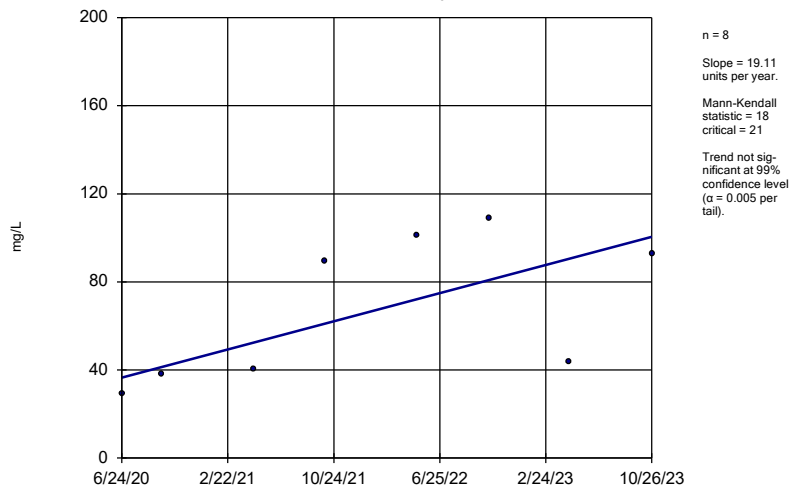
MW-25



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

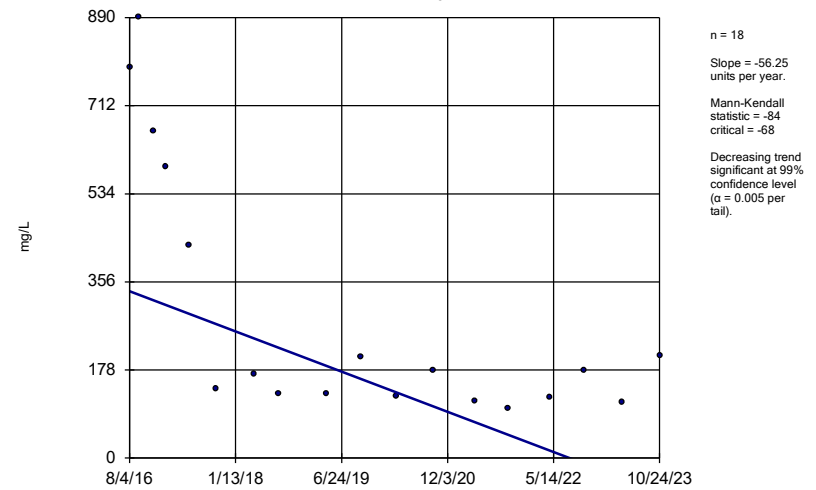
MW-26



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

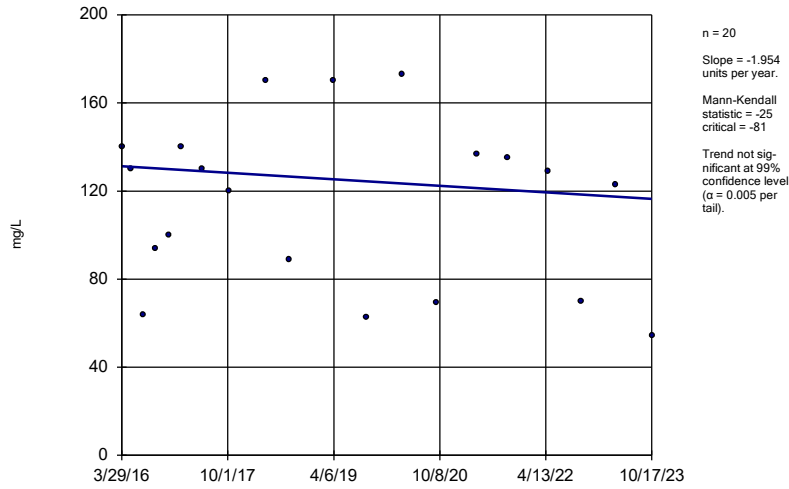
MW-5A



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

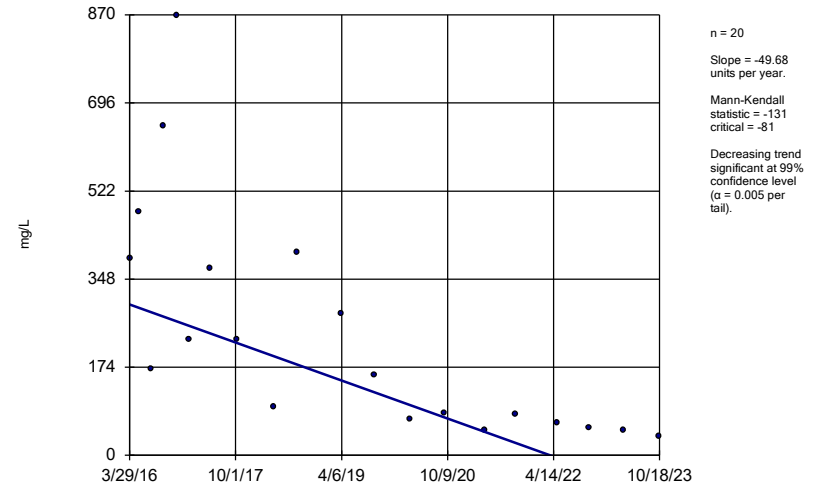
MW-6



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

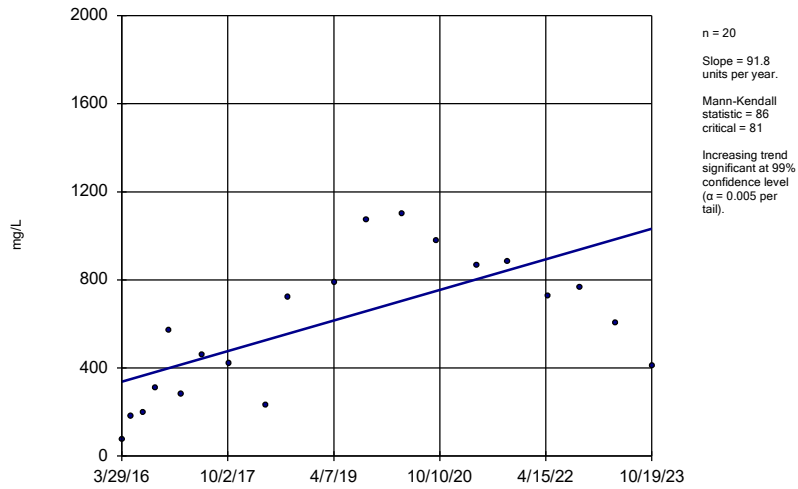
MW-7



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

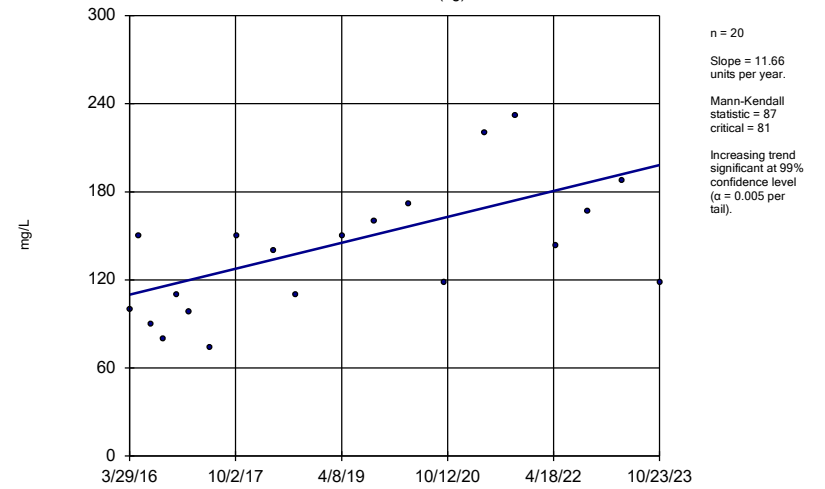
MW-9



Constituent: Sulfate as SO4 Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

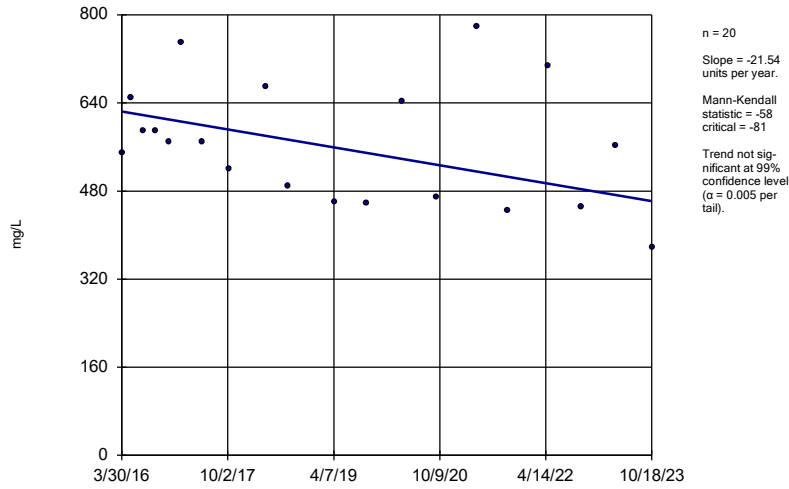
MW-1 (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

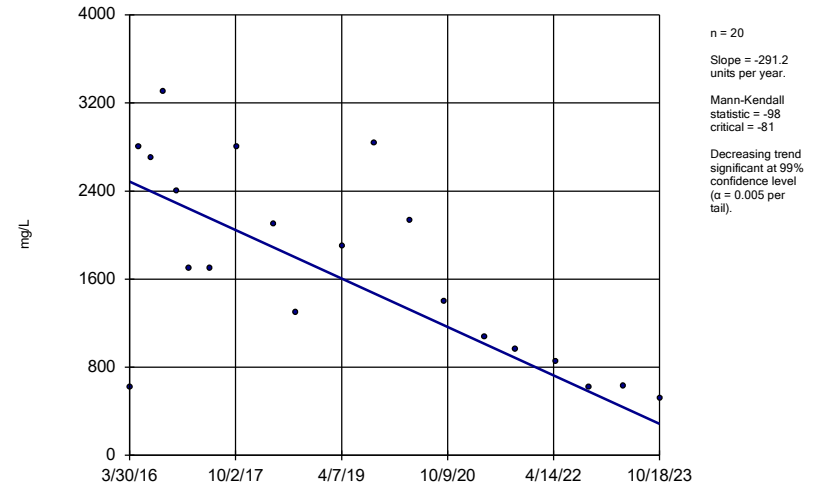
MW-10



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

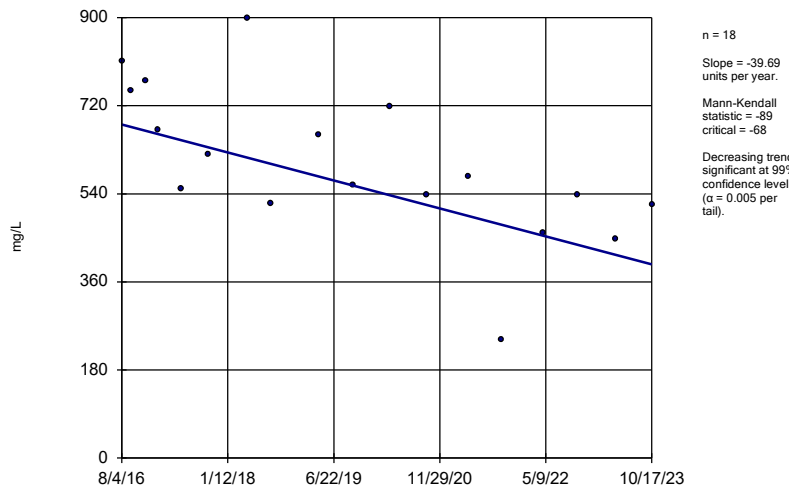
MW-11



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

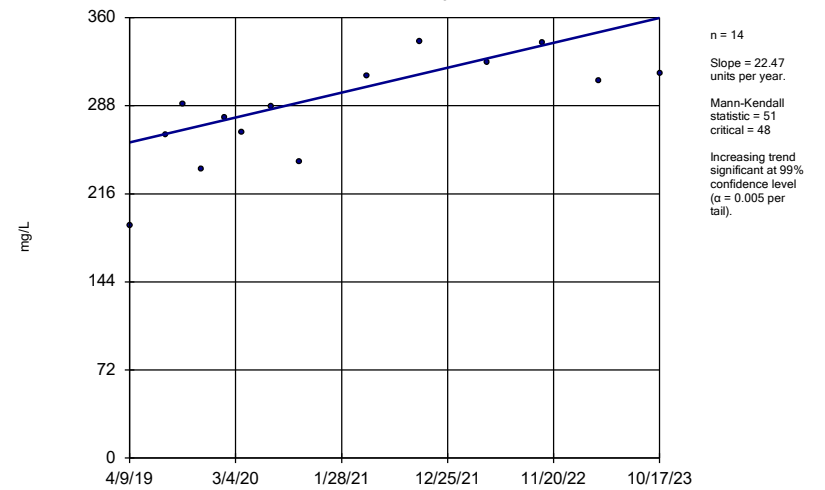
MW-12A



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

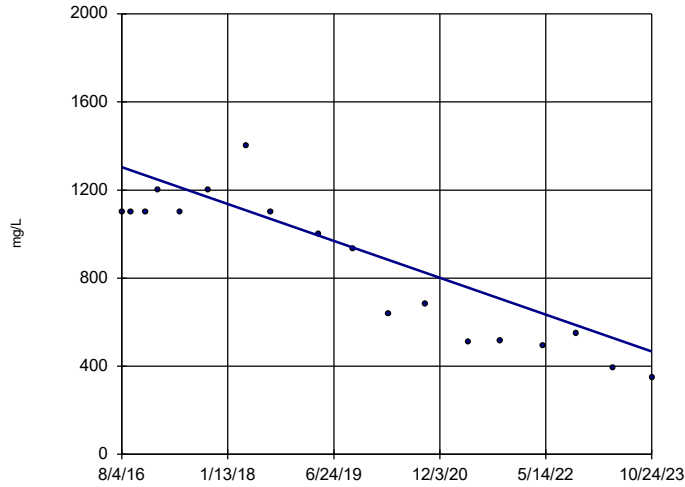
MW-13A



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-14A

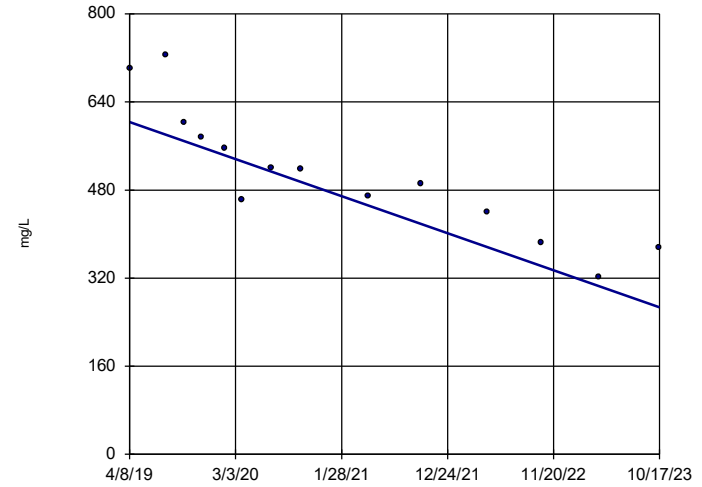


n = 18
 Slope = -115.8
 units per year.
 Mann-Kendall
 statistic = -106
 critical = -68
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-16

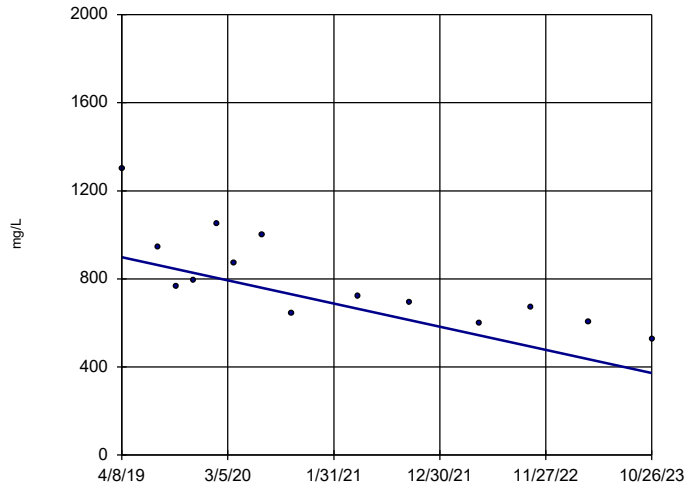


n = 14
 Slope = -74.31
 units per year.
 Mann-Kendall
 statistic = -77
 critical = -48
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-17

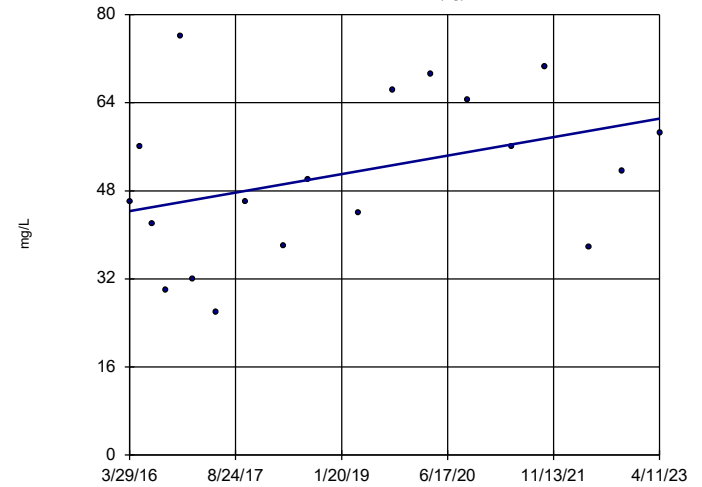


n = 14
 Slope = -115.5
 units per year.
 Mann-Kendall
 statistic = -61
 critical = -48
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-2 (bg)

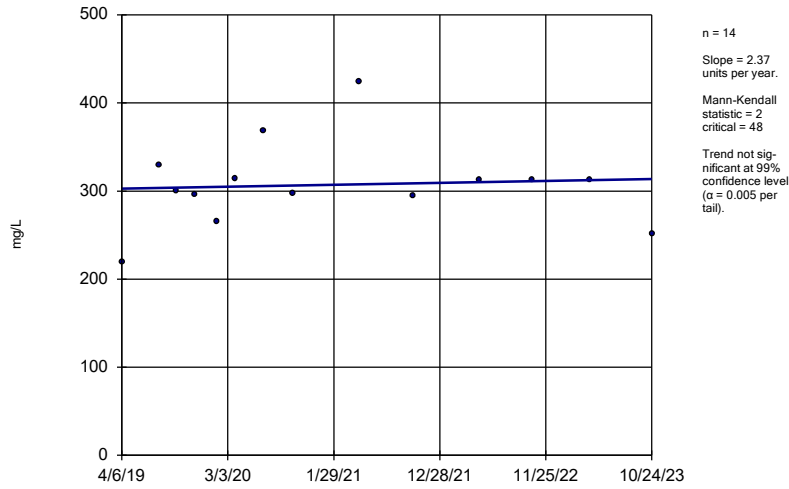


n = 19
 Slope = 2.386
 units per year.
 Mann-Kendall
 statistic = 41
 critical = 74
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

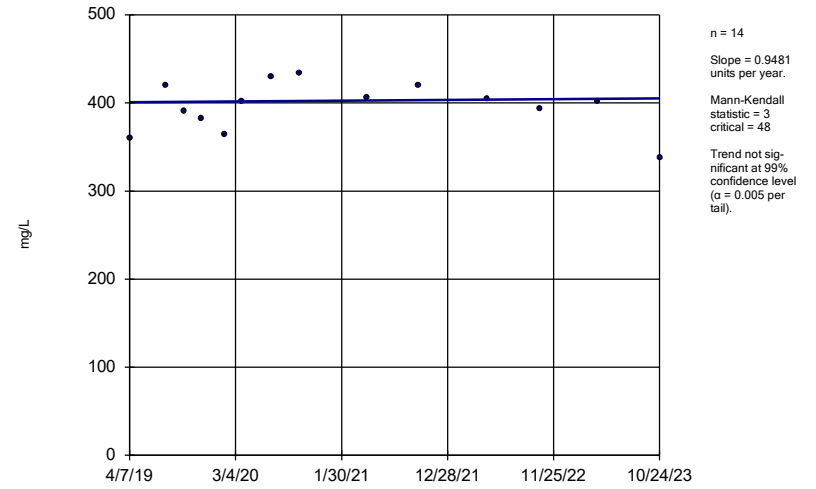
MW-21



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

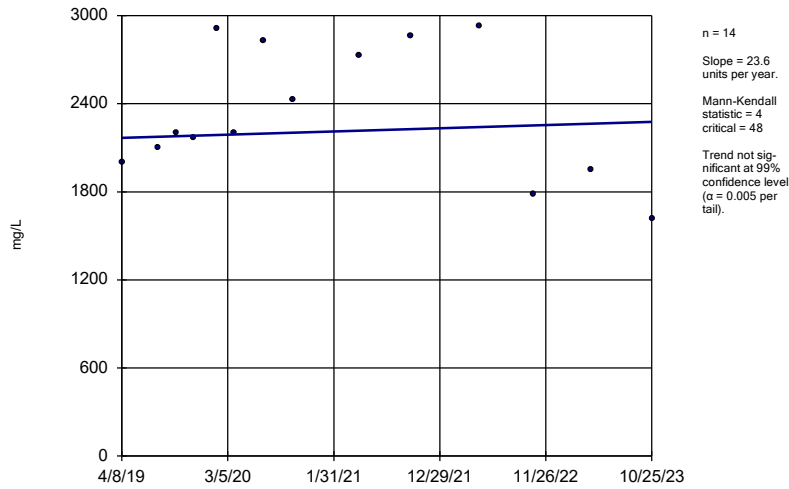
MW-22



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

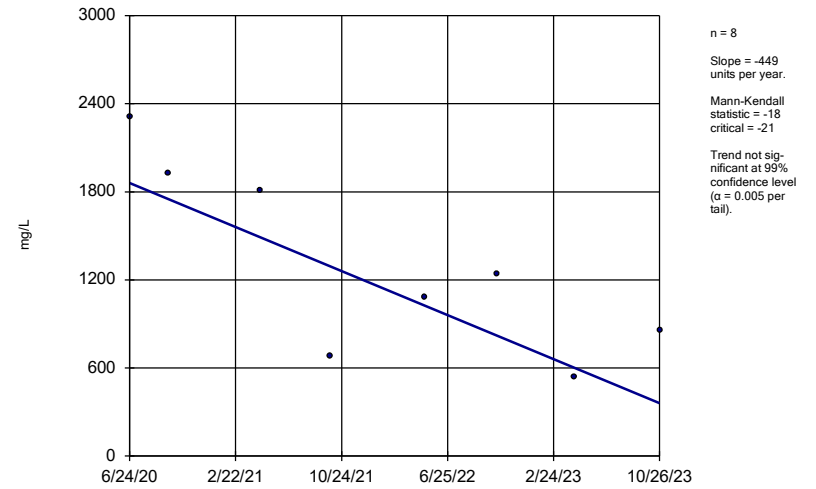
MW-23



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

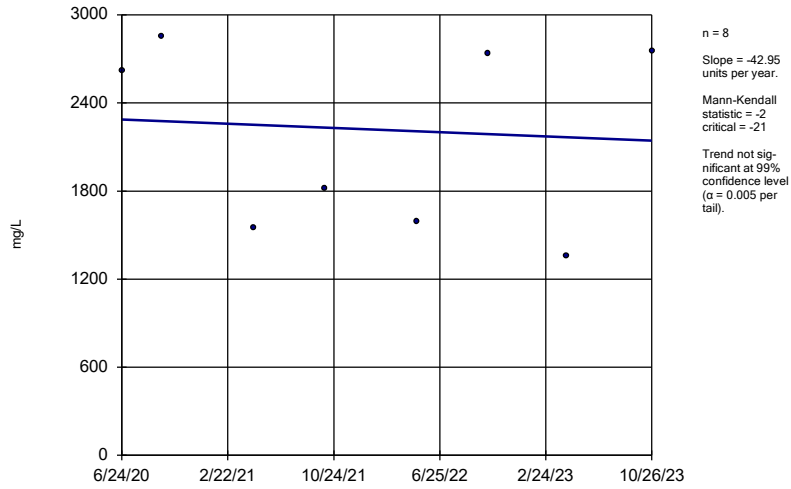
MW-24



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

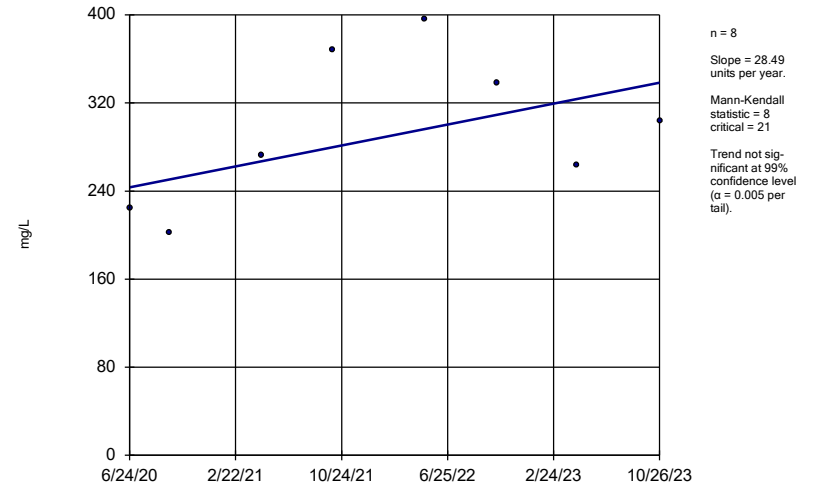
MW-25



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

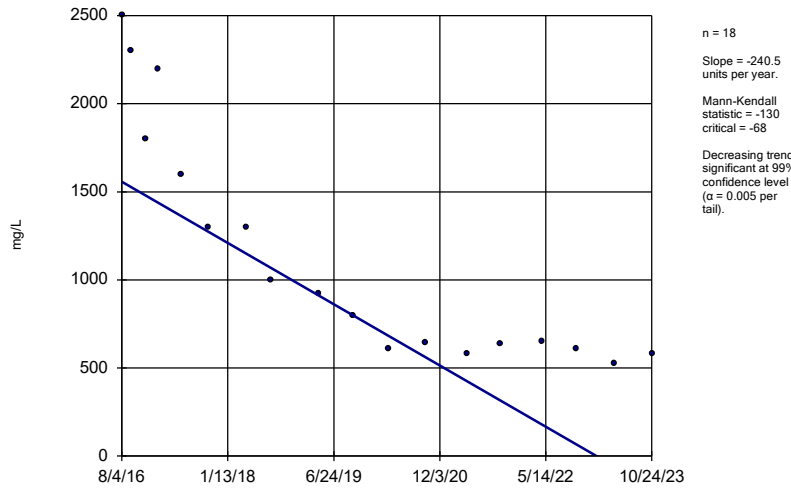
MW-26



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

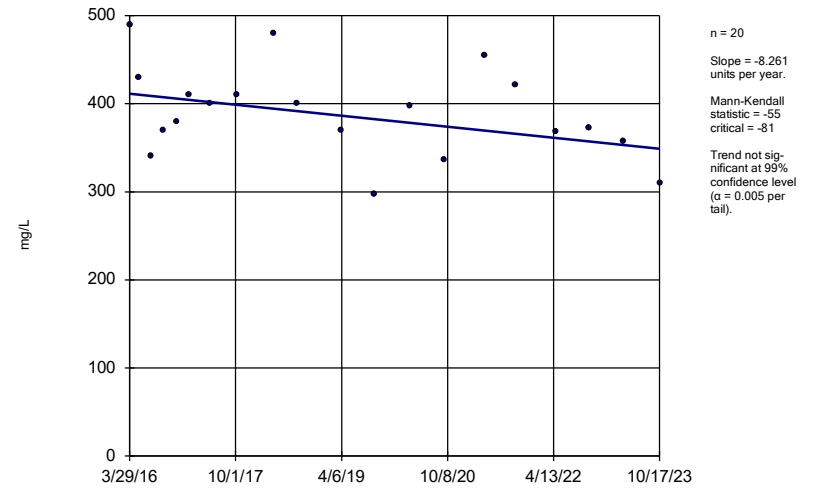
MW-5A



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

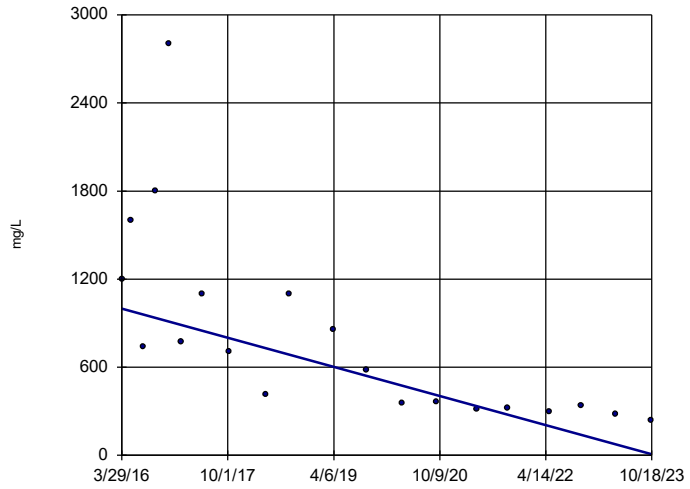
MW-6



Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
 Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-7

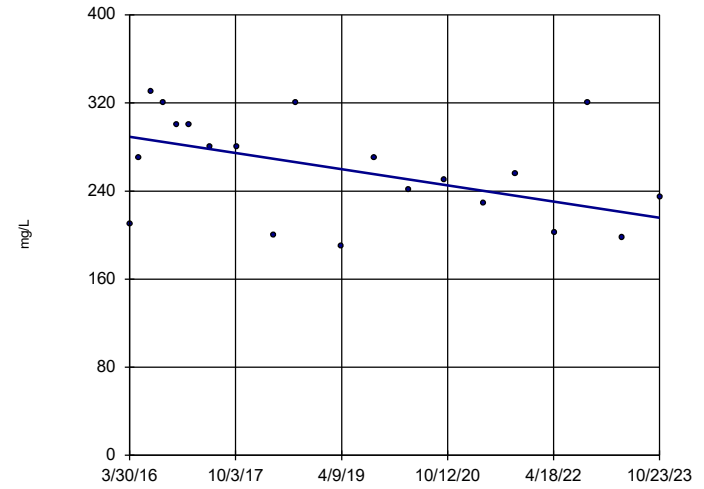


n = 20
Slope = -131.2
units per year.
Mann-Kendall
statistic = -139
critical = -81
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-8

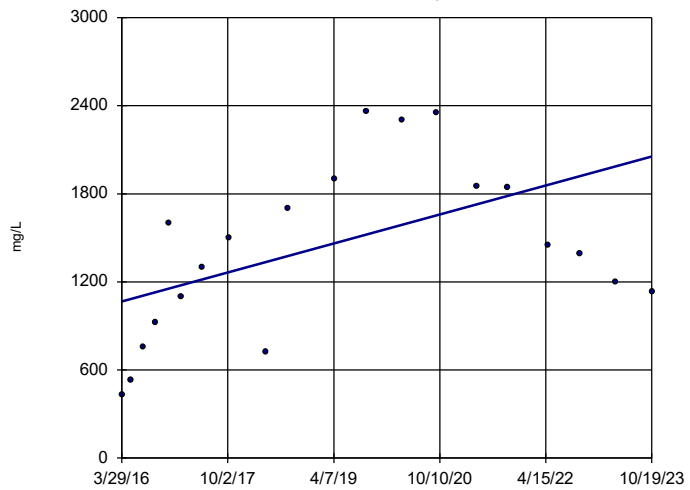


n = 20
Slope = -9.69
units per year.
Mann-Kendall
statistic = -60
critical = -81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

Sen's Slope Estimator

MW-9



n = 20
Slope = 130.7
units per year.
Mann-Kendall
statistic = 62
critical = 81
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 1/16/2024 7:19 PM View: Trend Tests
Lowman Power Plant Data: Lowman Power Plant

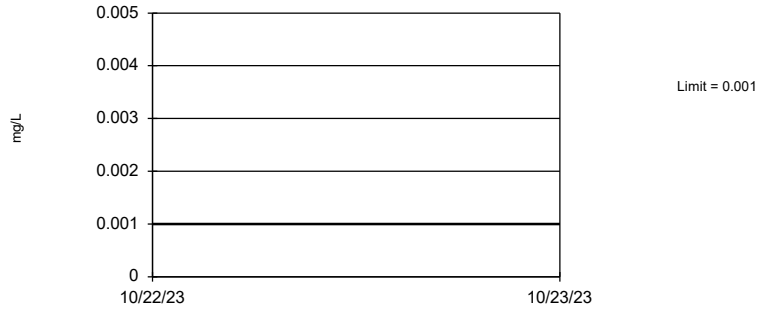
Figure G. Upper Tolerance Limits

Upper Tolerance Limits

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 1/23/2024, 11:24 AM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.001	37	n/a	n/a	100	n/a	n/a	0.1499	NP Inter
Arsenic (mg/L)	0.0031	37	n/a	n/a	54.05	n/a	n/a	0.1499	NP Inter
Barium, Total (mg/L)	0.146	37	n/a	n/a	0	n/a	n/a	0.1499	NP Inter
Beryllium (mg/L)	0.001	37	n/a	n/a	91.89	n/a	n/a	0.1499	NP Inter
Cadmium (mg/L)	0.001	37	n/a	n/a	100	n/a	n/a	0.1499	NP Inter
Chromium (mg/L)	0.001	37	n/a	n/a	100	n/a	n/a	0.1499	NP Inter
Cobalt (mg/L)	0.013	37	n/a	n/a	0	n/a	n/a	0.1499	NP Inter
Combined Radium 226 + 228 (pCi/L)	1.49	39	n/a	n/a	0	n/a	n/a	0.1353	NP Inter
Fluoride, total (mg/L)	0.162	39	n/a	n/a	69.23	n/a	n/a	0.1353	NP Inter
Lead (mg/L)	0.001	37	n/a	n/a	100	n/a	n/a	0.1499	NP Inter
Lithium (mg/L)	0.004	38	n/a	n/a	78.95	n/a	n/a	0.1424	NP Inter
Mercury (mg/L)	0.0002	37	n/a	n/a	94.59	n/a	n/a	0.1499	NP Inter
Molybdenum (mg/L)	0.001	37	n/a	n/a	97.3	n/a	n/a	0.1499	NP Inter
Selenium (mg/L)	0.001	37	n/a	n/a	91.89	n/a	n/a	0.1499	NP Inter
Thallium (mg/L)	0.001	37	n/a	n/a	100	n/a	n/a	0.1499	NP Inter

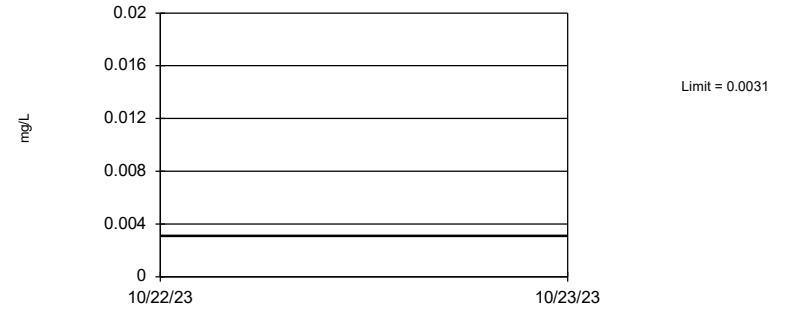
Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Antimony Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

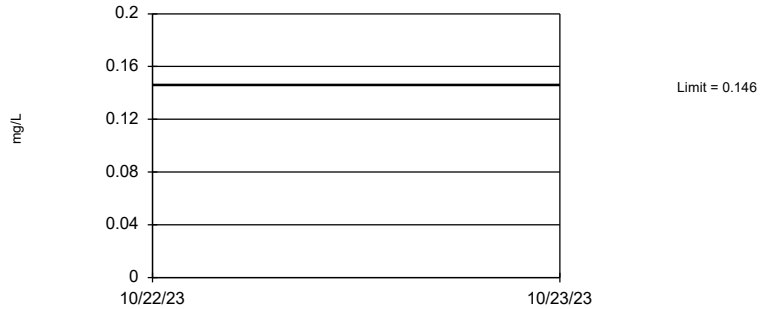
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 37 background values. 54.05% NDs. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Arsenic Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

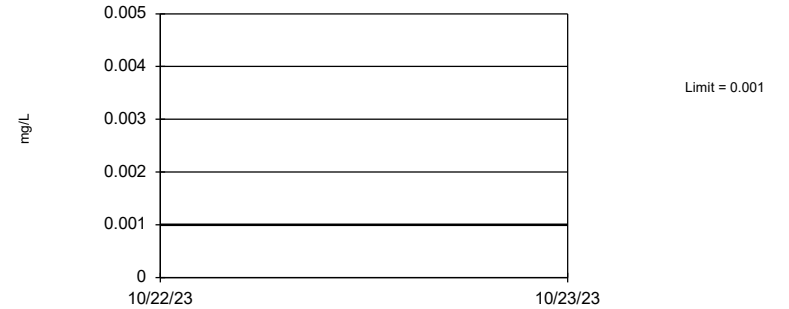
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 37 background values. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Barium, Total Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

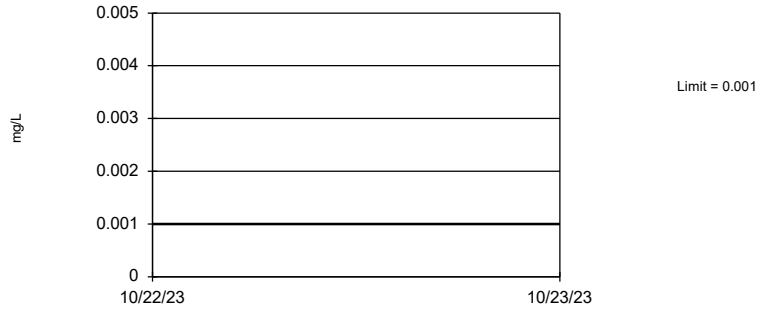
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 37 background values. 91.89% NDs. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Beryllium Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Cadmium Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

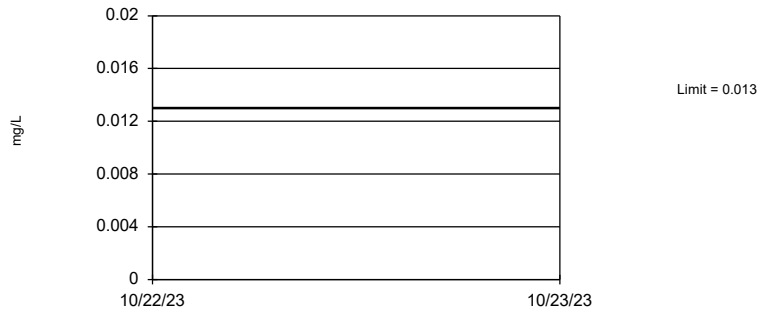
Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Chromium Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

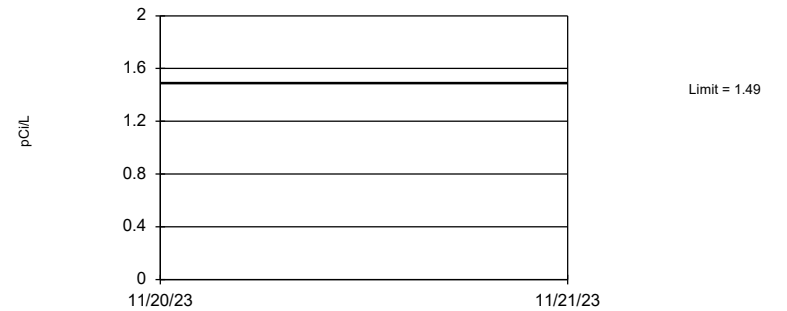
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 37 background values. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Cobalt Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 39 background values. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Combined Radium 226 + 228 Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 39 background values. 69.23% NDs. 88.87% coverage at alpha=0.01; 92.77% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1353.

Constituent: Fluoride, total Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Lead Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 38 background values. 78.95% NDs. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1424.

Constituent: Lithium Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

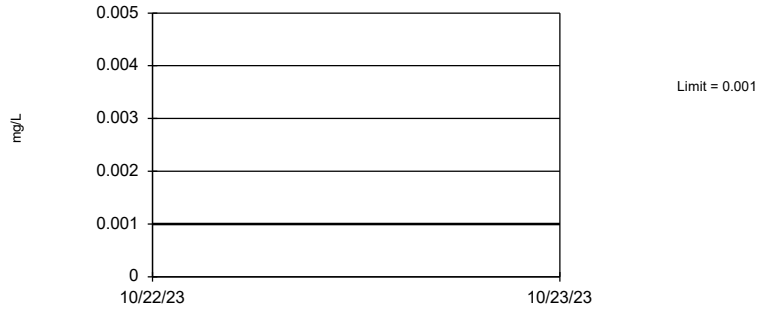
Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 37 background values. 94.59% NDs. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Mercury Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 37 background values. 97.3% NDs. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Molybdenum Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Tolerance Limit Interwell Non-parametric



NP test selected by user. Limit is highest of 37 background values. 91.89% NDs. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Selenium Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Tolerance Limit Interwell Non-parametric



NP test selected by user. All background values were censored; limit is most recent reporting limit. 88.48% coverage at alpha=0.01; 92.38% coverage at alpha=0.05; 98.24% coverage at alpha=0.5. Report alpha = 0.1499.

Constituent: Thallium Analysis Run 1/23/2024 11:22 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	<0.001	<0.001
5/18/2016	<0.001	<0.001
7/19/2016	<0.001	<0.001
9/19/2016	<0.001	<0.001
11/29/2016	<0.001	<0.001
1/31/2017	<0.001	<0.001
5/23/2017	<0.001	<0.001
4/17/2018	<0.001	<0.001
8/14/2018	<0.001	<0.001
4/10/2019	<0.001	<0.001
9/24/2019	<0.001	<0.001
3/26/2020	<0.001	<0.001
9/23/2020	<0.001	<0.001
4/22/2021	<0.001	<0.001
9/30/2021	<0.001	<0.001
5/2/2022	<0.001	<0.001
10/11/2022	<0.001	<0.001
4/11/2023	<0.001	<0.001
10/23/2023	<0.001	

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	0.00072 (J)	<0.001
5/18/2016	<0.001	<0.001
7/19/2016	0.0014	0.00055 (J)
9/19/2016	<0.001	<0.001
11/29/2016	<0.001	<0.001
1/31/2017	0.0011 (J)	<0.001
5/23/2017	0.00083 (J)	<0.001
4/17/2018	0.0019	<0.001
8/14/2018	0.00073 (J)	<0.001
4/10/2019	0.0014	<0.001
9/24/2019	0.00139	<0.001
3/26/2020	0.00235	<0.001
9/23/2020	0.002	<0.001
4/22/2021	0.0017	<0.001
9/30/2021	0.0023	<0.001
5/2/2022	0.0024	<0.001
10/11/2022	0.0023	<0.001
4/11/2023	0.0012	<0.001
10/23/2023	0.0031	

Tolerance Limit

Constituent: Barium, Total (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	0.11	0.07
5/18/2016	0.11	0.075
7/19/2016	0.096	0.067
9/19/2016	0.1	0.067
11/29/2016	0.093	0.07
1/31/2017	0.091	0.075
5/23/2017	0.11	0.078
4/17/2018	0.12	0.07 (F1)
8/14/2018	0.12	0.067
4/10/2019	0.12	0.064
9/24/2019	0.135	0.067
3/26/2020	0.128	0.0685
9/23/2020	0.139	0.068
4/22/2021	0.14	0.071
9/30/2021	0.135	0.07
5/2/2022	0.146	0.07
10/11/2022	0.138	0.071
4/11/2023	0.117	0.064
10/23/2023	0.131	

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	<0.001	<0.001
5/18/2016	<0.001	<0.001
7/19/2016	<0.001	6.8E-05 (J)
9/19/2016	<0.001	<0.001
11/29/2016	<0.001	<0.001
1/31/2017	<0.001	0.00037 (J)
5/23/2017	<0.001	<0.001
4/17/2018	<0.001	0.00035 (J)
8/14/2018	<0.001	<0.001
4/10/2019	<0.001	<0.001
9/24/2019	<0.001	<0.001
3/26/2020	<0.001	<0.001
9/23/2020	<0.001	<0.001
4/22/2021	<0.001	<0.001
9/30/2021	<0.001	<0.001
5/2/2022	<0.001	<0.001
10/11/2022	<0.001	<0.001
4/11/2023	<0.001	<0.001
10/23/2023	<0.001	

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	<0.001	<0.001
5/18/2016	<0.001	<0.001
7/19/2016	<0.001	<0.001
9/19/2016	<0.001	<0.001
11/29/2016	<0.001	<0.001
1/31/2017	<0.001	<0.001
5/23/2017	<0.001	<0.001
4/17/2018	<0.001	<0.001
8/14/2018	<0.001	<0.001
4/10/2019	<0.001	<0.001
9/24/2019	<0.001	<0.001
3/26/2020	<0.001	<0.001
9/23/2020	<0.001	<0.001
4/22/2021	<0.001	<0.001
9/30/2021	<0.001	<0.001
5/2/2022	<0.001	<0.001
10/11/2022	<0.001	<0.001
4/11/2023	<0.001	<0.001
10/23/2023	<0.001	

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	<0.001	<0.001
5/18/2016	<0.001	<0.001
7/19/2016	<0.001	<0.001
9/19/2016	<0.001	<0.001
11/29/2016	<0.001	<0.001
1/31/2017	<0.001	<0.001
5/23/2017	<0.001	<0.001
4/17/2018	<0.001	<0.001
8/14/2018	<0.001	<0.001
4/10/2019	<0.001	<0.001
9/24/2019	<0.001	<0.001
3/26/2020	<0.001	<0.001
9/23/2020	<0.001	<0.001
4/22/2021	<0.001	<0.001
9/30/2021	<0.001	<0.001
5/2/2022	<0.001	<0.001
10/11/2022	<0.001	<0.001
4/11/2023	<0.001	<0.001
10/23/2023	<0.001	

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	0.01	0.012
5/18/2016	0.0089	0.013
7/19/2016	0.0069	0.011
9/19/2016	0.0057	0.011
11/29/2016	0.006	0.011
1/31/2017	0.0072	0.012
5/23/2017	0.0094	0.012
4/17/2018	0.011	0.012
8/14/2018	0.0077	0.011
4/10/2019	0.0086	0.01
9/24/2019	0.0079	0.00991
3/26/2020	0.00892	0.0108
9/23/2020	0.009	0.01
4/22/2021	0.008	0.01
9/30/2021	0.008	0.011
5/2/2022	0.009	0.01
10/11/2022	0.007	0.01
4/11/2023	0.007	0.01
10/23/2023	0.007	

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	0.584	0.605
5/18/2016	0.494	0.43
7/19/2016	0.607	0.393 (U)
9/19/2016	0.533	0.0786 (U)
11/29/2016	0.205 (U)	0.249 (U)
3/28/2017	0.489	0.698
5/23/2017	-0.112 (U)	0.223 (U)
4/17/2018	0.27 (U)	0.142 (U)
8/14/2018	0.48	0.392 (U)
4/10/2019	0.421	0.166 (U)
10/15/2019	1.36	0.683
4/17/2020	0.645	0.499
10/19/2020	0.735 (U)	1.43 (U)
5/19/2021	1.49	0.551
5/21/2021	0.71605 (D)	0.8045 (D)
10/22/2021	0.788	0.427
5/2/2022	1.02	0.579 (U)
11/11/2022	0.416 (U)	0.801 (U)
5/4/2023	0.827 (U)	0.635 (U)
11/21/2023	0.84 (U)	

Tolerance Limit

Constituent: Fluoride, total (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	0.04 (J)	<0.125
5/18/2016	0.04 (J)	<0.125
7/19/2016	0.04 (J)	<0.125
9/19/2016	<0.125	<0.125
11/29/2016	<0.125	<0.125
1/31/2017	0.04 (J)	<0.125
5/23/2017	0.05 (J)	<0.125
10/9/2017	0.06 (J)	
10/10/2017		<0.125
4/17/2018	0.07 (J)	<0.125
8/14/2018	0.07 (J)	0.04 (J)
4/10/2019	0.08 (J)	<0.125
9/24/2019	<0.125	<0.125
3/26/2020	<0.125	<0.125
9/23/2020	<0.125	<0.125
4/22/2021	<0.125	<0.125
9/30/2021	0.143	<0.125
5/2/2022	<0.125	<0.125
10/11/2022	<0.125	<0.125
4/11/2023	<0.125	<0.125
10/23/2023	0.162	

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	<0.001	<0.001
5/18/2016	<0.001	<0.001
7/19/2016	<0.001	<0.001
9/19/2016	<0.001	<0.001
11/29/2016	<0.001	<0.001
1/31/2017	<0.001	<0.001
5/23/2017	<0.001	<0.001
4/17/2018	<0.001	<0.001
8/14/2018	<0.001	<0.001
4/10/2019	<0.001	<0.001
9/24/2019	<0.001	<0.001
3/26/2020	<0.001	<0.001
9/23/2020	<0.001	<0.001
4/22/2021	<0.001	<0.001
9/30/2021	<0.001	<0.001
5/2/2022	<0.001	<0.001
10/11/2022	<0.001	<0.001
4/11/2023	<0.001	<0.001
10/23/2023	<0.001	

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	<0.004	0.0034 (J)
5/18/2016	<0.004	<0.004
7/19/2016	<0.004	<0.004
9/19/2016	<0.004	<0.004
11/29/2016	<0.004	<0.004
1/31/2017	<0.004	<0.004
5/23/2017	<0.004	<0.004
4/17/2018	0.0022 (J)	0.0022 (J)
8/14/2018	0.0025 (J)	0.0027 (J)
4/10/2019	0.0018 (J)	0.002 (J)
4/18/2019		0.002 (J)
10/19/2019	<0.004	<0.004
4/3/2020	<0.004	<0.004
4/17/2020	<0.004	<0.004
10/15/2020	<0.004	<0.004
9/30/2021	<0.004	<0.004
5/2/2022	<0.004	
5/5/2022		<0.004
11/8/2022	<0.004	<0.004
4/28/2023	<0.004	<0.004
10/23/2023	<0.004	

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	<0.0002	<0.0002
5/18/2016	<0.0002	<0.0002
7/19/2016	8E-05 (J)	8.3E-05 (J)
9/19/2016	<0.0002	<0.0002
11/29/2016	<0.0002	<0.0002
1/31/2017	<0.0002	<0.0002
5/23/2017	<0.0002	<0.0002
4/17/2018	<0.0002	<0.0002
8/14/2018	<0.0002	<0.0002
4/10/2019	<0.0002	<0.0002
9/24/2019	<0.0002	<0.0002
3/26/2020	<0.0002	<0.0002
9/23/2020	<0.0002	<0.0002
4/22/2021	<0.0002	<0.0002
9/30/2021	<0.0002	<0.0002
5/2/2022	<0.0002	<0.0002
10/11/2022	<0.0002	<0.0002
4/11/2023	<0.0002	<0.0002
10/23/2023	<0.0002	

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	<0.001	<0.001
5/18/2016	<0.001	<0.001
7/19/2016	<0.001	<0.001
9/19/2016	<0.001	<0.001
11/29/2016	<0.001	<0.001
1/31/2017	0.00088 (J)	<0.001
5/23/2017	<0.001	<0.001
4/17/2018	<0.001	<0.001
8/14/2018	<0.001	<0.001
4/10/2019	<0.001	<0.001
9/24/2019	<0.001	<0.001
3/26/2020	<0.001	<0.001
9/23/2020	<0.001	<0.001
4/22/2021	<0.001	<0.001
9/30/2021	<0.001	<0.001
5/2/2022	<0.001	<0.001
10/11/2022	<0.001	<0.001
4/11/2023	<0.001	<0.001
10/23/2023	<0.001	

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	<0.001	0.0003 (J)
5/18/2016	<0.001	<0.001
7/19/2016	<0.001	<0.001
9/19/2016	<0.001	<0.001
11/29/2016	<0.001	<0.001
1/31/2017	<0.001	<0.001
5/23/2017	<0.001	<0.001
4/17/2018	0.00065 (J)	0.0003 (J)
8/14/2018	<0.001	<0.001
4/10/2019	<0.001	<0.001
9/24/2019	<0.001	<0.001
3/26/2020	<0.001	<0.001
9/23/2020	<0.001	<0.001
4/22/2021	<0.001	<0.001
9/30/2021	<0.001	<0.001
5/2/2022	<0.001	<0.001
10/11/2022	<0.001	<0.001
4/11/2023	<0.001	<0.001
10/23/2023	<0.001	

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 1/23/2024 11:24 AM View: UTL's App IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)
3/29/2016	<0.001	<0.001
5/18/2016	<0.001	<0.001
7/19/2016	<0.001	<0.001
9/19/2016	<0.001	<0.001
11/29/2016	<0.001	<0.001
1/31/2017	<0.001	<0.001
5/23/2017	<0.001	<0.001
4/17/2018	<0.001	<0.001
8/14/2018	<0.001	<0.001
4/10/2019	<0.001	<0.001
9/24/2019	<0.001	<0.001
3/26/2020	<0.001	<0.001
9/23/2020	<0.001	<0.001
4/22/2021	<0.001	<0.001
9/30/2021	<0.001	<0.001
5/2/2022	<0.001	<0.001
10/11/2022	<0.001	<0.001
4/11/2023	<0.001	<0.001
10/23/2023	<0.001	

Figure H. GWPS

LOWMAN POWER PLANT GWPS			
Analyte	Units	Background	GWPS
Antimony	mg/L	0.001	0.006
Arsenic	mg/L	0.0031	0.01
Barium	mg/L	0.15	2
Beryllium	mg/L	0.001	0.004
Cadmium	mg/L	0.001	0.005
Chromium	mg/L	0.001	0.1
Cobalt	mg/L	0.013	0.013
Combined Radium-226/228	pCi/L	1.31	5
Fluoride	mg/L	0.16	4
Lead	mg/L	0.001	0.015
Lithium	mg/L	0.004	0.04
Mercury	mg/L	0.0002	0.002
Molybdenum	mg/L	0.001	0.1
Selenium	mg/L	0.001	0.05
Thallium	mg/L	0.001	0.002

Notes:

1. mg/L - Milligrams per liter
2. pCi/L - Picocuries per liter
3. The background limits were used as the groundwater protection standard (GWPS) when appropriate under 40 CFR §257.95(h), ADEM Rule 335-13-15-.06(h), and the ADEM Variance.
4. GWPS established during second semi-annual sampling event in 2021.

Figure I. Confidence Intervals - Appendix IV

Confidence Interval Summary Table - Significant Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MW-17	0.05773	0.0218	0.01	Yes 8	0.03976	0.01695	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-20	0.03771	0.02344	0.01	Yes 8	0.03046	0.007208	0	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	MW-23	0.2835	0.1377	0.01	Yes 8	0.2106	0.06878	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-14	0.08909	0.0149	0.013	Yes 8	0.05028	0.04049	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MW-14A	0.06395	0.03335	0.013	Yes 8	0.04838	0.01575	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MW-17	0.03	0.015	0.013	Yes 8	0.0195	0.005425	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-3	0.02929	0.01996	0.013	Yes 8	0.02463	0.004406	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-4	0.9472	0.7223	0.013	Yes 8	0.8354	0.1154	0	None	x^2	0.01	Param.
Cobalt (mg/L)	MW-5	0.02768	0.01317	0.013	Yes 8	0.02043	0.006842	0	None	No	0.01	Param.
Lithium (mg/L)	MW-11	0.06038	0.04369	0.04	Yes 8	0.05204	0.007874	0	None	No	0.01	Param.
Lithium (mg/L)	MW-14B	0.2199	0.0558	0.04	Yes 5	0.1379	0.04897	0	None	No	0.01	Param.
Lithium (mg/L)	MW-17	0.1088	0.05648	0.04	Yes 8	0.08313	0.02633	0	None	x^2	0.01	Param.
Lithium (mg/L)	MW-23	0.1733	0.1329	0.04	Yes 8	0.1531	0.01906	0	None	No	0.01	Param.
Lithium (mg/L)	MW-24	0.2001	0.05538	0.04	Yes 7	0.1278	0.06093	0	None	No	0.01	Param.
Lithium (mg/L)	MW-25	0.1687	0.1142	0.04	Yes 7	0.1414	0.02296	0	None	No	0.01	Param.
Lithium (mg/L)	MW-5A	0.06508	0.05027	0.04	Yes 8	0.05768	0.006982	0	None	No	0.01	Param.
Lithium (mg/L)	MW-7	0.0925	0.07133	0.04	Yes 8	0.08191	0.009988	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	MW-18	0.0015	0.001	0.006	No 8	0.001063	0.0001768	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-10	0.001	0.001	0.01	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-11	0.003323	0.002354	0.01	No 8	0.002839	0.000457	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-12	0.001	0.00053	0.01	No 8	0.0009413	0.0001662	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-12A	0.0597	0.001	0.01	No 8	0.008338	0.02075	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-13	0.005315	0.0005603	0.01	No 8	0.002804	0.002951	12.5	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MW-13A	0.01156	0.007417	0.01	No 8	0.009488	0.001953	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-14	0.04065	0.003989	0.01	No 8	0.02126	0.01991	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MW-14A	0.01038	0.005548	0.01	No 8	0.007966	0.002281	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-14B	0.0017	0.001	0.01	No 5	0.00126	0.0003578	20	None	No	0.031	NP (normality)
Arsenic (mg/L)	MW-15	0.001	0.001	0.01	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-16	0.005184	0.001466	0.01	No 8	0.003325	0.001754	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-17	0.05773	0.0218	0.01	Yes 8	0.03976	0.01695	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-18	0.0109	0.001	0.01	No 8	0.003275	0.00366	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	MW-20	0.03771	0.02344	0.01	Yes 8	0.03046	0.007208	0	None	x^(1/3)	0.01	Param.
Arsenic (mg/L)	MW-21	0.0119	0.004189	0.01	No 8	0.007938	0.003935	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MW-22	0.005712	0.003238	0.01	No 8	0.004475	0.001167	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-23	0.2835	0.1377	0.01	Yes 8	0.2106	0.06878	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-24	0.003762	0.001138	0.01	No 8	0.00245	0.001238	12.5	None	No	0.01	Param.
Arsenic (mg/L)	MW-25	0.01575	0.002253	0.01	No 8	0.01099	0.005642	37.5	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MW-26	0.0014	0.001	0.01	No 8	0.001088	0.0001458	62.5	None	No	0.004	NP (normality)
Arsenic (mg/L)	MW-3	0.001	0.001	0.01	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-4	0.009011	0.0008525	0.01	No 8	0.006077	0.00635	37.5	Kaplan-Meier	x^(1/3)	0.01	Param.
Arsenic (mg/L)	MW-5	0.05148	0.009453	0.01	No 8	0.02954	0.02325	0	None	sqrt(x)	0.01	Param.
Arsenic (mg/L)	MW-5A	0.004177	0.002158	0.01	No 8	0.003168	0.0009525	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-6	0.0217	0.001	0.01	No 8	0.00852	0.01023	50	None	No	0.004	NP (normality)
Arsenic (mg/L)	MW-7	0.001	0.001	0.01	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Arsenic (mg/L)	MW-8	0.03474	0.008468	0.01	No 8	0.02161	0.0124	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-9	0.01	0.0011	0.01	No 8	0.004855	0.004326	37.5	None	No	0.004	NP (normality)
Barium, Total (mg/L)	MW-10	0.03292	0.0243	2	No 8	0.02861	0.004067	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-11	0.04014	0.02604	2	No 8	0.03309	0.006653	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-12	0.03605	0.0275	2	No 8	0.03178	0.004029	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-12A	0.274	0.027	2	No 8	0.0627	0.08547	0	None	No	0.004	NP (normality)
Barium, Total (mg/L)	MW-13	0.1044	0.07551	2	No 8	0.08994	0.01361	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-13A	0.1891	0.1609	2	No 8	0.175	0.01328	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-14	0.2765	0.1315	2	No 8	0.204	0.06844	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-14A	0.07904	0.05626	2	No 8	0.06765	0.01075	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-14B	0.2161	0.0483	2	No 5	0.1322	0.05007	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-15	0.06396	0.04754	2	No 8	0.05575	0.007741	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-16	0.1959	0.1106	2	No 8	0.1533	0.04024	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-17	0.158	0.054	2	No 8	0.08888	0.04304	0	None	No	0.004	NP (normality)
Barium, Total (mg/L)	MW-18	0.2333	0.1172	2	No 8	0.1753	0.05475	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-19	0.0716	0.0534	2	No 8	0.0625	0.008586	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-20	0.1504	0.09889	2	No 8	0.1246	0.02428	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-21	0.12	0.08753	2	No 8	0.1038	0.0153	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-22	0.1499	0.1331	2	No 8	0.1415	0.00791	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-23	0.06984	0.03941	2	No 8	0.05463	0.01435	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-24	0.15	0.06577	2	No 8	0.1079	0.03973	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-25	0.05389	0.04036	2	No 8	0.04713	0.006379	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-26	0.138	0.09197	2	No 8	0.115	0.02173	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-3	0.1239	0.08907	2	No 8	0.1065	0.01644	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-4	0.0451	0.02752	2	No 8	0.03631	0.008294	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-5	0.3709	0.1781	2	No 8	0.2745	0.09093	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-5A	0.09996	0.08354	2	No 8	0.09175	0.007741	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-6	0.099	0.041	2	No 8	0.06558	0.02428	0	None	No	0.004	NP (normality)

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Barium, Total (mg/L)	MW-7	0.09309	0.07884	2	No 8	0.08596	0.006724	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-8	0.113	0.07481	2	No 8	0.09391	0.01803	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-9	0.1018	0.04977	2	No 8	0.07528	0.02701	0	None	sqrt(x)	0.01	Param.
Beryllium (mg/L)	MW-10	0.0015	0.001	0.004	No 8	0.001071	0.000175	75	None	No	0.004	NP (normality)
Beryllium (mg/L)	MW-14	0.001	0.001	0.004	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Beryllium (mg/L)	MW-3	0.001	0.001	0.004	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Beryllium (mg/L)	MW-4	0.005581	0.003977	0.004	No 8	0.004779	0.0007568	0	None	No	0.01	Param.
Cadmium (mg/L)	MW-10	0.0018	0.001	0.005	No 8	0.001224	0.0003228	62.5	None	No	0.004	NP (normality)
Cadmium (mg/L)	MW-12	0.0011	0.00037	0.005	No 8	0.0009338	0.0002305	75	None	No	0.004	NP (normality)
Cadmium (mg/L)	MW-12A	0.001	0.001	0.005	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-14	0.0012	0.001	0.005	No 8	0.001025	0.00007071	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-14A	0.001	0.001	0.005	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-19	0.001	0.001	0.005	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-4	0.001	0.001	0.005	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-5	0.001	0.00063	0.005	No 8	0.0009538	0.0001308	87.5	None	No	0.004	NP (NDs)
Cadmium (mg/L)	MW-6	0.001	0.001	0.005	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-10	0.004	0.001	0.1	No 8	0.001375	0.001061	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-11	0.002	0.001	0.1	No 8	0.001125	0.0003536	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-12	0.0023	0.001	0.1	No 8	0.001163	0.0004596	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-12A	0.002	0.001	0.1	No 8	0.001125	0.0003536	50	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-13	0.00116	0.001	0.1	No 8	0.00102	0.00005657	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-13A	0.001	0.001	0.1	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-15	0.002	0.001	0.1	No 8	0.001125	0.0003536	75	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-16	0.001	0.001	0.1	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-18	0.001	0.001	0.1	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-19	0.001	0.001	0.1	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-20	0.001	0.001	0.1	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-21	0.001	0.001	0.1	No 8	0.001	2.2e-11	75	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-24	0.002	0.001	0.1	No 8	0.001125	0.0003536	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-25	0.01	0.001	0.1	No 8	0.008875	0.003182	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-26	0.001	0.001	0.1	No 8	0.001	2.5e-11	37.5	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-3	0.001	0.001	0.1	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-10	0.006156	0.002526	0.013	No 8	0.004341	0.001712	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-12	0.001	0.00062	0.013	No 8	0.0009525	0.0001344	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-12A	0.013	0.001	0.013	No 8	0.002939	0.004247	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-13	0.002	0.001	0.013	No 8	0.001125	0.0003536	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-13A	0.012	0.01	0.013	No 8	0.01113	0.0008345	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-14	0.08909	0.0149	0.013	Yes 8	0.05028	0.04049	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MW-14A	0.06395	0.03335	0.013	Yes 8	0.04838	0.01575	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	MW-15	0.004	0.001	0.013	No 8	0.001375	0.001061	62.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-16	0.01905	0.009204	0.013	No 8	0.01413	0.004643	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-17	0.03	0.015	0.013	Yes 8	0.0195	0.005425	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-18	0.002	0.001	0.013	No 8	0.001125	0.0003536	75	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-19	0.006	0.001	0.013	No 8	0.002687	0.002052	12.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-20	0.006	0.001	0.013	No 8	0.003	0.00233	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-21	0.005	0.001	0.013	No 8	0.002625	0.001847	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-22	0.003	0.0005	0.013	No 8	0.001875	0.001094	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-23	0.01321	0.008315	0.013	No 8	0.01137	0.002387	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Cobalt (mg/L)	MW-24	0.05	0.001	0.013	No 8	0.02063	0.02435	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-25	0.01696	0	0.013	No 8	0.008313	0.008154	12.5	None	No	0.01	Param.
Cobalt (mg/L)	MW-3	0.02929	0.01996	0.013	Yes 8	0.02463	0.004406	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-4	0.9472	0.7223	0.013	Yes 8	0.8354	0.1154	0	None	x^2	0.01	Param.
Cobalt (mg/L)	MW-5	0.02768	0.01317	0.013	Yes 8	0.02043	0.006842	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-5A	0.021	0.012	0.013	No 8	0.01441	0.002806	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-6	0.01125	0.0003113	0.013	No 8	0.006567	0.005034	25	Kaplan-Meier	No	0.01	Param.

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	MW-7	0.001	0.001	0.013	No 8	0.001	2.5e-11	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-8	0.00223	0.001	0.013	No 8	0.001404	0.0005617	50	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-10	1.563	0.1106	5	No 8	0.8009	1.048	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-11	1.561	0.2607	5	No 8	0.911	0.6135	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-12	1.041	0.05997	5	No 8	0.5506	0.4628	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-12A	1.031	0.09402	5	No 8	0.5335	0.5508	0	None	x^(1/3)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-13	1.481	0.3623	5	No 8	0.9214	0.5275	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-13A	1.65	0.6365	5	No 8	1.143	0.4781	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-14	1.806	0.4704	5	No 8	1.138	0.63	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-14A	1.538	0.275	5	No 8	0.878	0.7141	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-14B	2.743	0.3115	5	No 5	1.527	0.7256	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-15	1.047	0.4579	5	No 8	0.7523	0.2777	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-16	1.566	0.3109	5	No 8	0.9386	0.5922	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-17	1.273	0.007001	5	No 8	0.6402	0.5974	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-18	0.85	0.228	5	No 8	0.5205	0.264	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-19	0.6489	0.03327	5	No 8	0.3411	0.2904	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-20	1.293	0.3364	5	No 8	0.8146	0.4512	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-21	0.7735	0.3259	5	No 8	0.521	0.3039	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-22	1.13	0.2036	5	No 8	0.6676	0.4125	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-23	1.378	0.4564	5	No 8	0.9171	0.4347	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24	1.405	0.7994	5	No 8	1.102	0.2856	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25	1.743	0.3493	5	No 8	1.046	0.6575	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26	1.016	0.3257	5	No 8	0.6709	0.3256	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-3	1.019	0.2896	5	No 8	0.6542	0.3439	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-4	1.346	0.5897	5	No 8	0.968	0.3569	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5	1.397	0.666	5	No 8	1.032	0.345	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-5A	3.365	0.3	5	No 8	2.132	3.724	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	0.7897	0.2929	5	No 8	0.5413	0.2343	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-7	10.9	0.447	5	No 8	2.008	3.607	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-8	0.9499	0.2256	5	No 8	0.5878	0.3417	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-9	2.53	0.552	5	No 8	1.541	0.9331	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-10	0.282	0.125	4	No 8	0.1585	0.06324	75	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-11	2.115	1.763	4	No 8	1.939	0.1661	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-12	0.125	0.04	4	No 8	0.09563	0.04066	62.5	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-12A	0.125	0.125	4	No 8	0.125	0	100	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-13	0.1607	0.09404	4	No 8	0.1365	0.03036	37.5	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride, total (mg/L)	MW-13A	0.125	0.125	4	No 8	0.125	0	100	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-14	0.1975	0.07198	4	No 8	0.151	0.04623	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	MW-14A	0.137	0.125	4	No 8	0.1279	0.00533	75	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-15	0.125	0.125	4	No 8	0.125	0	100	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-16	0.125	0.125	4	No 8	0.125	0	100	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-17	1.793	0.5829	4	No 8	1.188	0.5709	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-18	0.146	0.125	4	No 8	0.1315	0.009227	62.5	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-19	0.125	0.125	4	No 8	0.125	0	100	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-20	0.182	0.125	4	No 8	0.1445	0.02285	50	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-21	1.25	0.127	4	No 8	0.8336	0.5748	62.5	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-22	0.125	0.125	4	No 8	0.125	0	100	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-23	2.483	1.001	4	No 8	1.742	0.6992	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-24	1.36	0.4403	4	No 8	0.9003	0.4339	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-25	0.8805	0.3917	4	No 8	0.6361	0.2306	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-26	0.1659	0.1268	4	No 8	0.148	0.01853	25	Kaplan-Meier	No	0.01	Param.
Fluoride, total (mg/L)	MW-3	0.157	0.125	4	No 8	0.129	0.01131	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-4	0.8186	0.3139	4	No 8	0.5663	0.2381	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-5	0.269	0.09439	4	No 8	0.5811	0.5589	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride, total (mg/L)	MW-5A	1.639	1.156	4	No 8	1.398	0.2282	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride, total (mg/L)	MW-6	1.25	0.237	4	No 8	1.123	0.3581	87.5	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-7	2.514	1.413	4	No 8	1.964	0.5196	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-8	0.3161	0.2055	4	No 8	0.2601	0.05522	12.5	None	sqrt(x)	0.01	Param.
Fluoride, total (mg/L)	MW-9	1.25	0.139	4	No 8	0.8359	0.5716	62.5	None	No	0.004	NP (normality)
Lead (mg/L)	MW-10	0.0015	0.001	0.015	No 8	0.001063	0.0001768	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-13	0.001	0.001	0.015	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-3	0.001	0.001	0.015	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Lead (mg/L)	MW-4	0.001886	0.001274	0.015	No 8	0.00181	0.0005028	25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	MW-10	0.01742	0.01253	0.04	No 8	0.01498	0.002307	12.5	None	No	0.01	Param.
Lithium (mg/L)	MW-11	0.06038	0.04369	0.04	Yes 8	0.05204	0.007874	0	None	No	0.01	Param.
Lithium (mg/L)	MW-12	0.02	0.00549	0.04	No 8	0.009326	0.004466	25	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-12A	0.007231	0.005649	0.04	No 8	0.007025	0.001025	37.5	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	MW-13A	0.008286	0.006051	0.04	No 8	0.007153	0.001134	0	None	ln(x)	0.01	Param.
Lithium (mg/L)	MW-14	0.008	0.0015	0.04	No 8	0.006375	0.003009	75	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-14A	0.01447	0.006297	0.04	No 8	0.01038	0.003854	0	None	No	0.01	Param.
Lithium (mg/L)	MW-14B	0.2199	0.0558	0.04	Yes 5	0.1379	0.04897	0	None	No	0.01	Param.
Lithium (mg/L)	MW-15	0.00756	0.004	0.04	No 8	0.004445	0.001259	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-16	0.04917	0.03036	0.04	No 8	0.03976	0.008871	0	None	No	0.01	Param.
Lithium (mg/L)	MW-17	0.1088	0.05648	0.04	Yes 8	0.08313	0.02633	0	None	x^2	0.01	Param.
Lithium (mg/L)	MW-18	0.004	0.004	0.04	No 8	0.004	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-19	0.01149	0.008327	0.04	No 8	0.009889	0.001584	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	MW-20	0.004	0.004	0.04	No 8	0.004	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-21	0.004	0.004	0.04	No 8	0.004	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-22	0.004	0.004	0.04	No 8	0.004	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-23	0.1733	0.1329	0.04	Yes 8	0.1531	0.01906	0	None	No	0.01	Param.
Lithium (mg/L)	MW-24	0.2001	0.05538	0.04	Yes 7	0.1278	0.06093	0	None	No	0.01	Param.
Lithium (mg/L)	MW-25	0.1687	0.1142	0.04	Yes 7	0.1414	0.02296	0	None	No	0.01	Param.
Lithium (mg/L)	MW-3	0.004	0.004	0.04	No 8	0.004	0	100	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-4	0.006922	0.004803	0.04	No 8	0.005863	0.0009993	12.5	None	No	0.01	Param.
Lithium (mg/L)	MW-5	0.008	0.0034	0.04	No 8	0.006988	0.001898	75	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-5A	0.06508	0.05027	0.04	Yes 8	0.05768	0.006982	0	None	No	0.01	Param.
Lithium (mg/L)	MW-6	0.008	0.00564	0.04	No 8	0.007226	0.001077	62.5	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-7	0.0925	0.07133	0.04	Yes 8	0.08191	0.009988	0	None	No	0.01	Param.
Lithium (mg/L)	MW-8	0.004	0.004	0.04	No 8	0.004	0	100	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MW-11	0.143	0.092	0.1	No 8	0.1109	0.02081	0	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-12	0.0016	0.001	0.1	No 8	0.001075	0.0002121	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MW-12A	0.001	0.001	0.1	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MW-14	0.001	0.001	0.1	No 8	0.001	2.2e-11	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-14B	0.05279	0.005996	0.1	No 5	0.036	0.012	0	None	x^2	0.01	Param.
Molybdenum (mg/L)	MW-16	0.001	0.001	0.1	No 8	0.001	2.5e-11	50	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-17	0.1354	0.02714	0.1	No 8	0.08125	0.05105	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-21	0.001	0.001	0.1	No 8	0.001	1.7e-11	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MW-23	0.1327	0.07583	0.1	No 8	0.1043	0.02681	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24	0.01976	0.004739	0.1	No 8	0.01225	0.007086	12.5	None	No	0.01	Param.
Molybdenum (mg/L)	MW-25	0.1215	0.0507	0.1	No 8	0.08525	0.04199	0	None	ln(x)	0.01	Param.
Molybdenum (mg/L)	MW-26	0.006596	0.004654	0.1	No 8	0.005625	0.0009161	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-3	0.002	0.001	0.1	No 8	0.001125	0.0003536	87.5	None	No	0.004	NP (NDs)
Molybdenum (mg/L)	MW-5	0.005	0.001	0.1	No 8	0.004	0.001852	75	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-5A	0.132	0.07275	0.1	No 8	0.1024	0.02795	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.002	0.001	0.1	No 8	0.001375	0.0005175	62.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-7	0.02135	0.0101	0.1	No 8	0.01573	0.005311	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-8	0.001	0.001	0.1	No 8	0.001	2.2e-11	75	None	No	0.004	NP (normality)
Selenium (mg/L)	MW-10	0.003	0.001	0.05	No 8	0.002108	0.0009948	0	None	No	0.004	NP (normality)
Selenium (mg/L)	MW-12	0.008	0.00027	0.05	No 8	0.001909	0.002505	50	None	No	0.004	NP (normality)
Selenium (mg/L)	MW-12A	0.005	0.001	0.05	No 8	0.00175	0.001389	37.5	None	No	0.004	NP (normality)

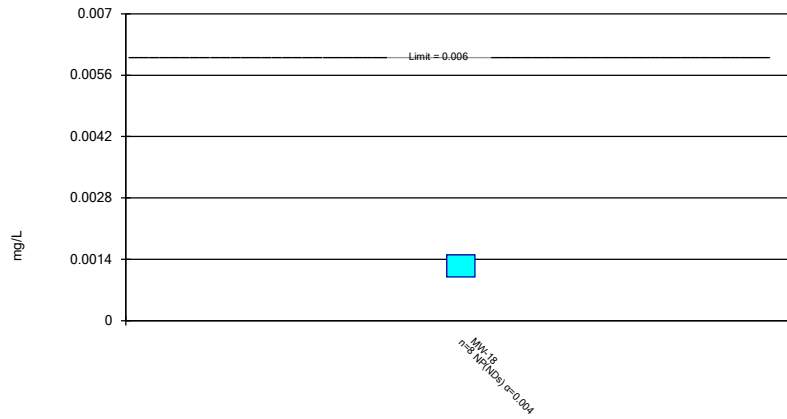
Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:37 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	MW-13	0.001937	0.0006738	0.05	No 8	0.001401	0.0007533	37.5	Kaplan-Meier	ln(x)	0.01	Param.
Selenium (mg/L)	MW-14	0.001	0.00085	0.05	No 8	0.0009813	0.00005303	62.5	None	No	0.004	NP (normality)
Selenium (mg/L)	MW-14A	0.001	0.001	0.05	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Selenium (mg/L)	MW-21	0.001	0.001	0.05	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Selenium (mg/L)	MW-26	0.02263	0.003368	0.05	No 8	0.013	0.009087	0	None	No	0.01	Param.
Selenium (mg/L)	MW-4	0.005	0.001	0.05	No 8	0.00425	0.001488	62.5	None	No	0.004	NP (normality)
Selenium (mg/L)	MW-5	0.003204	0.002041	0.05	No 8	0.002623	0.0005483	0	None	No	0.01	Param.
Selenium (mg/L)	MW-6	0.001	0.001	0.05	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Selenium (mg/L)	MW-7	0.002	0.001	0.05	No 8	0.001125	0.0003536	87.5	None	No	0.004	NP (NDs)
Selenium (mg/L)	MW-8	0.001	0.001	0.05	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Selenium (mg/L)	MW-9	0.001	0.001	0.05	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	MW-12A	0.001	0.001	0.002	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	MW-14	0.001	0.00013	0.002	No 8	0.0008913	0.0003076	87.5	None	No	0.004	NP (NDs)
Thallium (mg/L)	MW-14A	0.001	0.001	0.002	No 8	0.001	0	100	None	No	0.004	NP (NDs)
Thallium (mg/L)	MW-4	0.001	0.001	0.002	No 8	0.001	0	100	None	No	0.004	NP (NDs)

Non-Parametric Confidence Interval

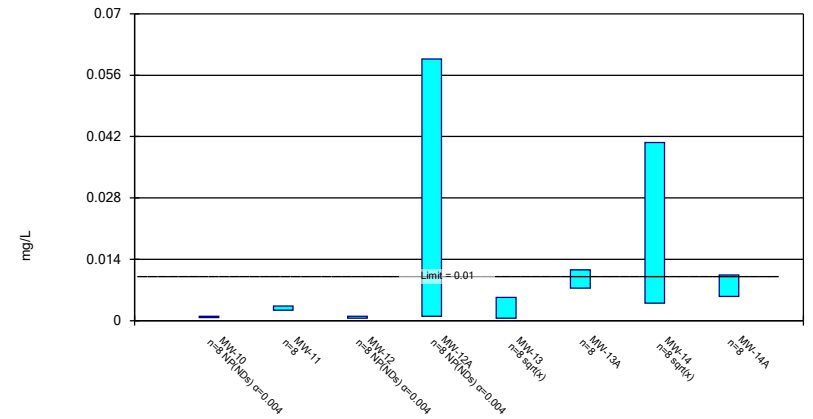
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Constituent: Antimony Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

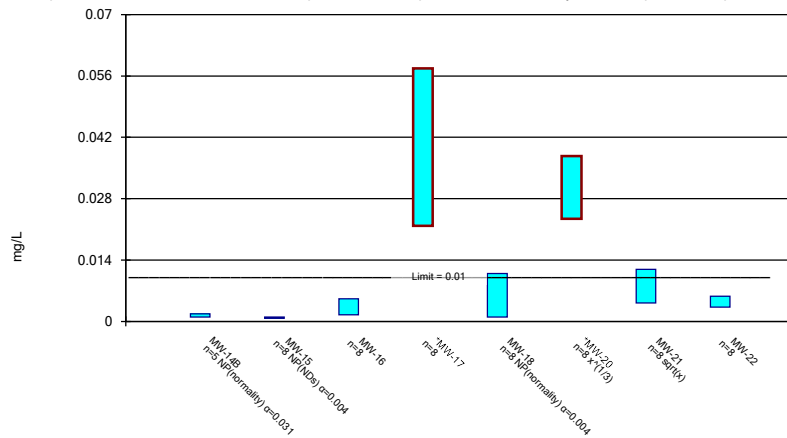
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Constituent: Arsenic Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

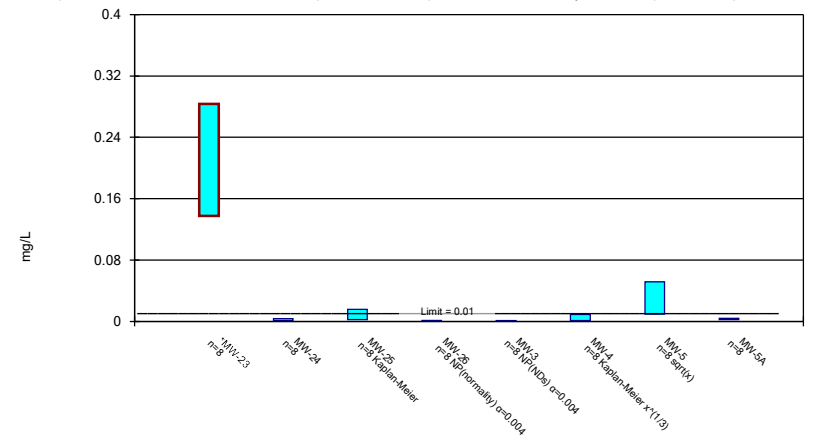
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Constituent: Arsenic Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

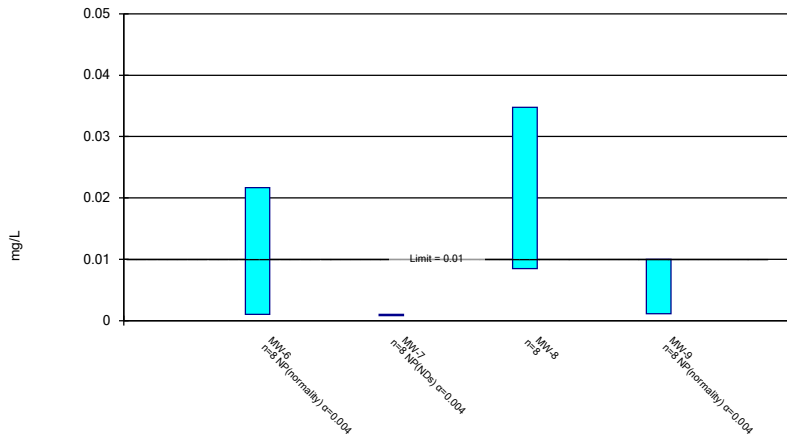
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Constituent: Arsenic Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

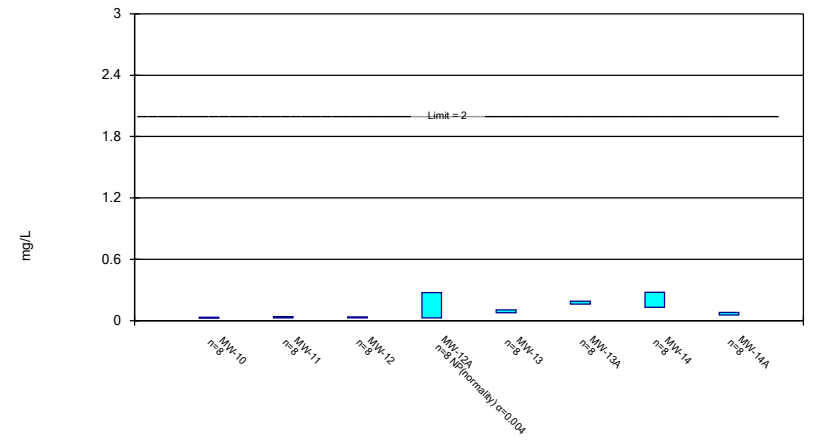
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Constituent: Arsenic Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

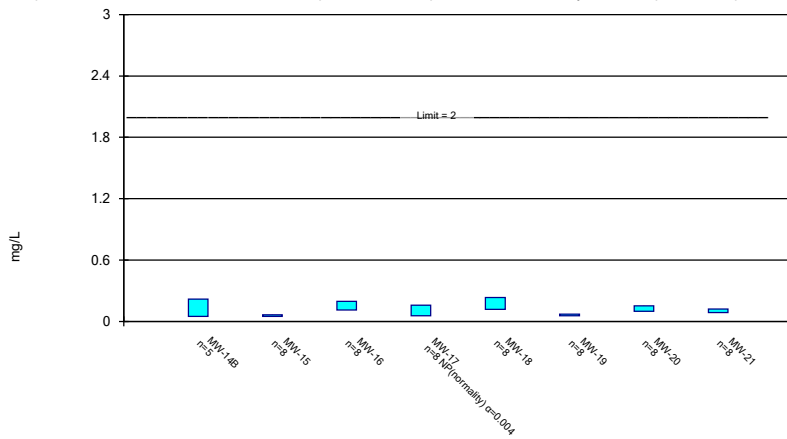
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Constituent: Barium, Total Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

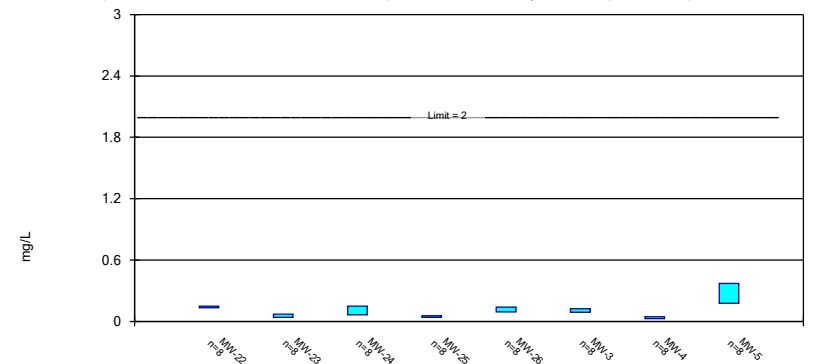
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Constituent: Barium, Total Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric Confidence Interval

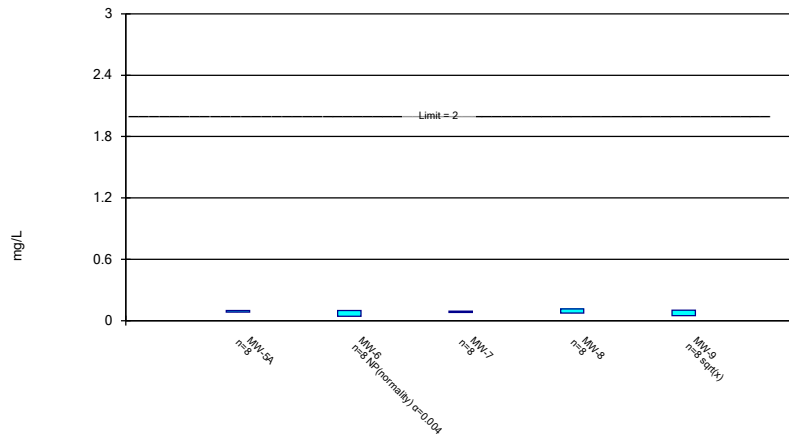
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Constituent: Barium, Total Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

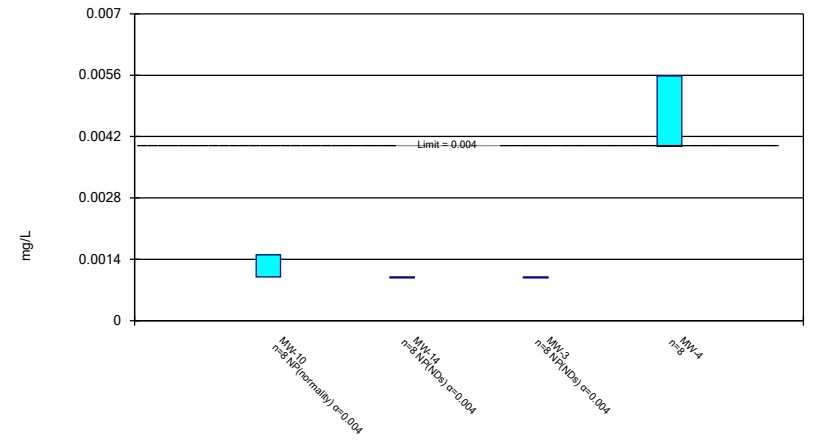
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Constituent: Barium, Total Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

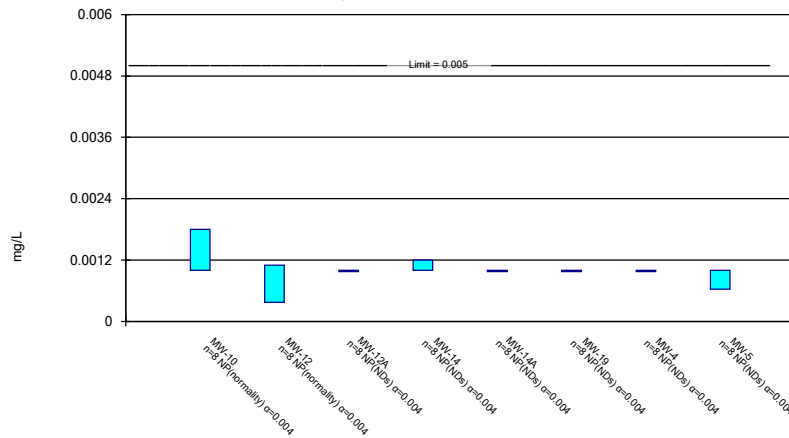
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Constituent: Beryllium Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Non-Parametric Confidence Interval

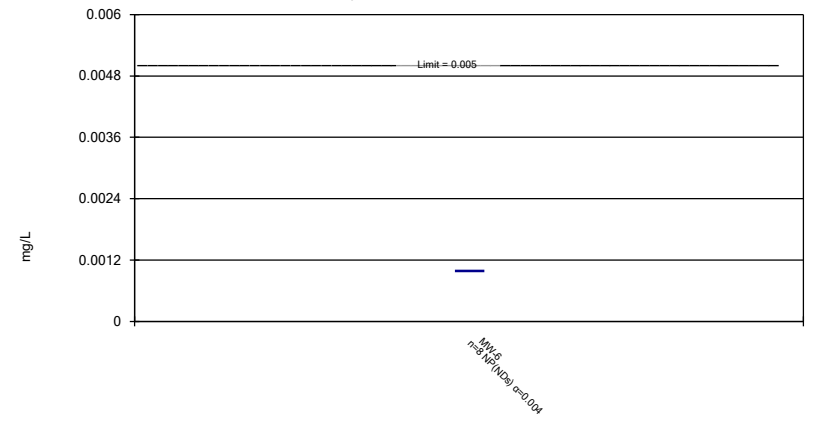
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Constituent: Cadmium Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Non-Parametric Confidence Interval

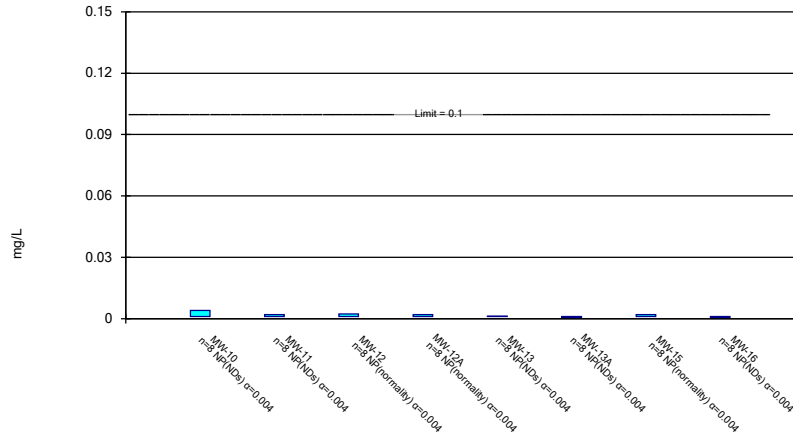
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Constituent: Cadmium Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Non-Parametric Confidence Interval

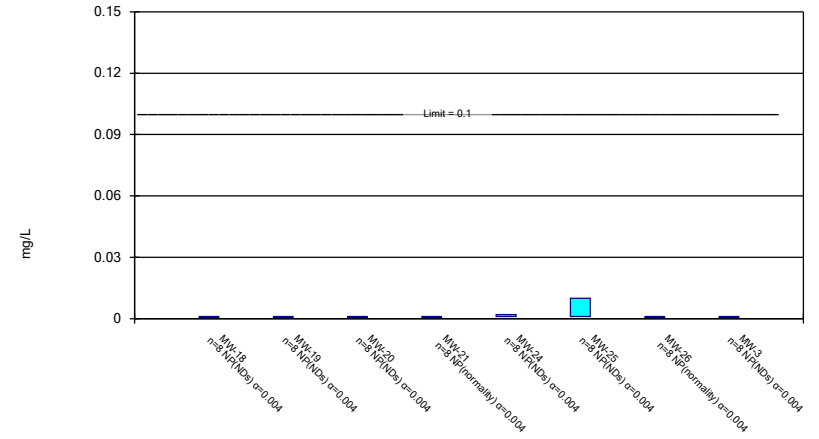
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Constituent: Chromium Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Non-Parametric Confidence Interval

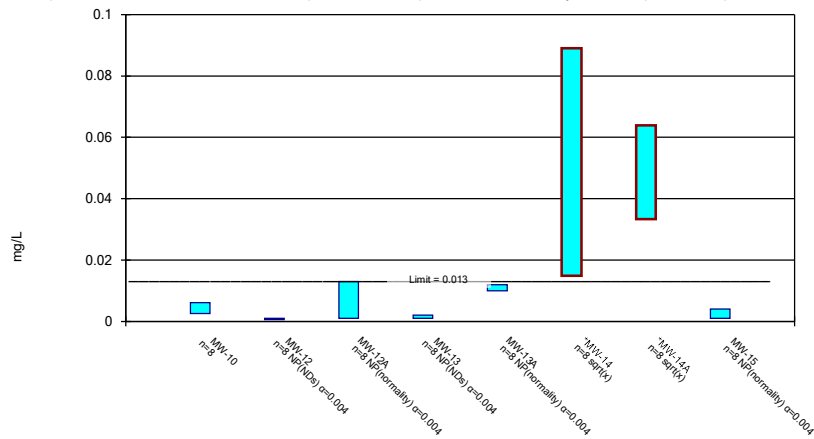
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Constituent: Chromium Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

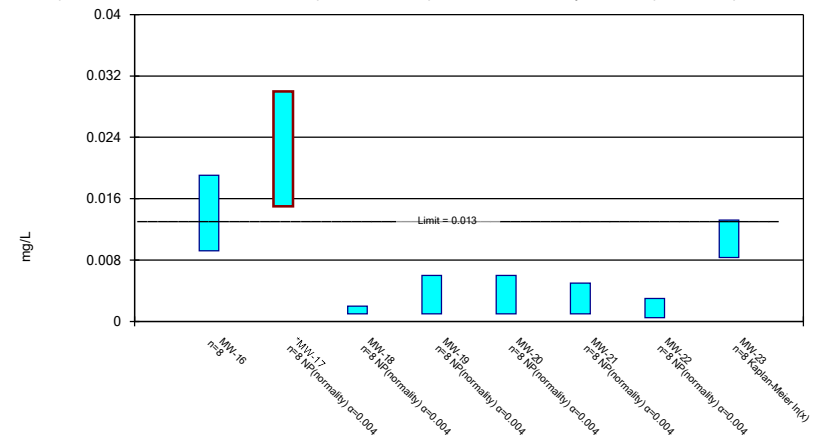
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Constituent: Cobalt Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

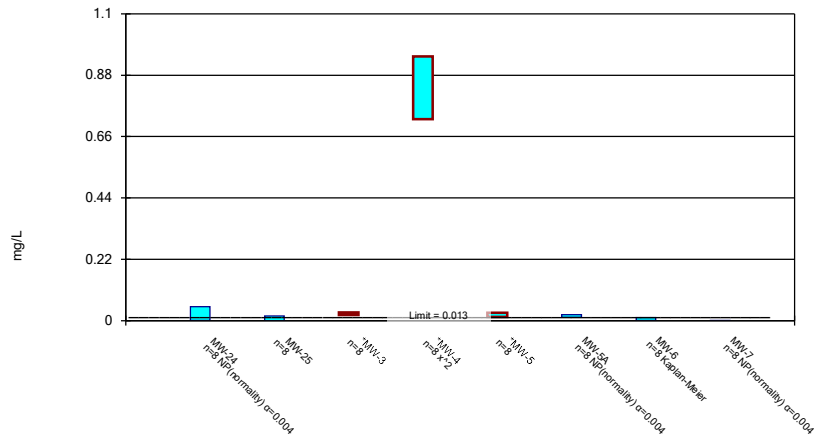
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Constituent: Cobalt Analysis Run 2/2/2024 11:31 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

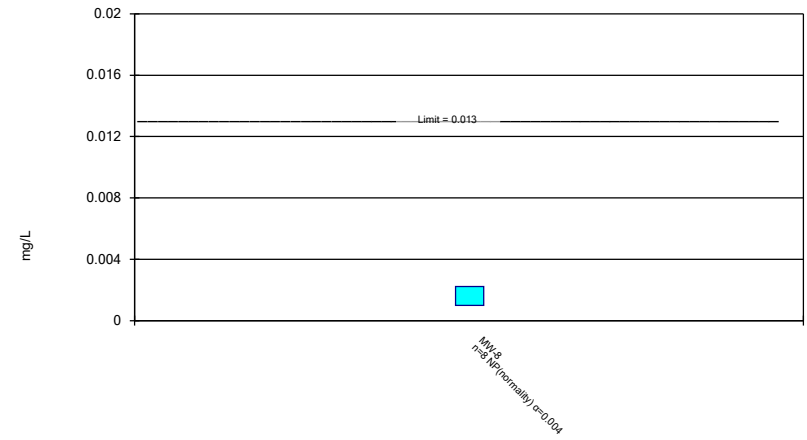
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Constituent: Cobalt Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Non-Parametric Confidence Interval

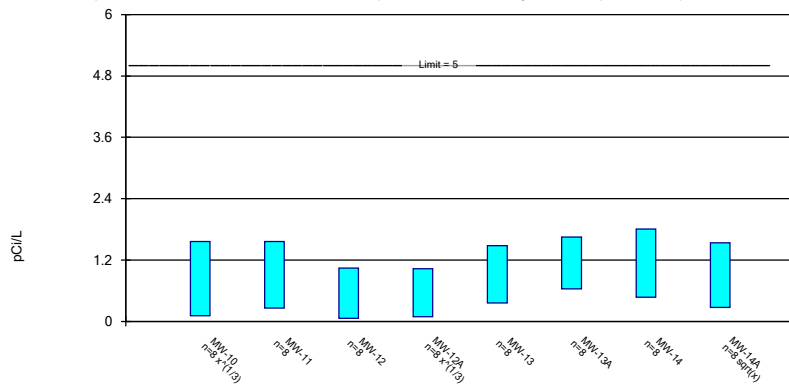
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Constituent: Cobalt Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric Confidence Interval

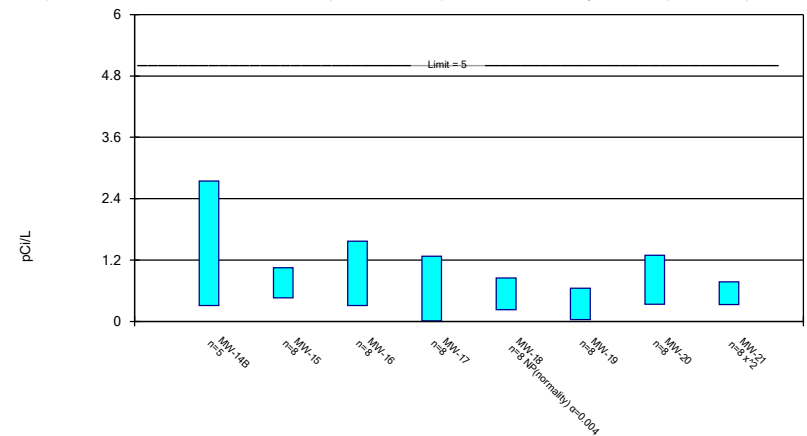
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals A
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

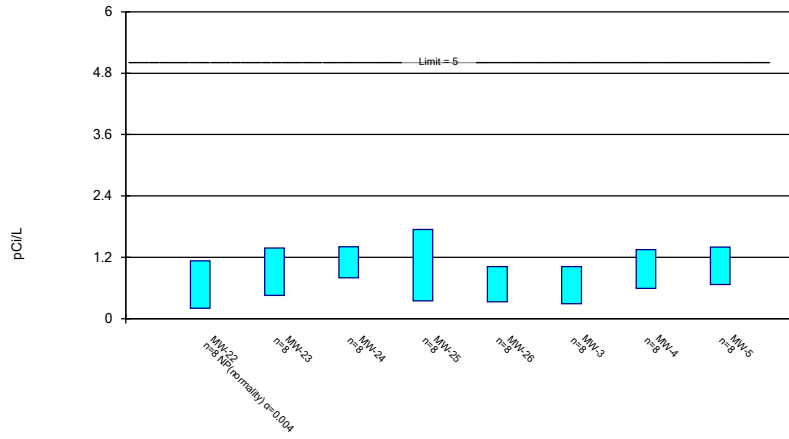
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals A
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

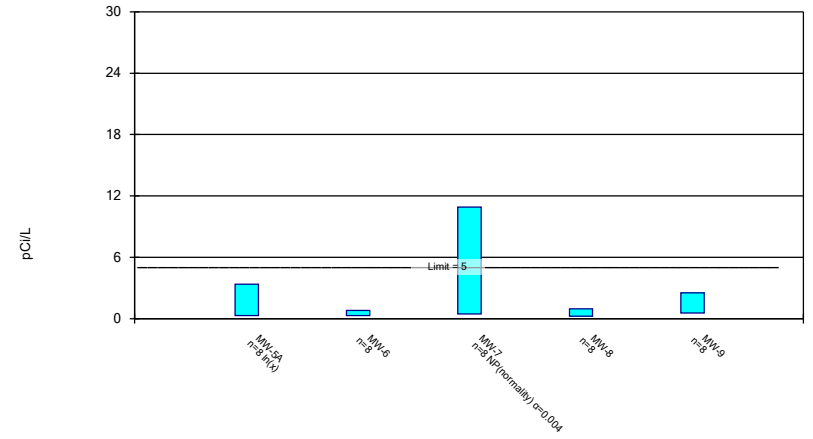
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals A
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

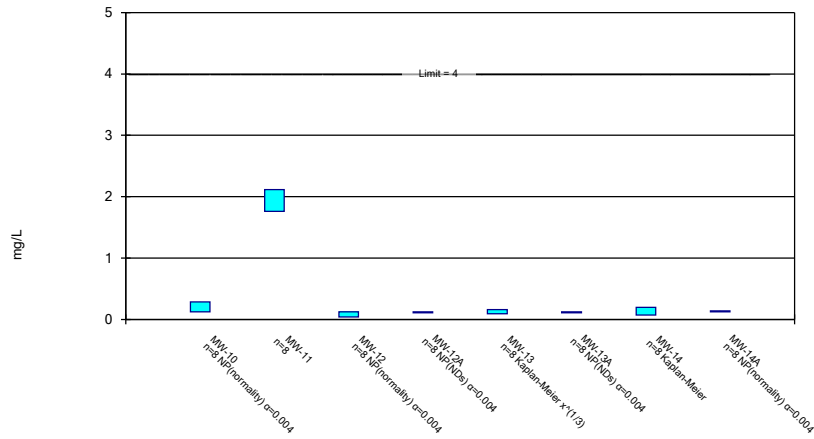
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals A
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

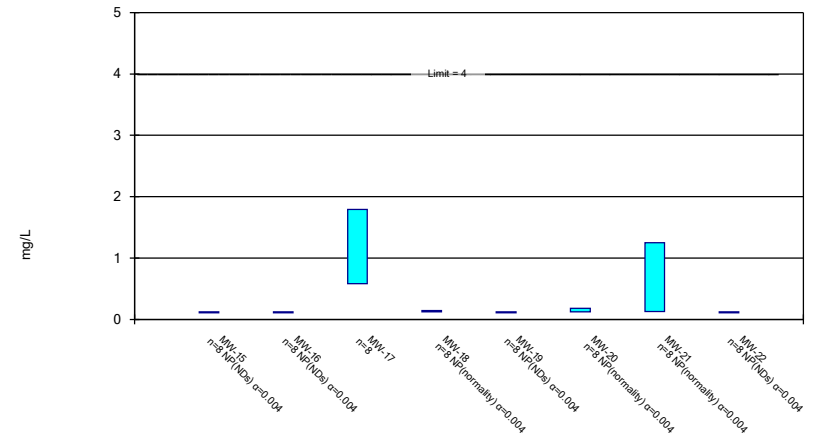
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

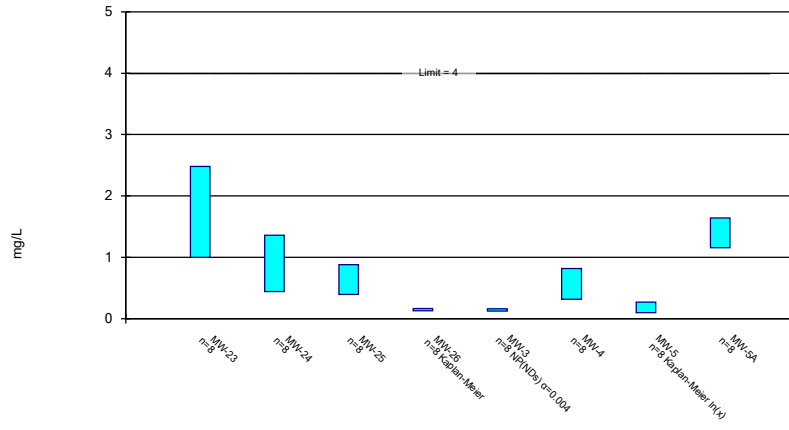
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

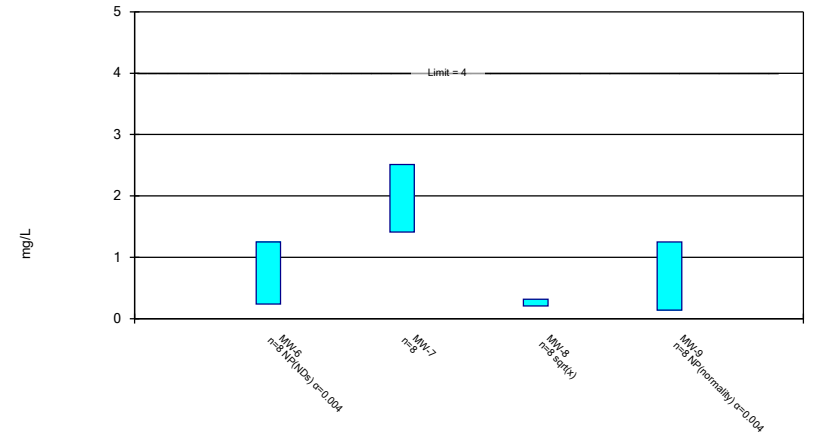
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

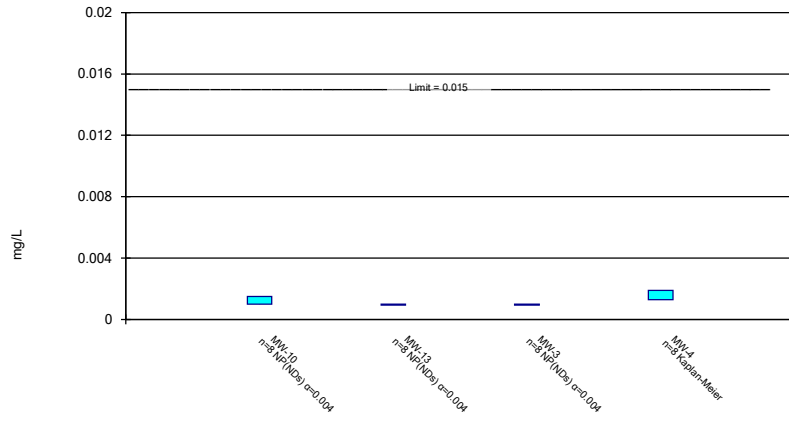
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

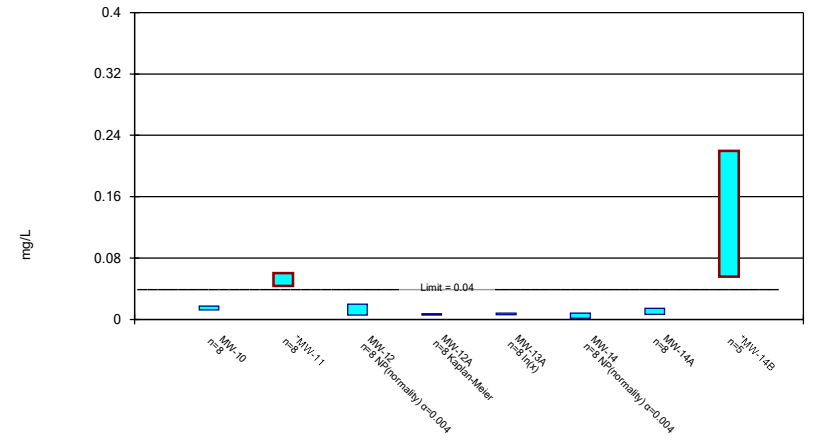
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

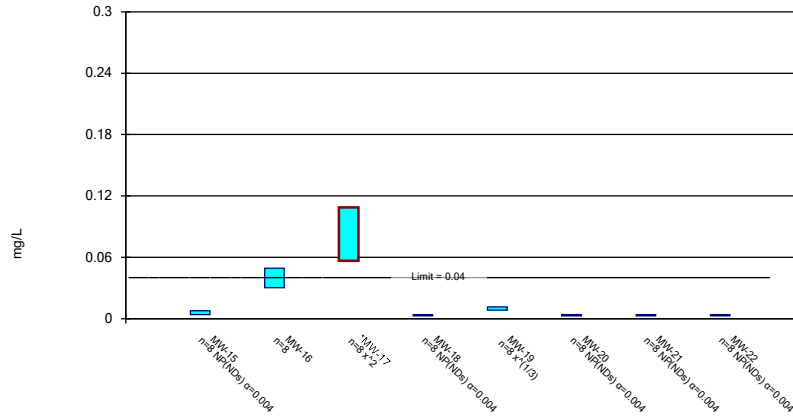
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

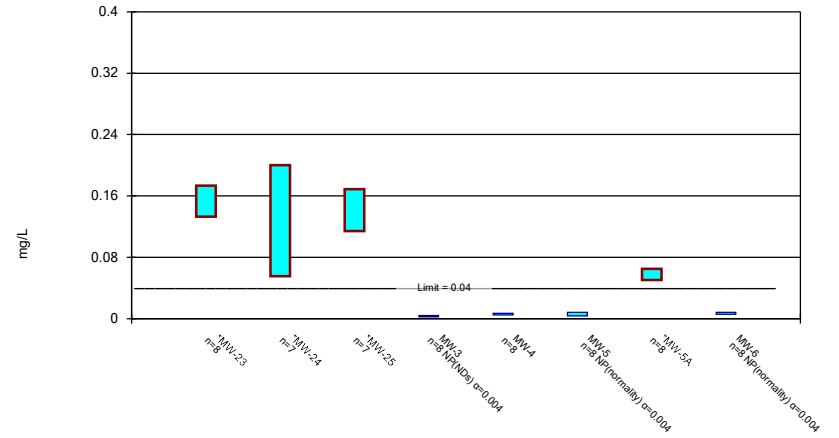
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

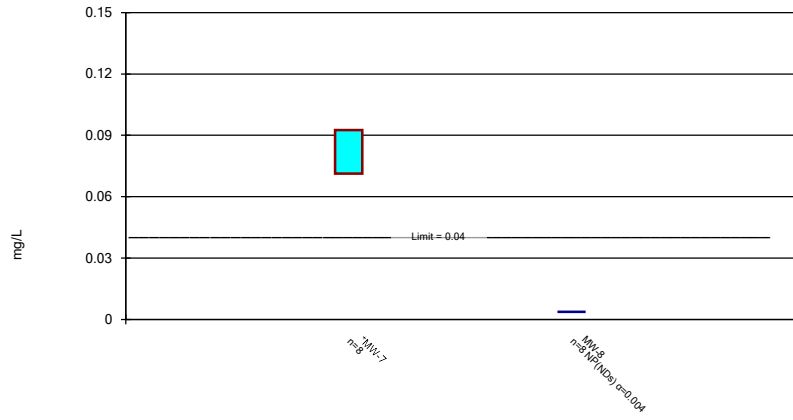
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

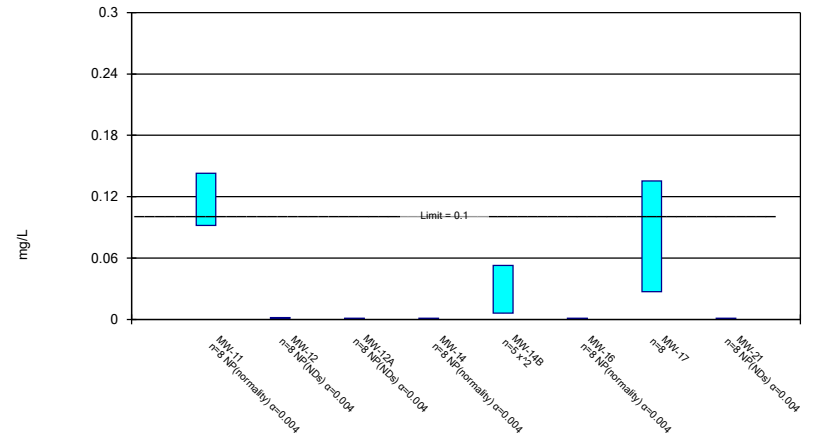
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

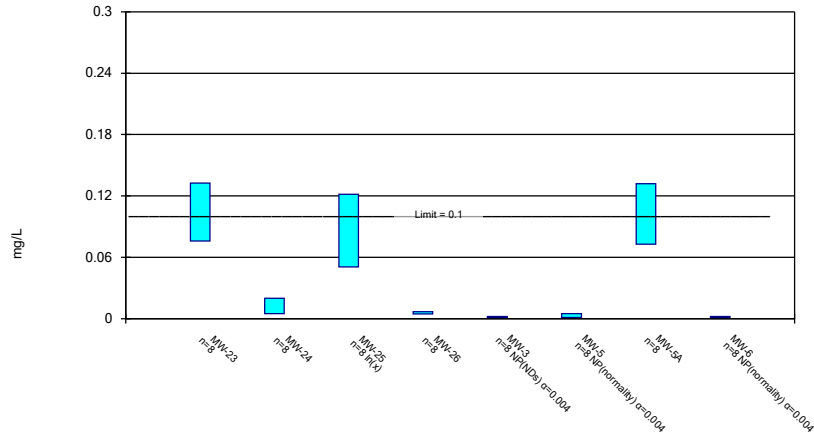
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

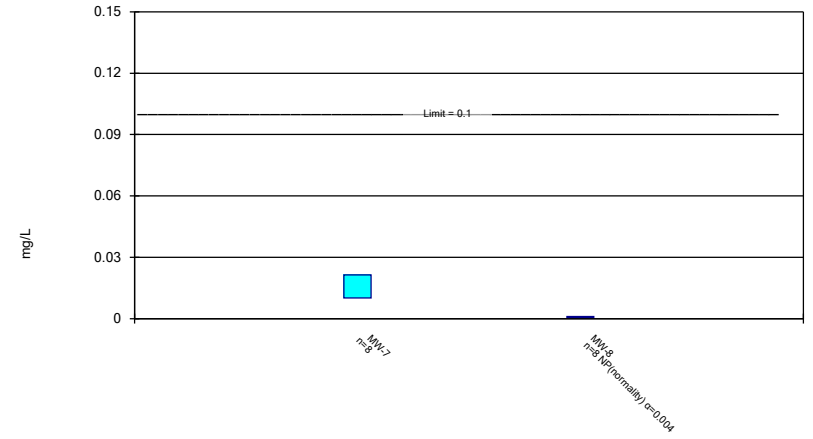
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

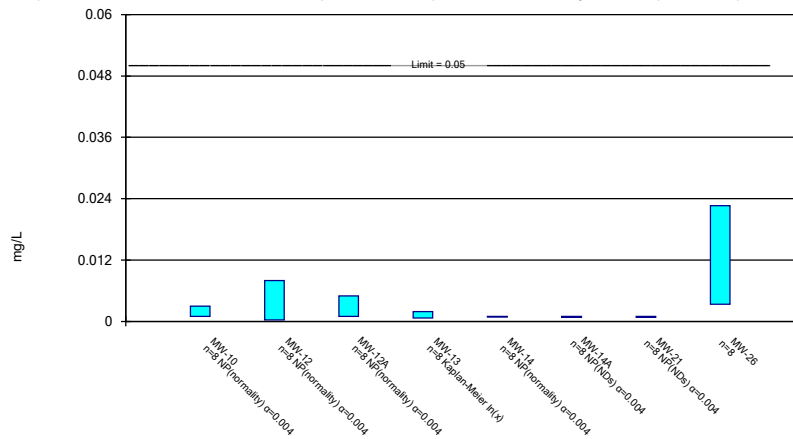
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

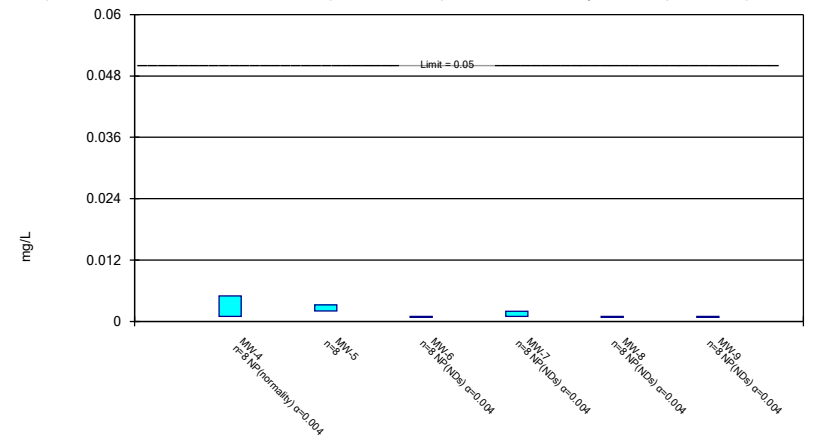
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

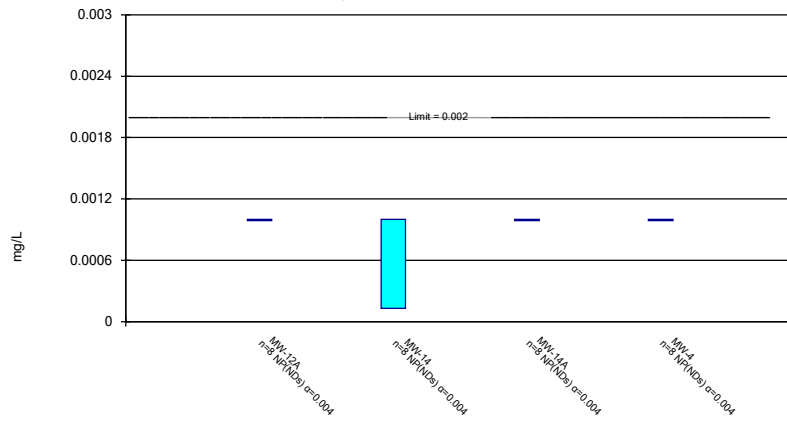
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Thallium Analysis Run 2/2/2024 11:32 AM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-18
6/23/2020	<0.001
9/22/2020	<0.001
4/19/2021	<0.001
9/29/2021	<0.001
4/26/2022	<0.001
10/12/2022	<0.001
4/12/2023	<0.001
10/19/2023	0.0015
Mean	0.001063
Std. Dev.	0.0001768
Upper Lim.	0.0015
Lower Lim.	0.001

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
5/23/2017							0.0013	
5/25/2017			<0.001					
4/17/2018							0.017	
4/19/2018			0.00053 (J)					
4/9/2019			<0.001		0.00082 (J)			
4/10/2019							0.017	
9/23/2019					<0.001			
3/23/2020								0.00593
3/24/2020			<0.001	<0.001			0.00726	
3/25/2020	<0.001	0.00301			0.00271			
6/23/2020						0.0134		
9/21/2020						0.0105		
9/23/2020	<0.001							
9/24/2020		0.0036		<0.001				0.0077
4/19/2021					0.0021	0.0092		
4/20/2021	<0.001	0.0028						
4/21/2021			<0.001	<0.001				
4/22/2021							0.0132	0.0106
9/28/2021					0.0018	0.0103		
9/29/2021							0.0368	0.0117
9/30/2021	<0.001							
10/1/2021		0.0033	<0.001	<0.001				
4/25/2022			<0.001	0.0597				
4/26/2022							0.0635	
4/27/2022	<0.001	0.0025				0.0092		
5/2/2022					0.0017			
5/4/2022								0.0091
10/12/2022								0.0054
10/13/2022	<0.001			<0.001				
10/17/2022		0.0025				0.0071		
10/18/2022					0.003			
4/10/2023					0.0098			
4/11/2023						0.0081		
4/12/2023	<0.001	0.0028						
4/13/2023							0.014	0.0067
4/18/2023			<0.001	<0.001				
10/17/2023				<0.001		0.0081		
10/18/2023	<0.001	0.0022						
10/24/2023								0.0066
Mean	0.001	0.002839	0.0009413	0.008338	0.002804	0.009488	0.02126	0.007966
Std. Dev.	0	0.000457	0.0001662	0.02075	0.002951	0.001953	0.01991	0.002281
Upper Lim.	0.001	0.003323	0.001	0.0597	0.005315	0.01156	0.04065	0.01038
Lower Lim.	0.001	0.002354	0.00053	0.001	0.0005603	0.007417	0.003989	0.005548

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-20	MW-21	MW-22
6/22/2020		<0.001	0.0037					
6/23/2020				0.0426	0.0015	0.0381		0.0046
6/24/2020							0.0051	
9/21/2020		<0.001				0.0446		0.0051
9/22/2020			0.0071	0.0241	<0.001		0.0071	
4/19/2021				0.0448	0.0067			
4/20/2021		<0.001	0.0025			0.0289		0.0044
4/21/2021							0.0145	
9/28/2021				0.0634				
9/29/2021	0.001				<0.001			
9/30/2021								0.006
10/4/2021		<0.001	0.0031			0.0294	0.0083	
4/26/2022	<0.001	<0.001	0.0018		0.0031			
5/2/2022								0.0057
5/3/2022				0.0472			0.0134	
5/4/2022						0.0282		
10/11/2022						0.0244		
10/12/2022	0.0017	<0.001	0.0039	0.0214	<0.001			
10/13/2022							0.0055	0.004
4/11/2023						0.0259	0.0055	
4/12/2023		<0.001	0.0014	0.0569	0.0109			0.0024
4/13/2023	0.001							
10/17/2023		<0.001	0.0031					
10/18/2023	0.0016							
10/19/2023					<0.001			
10/24/2023						0.0242	0.0041	0.0036
10/26/2023				0.0177				
Mean	0.00126	0.001	0.003325	0.03976	0.003275	0.03046	0.007938	0.004475
Std. Dev.	0.0003578	0	0.001754	0.01695	0.00366	0.007208	0.003935	0.001167
Upper Lim.	0.0017	0.001	0.005184	0.05773	0.0109	0.03771	0.0119	0.005712
Lower Lim.	0.001	0.001	0.001466	0.0218	0.001	0.02344	0.004189	0.003238

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
5/24/2017							0.0082	
4/18/2018							0.013	
4/9/2019							0.022	
9/24/2019						<0.005		
3/23/2020							0.0242	0.00384
3/26/2020						0.00612		
6/23/2020					<0.001			
6/24/2020	0.244	0.0017	0.0023	<0.001				
9/22/2020		0.0027			<0.001			0.0019
9/23/2020			<0.01			0.0017		
9/24/2020	0.189			<0.001				
4/19/2021							0.0205	0.0036
4/21/2021		0.0013				<0.005		
4/22/2021	0.324		0.0217	<0.001	<0.001			
9/28/2021		0.0013				0.0034	0.0779	0.0044
9/29/2021					<0.001			
10/1/2021	0.254							
10/5/2021			0.0071	0.0012				
4/26/2022							0.0508	0.0036
5/3/2022		0.0023			<0.001	<0.005		
5/4/2022	0.241		0.0122	0.0014				
10/11/2022					<0.001	0.0012		
10/12/2022								0.002
10/13/2022			<0.01					
10/18/2022	0.117	<0.01		<0.001				
4/10/2023					<0.001	0.0212		
4/13/2023		0.0033	0.0146					
4/18/2023	0.186			0.0011			0.0197	0.0037
10/23/2023					<0.001			
10/24/2023								0.0023
10/25/2023	0.13							
10/26/2023		0.002	<0.01	<0.001				
Mean	0.2106	0.00245	0.01099	0.001088	0.001	0.006077	0.02954	0.003168
Std. Dev.	0.06878	0.001238	0.005642	0.0001458	0	0.00635	0.02325	0.0009525
Upper Lim.	0.2835	0.003762	0.01575	0.0014	0.001	0.009011	0.05148	0.004177
Lower Lim.	0.1377	0.001138	0.002253	0.001	0.001	0.0008525	0.009453	0.002158

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9
3/26/2020	0.00156	<0.001	0.00815	0.00114
9/23/2020	0.0205	<0.001	0.0396	0.0016
4/20/2021		<0.001		
4/21/2021	<0.001		0.0157	<0.01
9/29/2021		<0.001		
9/30/2021	<0.001		0.0097	0.0015
4/25/2022				<0.01
4/27/2022	<0.001		0.0196	
5/3/2022		<0.001		
10/11/2022				<0.01
10/17/2022	0.0217	0.001	0.0316	
4/11/2023				0.0011
4/12/2023	<0.001	<0.001	0.0125	
10/17/2023	0.0204			
10/18/2023		<0.001		
10/19/2023				0.0035
10/23/2023			0.036	
Mean	0.00852	0.001	0.02161	0.004855
Std. Dev.	0.01023	1.7E-11	0.0124	0.004326
Upper Lim.	0.0217	0.001	0.03474	0.01
Lower Lim.	0.001	0.001	0.008468	0.0011

Confidence Interval

Constituent: Barium, Total (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
5/23/2017							0.12	
5/25/2017			0.033					
4/17/2018							0.23	
4/19/2018			0.037					
4/9/2019			0.027		0.068			
4/10/2019							0.19	
9/23/2019					0.075			
3/23/2020								0.0702
3/24/2020			0.0322	0.0366			0.169	
3/25/2020	0.0289	0.0347			0.0975			
6/23/2020						0.187		
9/21/2020						0.191		
9/23/2020	0.032							
9/24/2020		0.031		0.033				0.064
4/19/2021					0.092	0.183		
4/20/2021	0.026	0.025						
4/21/2021			0.035	0.037				
4/22/2021							0.238	0.055
9/28/2021					0.111	0.169		
9/29/2021							0.292	0.085
9/30/2021	0.024							
10/1/2021		0.028	0.026	0.027				
4/25/2022			0.029	0.274				
4/26/2022							0.282	
4/27/2022	0.023	0.027				0.182		
5/2/2022					0.095			
5/4/2022								0.075
10/12/2022								0.061
10/13/2022	0.03			0.036				
10/17/2022		0.038				0.165		
10/18/2022					0.085			
4/10/2023					0.096			
4/11/2023						0.151		
4/12/2023	0.03	0.036						
4/13/2023							0.111	0.055
4/18/2023			0.035	0.028				
10/17/2023				0.03		0.172		
10/18/2023	0.035	0.045						
10/24/2023								0.076
Mean	0.02861	0.03309	0.03178	0.0627	0.08994	0.175	0.204	0.06765
Std. Dev.	0.004067	0.006653	0.004029	0.08547	0.01361	0.01328	0.06844	0.01075
Upper Lim.	0.03292	0.04014	0.03605	0.274	0.1044	0.1891	0.2765	0.07904
Lower Lim.	0.0243	0.02604	0.0275	0.027	0.07551	0.1609	0.1315	0.05626

Confidence Interval

Constituent: Barium, Total (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21
6/22/2020		0.057	0.147					
6/23/2020				0.096	0.191	0.064	0.166	
6/24/2020								0.105
9/21/2020		0.062					0.139	
9/22/2020			0.232	0.152	0.128	0.059		0.111
4/19/2021				0.057	0.273			
4/20/2021		0.066	0.136			0.05	0.133	
4/21/2021								0.13
9/28/2021				0.061		0.063		
9/29/2021	0.172				0.115			
10/4/2021		0.059	0.158				0.12	0.08
4/26/2022	0.089	0.061	0.13		0.228	0.066		
5/3/2022				0.058				0.109
5/4/2022							0.13	
10/11/2022							0.085	
10/12/2022	0.179	0.048	0.156	0.158	0.14			
10/13/2022								0.11
10/18/2022						0.072		
4/11/2023							0.122	0.09
4/12/2023		0.048	0.092	0.054	0.186			
4/13/2023	0.069					0.052		
10/17/2023		0.045	0.175			0.074		
10/18/2023	0.152							
10/19/2023					0.141			
10/24/2023							0.102	0.095
10/26/2023				0.075				
Mean	0.1322	0.05575	0.1533	0.08888	0.1753	0.0625	0.1246	0.1038
Std. Dev.	0.05007	0.007741	0.04024	0.04304	0.05475	0.008586	0.02428	0.0153
Upper Lim.	0.2161	0.06396	0.1959	0.158	0.2333	0.0716	0.1504	0.12
Lower Lim.	0.0483	0.04754	0.1106	0.054	0.1172	0.0534	0.09889	0.08753

Confidence Interval

Constituent: Barium, Total (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5
5/24/2017								0.22
4/18/2018								0.26
4/9/2019								0.36
9/24/2019							0.0444	
3/23/2020								0.216
3/26/2020							0.0351	
6/23/2020	0.132					0.125		
6/24/2020		0.066	0.061	0.049	0.095			
9/21/2020	0.136							
9/22/2020			0.071			0.131		
9/23/2020				0.043			0.039	
9/24/2020		0.055			0.086			
4/19/2021								0.215
4/20/2021	0.156							
4/21/2021			0.124				0.025	
4/22/2021		0.071		0.056	0.132	0.091		
9/28/2021			0.056				0.036	0.444
9/29/2021						0.112		
9/30/2021	0.143							
10/1/2021		0.057						
10/5/2021				0.046	0.149			
4/26/2022								0.309
5/2/2022	0.15							
5/3/2022			0.14			0.097	0.034	
5/4/2022		0.071		0.044	0.131			
10/11/2022						0.115	0.027	
10/13/2022	0.139			0.054				
10/18/2022		0.041	0.162		0.116			
4/10/2023						0.092	0.05	
4/12/2023	0.139							
4/13/2023			0.121	0.036				
4/18/2023		0.042			0.096			0.172
10/23/2023						0.089		
10/24/2023	0.137							
10/25/2023		0.034						
10/26/2023			0.128	0.049	0.115			
Mean	0.1415	0.05463	0.1079	0.04713	0.115	0.1065	0.03631	0.2745
Std. Dev.	0.00791	0.01435	0.03973	0.006379	0.02173	0.01644	0.008294	0.09093
Upper Lim.	0.1499	0.06984	0.15	0.05389	0.138	0.1239	0.0451	0.3709
Lower Lim.	0.1331	0.03941	0.06577	0.04036	0.09197	0.08907	0.02752	0.1781

Confidence Interval

Constituent: Barium, Total (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-5A	MW-6	MW-7	MW-8	MW-9
3/23/2020	0.101				
3/26/2020		0.0536	0.0917	0.0703	0.0712
9/22/2020	0.089				
9/23/2020		0.092	0.093	0.093	0.081
4/19/2021	0.096				
4/20/2021			0.093		
4/21/2021		0.048		0.095	0.081
9/28/2021	0.099				
9/29/2021			0.08		
9/30/2021		0.054		0.089	0.063
4/25/2022					0.066
4/26/2022	0.096				
4/27/2022		0.041		0.125	
5/3/2022			0.087		
10/11/2022					0.055
10/12/2022	0.085				
10/17/2022		0.099	0.074	0.109	
4/11/2023					0.049
4/12/2023		0.045	0.084	0.072	
4/18/2023	0.078				
10/17/2023		0.092			
10/18/2023			0.085		
10/19/2023					0.136
10/23/2023				0.098	
10/24/2023	0.09				
Mean	0.09175	0.06558	0.08596	0.09391	0.07528
Std. Dev.	0.007741	0.02428	0.006724	0.01803	0.02701
Upper Lim.	0.09996	0.099	0.09309	0.113	0.1018
Lower Lim.	0.08354	0.041	0.07884	0.07481	0.04977

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-14	MW-3	MW-4
5/23/2017		<0.001		
4/17/2018		<0.001		
4/10/2019		<0.001		
9/24/2019				0.00555
3/24/2020		<0.001		
3/25/2020	0.00107			
3/26/2020				0.00528
6/23/2020			<0.001	
9/22/2020			<0.001	
9/23/2020	<0.001			0.0053
4/20/2021	0.0015			
4/21/2021				0.0044
4/22/2021		<0.001	<0.001	
9/28/2021				0.0044
9/29/2021		<0.001	<0.001	
9/30/2021	<0.001			
4/26/2022		<0.001		
4/27/2022	<0.001			
5/3/2022			<0.001	0.0046
10/11/2022			<0.001	0.0054
10/13/2022	<0.001			
4/10/2023			<0.001	0.0033
4/12/2023	<0.001			
4/13/2023		<0.001		
10/18/2023	<0.001			
10/23/2023			<0.001	
Mean	0.001071	0.001	0.001	0.004779
Std. Dev.	0.000175	0	0	0.0007568
Upper Lim.	0.0015	0.001	0.001	0.005581
Lower Lim.	0.001	0.001	0.001	0.003977

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-12	MW-12A	MW-14	MW-14A	MW-19	MW-4	MW-5
5/23/2017				0.0012 (J)				
5/24/2017								0.00063 (J)
5/25/2017		<0.001						
4/17/2018				<0.001				
4/18/2018								<0.001
4/19/2018		0.0011 (J)						
4/9/2019		0.00037 (J)						<0.001
4/10/2019				<0.001				
9/24/2019							<0.001	
3/23/2020					<0.001			<0.001
3/24/2020		<0.001	<0.001	<0.001				
3/25/2020	0.00149							
3/26/2020							<0.001	
6/23/2020						<0.001		
9/22/2020						<0.001		
9/23/2020	<0.001						<0.001	
9/24/2020			<0.001		<0.001			
4/19/2021								<0.001
4/20/2021	0.0018					<0.001		
4/21/2021		<0.001	<0.001				<0.001	
4/22/2021				<0.001	<0.001			
9/28/2021						<0.001	<0.001	<0.001
9/29/2021				<0.001	<0.001			
9/30/2021	<0.001							
10/1/2021		<0.001	<0.001					
4/25/2022		<0.001	<0.001					
4/26/2022				<0.001		<0.001		<0.001
4/27/2022	0.0015							
5/3/2022							<0.001	
5/4/2022					<0.001			
10/11/2022							<0.001	
10/12/2022					<0.001			
10/13/2022	<0.001		<0.001					
10/18/2022						<0.001		
4/10/2023							<0.001	
4/12/2023	<0.001							
4/13/2023				<0.001	<0.001	<0.001		
4/18/2023		<0.001	<0.001					<0.001
10/17/2023			<0.001			<0.001		
10/18/2023	<0.001							
10/24/2023					<0.001			
Mean	0.001224	0.0009338	0.001	0.001025	0.001	0.001	0.001	0.0009538
Std. Dev.	0.0003228	0.0002305	0	7.071E-05	0	0	0	0.0001308
Upper Lim.	0.0018	0.0011	0.001	0.0012	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.00037	0.001	0.001	0.001	0.001	0.001	0.00063

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6
3/26/2020	<0.001
9/23/2020	<0.001
4/21/2021	<0.001
9/30/2021	<0.001
4/27/2022	<0.001
10/17/2022	<0.001
4/12/2023	<0.001
10/17/2023	<0.001
Mean	0.001
Std. Dev.	0
Upper Lim.	0.001
Lower Lim.	0.001

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-15	MW-16
5/25/2017			0.0023 (J)					
4/19/2018			<0.001					
4/9/2019			<0.001		<0.001			
9/23/2019					<0.001			
3/24/2020			<0.001	<0.001				
3/25/2020	<0.001	<0.001			0.00116			
6/22/2020							<0.001	<0.001
6/23/2020						<0.001		
9/21/2020						<0.001	0.002	
9/22/2020								<0.001
9/23/2020	0.004							
9/24/2020		0.002		0.002				
4/19/2021					<0.001	<0.001		
4/20/2021	<0.001	<0.001					0.001	<0.001
4/21/2021			0.001	<0.001				
9/28/2021					<0.001	<0.001		
9/30/2021	<0.001							
10/1/2021		<0.001	0.001	0.001				
10/4/2021							<0.001	<0.001
4/25/2022			0.001	<0.001				
4/26/2022							<0.001	<0.001
4/27/2022	<0.001	<0.001				0.001		
5/2/2022					<0.001			
10/12/2022							<0.001	<0.001
10/13/2022	<0.001			0.001				
10/17/2022		<0.001				<0.001		
10/18/2022					<0.001			
4/10/2023					<0.001			
4/11/2023						<0.001		
4/12/2023	<0.001	<0.001					<0.001	<0.001
4/18/2023			0.001	<0.001				
10/17/2023				0.001		<0.001	<0.001	<0.001
10/18/2023	<0.001	<0.001						
Mean	0.001375	0.001125	0.001163	0.001125	0.00102	0.001	0.001125	0.001
Std. Dev.	0.001061	0.0003536	0.0004596	0.0003536	5.657E-05	1.7E-11	0.0003536	0
Upper Lim.	0.004	0.002	0.0023	0.002	0.00116	0.001	0.002	0.001
Lower Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-18	MW-19	MW-20	MW-21	MW-24	MW-25	MW-26	MW-3
6/23/2020	0.001	0.001	0.001					<0.001
6/24/2020				<0.001	0.002	0.001	0.001	
9/21/2020			<0.001					
9/22/2020	<0.001	<0.001		<0.001	<0.001			<0.001
9/23/2020						<0.01		
9/24/2020							<0.001	
4/19/2021	<0.001							
4/20/2021		<0.001	<0.001					
4/21/2021				<0.001	<0.001			
4/22/2021						<0.01	0.001	<0.001
9/28/2021		<0.001			<0.001			
9/29/2021	<0.001							<0.001
10/4/2021			<0.001	0.001				
10/5/2021						<0.01	0.001	
4/26/2022	<0.001	<0.001						
5/3/2022				<0.001	<0.001			<0.001
5/4/2022			<0.001			<0.01	0.001	
10/11/2022			<0.001					<0.001
10/12/2022	<0.001							
10/13/2022				0.001		<0.01		
10/18/2022		<0.001			<0.001		<0.001	
4/10/2023								<0.001
4/11/2023			<0.001	<0.001				
4/12/2023	<0.001							
4/13/2023		<0.001			<0.001	<0.01		
4/18/2023							0.001	
10/17/2023		<0.001						
10/19/2023	<0.001							
10/23/2023								<0.001
10/24/2023			<0.001	<0.001				
10/26/2023					<0.001	<0.01	<0.001	
Mean	0.001	0.001	0.001	0.001	0.001125	0.008875	0.001	0.001
Std. Dev.	1.7E-11	1.7E-11	1.7E-11	2.2E-11	0.0003536	0.003182	2.5E-11	0
Upper Lim.	0.001	0.001	0.001	0.001	0.002	0.01	0.001	0.001
Lower Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A	MW-15
5/23/2017						0.14		
5/25/2017		<0.001						
4/17/2018						0.055		
4/19/2018		0.00062 (J)						
4/9/2019		<0.001		<0.001				
4/10/2019						0.043		
9/23/2019				<0.001				
3/23/2020							0.057	
3/24/2020		<0.001	0.00451			0.0522		
3/25/2020	0.00673			<0.001				
6/22/2020								0.004
6/23/2020					0.012			
9/21/2020					0.01			<0.001
9/23/2020	0.004							
9/24/2020			<0.001				0.083	
4/19/2021				<0.001	0.01			
4/20/2021	0.006							<0.001
4/21/2021		<0.001	0.001					
4/22/2021						0.025	0.036	
9/28/2021				<0.001	0.011			
9/29/2021						0.014	0.039	
9/30/2021	0.003							
10/1/2021		<0.001	<0.001					
10/4/2021								0.001
4/25/2022		<0.001	0.013					
4/26/2022						0.014		<0.001
4/27/2022	0.006				0.011			
5/2/2022				<0.001				
5/4/2022							0.048	
10/12/2022							0.042	0.001
10/13/2022	0.003		0.001					
10/17/2022					0.012			
10/18/2022				<0.001				
4/10/2023				0.002				
4/11/2023					0.011			
4/12/2023	0.004							<0.001
4/13/2023						0.059	0.035	
4/18/2023		<0.001	<0.001					
10/17/2023			<0.001		0.012			<0.001
10/18/2023	0.002							
10/24/2023							0.047	
Mean	0.004341	0.0009525	0.002939	0.001125	0.01113	0.05028	0.04838	0.001375
Std. Dev.	0.001712	0.0001344	0.004247	0.0003536	0.0008345	0.04049	0.01575	0.001061
Upper Lim.	0.006156	0.001	0.013	0.002	0.012	0.08909	0.06395	0.004
Lower Lim.	0.002526	0.00062	0.001	0.001	0.01	0.0149	0.03335	0.001

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22	MW-23
6/22/2020	0.015							
6/23/2020		0.016	<0.001	0.005	0.006		0.003	
6/24/2020						0.005		0.011
9/21/2020					<0.001		0.002	
9/22/2020	0.022	0.021	<0.001	0.006		<0.001		
9/24/2020								0.009
4/19/2021		0.016	0.002					
4/20/2021	0.012			0.001	<0.001		0.003	
4/21/2021						0.003		
4/22/2021								0.014
9/28/2021		0.015		0.001				
9/29/2021			<0.001					
9/30/2021							0.003	
10/1/2021								0.011
10/4/2021	0.016				0.006	0.005		
4/26/2022	0.011		0.001	0.001				
5/2/2022							0.002	
5/3/2022		0.017				0.004		
5/4/2022					0.005			0.016
10/11/2022					<0.001			
10/12/2022	0.016	0.03	<0.001					
10/13/2022						<0.001	0.001	
10/18/2022				<0.005				<0.01
4/11/2023					0.003	0.001		
4/12/2023	0.006	0.016	<0.001				<0.001	
4/13/2023				0.001				
4/18/2023								<0.01
10/17/2023	0.015			0.004				
10/19/2023			<0.001					
10/24/2023					<0.001	<0.001	<0.001	
10/25/2023								<0.01
10/26/2023		0.025						
Mean	0.01413	0.0195	0.001125	0.002687	0.003	0.002625	0.001875	0.01137
Std. Dev.	0.004643	0.005425	0.0003536	0.002052	0.00233	0.001847	0.001094	0.002387
Upper Lim.	0.01905	0.03	0.002	0.006	0.006	0.005	0.003	0.01321
Lower Lim.	0.009204	0.015	0.001	0.001	0.001	0.001	0.0005	0.008315

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-24	MW-25	MW-3	MW-4	MW-5	MW-5A	MW-6	MW-7
5/24/2017					0.031			
4/18/2018					0.03			
4/9/2019					0.016			
9/24/2019				0.856				
3/23/2020					0.0154	0.0133		
3/26/2020				0.819			0.00254	<0.001
6/23/2020			0.028					
6/24/2020	<0.05	0.021						
9/22/2020	0.003		0.03			0.013		
9/23/2020		0.018		0.868			0.011	0.001
4/19/2021					0.017	0.012		
4/20/2021								<0.001
4/21/2021	0.005			0.892			<0.01	
4/22/2021		<0.001	0.019					
9/28/2021	<0.05			0.816	0.018	0.013		
9/29/2021			0.026					0.001
9/30/2021							0.002	
10/5/2021		0.003						
4/26/2022					0.023	0.015		
4/27/2022							<0.01	
5/3/2022	0.002		0.021	0.87				0.001
5/4/2022		0.001						
10/11/2022			0.03	0.982				
10/12/2022						0.014		
10/13/2022		0.011						
10/17/2022							0.014	<0.001
10/18/2022	<0.05							
4/10/2023			0.021	0.58				
4/12/2023							0.001	<0.001
4/13/2023	0.004	0.001						
4/18/2023					0.013	0.014		
10/17/2023							0.012	
10/18/2023								0.001
10/23/2023			0.022					
10/24/2023						0.021		
10/26/2023	0.001	0.011						
Mean	0.02063	0.008313	0.02463	0.8354	0.02043	0.01441	0.006567	0.001
Std. Dev.	0.02435	0.008154	0.004406	0.1154	0.006842	0.002806	0.005034	2.5E-11
Upper Lim.	0.05	0.01696	0.02929	0.9472	0.02768	0.021	0.01125	0.001
Lower Lim.	0.001	0	0.01996	0.7223	0.01317	0.012	0.0003113	0.001

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-8
3/26/2020	0.00223
9/23/2020	<0.001
4/21/2021	0.002
9/30/2021	0.002
4/27/2022	0.001
10/17/2022	<0.001
4/12/2023	<0.001
10/23/2023	<0.001
Mean	0.001404
Std. Dev.	0.0005617
Upper Lim.	0.00223
Lower Lim.	0.001

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
4/17/2018							0.931	
4/19/2018			0.263 (U)					
4/9/2019			0.228 (U)					
4/10/2019							0.757	
10/15/2019					1.53			
4/17/2020			0.0635		0.478		1.02	
10/19/2020	0.485 (U)	0.536 (U)		0.0555 (U)		1.31 (U)		0.544 (U)
5/17/2021	0.253	0.558						
5/19/2021	0.0595 (D)	0.24165 (D)	0.938	0.237			2.12	0.472
5/21/2021			0.413 (D)	0.18145 (D)	0.371	0.761	1.7575 (D)	0.236 (D)
5/24/2021					0.5815 (D)	0.6145 (D)		
10/22/2021	0.317	1.66	1.49	0.426	1.64	1.82	1.63	0.527
4/25/2022			0.604 (U)	0.258 (U)			0.559 (U)	
4/27/2022	0.526 (U)	0.313 (U)				0.701 (U)		
5/2/2022					1.15			
5/4/2022								0.577 (U)
11/10/2022		0.889 (U)				0.91 (U)		
11/11/2022	0.474 (U)			1.4 (U)	0.381 (U)			0.898 (U)
5/4/2023	0.983 (U)	1.86			1.24	1.23 (U)	0.331 (U)	1.32
5/11/2023			0.405 (U)	1.42 (U)				
11/10/2023	3.31	1.23 (U)		0.29 (U)		1.8 (U)		
11/21/2023								2.45
Mean	0.8009	0.911	0.5506	0.5335	0.9214	1.143	1.138	0.878
Std. Dev.	1.048	0.6135	0.4628	0.5508	0.5275	0.4781	0.63	0.7141
Upper Lim.	1.563	1.561	1.041	1.031	1.481	1.65	1.806	1.538
Lower Lim.	0.1106	0.2607	0.05997	0.09402	0.3623	0.6365	0.4704	0.275

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21
10/19/2020		1.28 (U)	2.2	1.01 (U)	0.228 (U)	0.523 (U)	1.03 (U)	
5/19/2021								-0.123
5/20/2021								0.446
5/21/2021		0.784	0.303	-0.113	0.274	0.131	0.332	0.446
5/24/2021		0.916 (D)	0.3915 (D)	0.139 (D)	0.336 (D)	0.034 (D)	0.466 (D)	
10/27/2021	0.996			0.668	0.85	0.849		
10/28/2021		0.401	0.585				0.89	0.414
4/26/2022	0.841 (U)	0.445 (U)	0.923 (U)		0.676 (U)	0.323 (U)		
5/3/2022				0.678 (U)			0.85 (U)	0.696 (U)
11/10/2022						0.0626 (U)		
11/11/2022	1.84	0.673 (U)	1.1 (U)	0.979 (U)	0.283 (U)		1.5 (U)	0.721 (U)
5/3/2023							0.209 (U)	0.775 (U)
5/4/2023	1.33 (U)	0.691 (U)	0.986 (U)	0.0709 (U)	0.809 (U)	0.597 (U)		
11/10/2023	2.63 (U)	0.828 (U)	1.02 (U)		0.708 (U)	0.209 (U)		
11/21/2023				1.69 (U)			1.24 (U)	0.793 (U)
Mean	1.527	0.7523	0.9386	0.6402	0.5205	0.3411	0.8146	0.521
Std. Dev.	0.7256	0.2777	0.5922	0.5974	0.264	0.2904	0.4512	0.3039
Upper Lim.	2.743	1.047	1.566	1.273	0.85	0.6489	1.293	0.7735
Lower Lim.	0.3115	0.4579	0.3109	0.007001	0.228	0.03327	0.3364	0.3259

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5
4/18/2018								0.652
4/9/2019								1.02
4/16/2020								0.756
4/17/2020							0.901	
10/19/2020	1.13 (U)		0.831 (U)			1.17 (U)	0.784 (U)	
5/17/2021	0.265							
5/19/2021	0.2036 (D)	0.539	1.57	1.83	0.976	0.881	0.652	
5/20/2021		0.24		0	0.145			
5/21/2021		0.779	0.957 (D)	1.83	1.12	0.5063 (D)	0.447 (D)	1.17
5/24/2021								0.585 (D)
10/22/2021	1.01	1.64				0.414	1.03	1.46
10/27/2021			0.886					
10/28/2021				0.782	0.743			
4/26/2022								1.13 (U)
5/3/2022	0.463 (U)	1.12	1.28 (U)	0.608 (U)	0.406 (U)	1.03	1.04	
11/10/2022			1.34 (U)		0.716 (U)			
11/11/2022	1.03 (U)	0.803 (U)		0.6 (U)		0.325 (U)	1.35 (U)	
5/3/2023	1.01 (U)		0.763 (U)	1.51 (U)				
5/4/2023						0.678 (U)	1.54 (U)	
5/11/2023		1.27 (U)			0.843			1.48
11/21/2023	0.229 (U)	0.946 (U)	1.19 (U)	1.21 (U)	0.418 (U)	0.229 (U)		
Mean	0.6676	0.9171	1.102	1.046	0.6709	0.6542	0.968	1.032
Std. Dev.	0.4125	0.4347	0.2856	0.6575	0.3256	0.3439	0.3569	0.345
Upper Lim.	1.13	1.378	1.405	1.743	1.016	1.019	1.346	1.397
Lower Lim.	0.2036	0.4564	0.7994	0.3493	0.3257	0.2896	0.5897	0.666

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-5A	MW-6	MW-7	MW-8	MW-9
10/19/2020	0.23 (U)	0.351 (U)	0.466 (U)	0.0686 (U)	
5/17/2021			0.568		
5/19/2021		0.295	0.447 (D)	1.08	0.689
5/20/2021					0.559
5/21/2021	1.31	0.3155 (D)		0.6505 (D)	1.25
5/24/2021	0.62395 (D)				
10/22/2021	11.3	0.584	10.9	0.92	2.3
4/26/2022	0.441 (U)				
4/27/2022		0.441 (U)		0.528 (U)	1.34 (U)
5/3/2022			1.14		
11/10/2022		0.671 (U)	0.701 (U)		
11/11/2022	0.844 (U)				1.38 (U)
11/15/2022				0.338 (U)	
5/4/2023		0.707 (U)	1.31 (U)	0.31 (U)	1.36 (U)
5/11/2023	1.3				
11/10/2023		0.966 (U)	0.533 (U)		3.45
11/21/2023	1.01 (U)			0.807 (U)	
Mean	2.132	0.5413	2.008	0.5878	1.541
Std. Dev.	3.724	0.2343	3.607	0.3417	0.9331
Upper Lim.	3.365	0.7897	10.9	0.9499	2.53
Lower Lim.	0.3	0.2929	0.447	0.2256	0.552

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-11	MW-12	MW-12A	MW-13	MW-13A	MW-14	MW-14A
5/23/2017							0.06 (J)	
5/25/2017			0.05 (J)					
4/17/2018							0.15	
4/19/2018			0.04 (J)					
4/9/2019			0.05 (J)		0.1			
4/10/2019							0.19	
9/23/2019					0.132			
3/23/2020								<0.125
3/24/2020			<0.125	<0.125			0.194	
3/25/2020	0.236	1.72			0.152			
6/23/2020						<0.125		
9/21/2020						<0.125		
9/23/2020	<0.125							
9/24/2020		1.94		<0.125				<0.125
4/19/2021					<0.125	<0.125		
4/20/2021	<0.125	1.9						
4/21/2021			<0.125	<0.125				
4/22/2021							<0.125	<0.125
9/28/2021					0.203	<0.125		
9/29/2021							0.178	0.136
9/30/2021	<0.125							
10/1/2021		2.24	<0.125	<0.125				
4/25/2022			<0.125	<0.125				
4/26/2022							0.186	
4/27/2022	0.282	2.01				<0.125		
5/2/2022					<0.125			
5/4/2022								<0.125
10/12/2022								<0.125
10/13/2022	<0.125			<0.125				
10/17/2022		2.03				<0.125		
10/18/2022					<0.125			
4/10/2023					0.13			
4/11/2023						<0.125		
4/12/2023	<0.125	1.74						
4/13/2023							<0.125	<0.125
4/18/2023			<0.125	<0.125				
10/17/2023				<0.125		<0.125		
10/18/2023	<0.125	1.93						
10/24/2023								0.137
Mean	0.1585	1.939	0.09563	0.125	0.1365	0.125	0.151	0.1279
Std. Dev.	0.06324	0.1661	0.04066	0	0.03036	0	0.04623	0.00533
Upper Lim.	0.282	2.115	0.125	0.125	0.1607	0.125	0.1975	0.137
Lower Lim.	0.125	1.763	0.04	0.125	0.09404	0.125	0.07198	0.125

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22
6/22/2020	<0.125	<0.125						
6/23/2020			1.32	<0.125	<0.125	<0.125		<0.125
6/24/2020							<1.25	
9/21/2020	<0.125					0.147		<0.125
9/22/2020		<0.125	0.322	<0.125	<0.125		0.127	
4/19/2021			1.37	0.138				
4/20/2021	<0.125	<0.125			<0.125	0.164		<0.125
4/21/2021							0.163	
9/28/2021			1.96		<0.125			
9/29/2021				0.143				
9/30/2021								<0.125
10/4/2021	<0.125	<0.125				<0.125	<1.25	
4/26/2022	<0.125	<0.125		0.146	<0.125			
5/2/2022								<0.125
5/3/2022			1.69				<1.25	
5/4/2022						<0.125		
10/11/2022						0.182		
10/12/2022	<0.125	<0.125	0.472	<0.125				
10/13/2022							<1.25	<0.125
10/18/2022					<0.125			
4/11/2023						<0.125	<1.25	
4/12/2023	<0.125	<0.125	1.43	<0.125				<0.125
4/13/2023					<0.125			
10/17/2023	<0.125	<0.125			<0.125			
10/19/2023				<0.125				
10/24/2023						0.163	0.129	<0.125
10/26/2023			0.94					
Mean	0.125	0.125	1.188	0.1315	0.125	0.1445	0.8336	0.125
Std. Dev.	0	0	0.5709	0.009227	0	0.02285	0.5748	0
Upper Lim.	0.125	0.125	1.793	0.146	0.125	0.182	1.25	0.125
Lower Lim.	0.125	0.125	0.5829	0.125	0.125	0.125	0.127	0.125

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-23	MW-24	MW-25	MW-26	MW-3	MW-4	MW-5	MW-5A
5/24/2017							0.08 (J)	
4/18/2018							0.11	
4/9/2019							0.18	
9/24/2019						1.03		
3/23/2020							0.336	1.27
3/26/2020						0.288		
6/23/2020					<0.125			
6/24/2020	1.12	0.345	0.576	0.144				
9/22/2020		0.969			<0.125			1.33
9/23/2020			0.72			0.43		
9/24/2020	1.76			0.17				
4/19/2021							<1.25	1.13
4/21/2021		0.713				0.549		
4/22/2021	1.69		1.05	0.173	<0.125			
9/28/2021		1.31				0.665	0.193	1.86
9/29/2021					<0.125			
10/1/2021	2.29							
10/5/2021			0.759	<0.125				
4/26/2022							<1.25	1.45
5/3/2022		0.884			<0.125	0.43		
5/4/2022	2.21		0.337	<0.125				
10/11/2022					<0.125	0.738		
10/12/2022								1.57
10/13/2022			0.563					
10/18/2022	2.48	0.321		0.142				
4/10/2023					<0.125	0.4		
4/13/2023		1.11	0.719					
4/18/2023	2.02			0.144			<1.25	1.27
10/23/2023					0.157			
10/24/2023								1.3
10/25/2023	0.367							
10/26/2023		1.55	0.365	0.161				
Mean	1.742	0.9003	0.6361	0.148	0.129	0.5663	0.5811	1.398
Std. Dev.	0.6992	0.4339	0.2306	0.01853	0.01131	0.2381	0.5589	0.2282
Upper Lim.	2.483	1.36	0.8805	0.1659	0.157	0.8186	0.269	1.639
Lower Lim.	1.001	0.4403	0.3917	0.1268	0.125	0.3139	0.09439	1.156

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9
3/26/2020	<1.25	1.37	0.38	<1.25
9/23/2020	0.237	1.92	0.233	<1.25
4/20/2021		1.06		
4/21/2021	<1.25		0.229	0.158
9/29/2021		2.23		
9/30/2021	<1.25		0.267	<1.25
4/25/2022				<1.25
4/27/2022	<1.25		0.291	
5/3/2022		2.11		
10/11/2022				0.139
10/17/2022	<1.25	2.58	<0.5	
4/11/2023				0.14
4/12/2023	<1.25	1.98	0.225	
10/17/2023	<1.25			
10/18/2023		2.46		
10/19/2023				<1.25
10/23/2023			0.206	
Mean	1.123	1.964	0.2601	0.8359
Std. Dev.	0.3581	0.5196	0.05522	0.5716
Upper Lim.	1.25	2.514	0.3161	1.25
Lower Lim.	0.237	1.413	0.2055	0.139

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-13	MW-3	MW-4
4/9/2019		<0.001		
9/23/2019		<0.001		
9/24/2019				<0.005
3/25/2020	<0.001	<0.001		
3/26/2020				0.00178
6/23/2020			<0.001	
9/22/2020			<0.001	
9/23/2020	0.0015			0.0018
4/19/2021		<0.001		
4/20/2021	<0.001			
4/21/2021				0.0019
4/22/2021			<0.001	
9/28/2021		<0.001		<0.005
9/29/2021			<0.001	
9/30/2021	<0.001			
4/27/2022	<0.001			
5/2/2022		<0.001		
5/3/2022			<0.001	0.0016
10/11/2022			<0.001	0.0011
10/13/2022	<0.001			
10/18/2022		<0.001		
4/10/2023		<0.001	<0.001	0.0013
4/12/2023	<0.001			
10/18/2023	<0.001			
10/23/2023			<0.001	
Mean	0.001063	0.001	0.001	0.00181
Std. Dev.	0.0001768	0	0	0.0005028
Upper Lim.	0.0015	0.001	0.001	0.001886
Lower Lim.	0.001	0.001	0.001	0.001274

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-11	MW-12	MW-12A	MW-13A	MW-14	MW-14A	MW-14B
4/17/2018						<0.008		
4/19/2018			0.02					
4/9/2019			0.0074					
4/10/2019						0.0015 (J)		
4/18/2019			0.0074			0.0015 (J)		
10/12/2019							0.0177	
4/3/2020			0.00916	<0.008		<0.008		
4/17/2020			0.00916				0.0136	
4/20/2020	<0.025	0.0668		<0.008		<0.008		
7/7/2020					0.00643			
10/16/2020	0.0155	0.0543		0.00761	0.0066		0.0103	
5/11/2021	0.0187	0.0499			0.00673			
9/28/2021					0.0062			
9/29/2021						<0.008	0.00884	0.194
9/30/2021	0.0113							
10/1/2021		0.0521	<0.008	0.00683				
4/25/2022			0.00549	0.00621				
4/26/2022						<0.008		0.0939
4/27/2022	0.0161	0.0419			0.00624			
5/4/2022							0.00693	
11/8/2022	0.0141	0.0516		0.00618	0.00762		0.00679	0.177
4/28/2023	0.016	0.043	<0.008	<0.008	0.00949	<0.008	0.0118	0.0834
10/17/2023				0.00537	0.00791			
10/18/2023	0.0156	0.0567						0.141
10/24/2023							0.00709	
Mean	0.01498	0.05204	0.009326	0.007025	0.007153	0.006375	0.01038	0.1379
Std. Dev.	0.002307	0.007874	0.004466	0.001025	0.001134	0.003009	0.003854	0.04897
Upper Lim.	0.01742	0.06038	0.02	0.007231	0.008286	0.008	0.01447	0.2199
Lower Lim.	0.01253	0.04369	0.00549	0.005649	0.006051	0.0015	0.006297	0.0558

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-15	MW-16	MW-17	MW-18	MW-19	MW-20	MW-21	MW-22
4/3/2020						<0.004		
4/17/2020	0.00756							<0.004
4/20/2020				<0.004		<0.004	<0.004	
7/8/2020	<0.004	0.0429	0.107	<0.004	0.00835		<0.004	<0.004
10/16/2020	<0.004	0.0287	0.0469	<0.004				
10/22/2020					0.0102	<0.004	<0.004	<0.004
5/11/2021		0.0526	0.109		0.0103			
9/28/2021			0.103		0.00914			
9/29/2021				<0.004				
9/30/2021								<0.004
10/4/2021	<0.004	0.0519				<0.004	<0.004	
4/26/2022	<0.004	0.0405		<0.004	0.00874			
5/2/2022								<0.004
5/3/2022			0.0877				<0.004	
5/4/2022						<0.004		
11/8/2022	<0.004	0.0334	0.047	<0.004	0.00994	<0.004	<0.004	<0.004
4/28/2023	<0.004	0.0344	0.0992	<0.004	0.0134	<0.004	<0.004	<0.004
10/17/2023	<0.004	0.0337			0.00904			
10/19/2023				<0.004				
10/24/2023						<0.004	<0.004	<0.004
10/26/2023			0.0652					
Mean	0.004445	0.03976	0.08313	0.004	0.009889	0.004	0.004	0.004
Std. Dev.	0.001259	0.008871	0.02633	0	0.001584	0	0	0
Upper Lim.	0.00756	0.04917	0.1088	0.004	0.01149	0.004	0.004	0.004
Lower Lim.	0.004	0.03036	0.05648	0.004	0.008327	0.004	0.004	0.004

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-23	MW-24	MW-25	MW-3	MW-4	MW-5	MW-5A	MW-6
5/24/2017						0.0034 (J)		
4/18/2018						0.0045 (J)		
4/9/2019						<0.008		
4/18/2019						<0.008		
10/17/2019					0.0071			
4/3/2020					0.00597			<0.008
4/17/2020	0.135			<0.004	0.00597	<0.008	0.0671	<0.008
7/7/2020				<0.004				
7/8/2020	0.174	0.251	0.15					
10/15/2020				<0.004	0.0068		0.0488	0.00614
10/22/2020	0.169	0.143	0.185					
5/11/2021							0.0626	
9/28/2021		0.114			0.00517	<0.008	0.0663	
9/29/2021				<0.004				
9/30/2021								<0.008
10/1/2021	0.173							
10/5/2021			0.12					
4/26/2022						<0.008	0.0561	
4/27/2022								<0.008
5/3/2022		0.136		<0.004	0.0054			
5/4/2022	0.145		0.12					
11/8/2022	0.136	0.105	0.149	<0.004	0.00649		0.0569	0.00603
4/28/2023	0.165	0.0744	0.127	<0.004	<0.008	<0.008	0.053	<0.008
10/17/2023								0.00564
10/23/2023				<0.004				
10/24/2023							0.0506	
10/25/2023	0.128							
10/26/2023		0.0709	0.139					
Mean	0.1531	0.1278	0.1414	0.004	0.005863	0.006988	0.05768	0.007226
Std. Dev.	0.01906	0.06093	0.02296	0	0.0009993	0.001898	0.006982	0.001077
Upper Lim.	0.1733	0.2001	0.1687	0.004	0.006922	0.008	0.06508	0.008
Lower Lim.	0.1329	0.05538	0.1142	0.004	0.004803	0.0034	0.05027	0.00564

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-7	MW-8
4/3/2020		<0.004
4/17/2020	0.0727	
4/20/2020		<0.004
10/15/2020	0.0982	<0.004
5/11/2021	0.0681	
9/29/2021	0.0891	
9/30/2021		<0.004
4/27/2022		<0.004
5/3/2022	0.0752	
11/8/2022	0.0863	<0.004
4/28/2023	0.0784	<0.004
10/18/2023	0.0873	
10/23/2023		<0.004
Mean	0.08191	0.004
Std. Dev.	0.009988	0
Upper Lim.	0.0925	0.004
Lower Lim.	0.07133	0.004

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-11	MW-12	MW-12A	MW-14	MW-14B	MW-16	MW-17	MW-21
5/23/2017				<0.001				
5/25/2017		<0.001						
4/17/2018				<0.001				
4/19/2018		0.0016 (J)						
4/9/2019		<0.001						
4/10/2019				<0.001				
3/24/2020		<0.001	<0.001	<0.001				
3/25/2020	0.141							
6/22/2020						0.001		
6/23/2020							0.124	
6/24/2020								<0.001
9/22/2020						<0.001	0.012	<0.001
9/24/2020	0.143		<0.001					
4/19/2021							0.109	
4/20/2021	0.109					0.001		
4/21/2021		<0.001	<0.001					<0.001
4/22/2021				<0.001				
9/28/2021							0.145	
9/29/2021				0.001	0.042			
10/1/2021	0.115	<0.001	<0.001					
10/4/2021						0.001		<0.001
4/25/2022		<0.001	0.001					
4/26/2022				0.001	0.023	0.001		
4/27/2022	0.098							
5/3/2022							0.112	<0.001
10/12/2022					0.047	<0.001	0.015	
10/13/2022			<0.001					<0.001
10/17/2022	0.097							
4/11/2023								<0.001
4/12/2023	0.092					<0.001	0.089	
4/13/2023				<0.001	0.023			
4/18/2023		<0.001	<0.001					
10/17/2023			<0.001			<0.001		
10/18/2023	0.092				0.045			
10/24/2023								0.001
10/26/2023							0.044	
Mean	0.1109	0.001075	0.001	0.001	0.036	0.001	0.08125	0.001
Std. Dev.	0.02081	0.0002121	1.7E-11	2.2E-11	0.012	2.5E-11	0.05105	1.7E-11
Upper Lim.	0.143	0.0016	0.001	0.001	0.05279	0.001	0.1354	0.001
Lower Lim.	0.092	0.001	0.001	0.001	0.005996	0.001	0.02714	0.001

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-23	MW-24	MW-25	MW-26	MW-3	MW-5	MW-5A	MW-6
5/24/2017						<0.005		
4/18/2018						<0.005		
4/9/2019						<0.005		
3/23/2020						<0.005	0.109	
3/26/2020								<0.001
6/23/2020					<0.001			
6/24/2020	0.077	0.009	0.051	0.006				
9/22/2020		0.02			<0.001		0.096	
9/23/2020			0.182					0.002
9/24/2020	0.093			0.007				
4/19/2021						<0.005	0.09	
4/21/2021		0.007						<0.001
4/22/2021	0.076		0.078	0.005	0.002			
9/28/2021		0.004				<0.005	0.149	
9/29/2021					<0.001			
9/30/2021								<0.001
10/1/2021	0.102							
10/5/2021			0.047	0.006				
4/26/2022						0.001	0.09	
4/27/2022								<0.001
5/3/2022		0.011			<0.001			
5/4/2022	0.084		0.074	0.006				
10/11/2022					<0.001			
10/12/2022							0.136	
10/13/2022			0.076					
10/17/2022								0.002
10/18/2022	0.132	<0.05		0.005				
4/10/2023					<0.001			
4/12/2023								<0.001
4/13/2023		0.008	0.093					
4/18/2023	0.123			0.006		0.001	0.085	
10/17/2023								0.002
10/23/2023					<0.001			
10/24/2023							0.064	
10/25/2023	0.147							
10/26/2023		0.014	0.081	0.004				
Mean	0.1043	0.01225	0.08525	0.005625	0.001125	0.004	0.1024	0.001375
Std. Dev.	0.02681	0.007086	0.04199	0.0009161	0.0003536	0.001852	0.02795	0.0005175
Upper Lim.	0.1327	0.01976	0.1215	0.006596	0.002	0.005	0.132	0.002
Lower Lim.	0.07583	0.004739	0.0507	0.004654	0.001	0.001	0.07275	0.001

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-7	MW-8
3/26/2020	0.0108	<0.001
9/23/2020	0.016	<0.001
4/20/2021	0.007	
4/21/2021		<0.001
9/29/2021	0.021	
9/30/2021		0.001
4/27/2022		0.001
5/3/2022	0.018	
10/17/2022	0.022	<0.001
4/12/2023	0.012	<0.001
10/18/2023	0.019	
10/23/2023		<0.001
Mean	0.01573	0.001
Std. Dev.	0.005311	2.2E-11
Upper Lim.	0.02135	0.001
Lower Lim.	0.0101	0.001

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-12	MW-12A	MW-13	MW-14	MW-14A	MW-21	MW-26
5/23/2017					<0.001			
5/25/2017		<0.001						
4/17/2018					0.00085 (J)			
4/19/2018		0.00027 (J)						
4/9/2019		<0.001		0.00076 (J)				
4/10/2019					<0.001			
9/23/2019				<0.001				
3/23/2020						<0.001		
3/24/2020		<0.001	<0.001		<0.001			
3/25/2020	0.00186			0.00145				
6/24/2020							<0.001	0.008
9/22/2020							<0.001	
9/23/2020	0.003							
9/24/2020			0.002			<0.001		0.007
4/19/2021				0.003				
4/20/2021	0.003							
4/21/2021		<0.001	<0.001				<0.001	
4/22/2021					<0.001	<0.001		0.03
9/28/2021				0.002				
9/29/2021					0.001	<0.001		
9/30/2021	0.003							
10/1/2021		0.001	<0.001					
10/4/2021							<0.001	
10/5/2021								0.017
4/25/2022		0.002	0.001					
4/26/2022					0.001			
4/27/2022	0.003							
5/2/2022				0.001				
5/3/2022							<0.001	
5/4/2022						<0.001		0.02
10/12/2022						<0.001		
10/13/2022	0.001		0.002				<0.001	
10/18/2022				<0.001				0.004
4/10/2023				<0.001				
4/11/2023							<0.001	
4/12/2023	0.001							
4/13/2023					<0.001	<0.001		
4/18/2023		0.008	0.001					0.014
10/17/2023			0.005					
10/18/2023	0.001							
10/24/2023						<0.001	<0.001	
10/26/2023								0.004
Mean	0.002108	0.001909	0.00175	0.001401	0.0009813	0.001	0.001	0.013
Std. Dev.	0.0009948	0.002505	0.001389	0.0007533	5.303E-05	0	0	0.009087
Upper Lim.	0.003	0.008	0.005	0.001937	0.001	0.001	0.001	0.02263
Lower Lim.	0.001	0.00027	0.001	0.0006738	0.00085	0.001	0.001	0.003368

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9
5/24/2017		0.0021				
4/18/2018		0.0027				
4/9/2019		0.0033				
9/24/2019	<0.005					
3/23/2020		0.00188				
3/26/2020	<0.005		<0.001	<0.001	<0.001	<0.001
9/23/2020	0.003		<0.001	<0.001	<0.001	<0.001
4/19/2021		0.002				
4/20/2021				0.002		
4/21/2021	<0.005		<0.001		<0.001	<0.001
9/28/2021	<0.005	0.003				
9/29/2021				<0.001		
9/30/2021			<0.001		<0.001	<0.001
4/25/2022						<0.001
4/26/2022		0.003				
4/27/2022			<0.001		<0.001	
5/3/2022	<0.005			<0.001		
10/11/2022	0.001					<0.001
10/17/2022			<0.001	<0.001	<0.001	
4/10/2023	0.005					
4/11/2023						<0.001
4/12/2023			<0.001	<0.001	<0.001	
4/18/2023		0.003				
10/17/2023			<0.001			
10/18/2023				<0.001		
10/19/2023						<0.001
10/23/2023					<0.001	
Mean	0.00425	0.002623	0.001	0.001125	0.001	0.001
Std. Dev.	0.001488	0.0005483	0	0.0003536	0	0
Upper Lim.	0.005	0.003204	0.001	0.002	0.001	0.001
Lower Lim.	0.001	0.002041	0.001	0.001	0.001	0.001

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 2/2/2024 11:37 AM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-12A	MW-14	MW-14A	MW-4
5/23/2017		0.00013 (J)		
4/17/2018		<0.001		
4/10/2019		<0.001		
9/24/2019				<0.001
3/23/2020			<0.001	
3/24/2020	<0.001	<0.001		
3/26/2020				<0.001
9/23/2020				<0.001
9/24/2020	<0.001		<0.001	
4/21/2021	<0.001			<0.001
4/22/2021		<0.001	<0.001	
9/28/2021				<0.001
9/29/2021		<0.001	<0.001	
10/1/2021	<0.001			
4/25/2022	<0.001			
4/26/2022		<0.001		
5/3/2022				<0.001
5/4/2022			<0.001	
10/11/2022				<0.001
10/12/2022			<0.001	
10/13/2022	<0.001			
4/10/2023				<0.001
4/13/2023		<0.001	<0.001	
4/18/2023	<0.001			
10/17/2023	<0.001			
10/24/2023			<0.001	
Mean	0.001	0.0008913	0.001	0.001
Std. Dev.	0	0.0003076	0	0
Upper Lim.	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.00013	0.001	0.001

Figure J. Trend Tests - Appendix IV

Appendix IV Trend Tests - Significant Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:42 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	MW-1 (bg)	0.0001861	82	58	Yes	19	15.79	n/a	n/a	0.05	NP
Arsenic (mg/L)	MW-20	-0.004009	-57	-37	Yes	14	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-14A	-0.009965	-63	-49	Yes	17	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-2 (bg)	-0.0002491	-78	-53	Yes	18	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-4	-0.0272	-83	-53	Yes	18	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-11	-0.002842	-85	-66	Yes	21	4.762	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-17	-0.01636	-87	-53	Yes	18	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-23	-0.01298	-59	-45	Yes	16	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-24	-0.03536	-19	-15	Yes	7	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-5A	-0.01773	-119	-53	Yes	18	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-7	-0.0159	-113	-66	Yes	21	0	n/a	n/a	0.05	NP

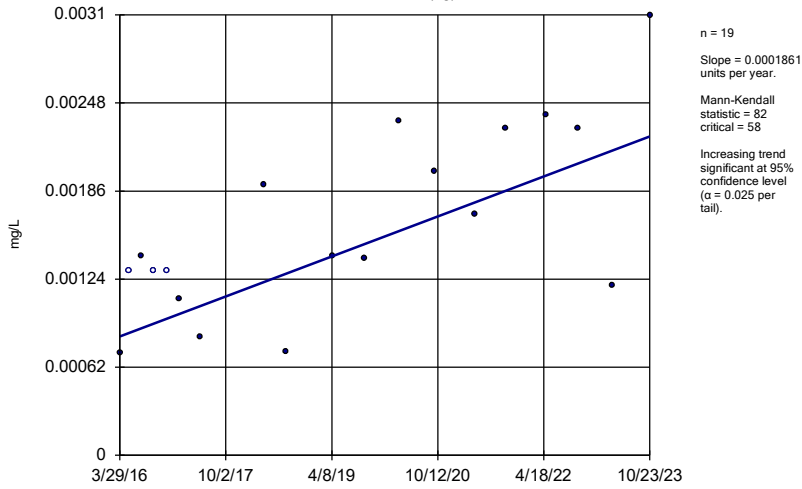
Appendix IV Trend Tests - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 2/2/2024, 11:42 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	MW-1 (bg)	0.0001861	82	58	Yes	19	15.79	n/a	n/a	0.05	NP
Arsenic (mg/L)	MW-17	0.002311	15	37	No	14	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	MW-2 (bg)	0	13	53	No	18	94.44	n/a	n/a	0.05	NP
Arsenic (mg/L)	MW-20	-0.004009	-57	-37	Yes	14	0	n/a	n/a	0.05	NP
Arsenic (mg/L)	MW-23	0	0	37	No	14	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-1 (bg)	-0.00003229	-8	-58	No	19	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-14	-0.01088	-12	-23	No	10	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-14A	-0.009965	-63	-49	Yes	17	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-17	-0.001958	-31	-37	No	14	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-2 (bg)	-0.0002491	-78	-53	Yes	18	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-3	-0.001273	-23	-37	No	14	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-4	-0.0272	-83	-53	Yes	18	0	n/a	n/a	0.05	NP
Cobalt (mg/L)	MW-5	-0.001109	-21	-27	No	11	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-1 (bg)	0	5	58	No	19	84.21	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-11	-0.002842	-85	-66	Yes	21	4.762	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-14B	-0.02057	-4	-10	No	5	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-17	-0.01636	-87	-53	Yes	18	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-2 (bg)	0	15	58	No	19	73.68	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-23	-0.01298	-59	-45	Yes	16	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-24	-0.03536	-19	-15	Yes	7	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-25	-0.003332	-4	-15	No	7	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-5A	-0.01773	-119	-53	Yes	18	0	n/a	n/a	0.05	NP
Lithium (mg/L)	MW-7	-0.0159	-113	-66	Yes	21	0	n/a	n/a	0.05	NP

Sen's Slope Estimator

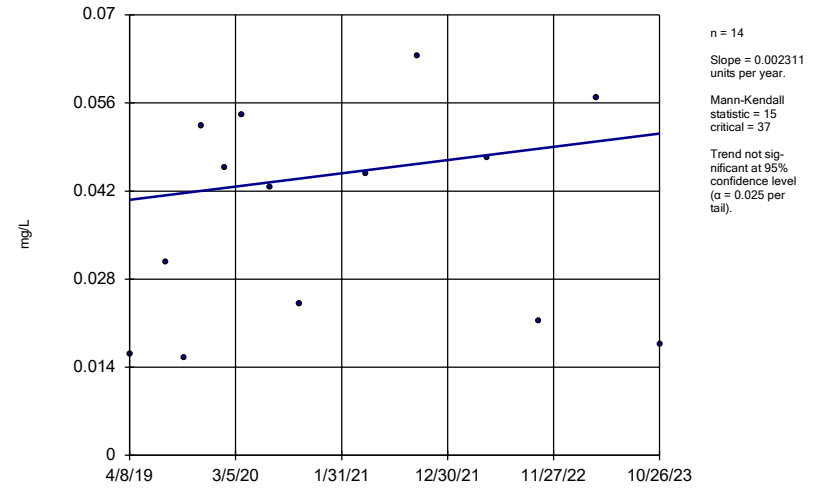
MW-1 (bg)



Constituent: Arsenic Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

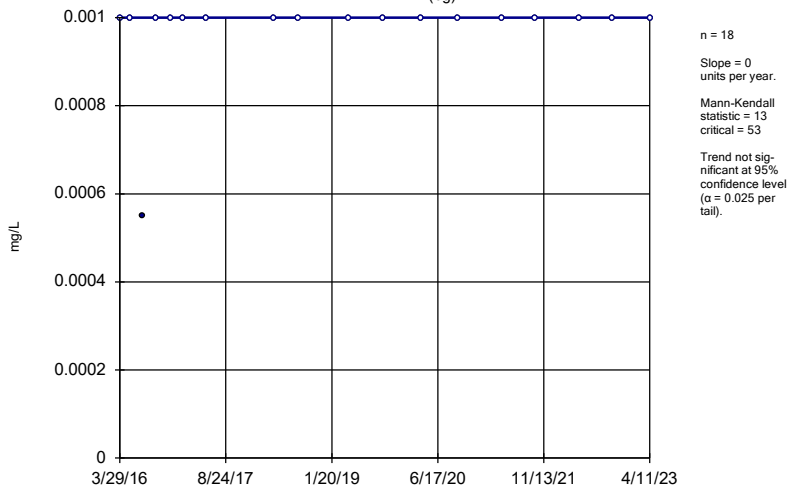
MW-17



Constituent: Arsenic Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

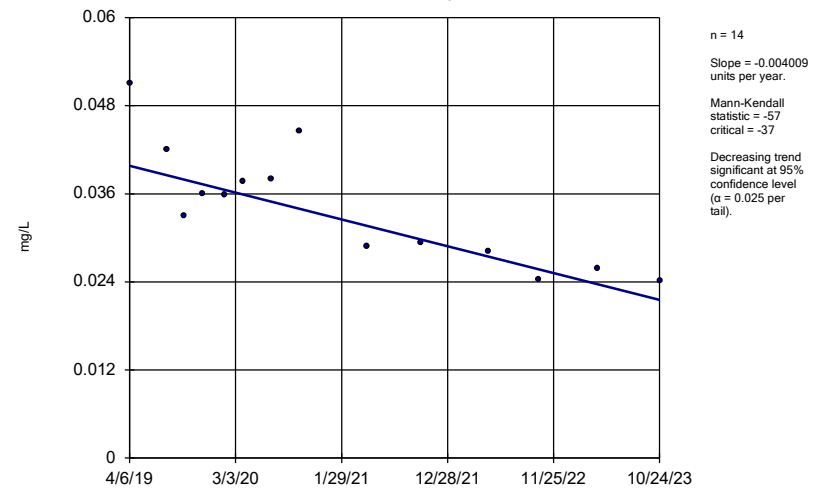
MW-2 (bg)



Constituent: Arsenic Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

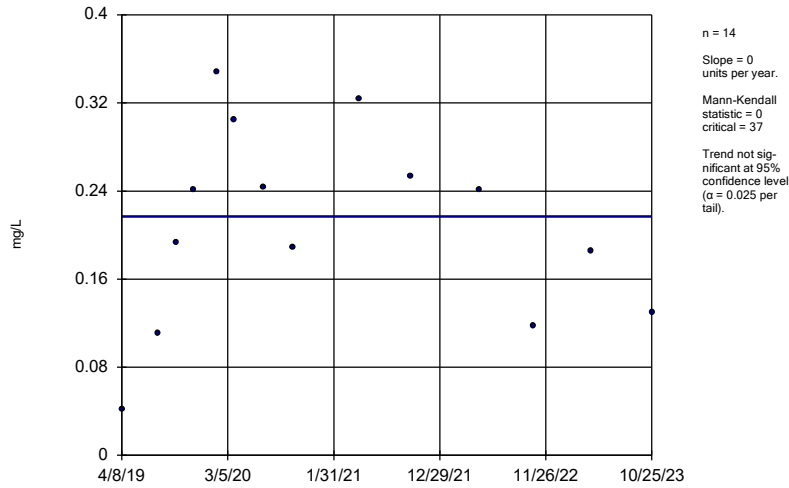
MW-20



Constituent: Arsenic Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

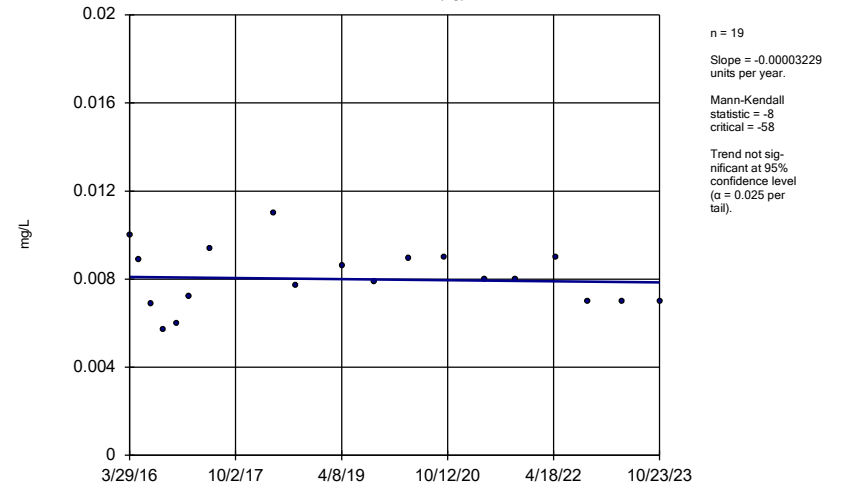
MW-23



Constituent: Arsenic Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

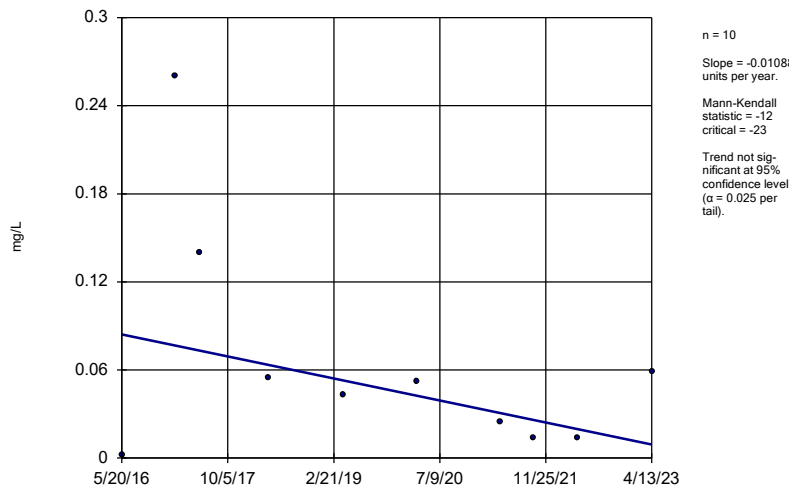
MW-1 (bg)



Constituent: Cobalt Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

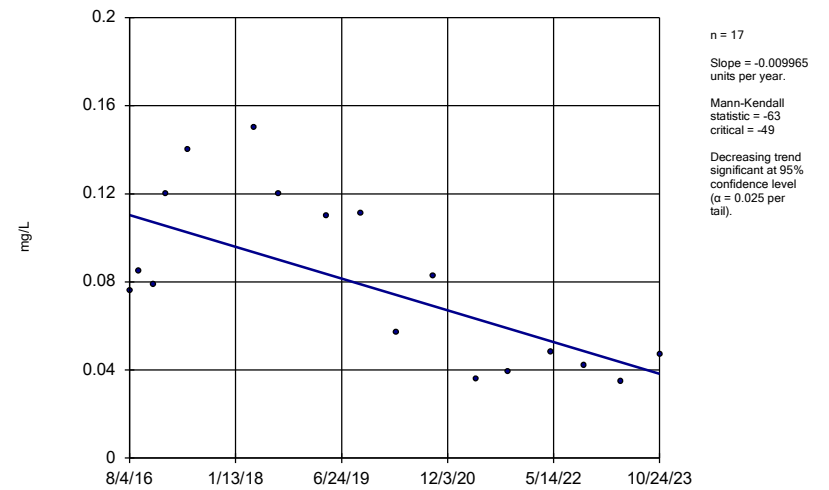
MW-14



Constituent: Cobalt Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

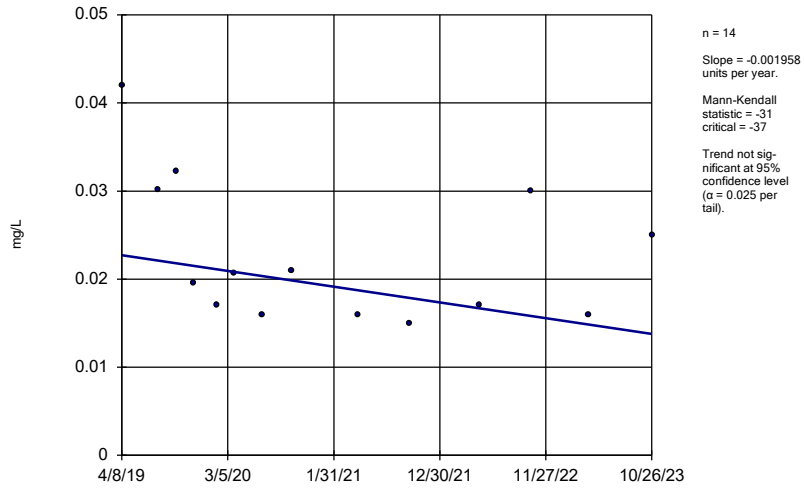
MW-14A



Constituent: Cobalt Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

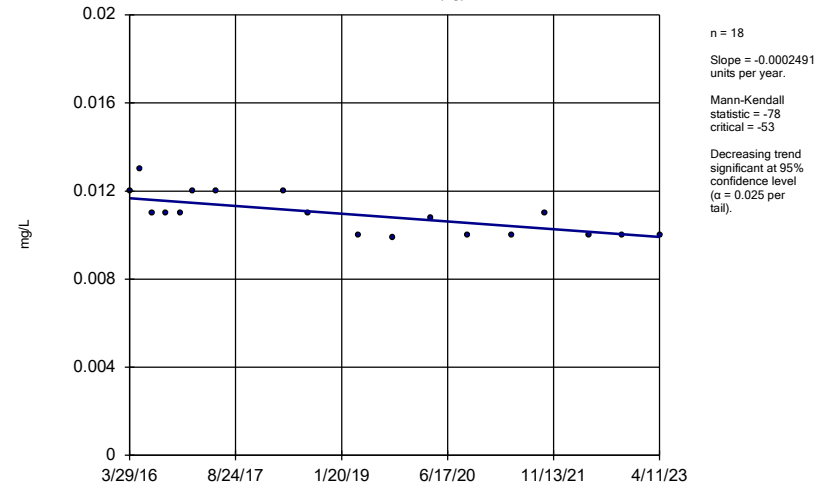
MW-17



Constituent: Cobalt Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

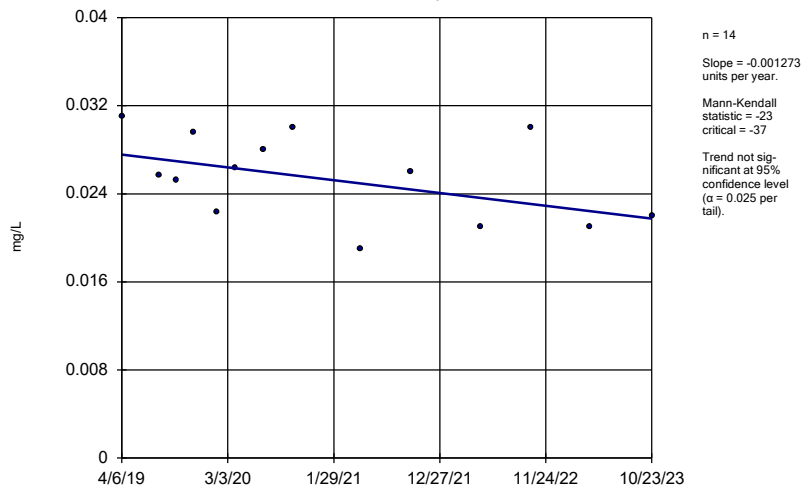
MW-2 (bg)



Constituent: Cobalt Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

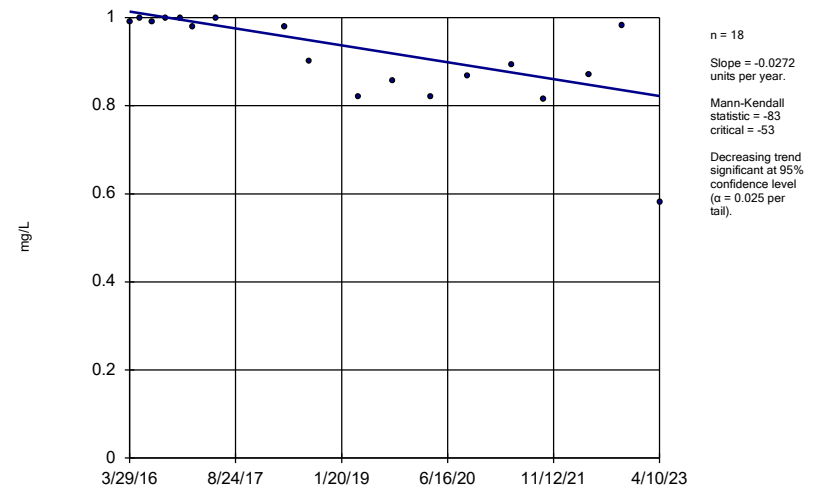
MW-3



Constituent: Cobalt Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

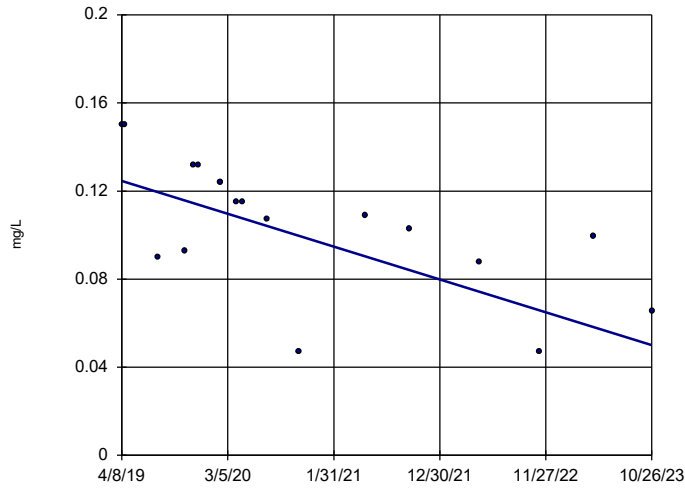
MW-4



Constituent: Cobalt Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
 Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-17

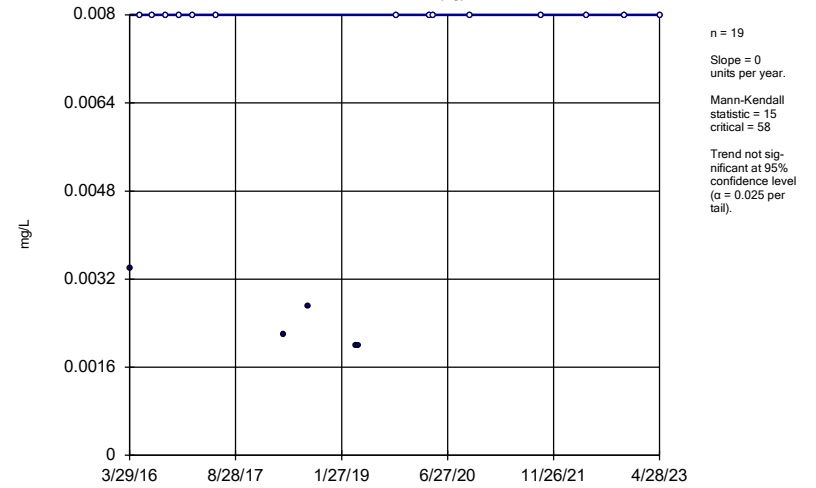


Constituent: Lithium Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Hollow symbols indicate censored values.

Sen's Slope Estimator

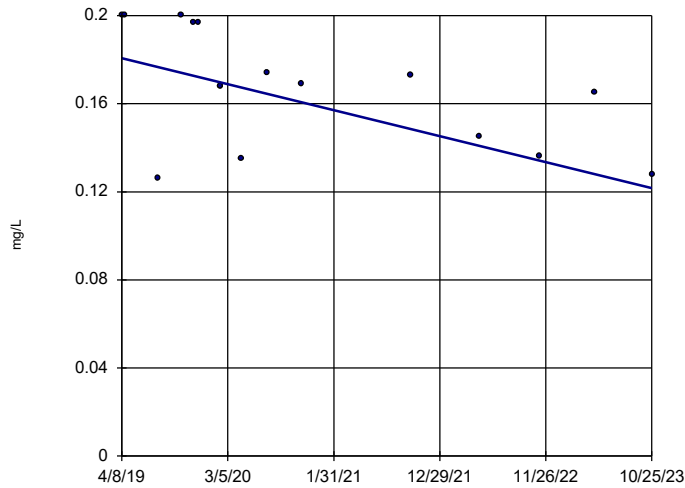
MW-2 (bg)



Constituent: Lithium Analysis Run 2/2/2024 11:38 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

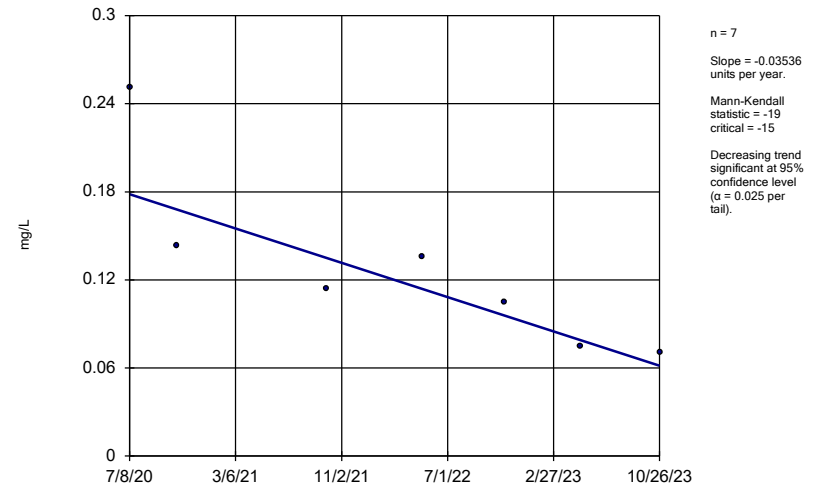
MW-23



Constituent: Lithium Analysis Run 2/2/2024 11:39 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

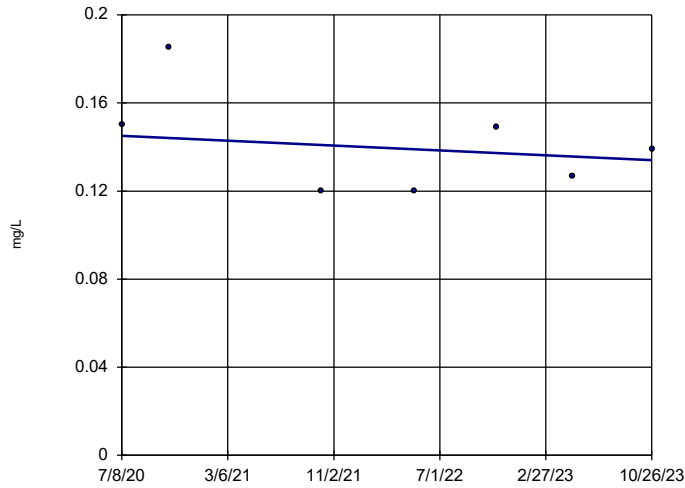
MW-24



Constituent: Lithium Analysis Run 2/2/2024 11:39 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-25

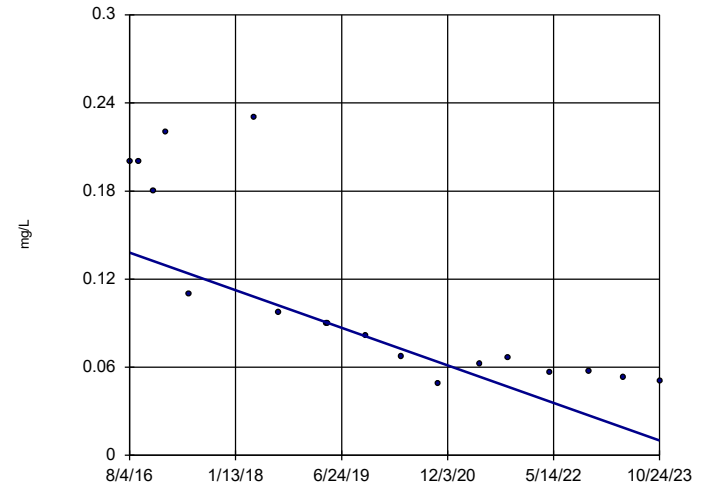


n = 7
Slope = -0.003332
units per year.
Mann-Kendall
statistic = -4
critical = -15
Trend not sig-
nificant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 2/2/2024 11:39 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-5A

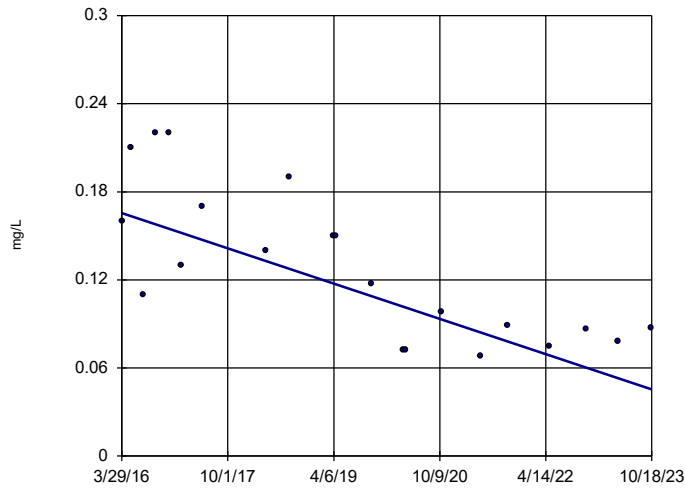


n = 18
Slope = -0.01773
units per year.
Mann-Kendall
statistic = -119
critical = -53
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 2/2/2024 11:39 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-7



n = 21
Slope = -0.0159
units per year.
Mann-Kendall
statistic = -113
critical = -66
Decreasing trend
significant at 95%
confidence level
($\alpha = 0.025$ per
tail).

Constituent: Lithium Analysis Run 2/2/2024 11:39 AM View: Trend Tests - App IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

APPENDIX H

TW-1 PRELIMINARY SAMPLING DATA




SITE NAME: Charles R. Lowman Generating Facility		SITE LOCATION: Leroy, Washington County, Alabama	
WELL NO: TW-1	SAMPLE METHOD: Dedicated Bladder Pump		DATE: 10-26-23

PURGING DATA

WELL DIAMETER 2 (inches):		TUBING DIAMETER 1/4 (inches):		WELL DEPTH (feet):				STATIC WATER LEVEL DEPTH (feet): 14.05			
PURGING INITIATED AT: 1005				PURGING ENDED AT: 1030				TOTAL VOLUME PURGED (gallons): 3.75			
TIME	PUMPING RATE (gpm)	DEPTH TO WATER (feet)	TEMP. (°C)	DISSOLVED OXYGEN (circle mg/L or % saturation)	COND. (µmhos/cm or µS/cm)	pH (standard units)	ORP (Mv)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)	
1010	.15	15.76	20.6	1.86	95.5	5.26	125.4	1.8	clear	none	
1015	.15	"	20.2	0.66	92.7	5.26	184.0	0.07	clear	none	
1020	.15	"	20.2	0.66	90.3	5.28	190.1	0.10	clear	none	
1025	.15	"	20.2	0.58	87.2	5.27	194.3	0.09	clear	none	

SAMPLING DATA

SAMPLE DATE: 10-26-23	SAMPLE COLLECTION TIME: 1025
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES: 
REMARKS: 2.59 / .15 = 17	

5/4/2023

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL, 36420

Ref: Analytical Testing
Lab Report Number: 23-104-0003
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

Dear Mr. Alan Barck:

Waypoint Analytical, LLC (Andalusia) received sample(s) on 4/14/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

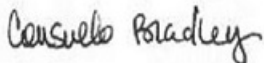
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Consuelo C Bradley

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	SC #84002
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #80215	PA DEP #68-03195

Sample Summary Table

Report Number: 23-104-0003
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 001

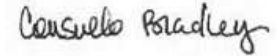
Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
97709	TW-1	Aqueous	04/10/2023 12:55	04/14/2023 09:00	6020A	
97709	TW-1	Aqueous	04/10/2023 12:55	04/14/2023 09:00	7470A	WP MTN
97709	TW-1	Aqueous	04/10/2023 12:55	04/14/2023 09:00	9056A	WP MTN
97709	TW-1	Aqueous	04/10/2023 12:55	04/14/2023 09:00	6020B	WP MTN

00001

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL 36420

Project CDG
Information : PowerSouth Lowman
Project# R021223004

Report Date : 05/04/2023
Received : 04/14/2023



Report Number : **23-104-0003**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **97709**

Matrix: **Aqueous**

Sample ID : **TW-1**

Sampled: **4/10/2023 12:55**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	29.6	mg/L	1.00	1	04/22/23 00:17	SRJ	9056A
Chloride	7.73	mg/L	0.400	1	04/22/23 00:17	SRJ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	04/22/23 00:17	SRJ	9056A
Antimony	<0.0010	mg/L	0.0010	1	04/21/23 05:57	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	04/21/23 05:57	CPW	6020B
Barium	0.104	mg/L	0.001	1	04/21/23 05:57	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	04/21/23 05:57	CPW	6020B
Boron	0.028	mg/L	0.010	1	04/21/23 05:57	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	04/21/23 05:57	CPW	6020B
Calcium	3.40	mg/L	0.200	1	04/21/23 05:57	CPW	6020B
Chromium	0.001	mg/L	0.001	1	04/21/23 05:57	CPW	6020B
Cobalt	0.005	mg/L	0.001	1	04/21/23 05:57	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	04/21/23 05:57	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	04/26/23 13:12	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	04/21/23 05:57	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	04/21/23 05:57	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	04/21/23 05:57	CPW	6020B

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

1
2
3
4
5
6
7
8
9
10
11
12
13

ANALYTICAL REPORT

PREPARED FOR

Attn: Consuelo Bradley
Waypoint Analytical, Inc.
107A Northside Office Park Drive
Andalusia, Alabama 36421

Generated 5/4/2023 8:14:19 AM Revision 1

JOB DESCRIPTION

23-104-0003

JOB NUMBER

180-155217-1

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



Generated
5/4/2023 8:14:19 AM
Revision 1

Authorized for release by
Andy Johnson, Manager of Project Management
Andy.Johnson@et.eurofinsus.com
(615)301-5045



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Case Narrative

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Job ID: 180-155217-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative 180-155217-1

Revised Report

Per client request, sample TW-1 (180-155217-17) is being reported separately. This report replaces the report generated on 05/01/23 at 0613.

Receipt

The samples were received on 4/18/2023 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.3°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Definitions/Glossary

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-24
Connecticut	State	PH-0590	06-29-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-28-24
Illinois	NELAP	200004	07-31-23
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-28-24
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

Sample Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-155217-17	TW-1	Water	04/10/23 12:55	04/18/23 09:30

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Method Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Method	Method Description	Protocol	Laboratory
EPA 6020A	Metals (ICP/MS)	SW846	EET CLE
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Client Sample ID: TW-1

Lab Sample ID: 180-155217-17

Date Collected: 04/10/23 12:55

Matrix: Water

Date Received: 04/18/23 09:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	571100	04/27/23 14:00	AJC	EET CLE
Total Recoverable	Analysis	EPA 6020A		1			571449	04/28/23 20:32	AJC	EET CLE

Instrument ID: I14

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Analyst References:

Lab: EET CLE

Batch Type: Prep

AJC = Alexander Colosi

Batch Type: Analysis

AJC = Alexander Colosi

Client Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Client Sample ID: TW-1

Lab Sample ID: 180-155217-17

Date Collected: 04/10/23 12:55

Matrix: Water

Date Received: 04/18/23 09:30

Method: SW846 EPA 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 20:32	1

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

QC Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Method: EPA 6020A - Metals (ICP/MS)

Lab Sample ID: MB 240-571100/1-A
Matrix: Water
Analysis Batch: 571449

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 571100

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 19:22	1

Lab Sample ID: LCS 240-571100/2-A
Matrix: Water
Analysis Batch: 571449

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 571100

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.4820		mg/L		96	80 - 120

Lab Sample ID: 180-155217-1 MS
Matrix: Water
Analysis Batch: 571449

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 571100

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	ND		0.500	0.4913		mg/L		97	75 - 125

Lab Sample ID: 180-155217-1 MSD
Matrix: Water
Analysis Batch: 571449

Client Sample ID: MW-1
Prep Type: Total Recoverable
Prep Batch: 571100

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	ND		0.500	0.4883		mg/L		97	75 - 125	1	20

Lab Sample ID: MB 240-571102/1-A
Matrix: Water
Analysis Batch: 571449

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 571102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 14:56	1

Lab Sample ID: LCS 240-571102/2-A
Matrix: Water
Analysis Batch: 571449

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 571102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.500	0.4727		mg/L		95	80 - 120

Lab Sample ID: 180-155217-21 MS
Matrix: Water
Analysis Batch: 571449

Client Sample ID: MW-14A
Prep Type: Total Recoverable
Prep Batch: 571102

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.0118		0.500	0.4955		mg/L		97	75 - 125

Lab Sample ID: 180-155217-21 MSD
Matrix: Water
Analysis Batch: 571449

Client Sample ID: MW-14A
Prep Type: Total Recoverable
Prep Batch: 571102

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.0118		0.500	0.4976		mg/L		97	75 - 125	0	20

Eurofins Pittsburgh

QC Association Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

Metals

Prep Batch: 571100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155217-17	TW-1	Total Recoverable	Water	3005A	

Analysis Batch: 571449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-155217-17	TW-1	Total Recoverable	Water	EPA 6020A	571100

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13



107A Northside Office Park Drive, Andalusia, AL 36421
Main 334.343.9799
www.waypointanalytical.com

04/17/2023 14:42:11

Export Batch Report

Export Batch Id : 621EXP

Created: 4/17/2023 14:41:58

Computer: WPALMS-157

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Test America Laboratory - PA
301 Alpha Drive / RIDC Park
Pittsburgh, PA 152382907
412-963-7058

From: Waypoint Analytical, LLC (Andalusia)
107A Northside Office Park Drive
Andalusia, AL 36421
334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code Description
23-104-0002	05/12/2023	04/11/2023 11:40	MW-1	AQU	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/11/2023 13:35	MW-2	AQU	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/10/2023 13:55	MW-3	AQU	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/10/2023 16:00	MW-4	AQU	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/12/2023 12:35	MW-6	AQU	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/12/2023 11:00	MW-7	AQU	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/12/2023 13:20	MW-8	AQU	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/11/2023 10:35	MW-9	AQU	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/12/2023 14:50	MW-10	AQU	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)



Sampled By	Client	Method of Shipment	Blank / Cooler Temp.
Relinquished By (sign)	Consuelo Bradley	Date / Time	04/17/2023 15:00
Received By (sign)	EATMA	Date / Time	4/18/23 9:30
Relinquished By (sign)		Date / Time	





107A Northside Office Park Drive, Andalusia, AL 36421
Main 334.343.9799
www.waypointanalytical.com

04/17/2023 14:42:11

Export Batch Report

Export Batch Id : 621EXP

Created: 4/17/2023 14:41:58
Computer: WPALMS-157
User: Consuelo C Bradley
Project Manager: Consuelo C Bradley

To: Test America Laboratory - PA
301 Alpha Drive / RIDC Park
Pittsburgh, PA 152382907
412-963-7058

From: Waypoint Analytical, LLC (Andalusia)
107A Northside Office Park Drive
Andalusia, AL 36421
334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No Method No	Fee Code Description
23-104-0002	05/12/2023	04/12/2023 15:30	MW-11	AQU 97693 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/10/2023 14:40	MW-13	AQU 97694 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/13/2023 11:35	MW-14	AQU 97695 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/13/2023 12:20	MW-14A	AQU 97696 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/13/2023 13:15	MW-14B	AQU 97697 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/11/2023 09:40	MW-13A	AQU 97698 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/12/2023 08:00	MW-15	AQU 97699 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/12/2023 09:00	MW-16	AQU 97700 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/12/2023 10:15	MW-17	AQU 97701 SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)

Sampled By	Method of Shipment	Blank / Cooler Temp.
Remarks		
Relinquished By (sign)	Date / Time	Received By (sign)
Consuelo Bradley	04/17/2023 09:30	EP, TIME
Relinquished By (sign)	Date / Time	Received By (sign)





107A Northside Office Park Drive, Andalusia, AL 36421
 Main 334.343.9799
 www.waypointanalytical.com

04/17/2023 14:42:11

Export Batch Report

Export Batch Id : 621EXP

Created: 4/17/2023 14:41:58
 Computer: WPALMS-157
 User: Consuelo C Bradley
 Project Manager: Consuelo C Bradley

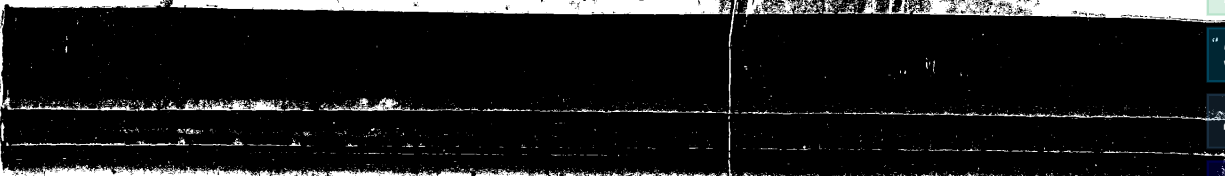
To: Test America Laboratory - PA
 301 Alpha Drive / RIDC Park
 Pittsburgh, PA 152382907
 412-963-7058

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No	Due Date	Sample Date	Customer Sample No	Rush Matrix Lab No	Method No	Fee Code Description
23-104-0002	05/12/2023	04/12/2023 16:20	MW-18	AQU 97702	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/13/2023 08:30	MW-19	AQU 97703	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/11/2023 14:30	MW-20	AQU 97704	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/11/2023 16:25	MW-21	AQU 97705	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/12/2023 14:00	MW-22	AQU 97706	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/13/2023 07:40	MW-24	AQU 97707	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/13/2023 10:30	MW-25	AQU 97708	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)
23-104-0003	05/12/2023	04/10/2023 12:55	TW-1	AQU 97709	SW-6020A (Test America)	Lithium (by 6020 - sub to Test America in PA)

Sampled By	Client	Method of Shipment	Blank / Cooler Temp.
Remarks			
Relinquished By (sign)	Consuelo Bradley	Date / Time	04/17/2023 @ 1500
Relinquished By (sign)		Date / Time	
Received By (sign)		Date / Time	4/18/23 9:30
Received By (sign)		Date / Time	





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- 12
- 13

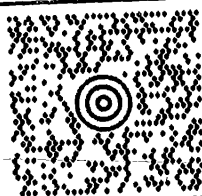
CONSUELO BRADLEY
 (334) 343-9799
 WAYPOINT ANALYTICAL - ALABAMA
 107A NORTHSIDE OFFICE PARK DR
 ANDALUSIA AL 36421

15 LBS

1 OF 1

SHIP TO:

SAMPLE RECEIVING
 (412) 963-7058
 TEST AMERICA LABORATORY - PA
 RIDC PARK
 301 ALPHA DRIVE
 PITTSBURGH PA 15238-2907



PA 152 9-22



UPS NEXT DAY AIR

TRACKING #: 1Z 9X0 Y85 01 4431 5427

1

Uncorrected temp
 Thermometer ID 43 17

CF 0 Initials JD

PT-WI-SR-001 effective 11/8/18



180-155217 Waybill

BILLING: P/P

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)		Sampler: Johnson, Andy		Lab PM: Johnson, Andy		Carrier Tracking No(s): 180-485369.3	
Client Contact: Shipping/Receiving		Phone: Andy Johnson@get.eurofins.com		E-Mail: Andy Johnson@get.eurofins.com		Page: Page 3 of 3	
Company: Eurofins Environment Testing North Cent		Accreditations Required (See note):		State of Origin: Alabama		Job #: 180-155217-1	
Address: 180 S. Van Buren Avenue, Barborton, OH, 44203		Due Date Requested: 5/8/2023		Analysis Requested:		Preservation Codes:	
City: Barborton		TAT Requested (days):		Analysis Requested:		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Y - Trizma Z - other (specify)	
State: OH, 44203		PO #:		Analysis Requested:		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Phone: 330-497-9396(Tel) 330-497-0772(Fax)		WO #:		Analysis Requested:		Total Number of containers	
Email:		Project #:		Analysis Requested:		Special Instructions/Note:	
Project Name: 23-104-0002		18021257		Analysis Requested:			
Site:		SSOW#:		Analysis Requested:			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=water/soil, B=BIOTISSUE, A=Air)	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	6020A/3005A (MOD) Custom Sublist
MW-13 (180-155217-19)	4/10/23	14:40 Central	Water	Water	X	X	
MW-14 (180-155217-20)	4/13/23	11:35 Central	Water	Water	X	X	
MW-14A (180-155217-21)	4/13/23	12:20 Central	Water	Water	X	X	
MW-14B (180-155217-22)	4/13/23	13:15 Central	Water	Water	X	X	
MW-13A (180-155217-23)	4/11/23	09:40 Central	Water	Water	X	X	
MW-15 (180-155217-24)	4/12/23	08:00 Central	Water	Water	X	X	
MW-16 (180-155217-25)	4/12/23	09:00 Central	Water	Water	X	X	
MW-17 (180-155217-26)	4/12/23	10:15 Central	Water	Water	X	X	

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2

Empty Kit Relinquished by: [Signature] Date: 4/24/2023 11:00
 Relinquished by: [Signature] Date/Time: 4/25/23 8:00
 Relinquished by: [Signature] Date/Time: [Blank] Company: EETNC
 Relinquished by: [Signature] Date/Time: [Blank] Company: [Blank]

Custody Seals Intact: Yes No
 Cooler Temperature(s) °C and Other Remarks: [Blank]

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements: [Blank]

Method of Shipment: [Blank]

Received by: [Signature] Date/Time: 4-25-23 8:00 Company: EETNC
 Received by: [Signature] Date/Time: [Blank] Company: [Blank]
 Received by: [Signature] Date/Time: [Blank] Company: [Blank]

Ver: 06/08/2021



Barberton Facility

Client ETA Site Name _____ Cooler unpacked by: Nancy [Signature]

Cooler Received on 4-25-23 Opened on 4-25-23

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other _____

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
IR GUN # 22 (CF +0.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity each Yes No NA

-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA

-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No NA

4. Did custody papers accompany the sample(s)? Yes No NA

5. Were the custody papers relinquished & signed in the appropriate place? Yes No NA

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA

7. Did all bottles arrive in good condition (Unbroken)? Yes No NA

8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA

9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No NA

10. Were correct bottle(s) used for the test(s) indicated? Yes No NA

11. Sufficient quantity received to perform indicated analyses? Yes No NA

12. Are these work share samples and all listed on the COC? Yes No NA

If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC20304

14. Were VOAs on the COC? Yes No NA

15. Were air bubbles >6 mm in any VOA vials? No Yes NA *4x Larger than this.*

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA

17. Was a LL Hg or Me Hg trip blank present? Yes No NA

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Login Sample Receipt Checklist

Client: Waypoint Analytical, Inc.

Job Number: 180-155217-1

Login Number: 155217

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-0003

QC Prep: L676980 **QC Analytical Batch(es):** L677479
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L676980 Matrix: AQU
Associated Lab Samples: 97709

Parameter	Units	Blank Result	MQL	Analyzed
Antimony	mg/L	<0.0010	0.0010	04/21/23 05:45
Arsenic	mg/L	<0.0010	0.0010	04/21/23 05:45
Barium	mg/L	<0.001	0.001	04/21/23 05:45
Beryllium	mg/L	<0.0010	0.0010	04/21/23 05:45
Boron	mg/L	<0.010	0.010	04/21/23 05:45
Cadmium	mg/L	<0.0010	0.0010	04/21/23 05:45
Calcium	mg/L	<0.200	0.200	04/21/23 05:45
Chromium	mg/L	<0.001	0.001	04/21/23 05:45
Cobalt	mg/L	<0.001	0.001	04/21/23 05:45
Lead	mg/L	<0.0010	0.0010	04/21/23 05:45
Molybdenum	mg/L	<0.001	0.001	04/21/23 05:45
Selenium	mg/L	<0.001	0.001	04/21/23 05:45
Thallium	mg/L	<0.0010	0.0010	04/21/23 05:45

Laboratory Control Sample LCS-L676980

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Antimony	mg/L	0.100	0.0967	97.0	80-120
Arsenic	mg/L	0.0500	0.0514	103	80-120
Barium	mg/L	0.100	0.092	93.0	80-120
Beryllium	mg/L	0.0500	0.0508	102	80-120
Boron	mg/L	0.500	0.486	97.0	80-120
Cadmium	mg/L	0.0100	0.0100	100	80-120
Calcium	mg/L	10.0	10.1	101	80-120
Chromium	mg/L	0.100	0.099	99.0	80-120
Cobalt	mg/L	0.100	0.099	99.0	80-120
Lead	mg/L	0.0500	0.0476	95.0	80-120

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-0003

QC Prep: L676980 **QC Analytical Batch(es):** L677479
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Laboratory Control Sample LCS-L676980

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Molybdenum	mg/L	0.100	0.101	101	80-120
Selenium	mg/L	0.100	0.101	101	80-120
Thallium	mg/L	0.0100	0.0093	93.0	80-120

Matrix Spike & Matrix Spike Duplicate N 97709-MS-L676980 N 97709-MSD-L676980

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Antimony	mg/L	<0.0010	0.100	0.100	0.0942	0.0935	94.0	94.0	75-125	0.7	20
Arsenic	mg/L	<0.0010	0.0500	0.0500	0.0511	0.0493	101	98.0	75-125	3.5	20
Barium	mg/L	0.104	0.100	0.100	0.193	0.192	89.0	88.0	75-125	0.5	20
Beryllium	mg/L	<0.0010	0.0500	0.0500	0.0505	0.0509	100	101	75-125	0.7	20
Boron	mg/L	0.028	0.500	0.500	0.498	0.495	94.0	93.0	75-125	0.6	20
Cadmium	mg/L	<0.0010	0.0100	0.0100	0.0107	0.0099	107	99.0	75-125	7.4	20
Calcium	mg/L	3.40	10.0	10.0	13.6	13.3	102	99.0	75-125	2.2	20
Chromium	mg/L	0.001	0.100	0.100	0.100	0.100	98.0	98.0	75-125	0.0	20
Cobalt	mg/L	0.005	0.100	0.100	0.105	0.104	99.0	98.0	75-125	0.9	20
Lead	mg/L	<0.0010	0.0500	0.0500	0.0482	0.0467	96.0	93.0	75-125	3.1	20
Molybdenum	mg/L	<0.001	0.100	0.100	0.105	0.102	105	102	75-125	2.8	20
Selenium	mg/L	<0.001	0.100	0.100	0.098	0.095	99.0	96.0	75-125	2.6	20
Thallium	mg/L	<0.0010	0.0100	0.0100	0.0095	0.0093	96.0	93.0	75-125	2.2	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-0003

QC Prep: L678303 **QC Analytical Batch(es):** L678490
QC Prep Batch Method: 7470A **Analysis Method:** 7470A
Analysis Description: Total Aqueous Mercury Analysis - CVAA

Lab Reagent Blank LRB-L678303 Matrix: AQU
Associated Lab Samples: 97709

Parameter	Units	Blank Result	MQL	Analyzed
Mercury	mg/L	<0.00020	0.00020	04/26/23 12:50

Laboratory Control Sample LCS-L678303

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/L	0.00500	0.00457	91.0	80-120

Matrix Spike & Matrix Spike Duplicate N 97709-MS-L678303 N 97709-MSD-L678303

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/L	<0.00040	0.00500	0.00500	0.00518	0.00510	104	102	80-120	1.5	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-0003

QC Prep: L677756 **QC Analytical Batch(es):** L677837
QC Prep Batch Method: SW-9056A (PREP) **Analysis Method:** 9056A
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank LRB-L677756 Matrix: AQU
Associated Lab Samples: 97709

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/L	<0.400	0.400	04/21/23 16:06
Fluoride (w/o distillation)	mg/L	<0.125	0.125	04/21/23 16:06
Sulfate	mg/L	<1.00	1.00	04/21/23 16:06

Laboratory Control Sample & LCSD LCS-L677756 LCSD-L677756

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Chloride	mg/L	50.0	52.5	52.7	105	105	80-120	0.3	20
Fluoride (w/o distillation)	mg/L	6.25	6.26	6.24	100	100	80-120	0.3	20
Sulfate	mg/L	62.5	66.7	61.0	107	98.0	80-120	8.9	20

Matrix Spike & Matrix Spike Duplicate N 97709-MS-L677756 N 97709-MSD-L677756

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/L	7.73	55.6	55.6	66.6	66.3	106	105	80-120	0.4	15
Fluoride (w/o distillation)	mg/L	<0.138	6.94	6.94	7.23	7.19	104	104	80-120	0.5	15
Sulfate	mg/L	29.6	69.4	69.4	100	99.5	101	101	80-120	0.5	15

Shipment Receipt Form

Customer Number: **00001**

Customer Name: **CDG Engineers Associates**

Report Number: **23-104-0003**

Shipping Method

Fed Ex US Postal Lab Other :
 UPS Client Courier Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

For Laboratory Use Only

Client Name / Address

CDR Inc

Project Description

Power South
Lowman

Project Number

R021223004

Waypoint
ANALYTICAL

2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Date / Time

4/10/23 18:55

Sample Identification

TW-1

Unless noted, all containers
per Table II of 40 CFR Part
136.

Number of Containers

5

Matrix (Refer to Key)

600 G

(Grab or Composite)

Billing Information

RUSH - Additional charges apply
 Special Detection Limit(s)
Date Results Needed

Project Manager Email

Project Manager Phone #

Method of Shipment
 Fed Ex
 UPS
 Courier
 Client Drop Off
 Other

Purchase Order Number

Matrix Key
WW - Wastewater
DW - Drinking Water
P - Product M - Misc

Site/Facility ID #

Cool < 10C
Cool < 6C
H2SO4 pH<2
None Required
NaOH pH>10
HNO3 pH<2
HCL pH<2
H3PO4 pH<2
Cool < 6C NA: \$203

Comments/Notes

*Report Separately *



Client Re

Sampled by: (Name - Print)

Grant Marum

Relinquished by: (SIGNATURE)

[Signature]

Relinquished by: (SIGNATURE)

[Signature]

Relinquished by: (SIGNATURE)

[Signature]

Date / Time

4-13-23 17:00

Received by: (SIGNATURE)

[Signature]

Date / Time

04/14/23 09:00

Received by: (SIGNATURE)

[Signature]

Date / Time

Date / Time

Received by: (SIGNATURE)

[Signature]

11/22/2023

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL, 36420

Ref: Analytical Testing
Lab Report Number: 23-299-0008
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Dear Mr. Alan Barck:

Waypoint Analytical, LLC (Andalusia) received sample(s) on 10/26/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

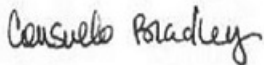
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Consuelo C Bradley

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	SC #84002
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #80215	PA DEP #68-03195

Sample Summary Table

Report Number: 23-299-0008
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
89565	TW-1	Aqueous	10/26/2023 10:26	10/26/2023 15:00	6020A	
89565	TW-1	Aqueous	10/26/2023 10:26	10/26/2023 15:00	6020B	WP MTN
89565	TW-1	Aqueous	10/26/2023 10:26	10/26/2023 15:00	7470A	WP MTN
89565	TW-1	Aqueous	10/26/2023 10:26	10/26/2023 15:00	9056A	WP MTN
89565	TW-1	Aqueous	10/26/2023 10:26	10/26/2023 15:00	2540C-2011	WP MTN



107A Northside Office Park Drive, Andalusia, AL 36421
 Main 334.343.9799
 www.waypointanalytical.com

00001
 CDG Engineers Associates
 Mr. Alan Barck
 P.O. Box 278
 Andalusia , AL 36420

Project CDG
 Information : PowerSouth Lowman
 Project# R021223004

Report Date : 11/22/2023
 Received : 10/26/2023

Consuelo Bradley

Report Number : **23-299-0008**

REPORT OF ANALYSIS

Consuelo C Bradley

Lab No : **89565**
 Sample ID : **TW-1**

Matrix: **Aqueous**
 Sampled: **10/26/2023 10:26**

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Sulfate	29.3	mg/L	1.00	1	10/31/23 20:05	HMQ	9056A
Chloride	6.00	mg/L	0.400	1	10/31/23 20:05	HMQ	9056A
Fluoride (w/o distillation)	<0.125	mg/L	0.125	1	10/31/23 20:05	HMQ	9056A
Total Dissolved Solids	96.0	mg/L	50.0	1	11/01/23 09:04	A.B	2540C-2011
Antimony	<0.0010	mg/L	0.0010	1	11/03/23 23:27	CPW	6020B
Arsenic	<0.0010	mg/L	0.0010	1	11/03/23 23:27	CPW	6020B
Barium	0.108	mg/L	0.001	1	11/03/23 23:27	CPW	6020B
Beryllium	<0.0010	mg/L	0.0010	1	11/03/23 23:27	CPW	6020B
Boron	0.011	mg/L	0.010	1	11/03/23 23:27	CPW	6020B
Cadmium	<0.0010	mg/L	0.0010	1	11/03/23 23:27	CPW	6020B
Calcium	2.60	mg/L	0.200	1	11/03/23 23:27	CPW	6020B
Chromium	<0.001	mg/L	0.001	1	11/03/23 23:27	CPW	6020B
Cobalt	0.004	mg/L	0.001	1	11/03/23 23:27	CPW	6020B
Lead	<0.0010	mg/L	0.0010	1	11/03/23 23:27	CPW	6020B
Mercury	<0.00020	mg/L	0.00020	1	10/31/23 13:40	FDS	7470A
Molybdenum	<0.001	mg/L	0.001	1	11/03/23 23:27	CPW	6020B
Selenium	<0.001	mg/L	0.001	1	11/03/23 23:27	CPW	6020B
Thallium	<0.0010	mg/L	0.0010	1	11/03/23 23:27	CPW	6020B

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

 **ANALYTICAL REPORT****PREPARED FOR**

Attn: Consuelo Bradley
Waypoint Analytical, Inc.
107A Northside Office Park Drive
Andalusia, Alabama 36421

Generated 11/22/2023 9:08:27 AM

JOB DESCRIPTION

23-299-0008

JOB NUMBER

180-164744-1

Eurofins Pittsburgh

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

PA Lab ID: 02-00416

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Pittsburgh Project Manager.

Authorization



Generated
11/22/2023 9:08:27 AM

Authorized for release by
Andy Johnson, Senior Project Manager
Andy.Johnson@et.eurofinsus.com
(615)818-9567



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Case Narrative

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0008

Job ID: 180-164744-1



Job ID: 180-164744-1

Laboratory: Eurofins Pittsburgh

Narrative

Job Narrative
180-164744-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The sample was received on 11/2/2023 9:50 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.5°C, 1.6°C and 3.2°C

Metals

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Definitions/Glossary

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0008

Job ID: 180-164744-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Accreditation/Certification Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0008

Job ID: 180-164744-1

Laboratory: Eurofins Buffalo

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-0686	07-06-23 *
Connecticut	State	PH-0568	03-31-24
Florida	NELAP	E87672	06-30-23 *
Georgia	State	10026 (NY)	03-31-24
Georgia	State Program	N/A	03-31-09 *
Illinois	NELAP	200003	09-30-23 *
Iowa	State	374	03-01-25
Iowa	State Program	374	03-01-09 *
Kansas	NELAP	E-10187	02-01-24
Kentucky (DW)	State	90029	01-01-24
Kentucky (UST)	State	108092	04-01-24
Kentucky (WW)	State	KY90029	12-31-23
Louisiana	NELAP	02031	06-30-23 *
Louisiana (All)	NELAP	02031	06-30-23 *
Maine	State	NY00044	12-04-24
Maryland	State	294	06-30-24
Massachusetts	State	M-NY044	07-01-24
Michigan	State	9937	04-01-24
Michigan	State Program	9937	04-01-09 *
New Hampshire	NELAP	2973	09-11-19 *
New Hampshire	NELAP	2337	11-17-23 *
New Jersey	NELAP	NY455	06-30-24
New York	NELAP	10026	03-31-24
Pennsylvania	NELAP	68-00281	08-31-24
Rhode Island	State	LAO00328	12-30-23
Texas	NELAP	T104704412-18-10	07-31-23 *
USDA	US Federal Programs	P330-18-00039	03-25-24
Virginia	NELAP	460185	11-02-23 *
Washington	State	C784	02-10-24
Wisconsin	State	998310390	08-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Sample Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0008

Job ID: 180-164744-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
180-164744-1	TW-1	Water	10/26/23 10:26	11/02/23 09:50

1

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Method Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0008

Job ID: 180-164744-1

Method	Method Description	Protocol	Laboratory
6020B	Metals (ICP/MS)	SW846	EET BUF
3020A	Preparation, Total Metals	SW846	EET BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600



Lab Chronicle

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0008

Job ID: 180-164744-1

Client Sample ID: TW-1

Lab Sample ID: 180-164744-1

Date Collected: 10/26/23 10:26

Matrix: Water

Date Received: 11/02/23 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3020A			50 mL	50 mL	691418	11/17/23 08:06	MP	EET BUF
Total/NA	Analysis	6020B		1			693060	11/21/23 17:14	BMB	EET BUF

Instrument ID: Agilent7800

Laboratory References:

EET BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Analyst References:

Lab: EET BUF

Batch Type: Prep

MP = Manisha Patel

Batch Type: Analysis

BMB = Bryan Booth



Client Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0008

Job ID: 180-164744-1

Client Sample ID: TW-1

Lab Sample ID: 180-164744-1

Date Collected: 10/26/23 10:26

Matrix: Water

Date Received: 11/02/23 09:50

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	0.00532		0.00400		mg/L		11/17/23 08:06	11/21/23 17:14	1

- 1
- 2
- 3
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- 5
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- 7
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- 9
- 10
- 11
- 12
- 13

QC Sample Results

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0008

Job ID: 180-164744-1

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 480-691418/1-A
Matrix: Water
Analysis Batch: 693060

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 691418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lithium	ND		0.00400		mg/L		11/17/23 08:06	11/21/23 17:09	1

Lab Sample ID: LCS 480-691418/2-A
Matrix: Water
Analysis Batch: 693060

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 691418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.0200	0.01968		mg/L		98	80 - 120

Lab Sample ID: 180-164744-1 MS
Matrix: Water
Analysis Batch: 693060

Client Sample ID: TW-1
Prep Type: Total/NA
Prep Batch: 691418

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Lithium	0.00532		0.0200	0.02465		mg/L		97	75 - 125

Lab Sample ID: 180-164744-1 MSD
Matrix: Water
Analysis Batch: 693060

Client Sample ID: TW-1
Prep Type: Total/NA
Prep Batch: 691418

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lithium	0.00532		0.0200	0.02463		mg/L		97	75 - 125	0	20

QC Association Summary

Client: Waypoint Analytical, Inc.
Project/Site: 23-299-0008

Job ID: 180-164744-1

Metals

Prep Batch: 691418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164744-1	TW-1	Total/NA	Water	3020A	
MB 480-691418/1-A	Method Blank	Total/NA	Water	3020A	
LCS 480-691418/2-A	Lab Control Sample	Total/NA	Water	3020A	
180-164744-1 MS	TW-1	Total/NA	Water	3020A	
180-164744-1 MSD	TW-1	Total/NA	Water	3020A	

Analysis Batch: 693060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
180-164744-1	TW-1	Total/NA	Water	6020B	691418
MB 480-691418/1-A	Method Blank	Total/NA	Water	6020B	691418
LCS 480-691418/2-A	Lab Control Sample	Total/NA	Water	6020B	691418
180-164744-1 MS	TW-1	Total/NA	Water	6020B	691418
180-164744-1 MSD	TW-1	Total/NA	Water	6020B	691418



107A Northside Office Park Drive, Andalusia, AL 36421
 Main 334.343.9799
 www.waypointanalytical.com

11/01/2023 13:08:24

Export Batch Report

Export Batch Id : 699EXP

Created: 11/1/2023 13:08:13

Computer: WPALMS-160

User: Consuelo C Bradley

Project Manager: Consuelo C Bradley

To: Test America Laboratory - PA
 301 Alpha Drive / RIDC Park
 Pittsburgh, PA 152382907
 412-963-7058

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

Report No 23-299-0008 **Due Date** 11/09/2023 **Sample Date** 10/26/2023 10:26

Customer Sample No TW-1

Rush Matrix Lab No Method No AQU 89565 SW-6020A (Test America)

Fee Code Description Lithium (by 6020 - sub to Test America in PA)



180-164744 Chain of Custody

Sampled By <i>Clint</i>	Method of Shipment Blank / Cooler Temp.	Received By (sign) <i>Alynn BRANE</i>	Date / Time 11/2/23 0950
Relinquished By (sign) <i>Consuelo Bradley</i>	Date / Time 11/01/2023 1150	Received By (sign)	Date / Time
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time



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- 10
- 11
- 12
- 13

11/C
Exp
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23-

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WS 26.0.30 Zebra ZP 450 44.0A 10/2023

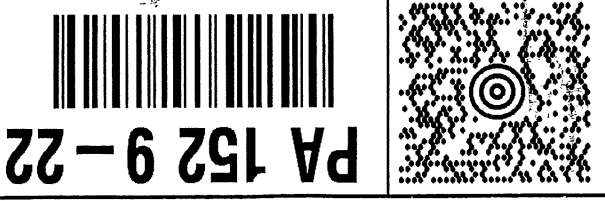
Sampled By	CF
Remarks	
Relinquished By (sign)	<i>Carla Wells</i>
Relinquished By (sign)	

WS 26.0.30 Zebra ZP 450 44.0A 10/2023

BILLING: P/P

Uncorrected temp	2.1 °C
Thermometer ID	21
Initials	<i>CF-D-V</i>
PT-WI-SR-001 effective 11/8/18	

UPS NEXT DAY AIR
TRACKING #: 1Z 9XD Y85 01 4596 0326



SHIP TO:
CONSUELO BRADLEY
107A NORTHSIDE OFFICE PARK DRI
WAYPOINT ANALYTICAL - ALABAMA
(334) 343-9799
3 OF 3

SAMPLE RECEIVING
(412) 963-7058
TEST AMERICA LABORATORY - PA
RIDC PARK
301 ALPHA DRIVE
PITTSBURGH PA 15238-2907



Uncorrected temp	2.0 °C
Thermometer ID	22
Initials	<i>SK</i>
PT-WI-SR-001 effective 11/8/18	

UPS NEXT DAY AIR
TRACKING #: 1Z 9XD Y85 01 4362 0303



SHIP TO:
SAMPLE RECEIVING
(412) 963-7058
TEST AMERICA LABORATORY - PA
RIDC PARK
301 ALPHA DRIVE
PITTSBURGH PA 15238-2907

CONSUELO BRADLEY
107A NORTHSIDE OFFICE PARK DRI
WAYPOINT ANALYTICAL - ALABAMA
(334) 343-9799
3 OF 3

SHIP TO:
CONSUELO BRADLEY
107A NORTHSIDE OFFICE PARK DRI
WAYPOINT ANALYTICAL - ALABAMA
(334) 343-9799
3 OF 3

TEST AMERICA LABORATORY - PA
301 ALPHA DR
PITTSBURGH PA 15238

1 of 1

1
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0
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12
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LABORATORY - PA
6238
S: MR
1: 65
- 1428
4514
0301
006
15
3.9.0
NOV 2 07:02:24 2023
T411R

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WS 26.0:30 Zebra ZP 460 44.0A 10/2023

BILLING: P/P

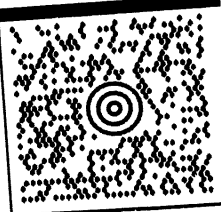
PT-M-SR-001 effective 1/8/18
CF - 04 Initials
Thermometer ID
Uncorrected temp
36.22 °C

TRACKING #: 1Z 9X0 Y85 01 4305 4514

UPS NEXT DAY AIR 1



PA 152 9 - 22



PITTSBURGH PA 15238 - 2907
301 ALPHA DRIVE
RIDC PARK
TEST AMERICA LABORATORY - PA
(412) 963 - 7058

SHIP TO:
CONSUELO BRADLEY
WAYPOINT ANALYTICAL - ALABAMA
107A NORTHSIDE OFFICE PARK DRI
ANDALUSIA AL 36421
(334) 343 - 9799

15 LBS

2 OF 3



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler:	Lab PM:	Carrier Tracking No(s):	COC No:
Shipping/Receiving		Phone:	Johnson, Andy	180-498856-1	180-498856-1
Company:		E-Mail:	State of Origin:	Page:	Page 1 of 1
Eurofins Environment Testing Northeast,		Accreditations Required (See note):	Alabama	Job #:	180-164744-1
Address:		Due Date Requested:	Analysis Requested:		
10 Hazelwood Drive,		11/27/2023	M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Y - Trizma Z - other (specify)		
City:		TAT Requested (days):	Preservation Codes:		
Amherst			A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		
State, Zip:		PO #:	Total Number of containers		
NY, 14228-2298		WO #:	1		
Phone:		Project #:	Special Instructions/Note:		
716-691-2600(Tel) 716-691-7991(Fax)		18021257			
Email:		SSOV#:			
Project Name:		Sample Date:	Sample Time:	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastobi, STAT=issue, A=AM)
23-299-0008		10/26/23	10:26	Central	Water
Site:		Sample ID (Lab ID):	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020E/3020A LI by 6020A
TW-1 (180-164744-1)			X	X	X

Note: Since laboratory accreditations are subject to change, Eurofins Pittsburgh places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Pittsburgh laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Pittsburgh attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Pittsburgh.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2
 Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Alayan* Date: 11/3/23 1000 Company: *CPIT/HALE*
 Relinquished by: _____ Date/Time: _____ Company: _____
 Relinquished by: _____ Date/Time: _____ Company: _____
 Custody Seals Intact: Yes No Custody Seal No.: _____
 Cooler Temperature(s) °C and Other Remarks: 211# ICE

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months
 Special Instructions/QC Requirements:



Login Sample Receipt Checklist

Client: Waypoint Analytical, Inc.

Job Number: 180-164744-1

Login Number: 164744

List Number: 1

Creator: Abernathy, Eric L

List Source: Eurofins Pittsburgh

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Waypoint Analytical, Inc.

Job Number: 180-164744-1

Login Number: 164744

List Number: 2

Creator: Yeager, Brian A

List Source: Eurofins Buffalo

List Creation: 11/06/23 01:09 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	



Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0008

QC Analytical Batch: L714450
Analysis Method: 2540C-2011
Analysis Description: Total Dissolved Solids

Lab Reagent Blank LRB Matrix: AQU
Associated Lab Samples: 89565

Parameter	Units	Blank Result	MQL	Analyzed
Total Dissolved Solids	mg/L	<12.5	12.5	11/01/23 09:04

Laboratory Control Sample LCS

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Total Dissolved Solids	mg/L	250	254	102	90-110

Duplicate N 89565-DUP

Parameter	Units	Result	DUP Result	RPD	Max RPD	Analyzed
Total Dissolved Solids	mg/L	96.0	102	6.0	10	11/01/23 09:04

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0008

QC Prep: L714355 **QC Analytical Batch(es):** L715204,L715433
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Lab Reagent Blank LRB-L714355 Matrix: AQU
Associated Lab Samples: 89565

Parameter	Units	Blank Result	MQL	Analyzed
Antimony	mg/L	<0.0010	0.0010	11/03/23 23:15
Arsenic	mg/L	<0.0010	0.0010	11/03/23 23:15
Barium	mg/L	<0.001	0.001	11/03/23 23:15
Beryllium	mg/L	<0.0010	0.0010	11/03/23 23:15
Boron	mg/L	<0.010	0.010	11/03/23 23:15
Cadmium	mg/L	<0.0010	0.0010	11/03/23 23:15
Calcium	mg/L	<0.200	0.200	11/03/23 23:15
Chromium	mg/L	<0.001	0.001	11/03/23 23:15
Cobalt	mg/L	<0.001	0.001	11/03/23 23:15
Lead	mg/L	<0.0010	0.0010	11/03/23 23:15
Molybdenum	mg/L	<0.001	0.001	11/03/23 23:15
Selenium	mg/L	<0.001	0.001	11/03/23 23:15
Thallium	mg/L	<0.0010	0.0010	11/03/23 23:15

Laboratory Control Sample LCS-L714355

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Antimony	mg/L	0.100	0.0970	97.0	80-120
Arsenic	mg/L	0.0500	0.0489	98.0	80-120
Barium	mg/L	0.100	0.097	97.0	80-120
Beryllium	mg/L	0.0500	0.0470	94.0	80-120
Boron	mg/L	0.500	0.471	94.0	80-120
Cadmium	mg/L	0.0100	0.0096	96.0	80-120
Calcium	mg/L	10.0	9.91	99.0	80-120
Chromium	mg/L	0.100	0.096	96.0	80-120
Cobalt	mg/L	0.100	0.091	92.0	80-120
Lead	mg/L	0.0500	0.0479	96.0	80-120

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0008

QC Prep: L714355 **QC Analytical Batch(es):** L715204,L715433
QC Prep Batch Method: 3005A **Analysis Method:** 6020B
Analysis Description: Metals Analyses

Laboratory Control Sample LCS-L714355

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Molybdenum	mg/L	0.100	0.093	93.0	80-120
Selenium	mg/L	0.100	0.096	96.0	80-120
Thallium	mg/L	0.0100	0.0095	96.0	80-120

Matrix Spike & Matrix Spike Duplicate N 89589-MS-L714355 N 89589-MSD-L714355

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Antimony	mg/L	<0.0010	0.100	0.100	0.0967	0.0964	97.0	96.0	75-125	0.3	20
Arsenic	mg/L	<0.0010	0.0500	0.0500	0.0490	0.0494	97.0	98.0	75-125	0.8	20
Barium	mg/L	0.114	0.100	0.100	0.212	0.212	98.0	98.0	75-125	0.0	20
Beryllium	mg/L	<0.0010	0.0500	0.0500	0.0440	0.0447	88.0	89.0	75-125	1.5	20
Boron	mg/L	0.404	0.500	0.500	0.808	0.824	81.0	84.0	75-125	1.9	20
Cadmium	mg/L	<0.0010	0.0100	0.0100	0.0093	0.0092	94.0	93.0	75-125	1.2	20
Calcium	mg/L	68.3	10.0	10.0	78.8	80.0	105	117	75-125	1.5	20
Chromium	mg/L	<0.001	0.100	0.100	0.093	0.095	93.0	95.0	75-125	2.0	20
Cobalt	mg/L	<0.001	0.100	0.100	0.087	0.089	87.0	89.0	75-125	1.5	20
Lead	mg/L	<0.0010	0.0500	0.0500	0.0480	0.0483	96.0	97.0	75-125	0.6	20
Molybdenum	mg/L	0.004	0.100	0.100	0.098	0.096	94.0	92.0	75-125	2.4	20
Selenium	mg/L	0.004	0.100	0.100	0.098	0.102	95.0	98.0	75-125	3.0	20
Thallium	mg/L	<0.0010	0.0100	0.0100	0.0097	0.0096	97.0	97.0	75-125	0.9	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0008

QC Prep: L714179 **QC Analytical Batch(es):** L714354
QC Prep Batch Method: 7470A **Analysis Method:** 7470A
Analysis Description: Total Aqueous Mercury Analysis - CVAA

Lab Reagent Blank LRB-L714179 Matrix: AQU
 Associated Lab Samples: 89565

Parameter	Units	Blank Result	MQL	Analyzed
Mercury	mg/L	<0.00020	0.00020	10/31/23 13:07

Laboratory Control Sample LCS-L714179

Parameter	Units	Spike Conc.	LCS Result	LCS %Rec	% Rec Limits
Mercury	mg/L	0.00400	0.00361	90.0	80-120

Matrix Spike & Matrix Spike Duplicate N 89609-MS-L714179 N 89609-MSD-L714179

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Mercury	mg/L	<0.00020	0.00400	0.00400	0.00356	0.00364	89.0	91.0	80-120	2.2	20

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-299-0008

QC Prep: L714243 **QC Analytical Batch(es):** L714558
QC Prep Batch Method: SW-9056A (PREP) **Analysis Method:** 9056A
Analysis Description: Anions by Ion Chromatography

Lab Reagent Blank LRB-L714243 Matrix: AQU
Associated Lab Samples: 89565

Parameter	Units	Blank Result	MQL	Analyzed
Chloride	mg/L	<0.400	0.400	10/31/23 08:33
Fluoride (w/o distillation)	mg/L	<0.125	0.125	10/31/23 08:33
Sulfate	mg/L	<1.00	1.00	10/31/23 08:33

Laboratory Control Sample & LCSD LCS-L714243 LCSD-L714243

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS %Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD
Chloride	mg/L	50.0	47.4	46.8	95.0	94.0	80-120	1.2	20
Fluoride (w/o distillation)	mg/L	6.25	5.71	5.72	91.0	92.0	80-120	0.1	20
Sulfate	mg/L	62.5	59.2	58.5	95.0	94.0	80-120	1.1	20

Matrix Spike & Matrix Spike Duplicate N 89562-MS-L714243 N 89562-MSD-L714243

Parameter	Units	Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS %Rec	MSD %Rec	%Rec Limits	RPD	Max RPD
Chloride	mg/L	<0.421	52.6	52.6	24.6	25.9	47.0*	49.0*	80-120	5.1	15
Fluoride (w/o distillation)	mg/L	<0.131	6.58	6.58	3.02	3.16	46.0*	48.0*	80-120	4.5	15
Sulfate	mg/L	<1.05	65.8	65.8	31.1	32.6	47.0*	50.0*	80-120	4.7	15

Shipment Receipt Form

Customer Number: **00001**
 Customer Name: **CDG Engineers Associates**
 Report Number: **23-299-0008**

Shipping Method

Fed Ex US Postal Lab Other :
 UPS Client Courier Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

11/22/2023

CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia, AL, 36420

Ref: Analytical Testing
Lab Report Number: 23-299-0006
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Dear Mr. Alan Barck:

Waypoint Analytical, LLC (Andalusia) received sample(s) on 10/26/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

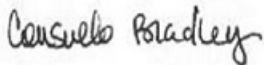
The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Consuelo C Bradley

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	SC #84002
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #80215	PA DEP #68-03195

Sample Summary Table

Report Number: 23-299-0006
Client Project Description: CDG
PowerSouth Lowman
Project# R021223004
Phase# 005

Lab No	Client Sample ID	Matrix	Date Collected	Date Received	Method	Lab ID
89546	TW-1	Aqueous	10/26/2023 10:26	10/26/2023 15:00	EPA-904.0	
89546	TW-1	Aqueous	10/26/2023 10:26	10/26/2023 15:00	EPA-903.1	



November 20, 2023

Ms. Consuelo Bradley
Waypoint Analytical LLC-AL
107A Northside Office Park Dr.
Andalusia, AL 36421

RE: Project: 23-299-0006
Pace Project No.: 30635234

Dear Ms. Bradley:

Enclosed are the analytical results for sample(s) received by the laboratory on October 31, 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,

Nikayla M. Yasurek
nikayla.yasurek@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Ms. Kim Stricklan, Waypoint Analytical LLC-AL



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 23-299-0006
 Pace Project No.: 30635234

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
 ANAB DOD-ELAP Rad Accreditation #: L2417
 ANABISO/IEC 17025:2017 Rad Cert#: L24170
 Alabama Certification #: 41590
 Arizona Certification #: AZ0734
 Arkansas Certification
 California Certification #: 2950
 Colorado Certification #: PA01547
 Connecticut Certification #: PH-0694
 EPA Region 4 DW Rad
 Florida/TNI Certification #: E87683
 Georgia Certification #: C040
 Guam Certification
 Hawaii Certification
 Idaho Certification
 Illinois Certification
 Indiana Certification
 Iowa Certification #: 391
 Kansas Certification #: E-10358
 Kentucky Certification #: KY90133
 KY WW Permit #: KY0098221
 KY WW Permit #: KY0000221
 Louisiana DHH/TNI Certification #: LA010
 Louisiana DEQ/TNI Certification #: 04086
 Maine Certification #: 2023021
 Maryland Certification #: 308
 Massachusetts Certification #: M-PA1457
 Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
 Montana Certification #: Cert0082
 Nebraska Certification #: NE-OS-29-14
 Nevada Certification #: PA014572023-03
 New Hampshire/TNI Certification #: 297622
 New Jersey/TNI Certification #: PA051
 New Mexico Certification #: PA01457
 New York/TNI Certification #: 10888
 North Carolina Certification #: 42706
 North Dakota Certification #: R-190
 Ohio EPA Rad Approval: #41249
 Oregon/TNI Certification #: PA200002-015
 Pennsylvania/TNI Certification #: 65-00282
 Puerto Rico Certification #: PA01457
 Rhode Island Certification #: 65-00282
 South Dakota Certification
 Tennessee Certification #: TN02867
 Texas/TNI Certification #: T104704188-22-18
 Utah/TNI Certification #: PA014572223-14
 USDA Soil Permit #: 525-23-67-77263
 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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 23-299-0006
Pace Project No.: 30635234

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30635234001	23-299-0006	Water	10/26/23 10:26	10/31/23 10:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 23-299-0006
Pace Project No.: 30635234

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30635234001	23-299-0006	EPA 903.1	CLM	1	PASI-PA
		EPA 904.0	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-299-0006
Pace Project No.: 30635234

Method: EPA 903.1
Description: 903.1 Radium 226
Client: Waypoint Analytical LLC-AL
Date: November 20, 2023

General Information:

1 sample was analyzed for EPA 903.1 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-299-0006
Pace Project No.: 30635234

Method: EPA 904.0
Description: 904.0 Radium 228
Client: Waypoint Analytical LLC-AL
Date: November 20, 2023

General Information:

1 sample was analyzed for EPA 904.0 by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 23-299-0006
Pace Project No.: 30635234

Method: Total Radium Calculation
Description: Total Radium 228+226
Client: Waypoint Analytical LLC-AL
Date: November 20, 2023

General Information:

1 sample was analyzed for Total Radium Calculation by Pace Analytical Services Greensburg. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 23-299-0006
 Pace Project No.: 30635234

Sample: 23-299-0006 **Lab ID: 30635234001** Collected: 10/26/23 10:26 Received: 10/31/23 10:25 Matrix: Water
 PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	0.528 ± 0.443 (0.634) C:NA T:80%	pCi/L	11/20/23 12:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	0.145 ± 0.258 (0.565) C:121% T:80%	pCi/L	11/10/23 14:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.673 ± 0.701 (1.20)	pCi/L	11/20/23 15:01	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 23-299-0006
 Pace Project No.: 30635234

QC Batch: 627023	Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1	Analysis Description: 903.1 Radium-226
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30635234001

METHOD BLANK: 3056434 Matrix: Water

Associated Lab Samples: 30635234001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.248 (0.505) C:NA T:76%	pCi/L	11/20/23 11:50	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 23-299-0006
 Pace Project No.: 30635234

QC Batch: 627025	Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0	Analysis Description: 904.0 Radium 228
	Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30635234001

METHOD BLANK: 3056435 Matrix: Water

Associated Lab Samples: 30635234001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0755 ± 0.191 (0.477) C:120% T:76%	pCi/L	11/10/23 14:28	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 23-299-0006
Pace Project No.: 30635234

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.

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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107A Northside Office Park Drive, Andalusia, AL 36421
 Main 334-343-9799
 www.waypointanalytical.com

10/30/2023 13:54:03

Export Batch Report

Export Batch Id : 695EXP

Created: 10/30/2023 13:52:49
Computer: WPALMS-161
User: Consuelo C Bradley
Project Manager: Consuelo C Bradley

To: Pace Analytical Services-Pittsburgh
 1638 Roseytown Road / Suites 2,3 & 4
 Greensburg, PA 15601
 724-850-5613

From: Waypoint Analytical, LLC (Andalusia)
 107A Northside Office Park Drive
 Andalusia, AL 36421
 334-343-9799

<u>Report No</u>	<u>Due Date</u>	<u>Sample Date</u>	<u>Customer Sample No</u>	<u>Rush Matrix Lab No</u>	<u>Method No</u>	<u>Fee Code</u>	<u>Description</u>
23-299-0006	11/27/2023	10/26/2023 10:26	TW-1	AQU	89546 EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	001
23-299-0006	11/27/2023	10/26/2023 10:26	TW-1	AQU	89546 EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	

WO# : 30635234



Sampled By	Method of Shipment	Blank / Cooler Temp.
Client		
Remarks		
Relinquished By (sign) <i>Consuelo Bradley</i>	Date / Time 10/30/2023 15:00	Received By (sign) <i>[Signature]</i>
Relinquished By (sign)	Date / Time	Received By (sign)
		10/31/23 10:25

Received by Pace Greensburg
 Therm ID 17 Corr Factor +/- 0.1
 Receipt Temp 22.9
 Corrected Temp 22.9
 Correct Preservation 0.0

DC#_Title: ENV-FRM-GBUR-0088 v06_Sample Condition Upon Receipt-
Pittsburgh



WO#: 30635234

Effective Date: 09/20/2023

PM: NMY

Due Date: 11/21/23

Client Name: Waypoint

CLIENT: WAYPOINT-AL

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Initial / Date

Tracking Number: 129407450145879464

Examined By: JH 11/11/23
Labeled By: JH 11/11/23
Temped By: JH 10/31/23

Custody Seal on Cooler/Box Present: Yes No
Seals Intact: Yes No
Thermometer Used: 17 Type of Ice: Wet Blue None

Cooler Temperature: Observed Temp 3.9 °C Correction Factor: -0.1 °C Final Temp: 3.8 °C
Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot#	D.P.D. Residual Chlorine Lot #
				LKS-4801	
Chain of Custody Present	✓				
Chain of Custody Filled Out: -Were client corrections present on COC	✓	✓			
Chain of Custody Relinquished	✓				
Sampler Name & Signature on COC:	✓	✓			
Sample Labels match COC: -Includes date/time/ID Matrix:	✓				
Samples Arrived within Hold Time:	✓				
Short Hold Time Analysis (<72hr remaining):		✓			
Rush Turn Around Time Requested:		✓			
Sufficient Volume:	✓				
Correct Containers Used: -Pace Containers Used	✓	✓			
Containers Intact:	✓				
Orthophosphate field filtered:			✓		
Hex Cr Aqueous samples field filtered:			✓		
Organic Samples checked for dechlorination			✓		
Filtered volume received for dissolved tests:			✓		
All containers checked for preservation: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	✓				
All containers meet method preservation requirements:	✓			Initial when completed JH	Date/Time of Preservation
8260C/D: Headspace in VOA Vials (> 6mm)			✓		
624.1: Headspace in VOA Vials (0mm)			✓		
Trip Blank Present:			✓		Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed JH	Date: 10/31/23 Survey Meter SN: 25014380
Comments:					

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office. PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Shipment Receipt Form

Customer Number: **00001**
 Customer Name: **CDG Engineers Associates**
 Report Number: **23-299-0006**

Shipping Method

Fed Ex US Postal Lab Other :
 UPS Client Courier Thermometer ID:

Shipping container/cooler uncompromised?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Number of coolers/boxes received	<input type="text" value="1"/>		
Custody seals intact on shipping container/cooler?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Custody seals intact on sample bottles?	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> Not Present
Chain of Custody (COC) present?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC agrees with sample label(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
COC properly completed	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Samples in proper containers?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sample containers intact?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Sufficient sample volume for indicated test(s)?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
All samples received within holding time?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler temperature in compliance?	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	<input checked="" type="radio"/> Yes	<input type="radio"/> No	
Water - Sample containers properly preserved	<input checked="" type="radio"/> Yes	<input type="radio"/> No	<input type="radio"/> N/A
Water - VOA vials free of headspace	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Trip Blanks received with VOAs	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
Soil VOA method 5035 – compliance criteria met	<input type="radio"/> Yes	<input type="radio"/> No	<input checked="" type="radio"/> N/A
<input type="checkbox"/> High concentration container (48 hr)		<input type="checkbox"/> Low concentration EnCore samplers (48 hr)	
<input type="checkbox"/> High concentration pre-weighed (methanol -14 d)		<input type="checkbox"/> Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	<input type="radio"/> Yes	<input checked="" type="radio"/> No	

Comments:

Signature:

Date & Time:

APPENDIX I
WELL ABANDONMENT AND REINSTALLATION
REPORT - OCTOBER 2023



POWERSOUTH
ENERGY COOPERATIVE

Charles R. Lowman Power Plant Leroy, Alabama



Well Abandonment and Reinstallation Report

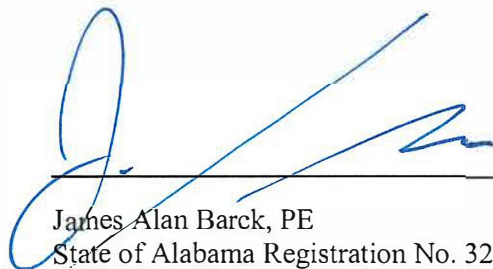
October 2023



CDG, Inc.
11 West Court Square
Andalusia, AL 36420

CERTIFICATION PAGE

“I certify under penalty of law that I am a registered professional engineer experienced in hydrogeologic investigations and remediation. The activities discussed in the following Monitoring Well Abandonment and Reinstallation Report are, in my opinion, appropriate for compliance with the regulatory requirements under 40 CFR 257.90 and ADEM 335-13-15-.06 as they apply to the former Charles R. Lowman Power Plant facility. The information submitted herein, to the best of my knowledge and belief, is true accurate, and complete. I am aware that there are significant penalties for submitting false information.”


James Alan Barck, PE
State of Alabama Registration No. 32719

10-5-23
Date



PURPOSE

The purpose of the following report is to detail the procedures that were undertaken to relocate two of the monitoring wells associated with the Coal Combustion Residuals (CCR) impoundments located at the former Charles R. Lowman Power Plant near Leroy, Washington County, Alabama. The relocation of these wells was necessary due to conflicts between their current location and infrastructure that was necessary to support the newly redeveloped Lowman Energy Center facility operations.

BACKGROUND INFORMATION

The CCR waste management unit associated with the former Charles R. Lowman Power Plant consists of three impoundments (Unit 1 Ash Pond, Unit 2/3 Ash Pond, and FGD Waste Pond) used for the storage of coal ash and flue-gas desulfurization (FGD) waste from the historical coal fired operations at the plant. Coal-fired operations were ceased at the Lowman facility in October 2020. As required under 40 CFR 257 and ADEM Administrative Code 335-13-15 the CCR management unit is currently undergoing compliance groundwater monitoring. The groundwater monitoring network currently consists of 31 2-inch monitoring wells (Figure 1). Groundwater sampling of the well network is conducted on a semi-annual basis.

As part of the redevelopment of the facility, it was determined necessary, due to age-related structural safety concerns, to replace the current bridge spanning a lowland area on PowerSouth property along the approach to the new Lowman Energy Center facility (Figure 2). The new bridge will be constructed immediately adjacent to the existing span (Figure 2). The locations of monitoring wells MW-2 and MW-4 unfortunately conflicted with the limited area available for the routing of the new bridge. To alleviate these conflicts, it was necessary to relocate these two monitoring wells outside of the bridge construction area. This involved abandoning monitoring wells MW-2 and MW-4 and re-installing replacement wells in close proximity to those locations. Prior to relocation of the monitoring wells, PowerSouth prepared and submitted a plan for these activities for review by the Alabama Department of Environmental Management (ADEM) Land

Division. PowerSouth received concurrence for the planned activities from the Land Division on June 29, 2023.

MONITORING WELL ABANDONMENT

The abandonment of monitoring wells MW-2 and MW-4 occurred on July 17, 2023. Each of the monitoring wells was properly abandoned in accordance with the requirements detailed in ADEM Admin Code 335-13-15-.06(2)(g).

Well pads, manways and all above-ground structures associated with wells MW-2 and MW-4 were removed. A truck mounted drilling rig was used to extract all removable casing from each well using a mechanical casing puller. The remaining well bore was then grouted to within 2 feet of the surface using tremie pipe pressure-grouting methods. The remaining portion of the borehole was finished to grade with native materials to match the surrounding surface conditions. Diagrams providing details of the abandoned wells MW-2 and MW-4 are attached.

All debris generated during the well abandonment activities was managed as industrial construction waste and placed in waste service containers for off-site disposal at a permitted landfill facility.

MONITORING WELL INSTALLATION

The replacement monitoring wells MW-2R and MW-4R were installed on July 18, 2023, at the approved locations shown in Figure 2. These locations were selected as being the closest available points that were outside of the area expected to be subjected to disturbance and vehicular traffic during the bridge construction process. The final grade of the bridge landing areas was also taken into consideration as it was not desirable to have wells located on or immediately at the base of a slope due to potential erosion and surface water accumulation issues.

The target depth and construction of MW-2R and MW-4R were designed so that they would intercept the equivalent zone(s) currently being sampled by the previous wells MW-2 and MW-4. Monitoring well MW-2R was installed to a depth of approximately 31.60 feet below ground level (-1.5 ft-msl) and MW-4R was installed to an approximate depth of 25.82 feet below ground level (6.74 ft-msl). The bottom elevations for the previous wells MW-2 and MW-4 were 1.71 ft -msl and 8.08 ft-msl respectively. Copies of the well completion logs for MW-2R and MW-4R are attached.

Well installations were conducted in accordance with the procedures for completion of Type II monitoring wells as provided in the February 2017 AEIRG document and as also detailed in the facility Groundwater Sampling and Analysis Plan. A truck-mounted drilling rig was used to advance hollow stem augers to a depth equivalent to the bottom elevation of the previous monitoring wells MW-2 and MW-4. At that depth, a 15-foot section of pre-slotted 2-inch ID PVC well screen was emplaced through the center of the drill string along with enough solid PVC casing to extend above the ground surface.

Hydrogeologic studies conducted at the Lowman facility along with the historical groundwater elevation data from the monitoring well network show that the seasonal groundwater levels fluctuate over a range of 12 to 15 feet throughout the year. The previous wells were screened in a manner to accommodate this range of fluctuations and allow the groundwater within the wells to remain in equilibrium with the aquifer. A 15-foot section of screen was considered to be appropriate for the replacement wells to accommodate the seasonal groundwater fluctuations at the site.

Prior to removal of the drill string, a filter pack consisting of 20/40 environmental grade sand was emplaced to a level of two feet above the top of the screened interval. A borehole seal consisting of hydrated bentonite chips was emplaced to a thickness of two feet above the filter pack. After removal of the drill string, the remainder of the borehole annulus was grouted to the surface with a bentonite/ Portland cement slurry.

After allowing for settlement and curing of the grout, the well was completed at the surface with a standing manway set into a 2' x 2' concrete pad. The manway is equipped with a locking lid and steel bollards were installed to protect the well from damage. The well was properly developed to the point of groundwater clarity and will be equipped with a dedicated pneumatic bladder pump for proper sampling in accordance with the current compliance monitoring program. The top-of-casing elevation was established relative to mean sea level to facilitate the correlation of measured water levels with those from other wells in the compliance monitoring network.

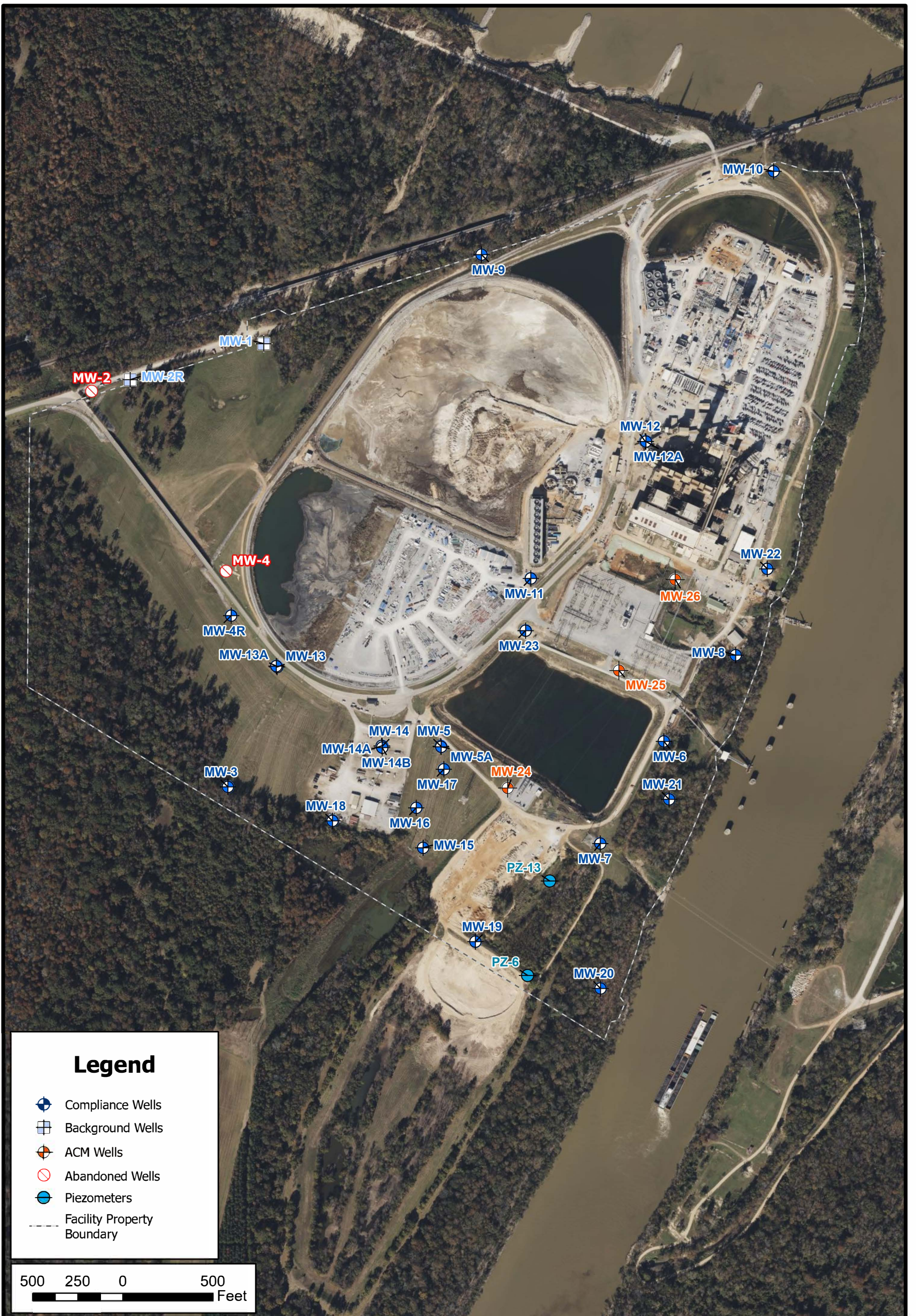
UPDATING SITE SAMPLING AND ANALYSIS PLAN

The location and construction details of the replacement wells MW-2R and MW-4R will be included in a revised version of the facility Groundwater Sampling and Analysis Plan. A copy of the revised plan will be placed in the facility operating record.

RECORD KEEPING AND REPORTING

Details of the well abandonment and reinstallation activities, as described above, will be included in the Annual Groundwater Monitoring Report to be prepared in January 2024.

FIGURES



Legend

-  Compliance Wells
-  Background Wells
-  ACM Wells
-  Abandoned Wells
-  Piezometers
-  Facility Property Boundary

500 250 0 500
 Feet

Figure 1 - Site Map: Well Locations

Charles R. Lowman Power Plant
 Leroy, AL



Drawn By: GAM

Checked by: JAB

Date: September 2023

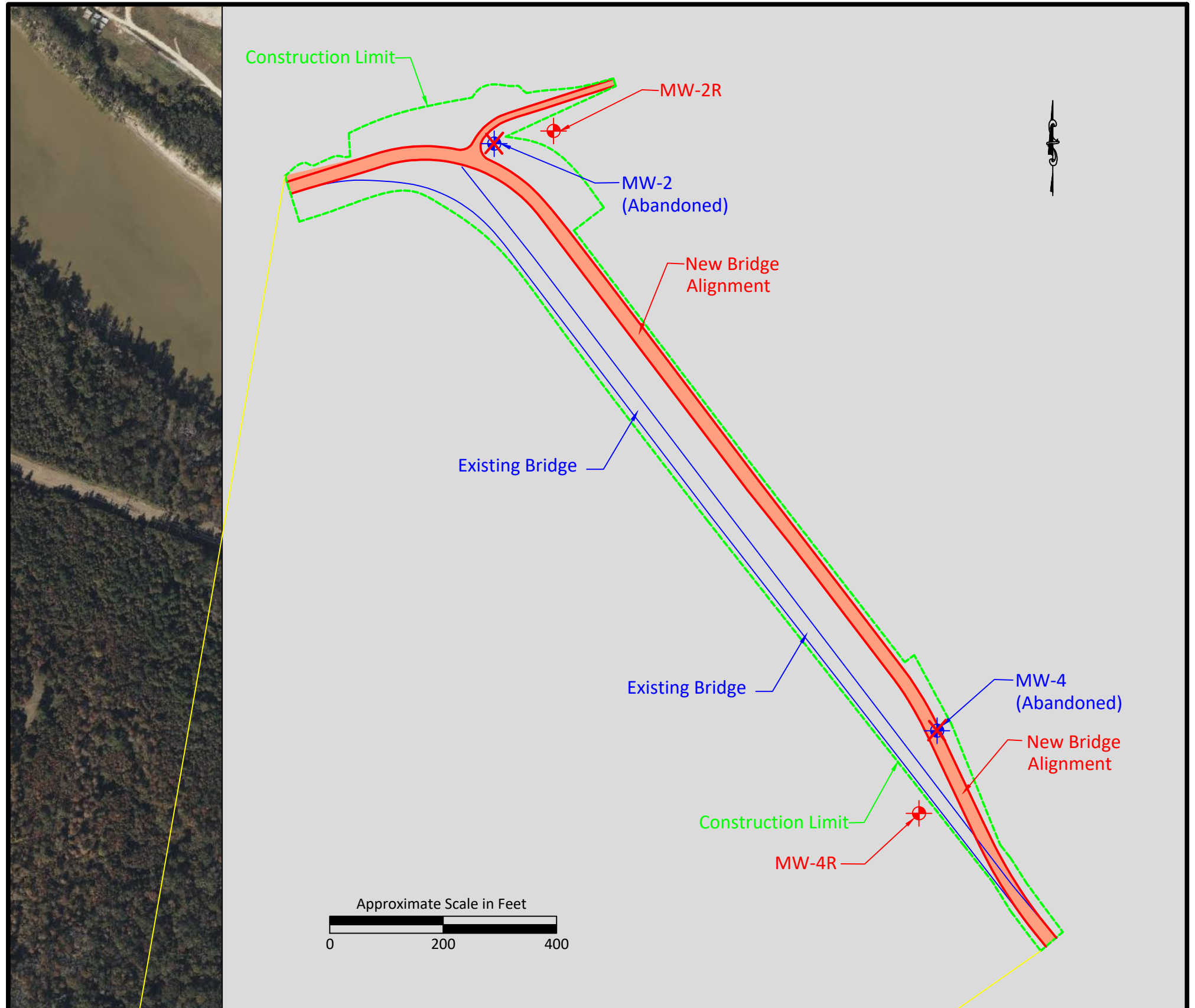
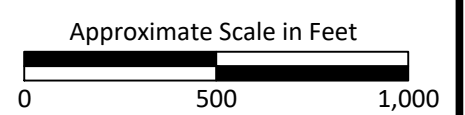


Figure 2
Well Replacement Map

Former Charles R. Lowman Power Plant
Power South Energy Cooperative
Leroy, Washington County, AL



MW-2 AND MW-4 WELL ABANDONMENT LOGS

BOREHOLE LOG



1840 E. Three Notch Street
Andalusia, Alabama 36420
(334) 222-9431

Job Number: R021222634	Client: PowerSouth	Sheet 1 of 1
Project: Monitoring Well Relocation	Ground Elevation: 35.26	Casing Elev.:
Location: Former Lowman Power Plant	Groundwater Elevation: 17.62	
Hole Number: MW-2 (Abandoned)	Datum Elevation: MSL	
Driller: Andy Jones	Size and Type of Auger:	
Total Depth of Boring: 36'	Size and Type of Sampler:	
Log Prepared By: Alan Barck	Date Started: 07-17-23	Date Completed: 07-17-23
Remarks:	Total Core Recovery:	

Transducer Level	Well Construction	Depth (Feet)	Water Levels	Recovered Lithology Interval	Description of Materials	USCS
		0			Native Soil	
		0		0 - 15.5	Sand with gravel, light reddish-brown, loose, 20% 1/4" - 1/2" gravel (fill material)	SP
		5		15.5 - 20.0	Gravelly sand with interbedded gravelly clayey sand, fill, loose to cohesive, light reddish-brown	SP
		10		20.0 - 25.5	Gravelly sand, very coarse-grained, loose, light reddish-brown, fill, dark sandy clay in shoe of sampler with deep reddish-brown clayey sand below, moist	SP
		15		25.5 - 28.0	Silty clay, dark gray, plastic, <2% sand content, wet, massive	CL
		20	17.62	28.0 - 30.0	Clay, gray with reddish-brown mottling, massive, plastic, <2% sand content, wet	CL
		25		30.0 - 31.0	Sandy clay grading to clayey sand at 25.5 ft., gray mottled reddish-brown grading to reddish-brown mottled gray, massive, 10% medium-grained sand at top of core and 70 to 80% at base, wet	CL SC
		30		31.0 - 35.0	Sand, fine-grained, loose, light brown, saturated	SP
		35				

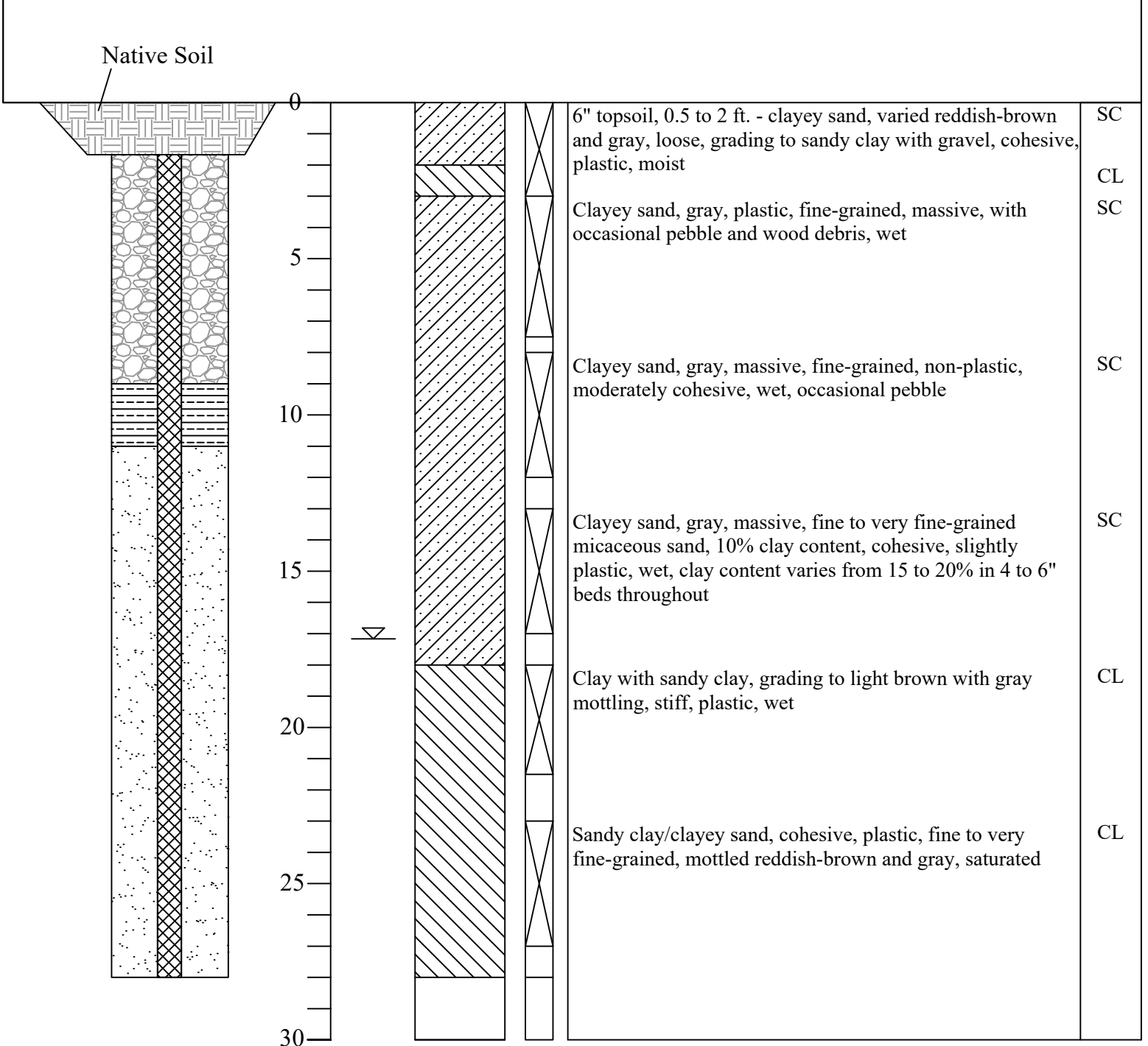
BOREHOLE LOG



1840 E. Three Notch Street
Andalusia, Alabama 36420
(334) 222-9431

Job Number: R021222634	Client: PowerSouth	Sheet 1 of 1
Project: Monitoring Well Relocation	Ground Elevation: 36.62	Casing Elev.:
Location: Former Lowman Power Plant	Groundwater Elevation: 19.28	
Hole Number: MW-4 (Abandoned)	Datum Elevation: MSL	
Driller: Andy Jones	Size and Type of Auger:	
Total Depth of Boring: 28'	Size and Type of Sampler:	
Log Prepared By: Alan Barck	Date Started: 07-17-23	Date Completed: 07-17-23
Remarks:	Total Core Recovery:	

Transducer Level	Well Construction	Depth (Feet)	Water Levels	Recovered Lithology Interval	Description of Materials	USCS
------------------	-------------------	--------------	--------------	------------------------------	--------------------------	------



**BOREHOLE AND COMPLETION LOGS
MW-2R AND MW-4R**

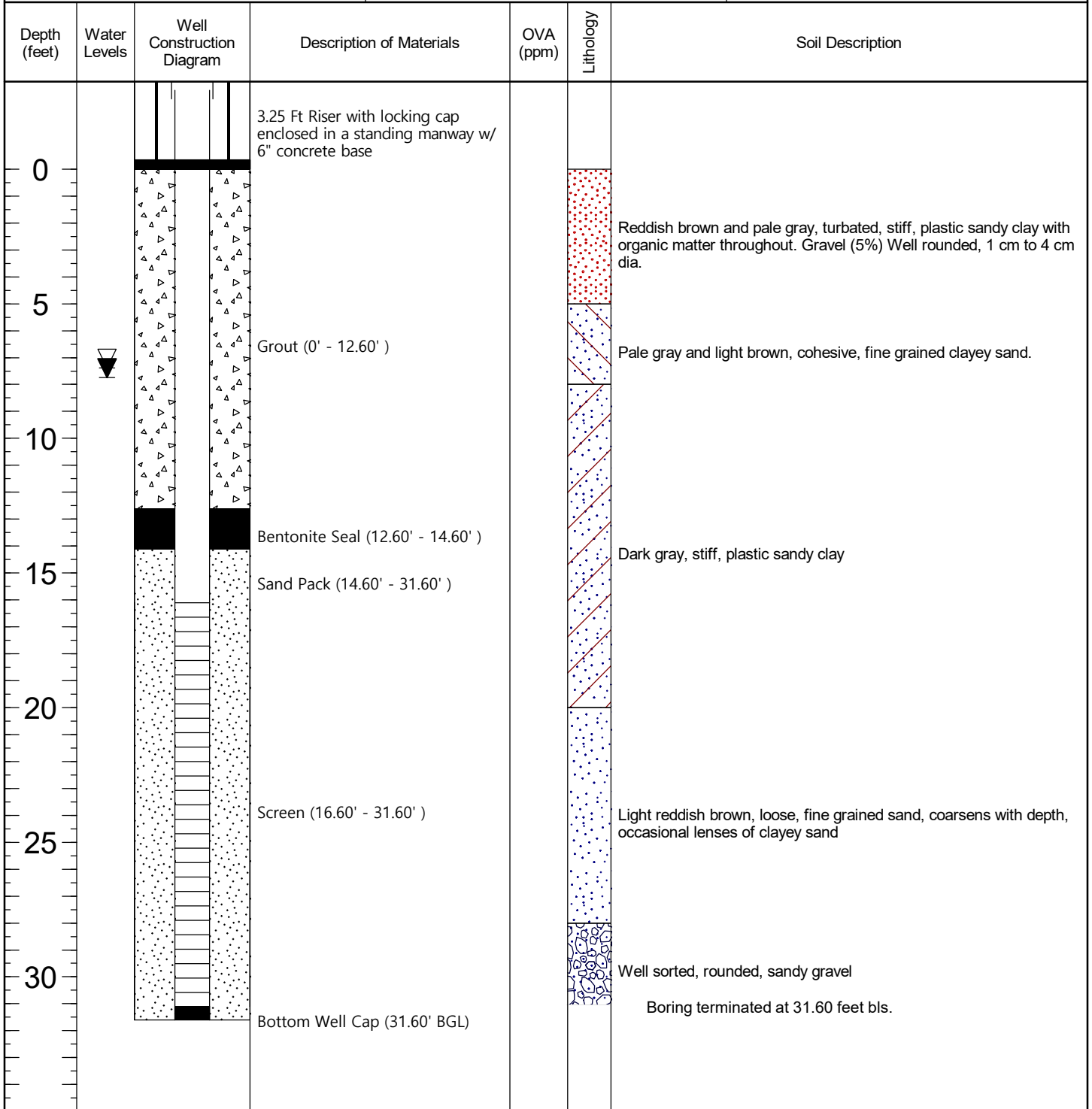


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BORING AND WELL COMPLETION LOG

BORING / WELL ID MW-2R

Project Number: <u>R021222634</u>	Ground Elevation (ft.): <u>30.10</u>	Depth Drilled Into Rock (ft.): <u>N/A</u>
Project Name: <u>Lowman Compliance</u>	Groundwater Elevation (ft.): <u>23.21</u>	Total Depth of Boring (ft.): <u>31.60</u>
Project Location: <u>Leroy, Alabama</u>	Casing Elevation (ft.): <u>33.35</u>	Auger Size ID (in.): <u>4.25"</u>
Log Prepared By: <u>Grant Marcum</u>	Datum Elevation: <u>MSL</u>	Auger Size OD (in.): <u>8.25"</u>
Driller: <u>Andy Jones - CDG</u>	Well Type: <u>Type II</u>	Type of Sampler: <u>5 ft Split Spoon</u>
Drilling Method: <u>HSA</u>	Well Diameter (in.): <u>2</u>	Date Started: <u>7/18/2023</u>
▼ - Groundwater at Time of Drilling	Screen Size (in.): <u>0.01" Slotted PVC</u>	Date Completed: <u>7/18/2023</u>
▽ - Groundwater at Time of Sampling	Screen Interval (ft.): <u>16.60' - 31.60' BGL</u>	Remarks: _____





www.cdge.com

BORING AND WELL COMPLETION LOG

BORING / WELL ID MW-4R

Project Number: <u>R021222634</u>	Ground Elevation (ft.): <u>32.56</u>	Depth Drilled Into Rock (ft.): <u>N/A</u>
Project Name: <u>Lowman Compliance</u>	Groundwater Elevation (ft.): <u>23.74</u>	Total Depth of Boring (ft.): <u>26.32</u>
Project Location: <u>Leroy, Alabama</u>	Casing Elevation (ft.): <u>35.64</u>	Auger Size ID (in.): <u>4.25"</u>
Log Prepared By: <u>Grant Marcum</u>	Datum Elevation: <u>MSL</u>	Auger Size OD (in.): <u>8.25"</u>
Driller: <u>Andy Jones - CDG</u>	Well Type: <u>Type II</u>	Type of Sampler: <u>5 ft Split Spoon</u>
Drilling Method: <u>HSA</u>	Well Diameter (in.): <u>2</u>	Date Started: <u>7/18/2023</u>
▼ - Groundwater at Time of Drilling	Screen Size (in.): <u>0.01" Slotted PVC</u>	Date Completed: <u>7/18/2023</u>
▽ - Groundwater at Time of Sampling	Screen Interval (ft.): <u>10.82' - 25.82' BGL</u>	Remarks: _____

