2023 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

PREPARED FOR:
PowerSouth Energy Cooperative
Andalusia, Alabama

DATE
July 2023

PREPARED BY:
CDG, Inc.
11 W Court Square
Andalusia, AL 36420

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 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

7-25-23
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 June 30, 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 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-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 June 30, 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 June 2023, a semi-annual groundwater monitoring event was 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. 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 Facility Sampling and Analysis Plan (CDG, 2020). 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 an additional down gradient well (TW-1) at the property boundary beyond MW-3. The initial results of the groundwater sample 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 G. 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 has been 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 will be 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 would involve abandoning the existing monitoring wells MW-2 and MW-4 and re-installing replacement wells as near as feasible to the current 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 are currently on-going and will be detailed in the Annual Groundwater Monitoring report to be submitted in January 2024.

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 Facility Sampling and Analysis Plan (CDG, 2020).

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 downgradient of the CCR management units at the facility are compared to the concentrations of these constituents in the background monitoring wells MW-1 and MW-2 using the statistical procedures detailed in the facility Statistical Analysis Plan (GSC, 2020).

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 SSIs for several of the Appendix III constituents in one or more of the downgradient 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
- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromium
- Cobalt
- Flouride
- Lead
- Lithium
- Mercury
- Molybdenum
- Selenium
- Thallium
- Combined Radium-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 Facility Statistical Analysis Plan. (GSC, 2020). The results of the current background calculations

are included in Appendix H.

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 Facility Statistical Analysis Plan. (GSC, 2020) 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 September 2021 are reflected in Table 3.

As shown in Table 5, 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 event was conducted at the Lowman facility during April 2023. Sampling activities were delayed due to high water 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. 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, 2023, are shown in Figure 3.

During the semi-annual event, 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 D and Appendix E. A summary of the current and historical stabilized groundwater field parameters for each well is provided in Table 2.

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 submitted groundwater samples are summarized in Table 2 and the analytical laboratory reports for the spring 2023 semi-annual event are included in Appendix F and Appendix G. As shown in Table 3, the analyses indicated detectable concentrations of each of the Appendix IV constituents in one or more of the groundwater samples submitted from the April 2023 event. The reported concentrations of the Appendix IV constituents (arsenic, cobalt, and lithium) detected in each of the site monitoring wells are illustrated in Figures 4A, 4B, and 4C.

7.0 ASSESSMENT MONITORING RESULTS

7.1 Groundwater Movement

Based on water level measurements taken on April 18, 2023, interpreted potentiometric surface maps for the alluvial aquifer beneath the Lowman facility were constructed and are illustrated in Figure 3. As can be seen in this figure, 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 Spring 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 Spring 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 downgradient monitoring wells has been conducted with respect to the established GWPS. The evaluation of the downgradient groundwater concentrations was performed by Groundwater Stats Consulting (GSC) in accordance with the methods detailed in the Lowman Power Plant Statistical Analysis Plan (GSC, 2020). 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 downgradient wells. A statistically significant level (SSL) is indicated if the limits of the confidence interval constructed for each well/constituent pair falls 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 H.

Based on this evaluation, and as summarized in Table 5, 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-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 Spring 2023 sampling event, 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 downgradient 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 along the property boundary to the south of MW-3. The initial groundwater analytical results from this sampling 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.

CDG, 2019b. 2019 Annual Groundwater Monitoring Report - Charles R. Lowman Power Plant, Leroy, Washington County Alabama; CDG Engineers and Associates, Inc.; 322 pp.

CDG, 2020. Groundwater Sampling and Analysis Plan (Revised) – Charles R. Lowman Power Plant, Leroy, Washington County Alabama; CDG Engineers and Associates, Inc.; 184 pp.

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

EPA, 1996. Soil Screening Guidance: User's Guide, United States Environmental Protection Agency Publication 9355.4-23; 49 pp.

EPA, 2009. Statistical Analysis of Groundwater Monitoring data at RCRA Facilities Unified Guidance; EPA 530-R-09-007; 884 pp.

GSC, 2020. PowerSouth Energy Cooperative Lowman Power Plant Statistical Analysis Plan, Groundwater Stats Consulting, LLC; 122 pp.

TABLES

TABLE 1

2023 Semi-Annual Groundwater Monitoring Data

Charles R. Lowman Power Plant

Leroy, Alabama

Well/ Piezometer Number	Casing Elevation	Total Depth	Bottom Elevation	Water Level Measurements	
				4/18/2023	
	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl
MW-1 (BG)	29.17	24.30	4.87	6.20	22.97
MW-2 (BG)	38.18	36.47	1.71	17.37	20.81
MW-3*	28.55	24.58	3.97	6.69	21.86
MW-4	36.40	28.32	8.08	15.85	20.55
MW-5	37.41	29.35	8.06	16.29	21.12
MW-5A	37.23	39.02	-1.79	16.11	21.12
PZ-6	49.30	44.30	5.00	27.20	22.10
MW-6	30.14	29.26	0.88	9.45	20.69
MW-7	34.20	32.65	1.55	12.40	21.80
MW-8	32.91	37.68	-4.77	11.09	21.82
MW-9	32.63	29.01	3.62	5.91	26.72
MW-10	34.14	41.46	-7.32	14.61	19.53
PZ-13	34.56	37.45	-2.89	12.38	22.18
MW-11	45.29	43.10	2.19	22.81	22.48
MW-12	43.31	38.42	4.89	21.21	22.10
MW-12A	43.39	46.31	-2.92	21.46	21.93
MW-13	42.26	29.25	13.01	12.43	29.83
MW-13A	41.61	62.90	-21.29	20.82	20.79
MW-14	38.56	29.48	9.08	17.43	21.13
MW-14A	38.50	38.98	-0.48	17.14	21.36
MW-14B	38.64	64.00	-25.36	17.58	21.06
MW-15	31.51	33.18	-1.67	10.55	20.96
MW-16	34.70	42.23	-7.53	13.50	21.20
MW-17	36.23	41.70	-5.47	15.01	21.22
MW-18	32.64	53.03	-20.39	14.31	18.33
MW-19	50.76	53.13	-2.37	29.81	20.95
MW-20	30.01	33.41	-3.40	11.28	18.73
MW-21	30.00	36.45	-6.45	9.50	20.50
MW-22	30.24	33.55	-3.31	10.48	19.76
MW-23	38.86	43.85	-4.99	17.66	21.20
MW-24	40.84	53.08	-12.24	18.46	22.38
MW-25	39.65	51.12	-11.47	18.42	21.23
MW-26	33.94	42.35	-8.41	12.58	21.36
River Stage					17.80

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

TABLE 2
SEMI-ANNUAL 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 (Background)	4/11/2023	18.9	0.43	235	5.56	57.6	3.9
MW-2 (Background)	4/11/2023	21.5	0.40	55	4.57	246.0	4.6
MW-3	4/10/2023	17.4	0.46	64	4.75	104.1	3.8
MW-4	4/10/2023	20.4	0.42	1421	5.58	-38.7	2.0
MW-5	4/18/2023	21.4	0.35	770	6.09	-65.3	3.7
MW-5A	4/18/2023	21.9	0.38	781	5.93	0.6	0.4
MW-6	4/12/2023	18.5	0.62	401	5.68	147.7	4.3
MW-7	4/12/2023	20.4	0.75	357	6.05	106.9	2.1
MW-8	4/12/2023	20.4	0.38	322	6.53	-137.8	2.0
MW-9	4/11/2023	18.3	0.41	1238	6.08	-27.1	3.0
MW-10	4/12/2023	20.9	0.76	611	4.55	229.3	3.1
MW-11	4/12/2023	21.2	0.47	736	6.80	-12.1	1.3
MW-12	4/18/2023	21.2	3.91	831	6.10	183.0	1.4
MW-12A	4/18/2023	21.7	0.47	700	5.69	157.1	0.4
MW-13	4/10/2023	20.4	8.42	317	6.81	-93.1	4.0
MW-13A	4/11/2023	20.8	0.46	411	5.30	84.1	3.8
MW-14	4/13/2022	21.1	0.37	694	5.69	-22.8	4.4
MW-14A	4/13/2023	21.2	0.36	526	5.62	21.5	2.1
MW-14B	4/13/2023	19.6	0.69	470	5.82	-20.2	4.6
MW-15	4/10/2023	18.2	1.87	84	5.14	221.0	2.5
MW-16	4/12/2023	20.3	0.41	418	5.70	99.1	3.2
MW-17	4/12/2023	21.1	0.39	788	6.00	13.0	3.7
MW-18	4/12/2023	19.6	0.40	383	6.04	-81.9	3.9
MW-19	4/13/2023	19.8	0.46	193	5.33	161.2	0.9
MW-20	4/11/2023	19.6	0.39	418	6.06	-110.0	4.2
MW-21	4/11/2023	19.50	0.40	454	6.24	-88.3	4.8
MW-22	4/12/2023	21.3	0.38	573	6.20	-90.0	2.2
MW-23	4/18/2023	24.0	0.38	2071	6.61	-93.1	4.6
MW-24	4/13/2023	20.4	0.43	678	6.26	-58.6	2.2
MW-25	4/13/2023	22.2	0.39	1310	5.91	-57.1	4.2
MW-26	4/18/2023	21	8.38	405	6.50	204.7	4.2

TABLE 3
2023 Semi Annual Groundwater Monitoring Results
Charles R. Lowman Power Plant
Leroy, Alabama

			MW-1		MW-2		MW-3		MW-4	
	Sample Date		4/11/2023		4/11/2023		4/10/2023		4/10/2023	
Field Parameters	**Units**	**GWPS**								
pH	Std. Units	-	5.56		4.57		4.75		5.58	
Temperature	C°	-	18.9		21.5		17.4		20.4	
Conductivity	µS/Cm	-	235		55		64		1421	
Dissolved Oxygen	mg/L	-	0.43		0.40		0.46		0.42	
Turbidity	NTUs	-	3.9		4.6		3.8		2.0	
ORP	Mv	-	57.6		246.0		104.1		-38.7	
Appendix III										
Boron	mg/L	-	0.019		0.018		0.019		2.04	
Calcium	mg/L	-	33.2		3.41		6.57		210	
Chloride	mg/L	250	1.87		1.14		1.68		397	
Sulfate	mg/L	250	29.9		20.9		26.4		678	
TDS	mg/L	500	188		58.4		<25.2		1600	
Appendix IV										
Antimony	mg/L	0.006	<0.0010		<0.0010		<0.0010		<0.0010	
Arsenic	mg/L	0.010	0.0012		<0.0010		<0.0010		0.0212	
Barium	mg/L	2.0	0.117		0.064		0.092		0.05	
Beryllium	mg/L	0.004	<0.0010		<0.0010		<0.0010		0.0033	
Cadmium	mg/L	0.005	<0.0010		<0.0010		<0.0010		<0.0010	
Chromium	mg/L	0.100	<0.001		<0.001		<0.001		<0.001	
Cobalt	mg/L	0.013	0.007		0.01		0.021		0.58	
Fluoride	mg/L	4	<0.125		<0.125		<0.125		0.4	
Lead	mg/L	0.015	<0.0010		<0.0010		<0.0010		0.0013	
Lithium	mg/L	0.040	<0.008		<0.008		<0.008		<0.008	
Mercury	mg/L	0.002	<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		0.005	
Thallium	mg/L	0.002	<0.0010		<0.0010		<0.0010		<0.0010	
Radium-226	pCi/L	-	0.249		0.3620		0.1950		0.0690	
Radium-228	pCi/L	-	0.578		0.273		0.483		1.47	
Combined Radium	pCi/L	5	0.827		0.635		0.678		1.54	

TABLE 3
2023 Semi Annual Groundwater Monitoring Results
Charles R. Lowman Power Plant
Leroy, Alabama

			MW-5		MW-5A		MW-6		MW-7	
	Sample Date		4/18/2023		4/18/2023		4/12/2023		4/12/2023	
Field Parameters	**Units**	**GWPS**								
pH	Std. Units	-	6.09		5.93		5.68		6.05	
Temperature	C°	-	21.4		21.9		18.5		20.4	
Conductivity	µS/Cm	-	770		781		401		357	
Dissolved Oxygen	mg/L	-	0.35		0.38		0.62		0.75	
Turbidity	NTUs	-	3.7		0.4		4.3		2.1	
ORP	Mv	-	-65.3		0.6		147.7		106.9	
Appendix III										
Boron	mg/L	-	0.468		1.67		0.166		0.83	
Calcium	mg/L	-	90.6		102		75.5		65	
Chloride	mg/L	250	20.4		95.5		9.31		3.03	
Sulfate	mg/L	250	38.4		114		123		50	
TDS	mg/L	500	645		524		357		278	
Appendix IV										
Antimony	mg/L	0.006	<0.0010		<0.0010		<0.0010		<0.0010	
Arsenic	mg/L	0.010	0.0197		0.0037		<0.0010		<0.0010	
Barium	mg/L	2.0	0.172		0.078		0.045		0.084	
Beryllium	mg/L	0.004	<0.0010		<0.0010		<0.0010		<0.0010	
Cadmium	mg/L	0.005	<0.0010		<0.0010		<0.0010		<0.0010	
Chromium	mg/L	0.100	<0.001		<0.001		<0.001		<0.001	
Cobalt	mg/L	0.013	0.013		0.014		0.001		<0.001	
Fluoride	mg/L	4	<1.25		1.27		<0.125		1.98	
Lead	mg/L	0.015	<0.0010		<0.0010		<0.0010		<0.0010	
Lithium	mg/L	0.040	<0.008		0.053		<0.008		0.0784	
Mercury	mg/L	0.002	<0.00020		<0.00020		<0.00020		<0.00020	
Molybdenum	mg/L	0.100	0.001		0.085		<0.001		0.012	
Selenium	mg/L	0.050	0.003		<0.001		<0.001		<0.001	
Thallium	mg/L	0.002	<0.0010		<0.0010		<0.0010		<0.0010	
Radium-226	pCi/L	-	0.443		0.449		0.294		0.234	
Radium-228	pCi/L	-	1.04		0.847		0.413		1.08	
Combined Radium	pCi/L	5	1.48		1.30		0.707		1.31	

TABLE 3
2023 Semi Annual Groundwater Monitoring Results
Charles R. Lowman Power Plant
Leroy, Alabama

			MW-8		MW-9		MW-10		MW-11	
	Sample Date		4/12/2023		4/11/2023		4/12/2023		4/12/2023	
Field Parameters	**Units**	**GWPS**								
pH	Std. Units	-	6.53		6.08		4.55		6.80	
Temperature	C°	-	20.4		18.3		20.9		21.2	
Conductivity	µS/Cm	-	322		1238		611		736	
Dissolved Oxygen	mg/L	-	0.38		0.41		0.76		0.47	
Turbidity	NTUs	-	2.0		3.0		3.1		1.3	
ORP	Mv	-	-137.8		-27.1		229.3		-12.1	
Appendix III										
Boron	mg/L	-	0.26		5.04		0.537		1.05	
Calcium	mg/L	-	50		132		90.9		185	
Chloride	mg/L	250	13.8		131		83.4		33.8	
Sulfate	mg/L	250	<1.00		602		296		260	
TDS	mg/L	500	198		1200		563		634	
Appendix IV										
Antimony	mg/L	0.006	<0.0010		<0.0010		<0.0010		<0.0010	
Arsenic	mg/L	0.010	0.0125		0.0011		<0.0010		0.0028	
Barium	mg/L	2.0	0.072		0.049		0.03		0.036	
Beryllium	mg/L	0.004	<0.0010		<0.0010		<0.0010		<0.0010	
Cadmium	mg/L	0.005	<0.0010		<0.0010		<0.0010		<0.0010	
Chromium	mg/L	0.100	<0.001		<0.001		<0.001		<0.001	
Cobalt	mg/L	0.013	<0.001		<0.001		0.004		<0.001	
Fluoride	mg/L	4	0.225		0.14		<0.125		1.74	
Lead	mg/L	0.015	<0.0010		<0.0010		<0.0010		<0.0010	
Lithium	mg/L	0.040	<0.008		<0.008		0.016		0.043	
Mercury	mg/L	0.002	<0.00020		<0.00020		<0.00020		<0.00020	
Molybdenum	mg/L	0.100	<0.001		<0.001		<0.001		0.092	
Selenium	mg/L	0.050	<0.001		<0.001		0.001		<0.001	
Thallium	mg/L	0.002	<0.0010		<0.0010		<0.0010		<0.0010	
Radium-226	pCi/L	-	-0.0711		0.605		0.450		0.325	
Radium-228	pCi/L	-	0.310		0.755		0.533		1.53	
Combined Radium	pCi/L	5	0.310		1.36		0.983		1.86	

TABLE 3
2023 Semi Annual Groundwater Monitoring Results
Charles R. Lowman Power Plant
Leroy, Alabama

			MW-12		MW-12A		MW-13		MW-13A	
	Sample Date		4/18/2023		4/18/2023		4/10/2023		4/11/2023	
Field Parameters	**Units**	**GWPS**								
pH	Std. Units	-	6.10		5.69		6.81		5.30	
Temperature	C°	-	21.2		21.7		20.4		20.8	
Conductivity	µS/Cm	-	831		700		317		411	
Dissolved Oxygen	mg/L	-	3.91		0.47		8.42		0.46	
Turbidity	NTUs	-	1.4		0.4		4.0		3.8	
ORP	Mv	-	183.0		157.1		-93.1		84.1	
Appendix III										
Boron	mg/L	-	0.572		0.414		0.204		0.068	
Calcium	mg/L	-	139		90.5		53.8		27.6	
Chloride	mg/L	250	26.6		58		1.94			
Sulfate	mg/L	250	297		211		27.9		91.3	
TDS	mg/L	500	606		447		228			
Appendix IV										
Antimony	mg/L	0.006	<0.0010		<0.0010		<0.0010		<0.0010	
Arsenic	mg/L	0.010	<0.0010		<0.0010		0.0098		0.0081	
Barium	mg/L	2.0	0.035		0.028		0.096		0.151	
Beryllium	mg/L	0.004	<0.0010		<0.0010		<0.0010		<0.0010	
Cadmium	mg/L	0.005	<0.0010		<0.0010		<0.0010		<0.0010	
Chromium	mg/L	0.100	0.001		<0.001		<0.001		<0.001	
Cobalt	mg/L	0.013	<0.001		<0.001		0.002		0.011	
Fluoride	mg/L	4	<0.125		<0.125		0.13		<0.125	
Lead	mg/L	0.015	<0.0010		<0.0010		<0.0010		<0.0010	
Lithium	mg/L	0.040	<0.008		<0.008		<0.008		0.00949	
Mercury	mg/L	0.002	<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	0.008		0.001		<0.001		<0.001	
Thallium	mg/L	0.002	<0.0010		<0.0010		<0.0010		<0.0010	
Radium-226	pCi/L	-	0.171		0.797		0.464		0.485	
Radium-228	pCi/L	-	0.234		0.623		0.772		0.740	
Combined Radium	pCi/L	5	0.405		1.42		1.24		1.23	

TABLE 3
2023 Semi Annual Groundwater Monitoring Results
Charles R. Lowman Power Plant
Leroy, Alabama

			MW-14		MW-14A		MW-14B		MW-15	
	Sample Date		4/13/2023		4/13/2023		4/13/2023		4/10/2023	
Field Parameters	**Units**	**GWPS**								
pH	Std. Units	-	5.69		5.62		5.82		5.14	
Temperature	C°	-	21.1		21.2		19.6		18.2	
Conductivity	µS/Cm	-	694		526		470		84	
Dissolved Oxygen	mg/L	-	0.37		0.36		0.69		1.87	
Turbidity	NTUs	-	4.4		2.1		4.6		2.5	
ORP	Mv	-	-22.8		21.5		-20.2		221.0	
Appendix III										
Boron	mg/L	-	1.12		0.851		0.338		0.026	
Calcium	mg/L	-	102		97		48.3		9.78	
Chloride	mg/L	250	78.1		46.3		63.1		4.91	
Sulfate	mg/L	250	214		91		73.6		23.1	
TDS	mg/L	500	466		392		294		70	
Appendix IV										
Antimony	mg/L	0.006	<0.0010		<0.0010		<0.0010		<0.0010	
Arsenic	mg/L	0.010	0.014		0.0067		0.001		<0.0010	
Barium	mg/L	2.0	0.111		0.055		0.069		0.048	
Beryllium	mg/L	0.004	<0.0010		<0.0010		<0.0010		<0.0010	
Cadmium	mg/L	0.005	<0.0010		<0.0010		<0.0010		<0.0010	
Chromium	mg/L	0.100	<0.001		<0.001		<0.001		<0.001	
Cobalt	mg/L	0.013	0.059		0.035		<0.001		<0.001	
Fluoride	mg/L	4	<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	<0.008		0.0118		0.0834		<0.008	
Mercury	mg/L	0.002	<0.00020		<0.00020		<0.00020		<0.00020	
Molybdenum	mg/L	0.100	<0.001		<0.001		0.023		<0.001	
Selenium	mg/L	0.050	<0.001		<0.001		<0.001		<0.001	
Thallium	mg/L	0.002	<0.0010		<0.0010		<0.0010		<0.0010	
Radium-226	pCi/L	-	0.0730		0.703		0.148		0.0686	
Radium-228	pCi/L	-	0.258		0.613		1.18		0.622	
Combined Radium	pCi/L	5	0.331		1.32		1.33		0.691	

TABLE 3
2023 Semi Annual Groundwater Monitoring Results
Charles R. Lowman Power Plant
Leroy, Alabama

			MW-16		MW-17		MW-18		MW-19	
	Sample Date		4/12/2023		4/12/2023		4/12/2023		4/13/2023	
Field Parameters	**Units**	**GWPS**								
pH	Std. Units	-	5.70		6.00		6.04		5.33	
Temperature	C°	-	20.3		21.1		19.6		19.8	
Conductivity	µS/Cm	-	418		788		383		193	
Dissolved Oxygen	mg/L	-	0.41		0.39		0.40		0.46	
Turbidity	NTUs	-	3.2		3.7		3.9		0.9	
ORP	Mv	-	99.1		13.0		-81.9		161.2	
Appendix III										
Boron	mg/L	-	0.55		2.33		0.098		0.186	
Calcium	mg/L	-	59.3		115		43.9		26.5	
Chloride	mg/L	250	32.2		102		12.4		11.2	
Sulfate	mg/L	250	52.1		157		2.04		63.4	
TDS	mg/L	500	322		603		208		126	
Appendix IV										
Antimony	mg/L	0.006	<0.0010		<0.0010		<0.0010		<0.0010	
Arsenic	mg/L	0.010	0.0014		0.0569		0.0109		<0.0010	
Barium	mg/L	2.0	0.092		0.054		0.186		0.052	
Beryllium	mg/L	0.004	<0.0010		<0.0010		<0.0010		<0.0010	
Cadmium	mg/L	0.005	<0.0010		<0.0010		<0.0010		<0.0010	
Chromium	mg/L	0.100	<0.001		<0.001		<0.001		<0.001	
Cobalt	mg/L	0.013	0.006		0.016		<0.001		0.001	
Fluoride	mg/L	4	<0.125		1.43		<0.125		<0.125	
Lead	mg/L	0.015	<0.0010		<0.0010		<0.0010		<0.0010	
Lithium	mg/L	0.040	0.0344		0.0992		<0.008		0.0134	
Mercury	mg/L	0.002	<0.00020		<0.00020		<0.00020		<0.00020	
Molybdenum	mg/L	0.100	<0.001		0.089		<0.001		<0.001	
Selenium	mg/L	0.050	<0.001		<0.001		<0.001		<0.001	
Thallium	mg/L	0.002	<0.0010		<0.0010		<0.0010		<0.0010	
Radium-226	pCi/L	-	0.425		-0.254		-0.551		0.276	
Radium-228	pCi/L	-	0.561		0.0709		0.809		0.321	
Combined Radium	pCi/L	5	0.986		0.0709		0.809		0.597	

TABLE 3
2023 Semi Annual Groundwater Monitoring Results
Charles R. Lowman Power Plant
Leroy, Alabama

			MW-20		MW-21		MW-22		MW-23	
	Sample Date		4/11/2023		4/11/2023		4/12/2023		4/18/2023	
Field Parameters	**Units**	**GWPS**								
pH	Std. Units	-	6.06		6.24		6.20		6.61	
Temperature	C°	-	19.6		19.50		21.3		24.0	
Conductivity	µS/Cm	-	418		454		573		2071	
Dissolved Oxygen	mg/L	-	0.39		0.40		0.38		0.38	
Turbidity	NTUs	-	4.2		4.8		2.2		4.6	
ORP	Mv	-	-110.0		-88.3		-90.0		-93.1	
Appendix III										
Boron	mg/L	-	0.064		0.276		0.099		8.68	
Calcium	mg/L	-	47		80.1		124		396	
Chloride	mg/L	250	5.15		19.9		11.6		299	
Sulfate	mg/L	250	14.5		38.9		1.42		983	
TDS	mg/L	500	210		312		402		1950	
Appendix IV										
Antimony	mg/L	0.006	<0.0010		<0.0010		<0.0010		<0.0100	
Arsenic	mg/L	0.010	0.0259		0.0055		0.0024		0.186	
Barium	mg/L	2.0	0.122		0.09		0.139		0.042	
Beryllium	mg/L	0.004	<0.0010		<0.0010		<0.0010		<0.0100	
Cadmium	mg/L	0.005	<0.0010		<0.0010		<0.0010		<0.0100	
Chromium	mg/L	0.100	<0.001		<0.001		<0.001		<0.010	
Cobalt	mg/L	0.013	0.003		0.001		<0.001		<0.010	
Fluoride	mg/L	4	<0.125		<1.25		<0.125		2.020	
Lead	mg/L	0.015	<0.0010		<0.0010		<0.0010		<0.0100	
Lithium	mg/L	0.040	<0.008		<0.008		<0.008		0.165	
Mercury	mg/L	0.002	<0.00020		<0.00020		<0.00020		<0.00020	
Molybdenum	mg/L	0.100	<0.001		<0.001		<0.001		0.123	
Selenium	mg/L	0.050	<0.001		<0.001		<0.001		<0.010	
Thallium	mg/L	0.002	<0.0010		<0.0010		<0.0010		<0.0100	
Radium-226	pCi/L	-	0.116		0.393		0.510		0.551	
Radium-228	pCi/L	-	0.0930		0.382		0.496		0.721	
Combined Radium	pCi/L	5	0.209		0.775		1.01		1.27	

TABLE 3
2023 Semi Annual Groundwater Monitoring Results
Charles R. Lowman Power Plant
Leroy, Alabama

			MW-24		MW-25		MW-26	
	Sample Date		4/13/2023		4/13/2023		4/18/2023	
Field Parameters	**Units**	**GWPS**						
pH	Std. Units	-	6.26		5.91		6.50	
Temperature	C°	-	20.4		22.2		21	
Conductivity	µS/Cm	-	678		1310		405	
Dissolved Oxygen	mg/L	-	0.43		0.39		8.38	
Turbidity	NTUs	-	2.2		4.2		4.2	
ORP	Mv	-	-58.6		-57.1		204.7	
Appendix III								
Boron	mg/L	-	1.83		9.05		0.265	
Calcium	mg/L	-	122		261		61.6	
Chloride	mg/L	250	75.4		232		3.19	
Sulfate	mg/L	250	214		708		44	
TDS	mg/L	500	543		1360		263	
Appendix IV								
Antimony	mg/L	0.006	<0.0010		<0.0010		<0.0010	
Arsenic	mg/L	0.010	0.0033		0.0146		0.0011	
Barium	mg/L	2.0	0.121		0.036		0.096	
Beryllium	mg/L	0.004	<0.0010		<0.0010		<0.0010	
Cadmium	mg/L	0.005	<0.0010		<0.0010		<0.0010	
Chromium	mg/L	0.100	<0.001		<0.001		0.001	
Cobalt	mg/L	0.013	0.004		0.001		<0.001	
Fluoride	mg/L	4	1.11		0.719		0.144	
Lead	mg/L	0.015	<0.0010		<0.0010		<0.0010	
Lithium	mg/L	0.040	0.0744		0.127		<0.008	
Mercury	mg/L	0.002	<0.00020		<0.00020		<0.00020	
Molybdenum	mg/L	0.100	0.008		0.093		0.006	
Selenium	mg/L	0.050	<0.001		<0.001		0.014	
Thallium	mg/L	0.002	<0.0010		<0.0010		<0.0010	
Radium-226	pCi/L	-	0.0634		0.204		0.284	
Radium-228	pCi/L	-	0.700		1.31		0.559	
Combined Radium	pCi/L	5	0.763		1.51		0.843	

TABLE 4
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	0.0024	**0.010**
Barium, Total	2	0.14	**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	0.14	**4.000**
Lead	0.015	0.0013	**0.015**
Lithium	0.04	0.005	**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	1.49	**5.000**

**MCL = Maximum Contaminant Level*

Table 5
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	0.02847	0.06018	8	0.01	0.990
	MW-20	0.010	0.02461	0.03969	8	0.01	0.990
	MW-23	0.010	0.1612	0.3038	8	0.01	0.990
Cobalt							
	MW-3	0.013	0.0206	0.02972	8	0.01	0.990
	MW-4	0.013	0.7223	0.9472	8	0.01	0.990
	MW-14A	0.013	0.03199	0.08221	8	0.01	0.990
	MW-17	0.013	0.015	0.03	8	0.004	0.996
	MW-14	0.013	0.0149	0.08909	8	0.01	0.990
	MW-5	0.013	0.01317	0.02768	8	0.01	0.990
Lithium							
	MW-5A	0.040	0.05068	0.07235	8	0.01	0.990
	MW-7	0.040	0.09089	0.06928	8	0.01	0.990
	MW-11	0.040	0.04335	0.06325	8	0.01	0.990
	MW-17	0.040	0.06744	0.113	8	0.01	0.990
	MW-23	0.040	0.135	0.174	8	0.004	0.996
	MW-24	0.040	0.05366	0.2208	6	0.01	0.990
	MW-25	0.040	0.1073	0.1763	6	0.01	0.990

FIGURES

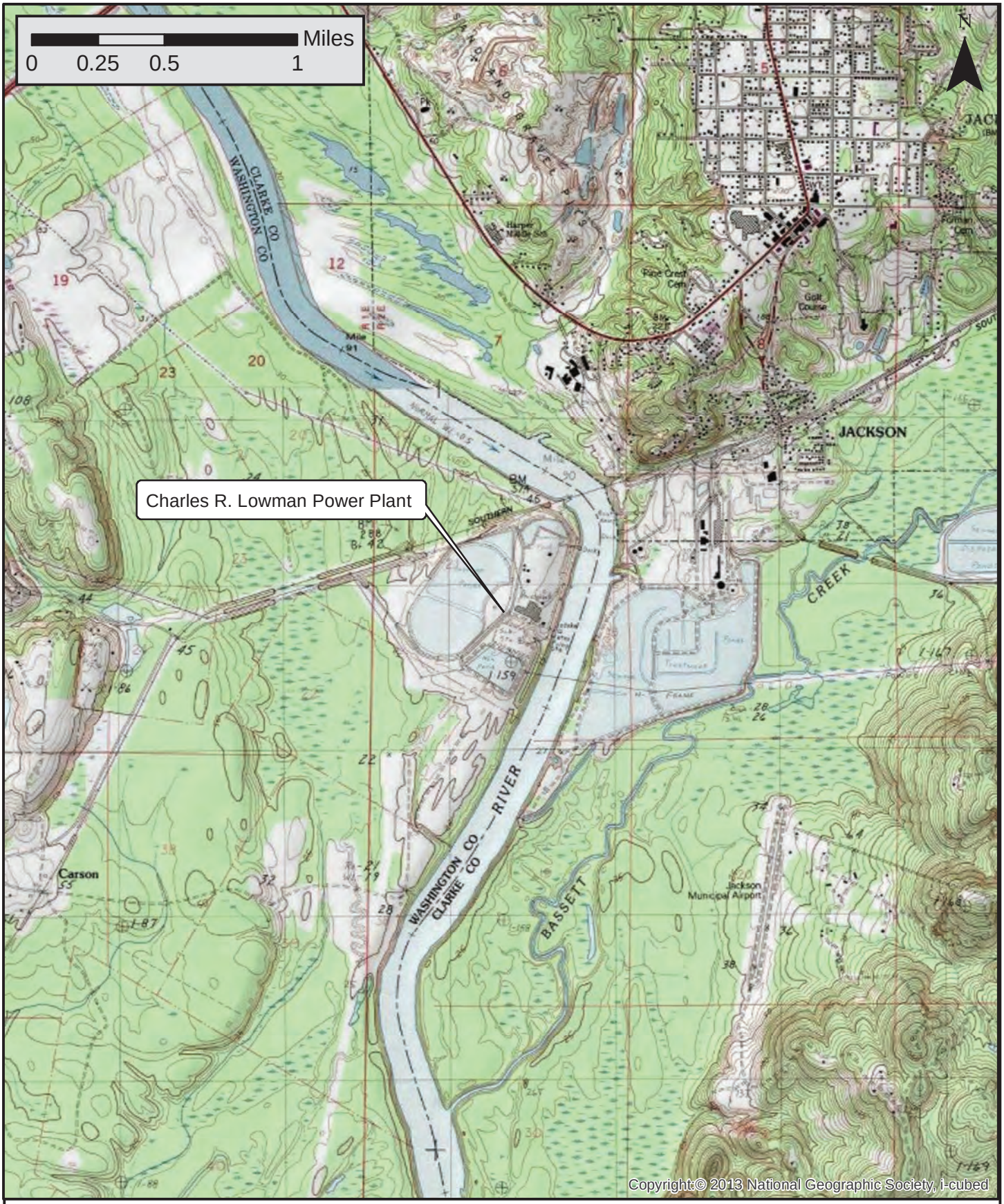

FIGURE 1 - SITE LOCATION MAP

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

CDG
Engineering. Environmental. Answers.

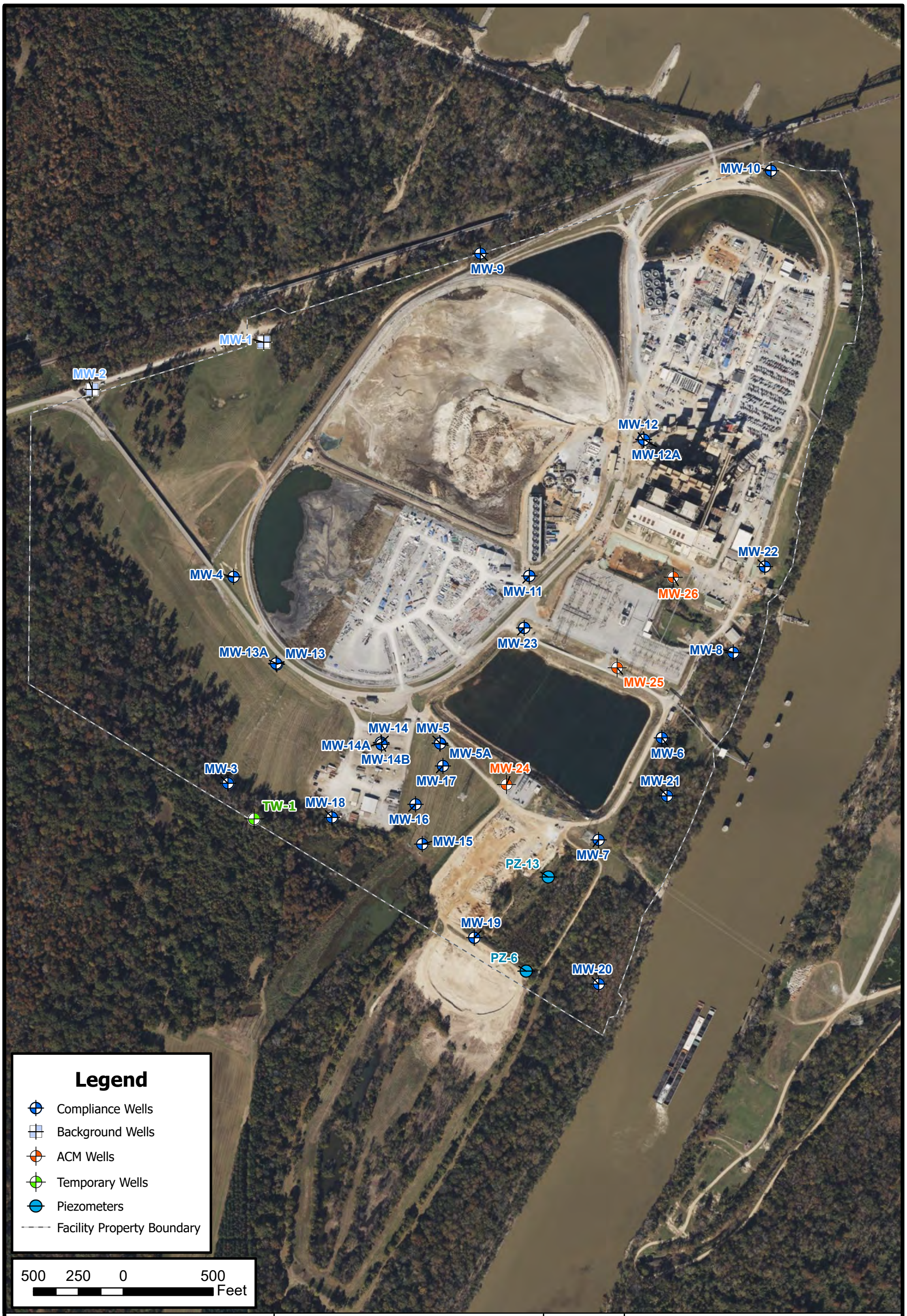

Figure 2 - Site Map: Monitoring Well Locations

Charles R. Lowman Power Plant
Leroy, AL

CDG

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

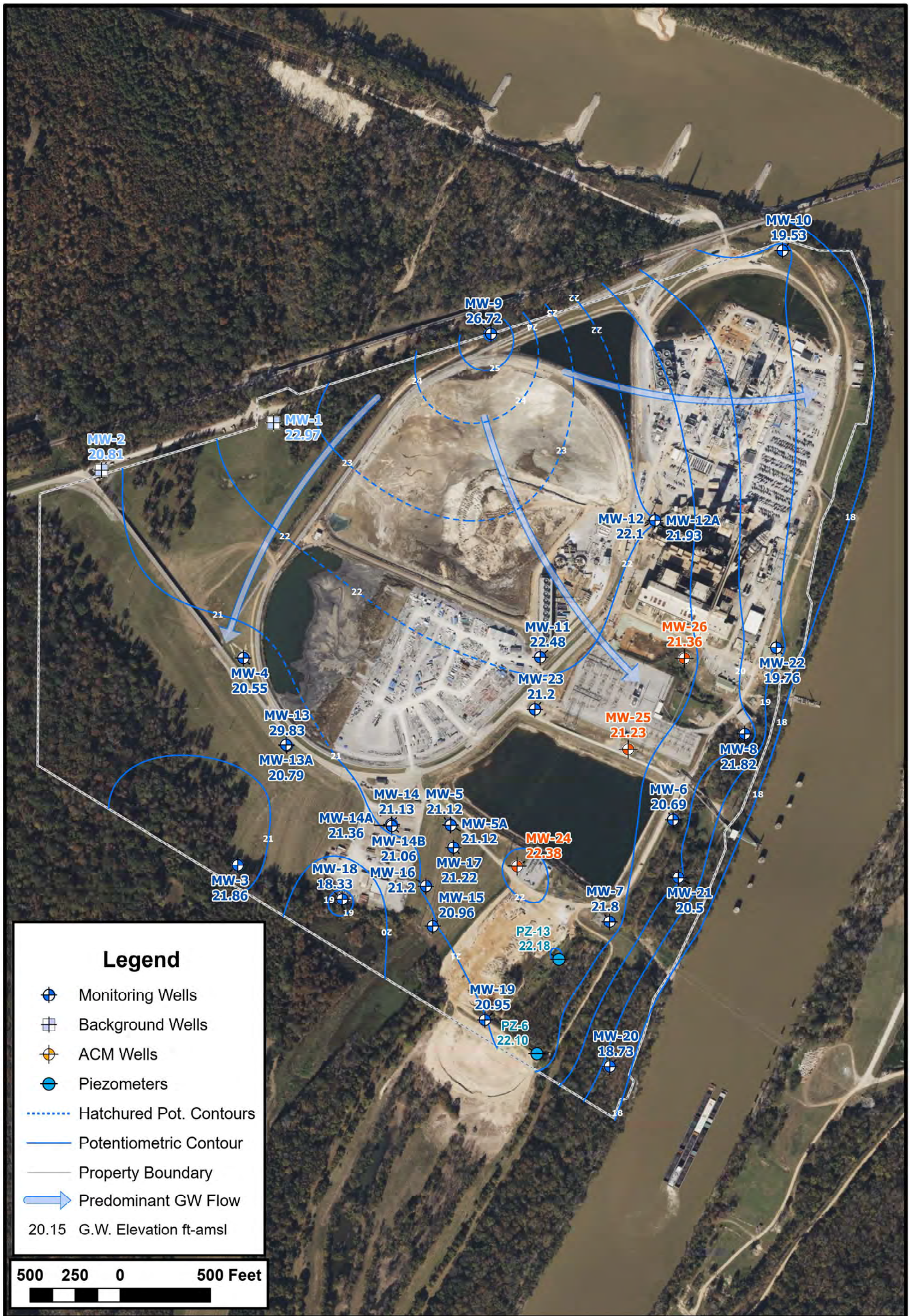

Figure 3: Potentiometric Surface - April 18, 2023

Charles R. Lowman Power Plant
Leroy, AL

CDG

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

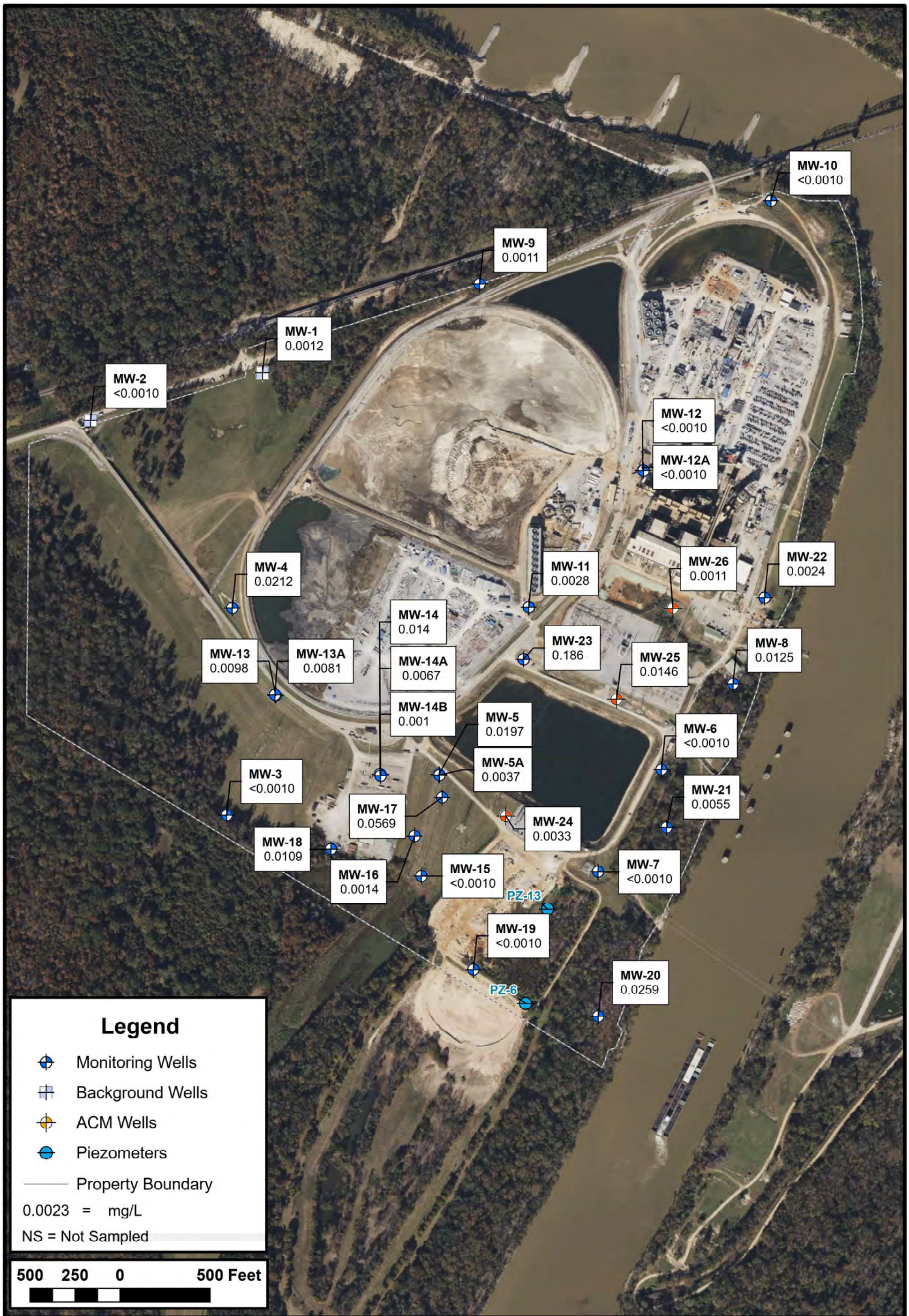

Figure 4A: Arsenic Concentrations Spring 2023

Charles R. Lowman Power Plant
Leroy, AL

CDG

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

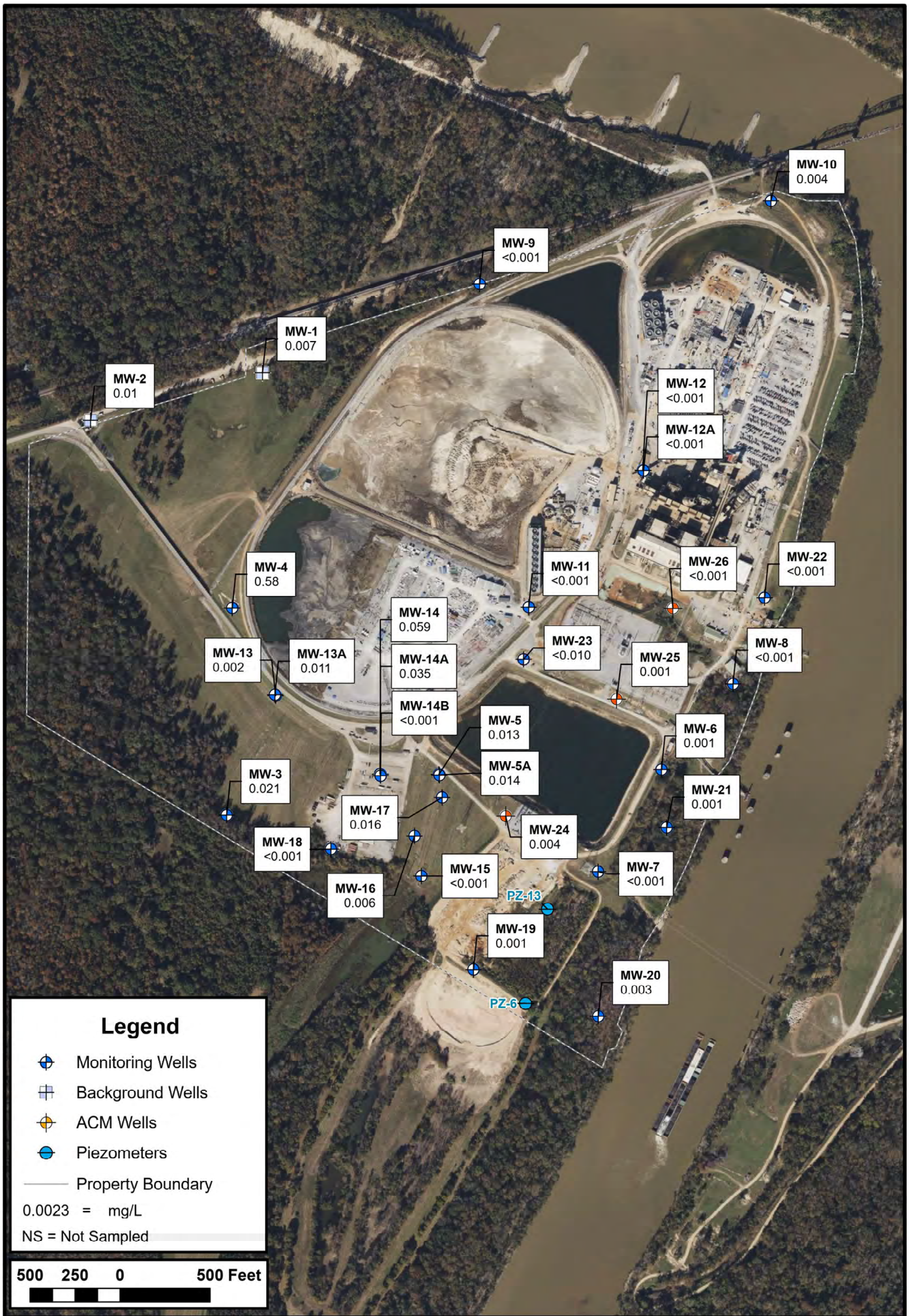

Figure 4B: Cobalt Concentrations Spring 2023

Charles R. Lowman Power Plant
Leroy, AL

CDG

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

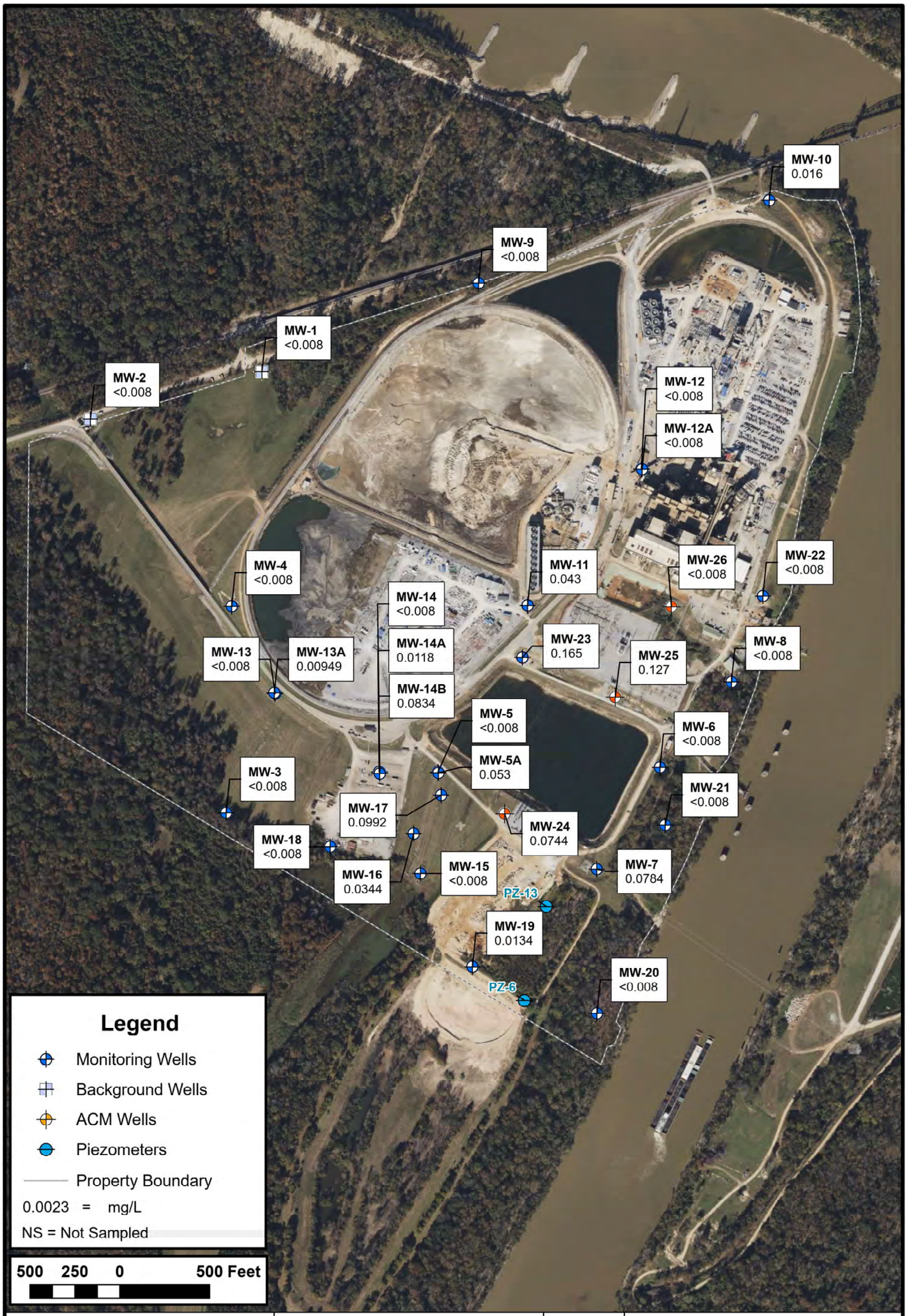

Figure 4C: Lithium Concentrations Spring 2023

Charles R. Lowman Power Plant
Leroy, AL

CDG

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

APPENDIX A

HISTORICAL GROUNDWATER ELEVATION DATA SUMMARY

APPENDIX A
HISTORICAL GROUNDWATER ELEVATION DATA
Charles R. Lowman Power Plant
Leroy, Alabama

Well/ Piezometer Number	Casing Elevation	Total Depth	Bottom Elevation	Water Level Measurements																											
				2/23/2016		3/26/2016		3/28/2016		5/18/2016		7/19/2016		8/4/2016		9/19/2016		11/28/2016		1/30/2017		3/27/2017		5/22/2017		10/9/2017		12/11/2017		4/16/2018		8/13/2018	
	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl
MW-1 (BG)	29.17	24.30	4.87	5.24	23.93	5.48	23.69	5.79	23.38	7.31	21.86	9.79	19.38	10.33	18.84	11.03	18.14	12.85	16.32	6.39	22.78	6.56	22.61	6.80	22.37	7.04	22.13	5.83	23.34	5.91	23.26	8.57	20.60
MW-2 (BG)	38.18	36.47	1.71	16.74	21.44	16.26	21.92	17.58	20.60	18.99	19.19	22.13	16.05	24.84	13.34	24.52	13.66	27.11	11.07	18.14	20.04	18.69	19.49	19.13	19.05	18.85	19.33	19.02	19.16	17.02	21.16	21.41	16.77
MW-3*	28.55	24.58	3.97	7.06	21.49	7.22	21.33	-	-	9.66	18.89	13.54	15.01	15.15	13.40	15.59	12.96	17.95	10.60	9.57	18.98	9.58	18.97	8.67	19.88	8.10	20.45	8.76	19.79	6.84	21.71	11.22	17.33
MW-4	36.40	28.32	8.08	13.68	22.72	11.84	24.56	13.59	22.81	15.30	21.10	18.24	18.16	19.07	17.33	19.63	16.77	22.15	14.25	14.68	21.72	15.28	21.12	15.75	20.65	16.46	19.94	15.55	20.85	13.96	22.44	17.00	19.40
MW-5	37.41	29.35	8.06	16.50	20.91	13.53	23.88	16.32	21.09	22.70	14.71	28.11	9.30	29.19	8.22	28.78	8.63	31.78	5.63	25.26	12.15	25.25	12.16	25.75	11.66	BTP		BTP		17.72	19.69	BTP	
MW-5A	37.23	39.02	-1.79											29.01	8.22	28.60	8.63	31.60	5.63	24.27	12.96	25.12	12.11	25.72	11.51	27.82	9.41	28.68	8.55	17.42	19.81	27.60	9.63
PZ-6	49.30	44.30	5.00	28.30	21.00	-	-	-	-	34.82	14.48	40.95	8.35	41.49	7.81	42.00	7.30	43.87	5.43	38.64	10.66	37.41	11.89	37.59	11.71	39.91	9.39	40.82	8.48	30.76	18.54	39.65	9.65
MW-6	30.14	29.26	0.88	3.34	26.80	7.62	22.52	10.45	19.69	14.20	15.94	18.38	11.76	19.38	10.76	19.15	10.99	22.04	8.10	13.58	16.56	15.92	14.22	16.70	13.44	17.78	12.36	19.60	10.54	7.91	22.23	17.62	12.52
MW-7	34.20	32.65	1.55	13.28	20.92	9.86	24.34	16.00	18.20	18.50	15.70	24.93	9.27	25.48	8.72	24.84	9.36	28.63	5.57	22.94	11.26	21.17	13.03	21.50	12.70	23.15	11.05	24.62	9.58	14.73	19.47	22.79	11.41
MW-8	32.91	37.68	-4.77	13.57	19.34	9.04	23.87	14.36	18.55	25.83	7.08	28.98	3.93	29.32	3.59	29.50	3.41	29.94	2.97	18.18	14.73	24.02	8.89	26.09	6.82	26.58	6.33	24.74	8.17	11.91	21.00	28.59	4.32
MW-9	32.63	29.01	3.62	8.08	24.55	7.70	24.93	9.78	22.85	15.33	17.30	21.02	11.61	22.31	10.32	22.01	10.62	22.73	9.90	11.92	20.71	13.57	19.06	13.60	19.03	13.25	19.38	12.46	20.17	5.20	27.43	10.65	21.98
MW-10	34.14	41.46	-7.32	15.82	18.32	12.40	21.74	18.99	15.15	29.49	4.65	31.28	2.86	31.49	2.65	31.73	2.41	32.30	1.84	18.43	15.71	27.37	6.77	29.17	4.97	29.03	5.11	29.74	4.40	13.96	20.18	31.06	3.08
PZ-13	34.56	37.45	-2.89																														
MW-11	45.29	43.10	2.19	21.94	23.35	21.14	24.15	23.65	21.64	29.72	15.57	34.16	11.13	34.33	10.96	34.67	10.62	31.25	14.04	31.54	13.75	32.47	12.82	33.19	12.10	31.33	13.96	31.42	13.87	24.82	20.47	33.42	11.87
MW-12	43.31	38.42	4.89	22.24	21.07	18.09	25.22	21.67	21.64	29.13	14.18	36.22	7.09	36.92	6.39	36.97	6.34	38.66	4.65	33.31	10.00	31.89	11.42	32.63	10.68	BTP		BTP		25.08	18.23	34.62	8.69
MW-12A	43.39	46.31	-2.92											37.00	6.39	37.05	6.34	38.74	4.65	31.31	12.08	32.52	10.87	33.53	9.86	35.90	7.49	34.15	9.24	24.84	18.55	35.48	7.91
MW-13	42.26	29.25	13.01							11.44	30.82	13.58	28.68	14.38	27.88	14.39	27.87	14.84	27.42	10.65	31.61	11.21	31.05	11.09	31.17	10.88	31.38	11.17	31.09	9.89	32.37	12.55	29.71
MW-13A	41.61	62.90	-21.29																														
MW-14	38.56	29.48	9.08							23.81	14.75	28.87	9.69	30.14	8.42	29.85	8.71	32.64	5.92	25.65	12.91	25.98	12.58	26.16	12.40	BTP		BTP		18.82	19.74	BTP	
MW-14A	38.50	38.98	-0.48											30.08	8.42	29.79	8.71	32.58	5.92	25.14	13.36	26.13	12.37	26.71	11.79	28.79	9.71	29.68	8.82	18.31	20.19	28.64	9.86
MW-14B	38.64	68.48	-29.84																														
MW-15	31.51	33.18	-1.67																														
MW-16	34.70	42.23	-7.53																														
MW-17	36.23	41.70	-5.47																														
MW-18	32.64	53.03	-20.39																														
MW-19	50.76	53.13	-2.37																														
MW-20	30.01	33.41	-3.40																														
MW-21	30.00	36.45	-6.45																														
MW-22	30.24	33.55	-3.31																														
MW-23	38.86	43.85	-4.99																														
MW-24	40.84	53.08	-12.24																														
MW-25	39.65	51.12	-11.47																														
MW-26	33.94	42.35	-8.41																														
River Stage					18.55		14.48		13.07		3.18		2.36		2.40		2.00		1.76		14.48		6.25		5.56		6.44		3.89		24.50		1.80

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

* - Prior to April 2019 monitoring well MW-3 was designated as piezometer PZ-3

BTP - Water level within the well was below the top of the dedicated baldder pump and could not be accurately measured.

APPENDIX A
HISTORICAL GROUNDWATER ELEVATION DATA
Charles R. Lowman Power Plant
Leroy, Alabama

Well/ Piezometer Number	Casing Elevation	Total Depth	Bottom Elevation	Water Level Measurements																									
				4/10/2019		6/5/2019		9/23/2019		11/20/2019		1/30/2020		3/23/2020		6/22/2020		9/24/2020		4/22/2021		10/5/2021		5/4/2022		10/19/2022		4/18/2023	
	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl	ft - btc	ft-amsl
MW-1 (BG)	29.17	24.30	4.87	5.96	23.21	8.00	21.17	10.43	18.74	6.97	22.20	4.72	24.45	4.83	24.34	8.03	21.14	8.35	20.82	5.28	23.89	6.36	22.81	6.52	22.65	10.01	19.16	6.20	22.97
MW-2 (BG)	38.18	36.47	1.71	18.03	20.15	20.72	17.46	24.30	13.88	19.86	18.32	16.88	21.30	17.33	20.85	20.03	18.15	21.91	16.27	17.32	20.86	18.03	20.15	17.98	20.20	23.14	15.04	17.37	20.81
MW-3*	28.55	24.58	3.97	7.55	21.00	10.85	17.70	14.79	13.76	9.09	19.46	5.99	22.56	6.50	22.05	9.60	18.95	12.50	16.05	6.68	21.87	6.20	22.35	6.94	21.61	13.50	15.05	6.69	21.86
MW-4	36.40	28.32	8.08	14.54	21.86	16.32	20.08	19.42	16.98	15.45	20.95	12.36	24.04	12.83	23.57	15.52	20.88	17.54	18.86	12.54	23.86	13.73	22.67	14.14	22.26	19.75	16.65	15.85	20.55
MW-5	37.41	29.35	8.06	19.08	18.33	23.44	13.97	BTP		BTP		16.40	21.01	12.65	24.76	21.26	16.15	BTP		15.32	22.09	20.10	17.31	16.16	21.25	BTP		16.29	21.12
MW-5A	37.23	39.02	-1.79	18.87	18.36	23.32	13.91	30.15	7.08	27.79	9.44	16.20	21.03	12.48	24.75	21.11	16.12	28.28	8.95	15.13	22.10	19.88	17.35	16.16	21.07	29.16	8.07	16.11	21.12
PZ-6	49.30	44.30	5.00	30.72	18.58	34.22	15.08	41.85	7.45	39.01	10.29	26.91	22.39	25.13	24.17	34.71	14.59	39.69	9.61	27.11	22.19	32.22	17.08	29.21	20.09	40.53	8.77	27.20	22.10
MW-6	30.14	29.26	0.88	12.25	17.89	14.79	15.35	20.97	9.17	18.64	11.50	8.86	21.28	8.70	21.44	13.60	16.54	18.90	11.24	9.29	20.85	12.70	17.44	11.18	18.96	20.40	9.74	9.45	20.69
MW-7	34.20	32.65	1.55	16.49	17.71	19.14	15.06	26.78	7.42	24.60	9.60	12.37	21.83	10.34	23.86	18.30	15.90	23.16	11.04	12.33	21.87	16.49	17.71	13.87	20.33	24.58	9.62	12.40	21.80
MW-8	32.91	37.68	-4.77	18.03	14.88	24.57	8.34	29.14	3.77	24.73	8.18	10.76	22.15	14.11	18.80	24.55	8.36	27.59	5.32	11.02	21.89	20.09	12.82	16.99	15.92	29.97	2.94	11.09	21.82
MW-9	32.63	29.01	3.62	6.72	25.91	8.31	24.32	11.19	21.44	8.46	24.17	4.38	28.25	4.12	28.51	7.94	24.69	9.98	22.65	4.18	28.45	6.57	26.06	6.44	26.19	11.33	21.30	5.91	26.72
MW-10	34.14	41.46	-7.32	18.94	15.20	30.18	3.96	31.33	2.81	28.41	5.73	14.05	20.09	12.47	21.67	30.08	4.06	29.57	4.57	16.53	17.61	22.72	11.42	21.66	12.48	32.12	2.02	14.61	19.53
PZ-11R	44.75	47.31	-2.56	28.80	15.95	33.14	11.61	37.40	7.35	34.75	10.00	22.55	22.20	22.05	22.70	Abandonded		Abandonded		Abandonded		Abandonded		Abandonded		Abandonded		Abandonded	
PZ-13	34.56	37.45	-2.89													19.70	14.86	24.27	10.29	12.66	21.90	16.87	17.69	14.65	19.91	25.64	8.92	12.38	22.18
MW-11	45.29	43.10	2.19	26.67	18.62	30.65	14.64	35.51	9.78	34.33	10.96	22.81	22.48	20.08	25.21	27.98	17.31	35.69	9.60	22.11	23.18	27.33	17.96	24.00	21.29	34.91	10.38	22.81	22.48
MW-12	43.31	38.42	4.89	26.84	16.47	29.52	13.79	BTP		33.13	10.18	20.53	22.78	19.51	23.80	29.52	13.79	BTP		19.96	23.35	27.15	16.16	23.92	19.39	BTP		21.21	22.10
MW-12A	43.39	46.31	-2.92	27.00	16.39	30.78	12.61	37.45	5.94	33.59	9.80	21.03	22.36	19.90	23.49	30.39	13.00	35.36	8.03	20.40	22.99	27.69	15.70	23.92	19.47	36.85	6.54	21.46	21.93
MW-13	42.26	29.25	13.01	11.48	30.78	12.76	29.50	12.89	29.37	11.30	30.96	11.01	31.25	11.61	30.65	11.68	30.58	BTP		10.93	31.33	11.18	31.08	21.61	20.65	16.39	25.87	12.43	29.83
MW-13A	41.61	62.90	-21.29	22.27	19.34	25.36	16.25	29.71	11.90	25.60	16.01	20.48	21.13	20.01	21.60	24.57	17.04	27.70	13.91	21.73	19.88	22.40	19.21	21.61	20.00	28.71	12.90	20.82	20.79
MW-14	38.56	29.48	9.08	20.30	18.26	24.57	13.99	BTP		BTP		17.55	21.01	14.14	24.42	22.72	15.84	BTP		16.68	21.88	21.40	17.16	17.18	21.38	BTP		17.43	21.13
MW-14A	38.50	38.98	-0.48	19.88	18.62	24.48	14.02	31.12	7.38	28.56	9.94	17.13	21.37	13.71	24.79	22.40	16.10	29.27	9.23	16.22	22.28	21.02	17.48	17.18	21.32	30.15	8.35	17.14	21.36
MW-14B	38.64	68.48	-29.84																			21.44	17.20	14.92	23.72	30.59	8.05	17.58	21.06
MW-15	31.51	33.18	-1.67	12.63	18.88	17.91	13.60	24.81	6.70	21.83	9.68	10.46	21.05	7.58	23.93	16.46	15.05	22.85	8.66	9.88	21.63	14.42	17.09	11.08	20.43	23.77	7.74	10.55	20.96
MW-16	34.70	42.23	-7.53	15.87	18.83	20.69	14.01	27.66	7.04	24.97	9.73	13.50	21.20	10.24	24.46	19.08	15.62	25.74	8.96	12.71	21.99	17.41	17.29	13.88	20.82	26.62	8.08	13.50	21.20
MW-17	36.23	41.70	-5.47	17.68	18.55	22.26	13.97	29.14	7.09	26.74	9.49	15.19	21.04	11.49	24.74	20.18	16.05	27.26	8.97	14.10	22.13	18.81	17.42	15.17	21.06	28.09	8.14	15.01	21.22
MW-18	32.64	53.03	-20.39	16.42	16.22	15.20	17.44	28.27	4.37	25.32	7.32	14.20	18.44	11.26	21.38	19.98	12.66	26.38	6.26	13.57	19.07	18.17	14.47	14.76	17.88	27.30	5.34	14.31	18.33
MW-19	50.76	53.13	-2.37	31.48	19.28	32.43	18.33	44.67	6.09	41.26	9.50	29.47	21.29	26.81	23.95	37.05	13.71	42.71	8.05	29.41	21.35	34.45	16.31	31.03	19.73	43.80	6.96	29.81	20.95
MW-20	30.01	33.41	-3.40	11.94	18.07	25.67	4.34	26.90	3.11	24.50	5.51	10.51	19.50	10.40	19.61	25.71	4.30	25.45	4.56	9.98	20.03	21.79	8.22	18.86	11.15	27.76	2.25	11.28	18.73
MW-21	30.00	36.45	-6.45	15.48	14.52	19.13	10.87	26.07	3.93	19.48	10.52	9.28	20.72	9.89	20.11	20.79	9.21	24.45	5.55	9.71	20.29	16.93	13.07	12.98	17.02	26.32	3.68	9.50	20.50
MW-22	30.24	33.55	-3.31	13.53	16.71	23.65	6.59	26.28	3.96	23.39	6.85	9.99	20.25	9.59	20.65	23.18	7.06	24.71	5.53	12.01	18.23	18.22	12.02	16.18	14.06	26.76	3.48	10.48	19.76
MW-23	38.86	43.85	-4.99	21.26	17.60	25.32	13.54	31.96	6.90	29.64	9.22	18.64	20.22	14.21	24.65	23.00	15.86	30.13	8.73	16.72	22.14	21.44	17.42	18.21	20.65	31.41	7.45	17.66	21.20
MW-24	40.84	53.08	-12.24													25.00	15.84	32.30	8.54	18.72	22.12	23.62	17.22	19.69	21.15	32.98	7.86	18.46	22.38
MW-25	39.65	51.12	-11.47													23.97	15.68	31.04	8.61	17.69	21.96	22.70	16.95	19.09	20.56	31.88	7.77	18.42	21.23
MW-26	33.94	42.35	-8.41													20.24	13.70	25.79	8.15	12.44	21.50	18.21	15.73	15.12	18.82	27.22	6.72	12.58	21.36
River Stage					17.52		2.45		2.50		3.87		18.00		18.50		2.75		3.50		15.00		10.00		10.20		2.25		17.80

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

* - Prior to April 2019 monitoring well MW-3 was designated as piezometer PZ-3

BTP - Water level within the well was below the top of the dedicated baldder pump and could not be accurately measured.

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
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	237.0	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-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
MW-4	03/29/2016	20.8	0.07	2373	4.52	-	3.8
	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-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	-94.1	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

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
	03/28/2017	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
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
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
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	-126.7	1.2
	12/11/2018	20.5	0.16	821	8.07	-150.8	1.4
	04/17/2018	21.2	0.18	477	6.65	-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
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
	8/14/20018	21.2	0.26	2336	5.96	-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

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-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
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	6.88	-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
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
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

APPENDIX B
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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	99.8	2.2
	05/25/2017	21.4	0.74	579	6.18	56.2	3.3
	10/10/2017	26.3	0.69	473	5.92	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
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
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
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
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
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

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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	6.06	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	4.8
	06/22/2020	22.1	0.28	710	5.95	33.7	3.9
	09/22/2020	21.6	0.37	769	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
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
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
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	263	4.87	247.0	4.0
	04/13/2023	19.8	0.46	193	5.33	161.2	0.9
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
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
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

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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	6.92	-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	6.69	-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
MW-24	06/24/2020	23.6	0.34	2561	6.74	-115.7	3.2
	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
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
MW-26	06/24/2020	20.3	3.97	351	6.64	109.5	2.3
	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

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 (inches):	2	TUBING DIAMETER (inches):	1/4	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	Clr	N/A
1140			18.9	0.43	235	5.56	57.6	3.98	Clr	N/A

SAMPLING DATA

SAMPLE DATE:	4-11-23	SAMPLE COLLECTION TIME:	1140
SAMPLED BY (PRINT):	Grant Marcum	SAMPLER(S) SIGNATURES:	

REMARKS: $2.8 / .13 = 21.5$

* 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 (inches):	2	TUBING DIAMETER (inches):	1/4	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 (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): ~~28.68~~ 32.5	STATIC WATER LEVEL DEPTH (feet): 6.49
PURGING INITIATED AT: 1201		PURGING ENDED AT: 1319	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	.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	259.6	4.6	clear	none
1226		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:

4.1 = Well Vol

/ .07 = 59 min

TDS 4-18-23

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

TDS 4-18-23 1620

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 (inches): 2	TUBING DIAMETER (inches): 1/4	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	.101	16.31	21.4	0.50	813	6.15	-57.9	5.26	CLR	None
1525	"	"	21.3	0.38	809	6.15	-72.4	5.8	CLR	None
1530	"	"	21.4	0.36	775	6.09	-67.8	4.9	CLR	None
1535	"	"	21.4	0.35	770	6.09	-65.3	3.7	CLR	None

SAMPLING DATA

SAMPLE DATE: 4-18-23	SAMPLE COLLECTION TIME: 1540
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 – 5A**	SAMPLE METHOD: **Dedicated Bladder Pump**	DATE: 4-18-23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 39.02	STATIC WATER LEVEL DEPTH (feet): 16.11
PURGING INITIATED AT: 1441		PURGING ENDED AT: [illegible] 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	0.101	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: [signature]
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 (inches): 2	TUBING DIAMETER (inches): 1/4	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 TSI

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 (inches): 2	TUBING DIAMETER (inches): 1/4	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	CLR	None
1042	"	"	20.5	0.70	360	6.05	96.0	1.7	CLR	None
1053	"	"	20.4	0.75	357	6.05	106.9	2.1	CLR	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 (inches): 2	TUBING DIAMETER (inches): 1/4	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	6.48	-91.6	2.4	Clear	None
1259	"	"	20.4	0.55	320	6.48	-114.9	1.6	Clr	None
1315	"	"	20.4	0.38	322	6.53	-136.5	2.1	Clr	None
1320	"	"	20.4	0.37	321	6.53	-136.1	2.3	Clr	None
1325	"	"	20.4	0.36	322	6.53	-135.4	1.9	Clr	none
1330	"	"	20.4	0.38	322	6.53	-137.8	2.0	Clr	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 (inches):	2	TUBING DIAMETER (inches):	1/4	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	CLR	None
1009	"		18.3	0.49	1208	6.24	-35.4	2.5	CLR	None
1014			18.2	0.44	1217	6.23	-40.9	4.1	CLR	None
1022	"	"	18.3	0.42	1230	6.15	-33.1	9.0	CLR	None
1031	"	"	18.3	0.42	1237	6.10	-27.4	6.4	CLR	None
1035	"	"	18.3	0.41	1238	6.08	-26.8	4.5	CLR	None
1040	"	"	18.3	0.41	1238	6.08	-27.1	3.0	CLR	None

SAMPLING DATA

SAMPLE DATE:	4-11-23	SAMPLE COLLECTION TIME:	1035
SAMPLED BY (PRINT):	Grant Marcum	SAMPLER(S) SIGNATURES:	

REMARKS:

$$\frac{3.6 \text{ gal}}{.1} = 36$$

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 (inches): 2	TUBING DIAMETER (inches): 1/4	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	clearing	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:	

Jason - 251-769-9510

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 (inches): 2	TUBING DIAMETER (inches): 1/4	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	0.63	717	6.79	-85.2	3.7	CLR	None
1520	"	"	21.1	0.62	669	6.79	-85.9	2.7	CLR	None
1525	"	"	21.2	0.58	731	6.80	-91.4	1.2	CLR	None
1530	"	"	21.2	0.48	734	6.80	-11.6	1.4	CLR	None
1535	"	"	21.2	0.47	736	6.80	-12.1	1.3	CLR	None

SAMPLING DATA

SAMPLE DATE: 4-12-23	SAMPLE COLLECTION TIME: 1530
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:
REMARKS: 3.2 / .148 = 21	

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 (inches): 2	TUBING DIAMETER (inches): 1/4	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	CLR	None
1031	"	"	21.6	0.59	710	5.68	149.5	3.1	CLR	None
1035	"	"	21.6	0.53	705	5.68	155.0	2.1	CLR	None
1040	"	"	21.6	0.50	702	5.68	156.5	0.2	CLR	None
1045	"	"	21.6	0.47	700	5.69	157.1	0.4	CLR	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[redacted]	SAMPLE METHOD: Dedicated Bladder Pump	DATE: 4-18-23

PURGING DATA

WELL DIAMETER (inches): 2	TUBING DIAMETER (inches): 1/4	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	CLR	None
1058	"	"	20.5	4.10	825	6.11	171	0.6	CLR	None
1102	"	"	20.9	4.11	836	6.11	173	0.3	CLR	None
1110	"	"	20.9	4.09	837	6.11	176	1.5	CLR	None
1115	"	"	20.9	4.11	836	6.11	178	0.19	CLR	None
1120	"	"	20.9	4.02	833	6.11	181	0.9	CLR	None
1125	"	"	21.2	3.91	831	6.10	183	1.4	CLR	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	39	6.60	-90.5	2.3	clear	none
1435	"	"	20.2	8.02	320	6.63	-94.6	2.0	CLR	none
1511	"	"	20.4	8.42	317	6.71	-93.1	4.0	CLR	None

SAMPLING DATA

SAMPLE DATE: 4-10-23	SAMPLE COLLECTION TIME: 1440
SAMPLED BY (PRINT): Grant Marcum	SAMPLER(S) SIGNATURES:

REMARKS:

26 / .05 = 52

dumped cell and ↑ flow @ 1427

TDS 4-18-23 1605

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 (inches): 2	TUBING DIAMETER (inches): 1/4	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 (inches): 2	TUBING DIAMETER (inches): 1/4	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	.14	16.35	20.9	1.09	545	5.67	26.2	14	clear/sl	none
1159	"	"	21.2	0.93	534	5.65	27.9	8.6	clear/sl	none
1215	"	"	21.2	0.38	530	5.62	24.6	4.3	CLR	None
1220	"	"	21.2	0.37	525	5.62	22.9	2.5	CLR	None
1225	"	"	21.2	0.36	526	5.62	21.5	2.1	CLR	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 (inches): 2	TUBING DIAMETER (inches): 1/4	WELL DEPTH (feet): 38.64	STATIC WATER LEVEL DEPTH (feet): 16.78
PURGING INITIATED AT: 1231		PURGING ENDED AT: 1323	TOTAL VOLUME PURGED (gallons): ~~[illegible]~~ 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	6533	5.85	-2.2	5.06	Clear	none
1245	"	"	19.6	0.8	470.4	5.83	-10.5	2.9	CLR	None
1248	"	"	19.6	0.75	466.3	5.83	-14.3	4.3	CLR	None
1257	"	"	19.6	0.70	464.8	5.82	-19.0	4.6	CLR	None
1305	"	"	19.6	0.68	467.4	5.82	-19.3	4.5	CLR	None
1315	"	"	19.6	0.69	469.8	5.82	-20.2	4.6	CLR	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 (inches):	2	TUBING DIAMETER (inches):	1/4	WELL DEPTH (feet):	24.58	STATIC WATER LEVEL DEPTH (feet):	7.69
PURGING INITIATED AT:	1325			PURGING ENDED AT:	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	.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	142	4.3	clear	none
1340	"	7.74	17.3	0.49	61.0	4.6	1342	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:

2.7/.101 = 26 min

TDS 4-18-23 1559

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 (inches): 2	TUBING DIAMETER (inches): 1/4	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	CLR	None
0913	"	21.51	20.6	0.68	408	5.32	94.2	2.2	CLR	None
0921	"	21.54	20.7	0.53	410	5.31	72.4	1.5	CLR	None
0926	"	"	20.6	0.50	409	5.30	72.8	1.3	CLR	None
0931	"	"	20.8	0.48	411	5.30	82.9	2.1	CLR	None
0935	"	"	20.7	0.47	411	5.30	84.6	3.0	CLR	None
0940	"	"	20.8	0.46	411	5.30	84.1	3.8	CLR	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 (inches):	2	TUBING DIAMETER (inches):	1/4	WELL DEPTH (feet):	33.18	STATIC WATER LEVEL DEPTH (feet):	9.72
PURGING INITIATED AT:	07:17	PURGING ENDED AT:	811	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	0.00	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	clr	none
810	"	"	18.2	1.87	84.0	5.14	221	2.5	clr	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 in gw 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	clr	None
0900			20.3	0.41	418	5.7	99.1	3.2	clr	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: 1025	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	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 (inches):	2	TUBING DIAMETER (inches):	1/4	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	clr	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	242	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	clr	none
1425	"	"	19.4	0.42	420	6.05	-108	3.8	clr	None
1430	"	"	19.4	0.41	421	6.05	-108	3.9	clr	None
1435	"	"	19.6	0.39	418	6.06	-110	4.2	clr	None

SAMPLING DATA

SAMPLE DATE:	4-11-23	SAMPLE COLLECTION TIME:	1430
SAMPLED BY (PRINT):	Grant Marcum	SAMPLER(S) SIGNATURES:	

REMARKS:

* rlumped cell @ 1409

* 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 (inches): 2	TUBING DIAMETER (inches): 1/4	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
1556	"	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	CR	none
1620	"	11.59	19.5	0.40	455	6.24	-88.5	5.2	CR	none
1625	"	11.59	19.5	0.40	454	6.24	-88.3	4.8	CR	

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-~~03~~-12-23		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	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	CLR	None
1358	"	"	21.4	0.39	573	6.20	-88.5	2.91	CLR	none
1400	"	"	21.3	0.38	573	6.20	-90.0	2.19	CLR	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 (inches):	2	TUBING DIAMETER (inches):	1/4	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	.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	2066	6.60	-88.5	9.2	Clear	none
1413	"	"	24.0	0.38	2071	6.61	-93.1	4.6	CLR	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:	4-13-23		

PURGING DATA

WELL DIAMETER (inches):	2	TUBING DIAMETER (inches):	1/4	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	.13	18.46	20.6	0.74	338.8	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:

24.22

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 (inches): 2	TUBING DIAMETER (inches): 1/4	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	CLR	None
0956	"	"	22.1	0.40	1303	5.92	-53.9	9.9	CLR	None
1001	"	"	22.1	0.40	1304	5.91	-54.6	7.6	CLR	None
1015	"	"	22.4	0.39	1311	5.91	-56.5	5.5	CLR	None
1025	"	"	22.2	0.39	1310	5.91	-57.1	4.2	CLR	None

SAMPLING DATA

SAMPLE DATE: 4-13-23	SAMPLE COLLECTION TIME: 1030
SAMPLED BY (PRINT): Grant Marcum	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 (inches):	2	TUBING DIAMETER (inches):	1/4	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	CLR	None
1300	"	"	21.0	8.37	403.1	6.60	201.1	4.4	CLR	None
1305	"	"	21.0	8.38	404.7	6.50	204.7	4.2	CLR	None

SAMPLING DATA

SAMPLE DATE:	4-18-23	SAMPLE COLLECTION TIME:	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	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	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	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

APPENDIX D

HISTORICAL GROUNDWATER ANALYTICAL DATA SUMMARY

APPENDIX A
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
Charles R. Lowman Power Plant
Leroy, Alabama

Well No.	Sample Date		Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chloride mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Sulfate mg/L	Thallium mg/L	TDS mg/L	Radium-226 pCi/L	Radium-228 pCi/L	Combined Radium pCi/L
		GWPS	0.006	0.010	2.0	0.0040	-	0.005	-	-	0.100	0.013	4.0	0.015	0.040	0.002	0.100	0.050	-	0.002	-	-	-	5.000
MW-1	3/29/2016		<0.001	0.00072	0.11	<0.00034	<0.021	<0.00034	26	2.5	<0.0011	0.010	0.04	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	15	<0.000085	100	0.171	0.413	0.584
Background	5/18/2016		<0.001	<0.00046	0.11	<0.00034	<0.021	<0.00034	25	2.1	<0.0011	0.0089	0.04	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	14	<0.000085	150	0.207	0.287	0.494
	7/19/2016		<0.001	0.0014	0.096	<0.00034	0.024	<0.00034	17	2.2	<0.0011	0.0069	0.04	<0.00035	<0.0032	0.00008	<0.00085	<0.00024	12	<0.000085	90	0.186	0.421	0.607
	9/19/2016		<0.001	<0.00046	0.10	<0.00034	<0.021	<0.00034	17	1.4	<0.0011	0.0057	<0.032	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	14	<0.000085	80	0.171	0.362	0.533
	11/29/2016		<0.001	<0.00046	0.093	<0.00034	<0.021	<0.00034	14	3.5	<0.0011	0.0060	<0.032	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	18	<0.000085	110	0.048	0.157	0.205
	1/31/2017		<0.0010	0.0011	0.091	<0.00034	<0.021	<0.00034	25	2.9	<0.0011	0.0072	0.04	<0.00035	<0.0032	<0.000070	0.00088	<0.00024	20	<0.000085	98			
	3/28/2017		0.0014	0.0013	0.094	<0.00034	<0.021	<0.00034	23	3.1	<0.0011	0.0082	<0.032	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	18	<0.000085	72	0.170	0.318	0.489
	5/23/2017		<0.0010	0.00083	0.11	<0.00034	<0.021	<0.00034	26	4	<0.0011	0.0094	0.05	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	16	<0.000085	74	0.031	-0.142	-0.112
	10/9/2017						<0.021		29	3.8			0.06						12		150			
	4/17/2018		<0.0010	0.0019	0.12	<0.00034	<0.021	<0.00034	34	2.6	<0.0011	0.011	0.07	<0.00035	0.0022	<0.000070	<0.00085	0.00065	12	<0.000085	140			
	8/14/2018		<0.0010	0.00073	0.12	<0.00034	<0.021	<0.00034	26	2.7	<0.0011	0.0077	0.07	<0.00035	0.0025	<0.000070	<0.00085	<0.00024	11	<0.000085	110	0.282	0.198	0.480
	4/10/2019		<0.0010	0.0014	0.12	<0.00034	<0.021	<0.00034	28	2.8	<0.0011	0.0086	0.08	<0.00035	0.0018	<0.000070	<0.00200	<0.00071	10	<0.000085	150	0.159	0.263	0.421
	9/24/2019		<0.0010	0.0014	0.14	<0.0010	0.016	<0.00100	28	2.6	<0.0010	0.0079	<0.125	<0.00100	<0.0050	<0.000200	<0.00100	<0.00100	14.3	<0.001000	160	0.450	1.080	1.530
	3/26/2020		<0.0010	0.0023	0.13	<0.0010	0.016	<0.0010	33	3.5	<0.001	0.008	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	30	<0.0010	172	0.801	0.793	1.594
	9/23/2020		<0.0010	0.0020	0.14	<0.0010	0.012	<0.0010	28	2.6	<0.001	0.009	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	13	<0.0010	118	0.000	0.735	0.735
	4/22/2021		<0.0010	0.0017	0.14	<0.0010	0.017	<0.0010	44	2.5	<0.001	0.008	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	31.8	<0.0010	220	-0.0579	1.49	1.49
	9/30/2021		<0.0010	0.0023	0.14	<0.0010	0.023	<0.0010	32	2.3	<0.001	0.008	0.143	<0.0010	<0.0050	<0.00020	<0.001	<0.001	13.7	<0.0010	232	0.144	0.644	0.788
	5/2/2022		<0.0010	0.0024	0.15	<0.0010	0.015	<0.0010	36	2.3	<0.001	0.009	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	15.4	<0.0010	143	0.300	0.721	1.02
	10/11/2022		<0.0010	0.0023	0.14	<0.0010	0.022	<0.0010	27	2.4	<0.001	0.007	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	11.5	<0.0010	167	0.000	0.416	0.416
	4/11/2023		<0.0010	0.0012	0.117	<0.0010	0.019	<0.0010	33.2	1.87	<0.001	0.007	<0.125	<0.0010	<0.008	<0.00020	<0.001	<0.001	29.9	<0.0010	188	0.249	0.578	0.827
MW-2	3/29/2016		<0.001	<0.00046	0.070	<0.00034	0.022	<0.00034	3.6	0.89	<0.0011	0.012	<0.032	<0.00035	0.0034	<0.000070	<0.00085	0.0003	14	<0.000085	46	0.140	0.465	0.605
Background	5/18/2016		<0.001	<0.00046	0.075	<0.00034	<0.021	<0.00034	3.6	<0.60	<0.0011	0.013	<0.032	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	14	<0.000085	56	0.161	0.268	0.430
	7/19/2016		<0.001	0.00055	0.067	0.000068	<0.0042	<0.00034	3.0	<0.60	<0.0011	0.011	<0.032	<0.00035	<0.00064	0.000083	<0.00085	<0.00024	14	<0.000085	42	0.092	0.301	0.393
	9/19/2016		<0.001	<0.00046	0.067	<0.00034	<0.021	<0.00034	3.2	<0.60	<0.0011	0.011	<0.032	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	16	<0.000085	30	0.100	<0.021	0.079
	11/29/2016		<0.001	<0.00046	0.070	<0.00034	<0.021	<0.00034	3.0	2.2	<0.0011	0.011	<0.032	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	17	<0.000085	76	0.093	0.156	0.249
	1/31/2017		<0.0010	<0.00046	0.075	0.00037	<0.021	<0.00034	3.5	1.1	<0.0011	0.012	<0.032	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	15	<0.000085	32			
	3/28/2017		<0.0010	<0.00046	0.072	<0.00034	<0.021	<0.00034	3.1	1	<0.0011	0.012	<0.032	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	14	<0.000085	12	0.193	0.505	0.698
	5/23/2017		<0.0010	<0.00046	0.078	<0.00034	<0.021	<0.00034	3.6	1.9	<0.0011	0.012	<0.032	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	16	<0.000085	26	0.103	0.120	0.223
	10/10/2017						<0.021		3.6	1.8			<0.032						15		46			
	4/17/2018		<0.0010	<0.00046	0.07	0.00035	<0.021	<0.00034	3.3	0.93	<0.0011	0.012	<0.032	<0.00035	0.0022	<0.000070	<0.00085	0.0003	15	<0.000085	38			
	8/14/2018		<0.0010	<0.00046	0.067	<0.00034	<0.021	<0.00034	3.2	0.63	<0.0011	0.011	0.04	<0.00035	0.0027	<0.000070	<0.00085	<0.00024	15	<0.000085	50	0.285	0.107	0.392
	4/10/2019		<0.0010	<0.00046	0.064	<0.00034	<0.021	<0.00034	3.0	<1.4	<0.0011	0.010	<0.032	<0.00035	0.002	<0.000070	<0.00200	<0.00071	14	<0.000085	44	0.079	0.088	0.166
	9/24/2019		<0.0010	<0.00100	0.067	<0.00100	0.0168	<0.00100	3.2	1.05	<0.0010	0.010	<0.125	<0.00100	<0.0050	<0.000200	<0.00100	<0.00100	20	<0.00100	66	0.153	0.796	0.949
	3/26/2020		<0.0010	<0.0010	0.068	<0.0010	0.018	<0.0010	3.2	0.969	<0.001	0.010	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	18	<0.0010	69	0.647	1.060	1.707
	9/23/2020		<0.0010	<0.0010	0.067	<0.0010	0.012	<0.0010	3.32	1.02	<0.001	0.010	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	15	<0.0010	65	0.167	1.260	1.430
	4/22/2021		<0.0010	<0.0010	0.071	<0.0010	0.017	<0.0010	3.44	1.1	<0.001	0.010	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	15	<0.0010	56	0.529	0.551	1.08
	9/30/2021		<0.0010	<0.0010	0.07	<0.0010	0.019	<0.0010	3.52	1.03	<0.001	0.011	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	16	<0.0010	71	-0.195	0.427	0.427
	5/2/2022		<0.0010	<0.0010	0.07	<0.0010	0.017	<0.0010	3.39	1.2	<0.001	0.010	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	22	<0.0010	38	0.189	0.390	0.579
	10/11/2022		<0.0010	<0.0010	0.071	<0.0010	0.02	<0.0010	3.16	1.24	<0.001	0.010	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	21	<0.0010	52	0.204	0.597	0.801
	4/11/2023		<0.0010	<0.0010	0.064	<0.0010	0.018	<0.0010	3.41	1.14	<0.001	0.01	<0.125	<0.0010	<0.008	<0.00020	<0.001	<0.001	20.9	<0.0010	58.4	0.362	0.273	0.635
MW-3	4/6/2019		<0.0010	<0.00046	0.13	0.00057	<0.021	<0.00034	5.7	<1.4	<0.0011	0.031	0.04	<0.00035	0.0027	<0.000070	<0.0020	<0.00071	21	<0.000085	24	0.160	0.205	0.365
	6/4/2019											0.027												
	8/1/2019		<0.0010	<0.0010	0.122	<0.0010	0.0204	<0.0010	4.42	1.85	<0.0010	0.0257	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	23.1	<0.0010	<50.0	0.296	1.000	1.296
	9/24/2019		<0.0010	<0.0010	0.121	<0.0010	0.0208	<0.0010	4.51	2.16	0.00105	0.0252	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	26.0	<0.0010	70.7	0.774	0.913	1.690
	11/18/2019		<0.0010	<0.0010	0.120	<0.0010	0.0222	<0.0010	4.63	2.16	<0.0010	0.0296	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	21.1	<0.0010	52.5	0.590	0.816	1.410
	1/29/2020		<0.0010	0.00102	0.098	<0.0010	0.0180	<0.0010	5.78	2.46	0.00254	0.0223	<0.125	0.00203	0.0083	<0.00020	0.0013	<0.0010	20.6	<0.0010	52.6	0.164	0.0217	0.186
	3/26/2020		<0.0010	<0.0010	0.098	<0.0010	0.0180	<0.0010	6.92	2.62	0.001	0.026	<0.125	<0.0010	<0.0050	<0.00020	0.001	<0.001	27.8	<0.0010	80	0.835	0.930	1.765
	6/23/2020		<0.0010	<0.0010	0.125	<0.0010	0.0220	<0.0010	5.27	1.81	<0.001	0.028	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	20.6	<0.0010	66.6	0.898	0.623	1.520
	9/22/2020		<0.0010	<0.0010	0.131	<0.0010	0.0190	<0.0010	5.03	1.97	<0.001	0.03	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	19.7	<0.0010	56	0.260	0.905	1.170
	4/22/2021		<0.0010	<0.0010	0.091	<0.0010	0.0200	<0.0010	7.09	2.33	<0.001	0.019	<0.125	<0.0010	<0.0050	<0.00020	0.002	<0.001	22.5	<0.0010	125	0.0656	0.881	0.947
	9/29/2021		<0.0010	<0.0010	0.112	<0.0010	0.0280	<0.0010	5.81	1.75	<0.001	0.026	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	20.8	<0.0010	61.3	0.153	0.261	0.414
	5/3/2022		<0.0010	<0.0010	0.097	<0.0010	0.0170	<0.0010	6.8	2.01	<0.001	0.021	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	23.7	<0.0010	61.4	0.321	0.705	1.03
	10/11/2022		<0.0010	<0.0010	0.115	<0.0010	0.024	<0.0010	4.33	1.85	<0.001	0.03	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	19.9	<0.0010	73.6	0.0699	0.255	0.325
	4/10/2023		<0.0010	<0.0010	0.092	<0.0010	0.019	<0.0010	6.57	1.68	<0.001	0.021	<0.125	<0.0010	<0.008	<0.00020	<0.001	<0.001	26.4	<0.0010	<25.2	0.195	0.483	0.678
MW-4	3/29/2016		<0.0010	0.0054	0.030	0.0053	1.8	0.00095	290	460	<0.0011	0.99	0.31	0.0018	0.0093	<0.000070	<0.00085	0.0028	610	0.00023	1700	0.252	0.331	0.583
	5/18/2016		<0.0010	0.0073	0.032	0.0055	1.7	0.00076	290	430	<0.0011	1.00	0.34	0.0020	0.0069	<0.000070	<0.00085	0.0028	550	0.00025	2000	0.270	0.329	0.599
	7/19/2016		<0.0010	0.0049	0.031	0.0044	1.4	0.00099	270	400	<0.0011	0.99	0.37	0.0019	0.0060	0.000083	<0.00085	0.0036	490	0.00023	1900	0.319	0.589	0.908
	9/19/2016		<0.0010	0.0059	0.041	0.0056	1.7	0.00110	260	500	<0.0011	1.00	0.38	0.0018	0.0062	<0.000070	<0.00085	0.0067	610	0.00027	1800	0.238	0.446	0.684
	11/29/2016		<0.0010	0.0040	0.31	0.0070	2.9	0.00100	300	560	<0.0011	1.00	0.34	0.0024	0.0087	<0.000070	<0.00085	0.0030	710	0.00031	2400	0.656	0.545	1.200
	1/31/2017		<0.0010	0.0064	0.05	0.0066	2.0	0.00085	290	490	<0.0011	0.98	0.41	0.0020	0.0045	<0.000070	<0.00085	0.0027	470	0.0003	310			
	3/28/2017		<0.0010	0.0053	0.045	0.0055	2.2	0.00095	250	190	<0.0011	0.96	0.38	0.0019	0.0073	<0.000070	<0.00085	0.0029	550	0.00029	1400	0.331	0.471	0.803
	5/23/2017		<0.0010	0.0039	0.041	0.0056	2.8	<0.0017	310	500	<0.0011	1.00	0.36	0.0021	0.0065	<0.000070	<0.00085	0.0037	640	0.00027	1800	0.182	0.491	0.673
	10/10/2017						1.9		290	470			0.39						520		1900			
	12/11/2017						2.2		310	430			0.45						500		2000			
	4/18/2018		<0.0010	0.0034	0.04	0.0057	2.5	0.00076	300	480	<0.0011	0.98	0.38	0.0019	0.0086	<0.000070	<0.00085	0.0022	580	0.00030	1700			
	8/14/2018		<0.0010	0.0048	0.057	0.0053	1.8	0.00080	270	470	<0.0011	0.90	0.47	0.0017	0.0071	<0.000070	<0.00085	0.0015	560	0.00023	1700	0.371	0.614	0.985
	4/10/2019		<0.0010	0.0036	0.044	0.0046	2.1	0.00057	250	430	<0.0011	0.82	0.38	0.0014	0.00560	<0.000070	<0.00200	0.0013	510	0.00023	1800	0.234	1.020	1.250
	6/4/2019											0.69												
	9/24/2019		<0.0050	<0.0050	0.044	0.0056	2.1	<0.00500	286	469	<0.0050	0.86	1.03	<0.005	0.0071	<0.000200	<0.00500	<0.0050	656	<0.00500	1890	0.698	0.871	1.570
	3/26/2020		<0.0010	0.0061	0.035	0.0052	2.6	<0.0010	264	504	<0.005	0.82	0.288	0.0017	0.00597	<0.00020	<0.001	<0.005	637	<0.0010	1650	0.979	0.942	1.921
	9/23/2020		<0.0010	0.0017	0.038	0.0053	2.1	<0.0010	277	478	<0.001	0.87	0.43	0.0018	0.0068	<0.00020	<0.001	0.003	602	<0.0010	1850	0.243	0.541	0.784
	4/21/2021		<0.0010	<0.0010	0.025	0.0044	2.5	<0.0010	154	493	<0.001	0.89	0.549	0.0019	0.0057	<0.00020	<0.001	<0.001	725	<0.0010	1990	0.121	0.652	0.773
	9/28/2021		<0.0010	0.0034	0.036	0.0044	2.4	<0.0010	281	443	<0.001	0.82	0.665	<0.0050	0.00517	<0.00020	<0.001	<0.001	751	<0.0050	1700	0.146	0.879	1.03
	5/3/2022		<0.0010	<0.0050	0.034	0.0046	2.4	<0.0010	278	457	<0.001	0.87	0.43	0.0016	0.0054	<0.00020	<0.001	<0.005	867	<0.0010	1940	0.273	0.762	1.04
	10/11/2022		<0.0010	0.0012	0.027	0.0054	2.7	<0.0010	299	489	<0.001	0.98	0.738	0.0011	0.00649	<0.00020	<0.001	0.001	732	<0.0010	1810	0.000	1.35	1.35
	4/10/2023		<0.0010	0.0212	0.05	0.0033	2.04	<0.0010	210	397	<0.001	0.58	0.4	0.0013	<0.008	<0.00020	<0.001	0.005	678	<0.0010	1600	0.069	1.47	1.54

APPENDIX A
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
Charles R. Lowman Power Plant
Leroy, Alabama

Well No.	Sample Date		Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chloride mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Sulfate mg/L	Thallium mg/L	TDS mg/L	Radium-226 pCi/L	Radium-228 pCi/L	Combined Radium pCi/L
		GWPS	0.006	0.010	2.0	0.0040	-	0.005	-	-	0.100	0.013	4.0	0.015	0.040	0.002	0.100	0.050	-	0.002	-	-	-	5.000
MW-5	3/29/2016		<0.0010	0.012	0.23	<0.00034	1.3	<0.00034	130	71	<0.0011	0.0270	0.1	<0.00035	<0.0032	<0.000070	<0.00085	0.0033	150	<0.000085	770	0.511	0.331	0.842
	5/18/2016		<0.0010	0.032	0.33	<0.00034	0.29	<0.00034	130	41	<0.0011	0.0230	0.15	<0.00035	<0.0032	<0.000070	<0.00085	0.0047	20	<0.000085	680	0.432	0.306	0.738
	7/19/2016		Dry																					
	9/19/2016		Dry																					
	11/29/2016		Dry																					
	2/1/2017		<0.0010	<0.00046	0.075	<0.00034	5.9	0.002	260	190	<0.0011	0.018	<0.032	<0.00035	0.0096	<0.000070	<0.00085	<0.00024	140	<0.000085	1300			
	3/28/2017		<0.0010	0.0042	0.055	<0.00034	4.9	0.00061	210	120	<0.0011	0.028	0.04	<0.00035	0.0075	<0.000070	<0.00085	<0.00024	400	0.000085	1100	0.163	0.309	0.472
	5/24/2017		<0.0010	0.0082	0.22	<0.00034	3.1	0.00063	160	120	<0.0011	0.031	0.08	<0.00035	0.0034	<0.000070	<0.00085	0.0021	230	<0.000085	940	0.194	0.338	0.532
	10/10/2017		Dry																					
	4/18/2018		<0.0010	0.013	0.26	<0.00034	1.7	<0.00034	150	90	<0.0011	0.03	0.11	<0.00035	0.0045	<0.000070	<0.00085	0.0027	130	<0.000085	880			
	8/13/2018		Dry																					
	4/9/2019		<0.0010	0.022	0.36	<0.00034	0.55	<0.00034	120	43	<0.0011	0.016	0.18	<0.00035	<0.0011	<0.000070	<0.0020	0.0033	<1.4	<0.000085	700	0.513	0.511	1.020
	6/4/2019			0.056								0.011												
	9/24/2019		Dry																					
	3/23/2020		<0.0010	0.0242	0.216	<0.0010	0.953	<0.0010	92.3	52.3	<0.001	0.015	0.336	<0.0010	<0.0050	<0.00020	<0.001	0.001	81.3	<0.0010	555	0.409	0.718	1.127
	9/22/2020		Dry																					
	4/19/2021		<0.0010	0.0205	0.215	<0.0010	1.36	<0.0010	109	52.2	<0.001	0.017	<0.125	<0.0010	<0.0050	<0.00020	<0.001	0.002	121	<0.0010	725	0.000	1.170	1.170
	9/28/2021		<0.0010	0.0779	0.444	<0.0010	0.395	<0.0010	135	20.3	<0.001	0.018	0.193	<0.0050	<0.0050	<0.00020	<0.005	0.003	20.8	<0.0050	698	0.0558	1.40	1.46
	4/26/2022		<0.0010	0.0508	0.309	<0.0010	0.956	<0.0010	124	39.1	<0.001	0.023	<0.125	<0.0010	<0.0050	<0.00020	0.001	0.003	86.5	<0.0010	658	0.272	0.859	1.13
	4/18/2023		<0.0010	0.0197	0.172	<0.0010	0.468	<0.0010	90.6	20.4	<0.001	0.013	<1.25	<0.0010	<0.008	<0.00020	0.001	0.003	38.4	<0.0010	645	0.443	1.040	1.480
MW-5A	8/4/2016		<0.0010	0.0034	0.035	<0.00034	17	<0.00034	480	340	<0.0011	0.036	1.2	<0.00035	0.200	<0.000070	0.170	0.00033	790	0.00012	2500	0.131	0.338	0.469
	9/19/2016		<0.0010	0.0016	0.028	<0.00034	13	<0.00034	480	350	<0.0011	0.015	1.7	<0.00035	0.200	<0.000070	0.320	<0.00024	890	<0.000085	2300	0.178	0.351	0.529
	11/29/2016		<0.0010	0.0026	0.024	<0.00034	13	<0.00034	340	240	<0.0011	0.018	1.5	<0.00035	0.180	<0.000070	0.190	<0.00024	660	0.000085	1800	-0.036	0.303	0.267
	2/1/2017		<0.0010	0.0028	0.029	<0.00034	14	<0.00034	480	340	<0.0011	0.014	2.1	<0.00035	0.220	<0.000070	0.280	<0.00024	590	<0.000085	2200			
	3/28/2017		<0.0010	0.0026	0.033	<0.00034	14	<0.00034	370	170	<0.0011	0.036	1.4	<0.00035	0.170	<0.000070	0.120	<0.00024	560	<0.000085	1400	0.478	0.564	1.040
	5/24/2017		<0.0010	0.0023	0.04	<0.00034	8.9	<0.00034	330	310	<0.0011	0.032	1.3	<0.00035	0.110	<0.000070	0.110	<0.00024	430	<0.000085	1600	0.180	0.109	0.288
	10/10/2017						7.4		300	230			2.2						140		1300			
	12/12/2017						7.4		320	260			1.9						270		1400			
	4/18/2018		<0.0010	0.00360	0.098	<0.00034	6.7	<0.00034	330	290	<0.0011	0.0078	<0.032	<0.00035	0.230	<0.000070	0.440	<0.00024	170	<0.000085	1300			
	8/15/2018		<0.0010	0.00094	0.073	<0.00034	4.8	<0.00034	220	180	<0.0011	0.0090	2	<0.00035	0.097	<0.000070	0.290	<0.00024	130	<0.000085	1000	0.342	0.128	0.469
	4/9/2019		<0.0010	0.00430	0.078	<0.00034	4.6	<0.00034	180	190	<0.0011	0.0120	1.6	<0.00035	0.090	<0.000070	0.200	<0.00071	130	<0.000085	920	0.150	0.362	0.511
	6/4/2019														0.054		0.120							
	9/26/2019		<0.0010	0.00212	0.111	<0.00100	3.7	<0.00100	180	142	<0.0010	0.0275	1.9	<0.00100	0.0813	<0.000200	0.141	<0.00100	204	<0.001000	794	0.167	0.802	0.969
	3/23/2020		<0.0010	0.0038	0.101	<0.0010	2.6	<0.0010	129	159	<0.001	0.013	1.3	<0.0010	0.0671	<0.00020	0.109	<0.001	126	<0.0010	612	0.463	0.888	1.351
	9/22/2020		<0.0010	0.0018	0.089	<0.0010	2.6	<0.0010	138	88.7	<0.001	0.012	1.3	<0.0010	0.0488	<0.00020	0.096	<0.001	178	<0.0010	646	0.230	-0.559	0.230
	4/19/2021		<0.0010	0.0036	0.096	<0.0010	2.0	<0.0010	111	98.7	<0.001	0.012	1.1	<0.0010	0.0626	<0.00020	0.09	<0.001	116	<0.0010	579	-0.0621	1.31	1.31
	9/28/2021		<0.0010	0.0044	0.099	<0.0010	2.2	<0.0010	138	102	<0.001	0.013	1.9	<0.0010	0.0663	<0.00020	0.149	<0.001	101	<0.0010	640	0.619	10.7	11.3
	4/26/2022		<0.0010	0.0036	0.096	<0.0010	2.4	<0.0010	111	115	<0.001	0.015	1.5	<0.0010	0.0561	<0.00020	0.09	<0.001	122	<0.0010	652	0.178	0.263	0.441
	10/12/2022		<0.0010	0.002	0.085	<0.0010	2.2	<0.0010	113	82.5	<0.001	0.014	1.6	<0.0010	0.0569	<0.00020	0.136	<0.001	177	<0.0010	608	0.423	0.421	0.844
	4/18/2023		<0.0010	0.0037	0.078	<0.0010	1.7	<0.0010	102	95.5	<0.001	0.014	1.3	<0.0010	0.053	<0.00020	0.085	<0.001	114	<0.0010	524	0.449	0.847	1.300
MW-6	3/29/2016		<0.001	0.0095	0.25	<0.00034	0.30	<0.00034	99	52	<0.0011	0.0048	0.12	<0.00035	<0.0032	<0.000070	0.0012	0.00032	140	<0.000085	490	0.374	0.486	0.859
	5/18/2016		<0.001	0.017	0.13	<0.00034	0.28	<0.00034	90	45	<0.0011	0.015	0.14	<0.00035	<0.0032	<0.000070	0.0016	<0.00024	130	<0.000085	430	0.204	0.324	0.528
	7/19/2016		<0.001	0.022	0.10	<0.00034	0.32	<0.00034	62	35	<0.0011	0.012	0.24	<0.00035	0.0046	0.000084	0.003	<0.00024	64	<0.000085	340	0.133	0.180	0.313
	9/19/2016		<0.001	0.023	0.12	<0.00034	0.32	<0.00034	74	34	<0.0011	0.012	0.23	<0.00035	0.0055	<0.000070	0.0026	<0.00024	94	<0.000085	370	0.209	0.286	0.495
	11/29/2016		<0.001	0.027	0.13	<0.00034	0.40	<0.00034	64	39	<0.0011	0.012	0.17	<0.00035	0.011	<0.000070	0.0019	<0.00024	100	<0.000085	380	0.022	0.168	0.190
	1/31/2017		<0.0010	0.0021	0.075	<0.00034	0.35	0.00037	100	48	<0.0011	0.013	0.04	<0.00035	<0.0032	<0.000070	<0.00085	0.0022	140	<0.000085	410			
	3/29/2017		<0.0010	0.0063	0.082	<0.00034	0.35	<0.00034	82	45	<0.0011	0.016	0.12	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	130	<0.000085	390	0.157	0.101	0.258
	5/24/2017		<0.0010	0.0076	0.087	<0.00034	0.34	<0.00034	97	44	<0.0011	0.016	0.1	<0.00035	<0.0032	<0.000070	0.0027	0.00097	130	<0.000085	400	0.077	0.090	0.167
	10/11/2017						0.43		86	33			0.24						120		410			
	12/12/2017						0.45		73	25			0.27						80		380			
	4/17/2018		<0.0010	0.0021	0.046	<0.00034	0.23	<0.00034	89	31	<0.0011	0.0055	0.06	<0.00035	0.0019	<0.000070	<0.00085	0.00036	170	<0.000085	480			
	8/15/2018		<0.0010	0.0190	0.078	<0.00034	0.38	<0.00034	74	24	<0.0011	0.0120	0.27	<0.00035	0.0054	<0.000070	<0.00085	<0.00024	89	<0.000085	400	0.326	0.340	0.666
	4/7/2019		<0.0010	0.0012	0.043	<0.00034	0.19	<0.00034	98	24	<0.0011	0.0042	0.06	<0.00035	0.002	<0.000070	<0.00200	<0.00071	170	<0.000085	370	0.052	0.146	0.198
	9/25/2019		<0.0010	0.0229	0.096	<0.00100	0.39	<0.00100	63	16	<0.0010	0.0105	0.32	<0.00100	0.00832	<0.000200	0.00252	<0.00100	63	<0.00100	298	0.478	1.060	1.538
	3/26/2020		<0.0010	0.0015	0.053	<0.0010	0.18	<0.0010	89	19	<0.001	0.002	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	173	<0.0010	398	0.827	0.909	1.736
	9/23/2020		<0.0010	0.0205	0.091	<0.0010	0.34	<0.0010	76	21	<0.001	0.01	0.24	<0.0010	0.0061	<0.00020	0.002	<0.001	69	<0.0010	337	0.351	-0.265	0.351
	4/21/2021		<0.0010	<0.0010	0.048	<0.0010	0.19	<0.0010	91	13	<0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	137	<0.0010	455	0.168	0.295	0.463
	9/30/2021		<0.0010	<0.0010	0.054	<0.0010	0.21	<0.0010	90	15	<0.001	0.002	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	135	<0.0010	421	-0.238	0.584	0.584
	4/27/2022		<0.0010	<0.0010	0.041	<0.0010	0.13	<0.0010	75	11	<0.001	<0.010	<0.125	<0.0010	<0.0050	<0.00020	<0.010	<0.001	129	<0.0010	368	0.315	0.126	0.441
	10/17/2022		<0.0050	0.0217	0.099	<0.0010	0.325	<0.0010	73	13.4	<0.005	0.014	<0.500	<0.0050	0.00603	<0.00020	0.002	<0.001	69.9	<0.0050	372	-0.266	0.671	0.671
	4/12/2023		<0.0010	<0.0010	0.045	<0.0010	0.166	<0.0010	75.5	9.31	<0.001	0.001	<0.125	<0.0010	<0.008	<0.00020	<0.001	<0.001	123	<0.0010	357	0.294	0.413	0.707
MW-7	3/29/2016		<0.001	<0.00046	0.052	<0.00034	7	<0.00034	280	210	<0.0011	0.0016	0.79	<0.00035	0.160	<0.000070	0.010	0.00026	390	<0.000085	1200	0.267	0.148	0.414
	5/18/2016		<0.001	<0.00046	0.043	<0.00034	11	<0.00034	410	180	<0.0011	0.0035	1.1	<0.00035	0.210	<0.000070	0.017	0.00045	480	<0.000085	1600	0.220	0.382	0.602
	7/19/2016		<0.001	<0.00046	0.041	<0.00034	6	<0.00034	150	67	<0.0011	0.0018	1.7	<0.00035	0.110	0.086	0.028	0.00025	170	<0.000085	740	0.198	0.257	0.454
	9/19/2016		<0.001	0.00047	0.057	<0.00034	11	<0.00034	360	280	<0.0011	0.0037	1.6	<0.00035	0.220	<0.000070	0.035	<0.00024	650	<0.000085	1800	0.398	0.608	1.010
	11/29/2016		<0.001	0.00085	0.050	<0.00034	13	<0.00034	490	440	<0.0011	0.0082	1.4	<0.00035	0.220	<0.000070	0.024	<0.00024	870	<0.000085	2800	0.174	0.226	0.400
	2/1/2017		<0.0010	<0.00046	0.09	<0.00034	5.1	<0.00034	170	110	<0.0011	0.0017	1.1	<0.00035	0.130	<0.000070	0.0095	<0.00024	230	<0.000085	770			
	3/29/2017		<0.0010	0.0011	0.039	<0.00034	11	<0.00034	310	94	<0.0011	0.0053	1.8	<0.00035	0.170	0.00011	0.022	<0.00024	530	<0.000085	1500	0.083	0.515	0.598
	5/24/2017		<0.0010	0.00098	0.037	<0.00034	8.9	<0.00034	260	150	<0.0011	0.0043	1.7	<0.00035	0.170	<0.000070	0.025	<0.00024	370	<0.000085	1100	0.091	0.385	0.476
	10/11/2017						7.2		190	44			2.3						230		710			
	12/12/2017						6.3		190	80			2.4						210		900			
	4/18/2018		<0.0010	0.00065	0.093	<0.00034	2.8	<0.00034	93	26	<0.0011	0.00062	1.4	<0.00035	0.140	<0.000070	0.015	0.0017	96	<0.000085	410			
	8/15/2018		<0.0010	<0.00046	0.081	<0.00034	6.8	<0.00034	240	110	<0.0011	0.00360	2.2	<0.00035	0.190	<0.000070	0.030	<0.00024	400	<0.000085	1100	0.361	0.784	1.140
	4/7/2019		<0.0010	<0.00046	0.089	<0.00034	4.7	<0.00034	180	81	<0.0011	0.00330	1.5	<0.00035	0.150	<0.000070	0.016	<0.00071	280	<0.000085	860	0.154	-0.136	0.018
	6/4/2019														0.130		0.016							
	9/25/2019		<0.0010	<0.00100	0.075	<0.00100	3.5	<0.00100	134	26	<0.0010	0.00317	2.4	<0.00100	0.117	<0.000200	0.020	<0.00100	158	<0.001000	580	0.816	0.933	1.750
	3/26/2020		<0.0010	<0.0010	0.091	<0.0010	1.5	<0.0010	83.9	11	<0.001	<0.001	1.4	<0.0010	0.073	<0.00020	0.010	<0.001	72.1	<0.0010	356	1.040	1.160	2.200
	9/23/2020		<0.0010	<0.0010	0.092	<0.0010	2.1	<0.0010	102	10	<0.001	0.001	1.9	<0.0010	0.0982	<0.00020	0.015	<0.001	84.7	<0.0010	366	0.199	0.267	0.466
	4/20/2021		<0.0010	<0.0010	0.093	<0.0010	1.0	<0.0010	78.6	6	<0.001	<0.001	1.1	<0.0010	0.0681	<0.00020	0.007	0.002	48.7	<0.0010	310	0.163	0.568	0.731
	9/29/2021		<0.0010	<0.0010	0.080	<0.0010	2.3	<0.0010	95	6	<0.001	0.001	2.2	<0.0010	0.0891	<0.00020	0.021	<0.001	80.1	<0.0010	323	0.234	10.7	10.9
	5/3/2022		<0.0010	<0.0010	0.087	<0.0010	1.2	<0.0010	74.5	4	<0.001	0.001	2.1	<0.0010	0.0752	<0.00020	0.018	<0.001	64.3	<0.0010	295	0.413	0.728	1.14
	10/17/2022		<0.0010	0.001	0.074	<0.0010	1.0	<0.0010	65.5	3	<0.005	<0.005	2.6	<0.0050	0.0863	<0.00020	0.022	<0.001	55.4	<0.0050	337	0.127	0.574	0.701
	4/12/2023		<0.0010	<0.0010	0.084	<0.0010	0.83	<0.0010	65	3.03	<0.001	<0.001	1.98	<0.0010	0.0784	<0.00020	0.012	<0.001	50	<0.0010	278	0.234	1.08	1.31

APPENDIX A
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
Charles R. Lowman Power Plant
Leroy, Alabama

Well No.	Sample Date		Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chloride mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Sulfate mg/L	Thallium mg/L	TDS mg/L	Radium-226 pCi/L	Radium-228 pCi/L	Combined Radium pCi/L
		GWPS	0.006	0.010	2.0	0.0040	-	0.005	-	-	0.100	0.013	4.0	0.015	0.040	0.002	0.100	0.050	-	0.002	-	-	-	5.000
MW-8	3/29/2016		<0.0010	0.0007	0.066	<0.00034	0.051	<0.00034	63	7.9	<0.0011	0.00310	0.13	<0.00035	<0.0032	<0.000070	<0.00085	0.0014	12	<0.000085	210	0.098	0.108	0.206
	5/18/2016		<0.0010	0.0041	0.07	<0.00034	0.16	<0.00034	85	14	<0.0011	0.00240	0.16	<0.00035	<0.0032	<0.000070	<0.00085	0.00046	12	<0.000085	270	0.104	-0.244	-0.139
	7/19/2016		<0.0010	0.0500	0.10	<0.00034	0.13	<0.00034	70	51	<0.0011	0.00200	0.16	<0.00035	<0.0032	0.000081	<0.00085	0.00024	< 1.4	<0.000085	330	0.091	0.451	0.542
	9/19/2016		<0.0010	0.0580	0.10	<0.00034	0.49	<0.00034	73	54	<0.0011	0.00096	0.14	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	< 1.4	<0.000085	320	0.220	0.717	0.937
	11/29/2016		<0.0010	0.0600	0.11	<0.00034	0.071	<0.00034	69	47	<0.0011	0.00065	0.12	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	< 1.4	<0.000085	300	0.102	0.299	0.401
	2/1/2017		<0.0010	0.014	0.085	<0.00034	0.37	<0.00034	61	58	<0.0011	0.001	0.16	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	21	<0.000085	300			
	3/29/2017		<0.0010	0.0043	0.079	<0.00034	0.1	<0.00034	87	11	0.028	0.0015	0.11	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	13	<0.000085	290	0.063	0.312	0.375
	5/24/2017		<0.0010	0.0059	0.077	<0.00034	0.097	<0.00034	88	28	<0.0011	0.0041	0.19	<0.00035	<0.0032	<0.000070	0.0011	0.00056	9.6	<0.000085	280	0.081	-0.134	-0.052
	10/11/2017						0.098		76	45			0.19						2.9		280			
	12/12/2017						0.085		70	45			0.18						< 1.4		290			
	4/18/2018		<0.0010	0.0098	0.063	<0.00034	0.25	<0.00034	44	32	<0.0011	<0.00040	0.19	<0.00035	<0.0011	<0.000070	<0.00085	<0.00024	<1.4	<0.000085	200			
	8/15/2018		<0.0010	0.0470	0.100	<0.00034	0.13	<0.00034	70	45	<0.0011	<0.00040	0.22	<0.00035	0.0011	<0.000070	<0.00085	<0.00024	<1.4	<0.000085	320	0.311	0.123	0.434
	4/7/2019		<0.0010	0.0016	0.055	<0.00034	0.13	<0.00034	68	6	<0.0011	0.00250	0.17	<0.00035	<0.0011	<0.000070	<0.00200	<0.00071	3.4	<0.000085	190	0.056	0.000	0.056
	9/26/2019		<0.0010	0.0437	0.086	<0.00100	0.086	<0.00100	69	45	<0.0010	<0.00100	0.18	<0.00100	<0.005	<0.000200	<0.00100	<0.00100	<1	<0.00100	270	0.663	0.902	1.565
	3/26/2020		<0.0010	0.0081	0.070	<0.0010	0.133	<0.0010	60.7	13	<0.001	0.00200	0.38	<0.0010	<0.0250	<0.00020	<0.001	<0.001	6.32	<0.0010	241	1.230	0.908	2.138
	9/23/2020		<0.0010	0.0396	0.093	<0.0010	0.128	<0.0010	69.3	32	<0.001	<0.001	0.23	<0.0010	<0.0050	<0.00020	<0.001	<0.001	<1.00	<0.0010	250	0.055	0.014	0.069
	4/21/2021		<0.0010	0.0157	0.095	<0.0010	0.238	<0.0010	72.1	16	<0.001	0.00200	0.23	<0.0010	<0.0050	<0.00020	<0.001	<0.001	3.25	<0.0010	229	0.111	1.08	1.19
	9/30/2021		<0.0010	0.0097	0.089	<0.0010	0.093	<0.0010	81.7	5	<0.001	0.00200	0.27	<0.0010	<0.0050	<0.00020	0.001	<0.001	11	<0.0010	256	-0.0636	0.920	0.920
	4/27/2022		<0.0010	0.0196	0.125	<0.0010	0.165	<0.0010	59.4	10	<0.001	0.00100	0.29	<0.0010	<0.0050	<0.00020	0.001	<0.001	10.2	<0.0010	202	0.195	0.333	0.528
	10/17/2022		<0.0010	0.0316	0.109	<0.0010	0.111	<0.0050	66.7	30	<0.005	<0.005	<0.500	<0.0050	<0.0050	<0.00020	<0.005	<0.001	<4.00	<0.0050	320	0.145	0.193	0.338
	4/12/2023		<0.0010	0.0125	0.072	<0.0010	0.26	<0.0010	50	13.8	<0.001	<0.001	0.225	<0.0010	<0.008	<0.00020	<0.001	<0.001	<1.00	<0.0010	198	-0.071	0.31	0.31
MW-9	3/29/2016		<0.0010	0.00094	0.1	<0.00034	2.7	<0.00034	61	66	<0.0011	<0.00040	0.12	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	77	<0.000085	430	0.286	0.363	0.650
	5/18/2016		<0.0010	0.0012	0.16	<0.00034	3.1	<0.00034	76	78	<0.0011	<0.00040	0.12	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	180	<0.000085	530	0.394	0.588	0.982
	7/19/2016		<0.0010	0.0013	0.14	<0.00034	4.1	<0.00034	82	120	<0.0011	<0.00040	0.12	<0.00035	<0.0032	0.000083	<0.00085	<0.00024	200	<0.000085	760	0.449	0.622	1.070
	9/19/2016		<0.0010	0.0031	0.14	<0.00034	4.1	<0.00034	110	180	<0.0011	<0.00040	0.11	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	310	<0.000085	920	0.516	0.500	1.020
	11/29/2016		<0.0010	0.0031	0.17	<0.00034	5.7	<0.00034	180	390	<0.0011	<0.00040	0.090	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	570	<0.000085	1600	0.399	1.150	1.550
	1/31/2017		<0.0010	0.00095	0.096	<0.00034	4.0	<0.00034	160	300	<0.0011	<0.00040	0.10	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	280	<0.000085	1100			
	3/28/2017		<0.0010	0.001	0.13	<0.00034	4.4	<0.00034	150	140	<0.0011	<0.00040	0.09	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	370	<0.000085	1100	0.291	0.317	0.608
	5/22/2017		<0.0010	0.00084	0.14	<0.00034	4.8	<0.00034	190	310	<0.0011	<0.00040	0.1	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	460	<0.000085	1300	0.194	0.420	0.614
	10/9/2017						5.5		190	310			0.12						420		1500			
	12/12/2017						5.2		200	300			0.13						380		1600			
	4/17/2018		<0.0010	0.00094	0.094	<0.00034	2.9	<0.00034	140	180	<0.0011	<0.00040	0.15	<0.00035	<0.0011	<0.000070	<0.00085	0.00025	230	<0.000085	720			
	8/14/2018		<0.0010	0.00071	0.14	<0.00034	4.9	<0.00034	260	430	<0.0011	<0.00040	0.12	<0.00035	<0.0011	<0.000070	<0.00085	<0.00024	720	<0.000085	1700	0.585	0.622	1.210
	4/10/2019		<0.0010	0.00066	0.071	<0.00034	5.7	<0.00034	310	440	<0.0011	<0.00040	0.09	<0.00035	<0.0011	<0.000070	<0.0020	<0.00071	790	<0.000085	1900	0.387	1.030	1.420
	9/24/2019		<0.0050	<0.00500	0.088	<0.00500	7.4	<0.00500	418	503	<0.0050	<0.00500	<0.125	<0.00500	<0.0050	<0.00020	<0.0050	<0.00500	1070	<0.005000	2360	1.030	0.769	1.800
	3/26/2020		<0.0010	0.0011	0.071	<0.0010	4.1	<0.0010	453	526	<0.005	<0.005	<0.125	<0.0010	<0.0250	<0.00020	<0.001	<0.001	1100	<0.0010	2300	1.070	0.951	2.021
	9/23/2020		<0.0010	0.0016	0.080	<0.0010	9.0	<0.0010	445	421	<0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	975	<0.0010	2350	0.332	0.903	1.240
	4/21/2021		<0.0010	<0.0010	0.081	<0.0010	7.4	<0.0010	421	329	<0.001	<0.001	0.158	<0.0050	<0.0050	<0.00020	<0.001	<0.001	865	<0.0050	1850	0.559	0.689	1.25
	9/30/2021		<0.0010	0.0015	0.063	<0.0010	9.4	<0.0010	397	265	<0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	881	<0.0010	1840	0.596	1.70	2.30
	4/25/2022		<0.0100	<0.0100	0.066	<0.0100	6.8	<0.0100	323	204	<0.010	<0.010	<0.125	<0.0100	<0.0050	<0.00020	<0.010	<0.010	726	<0.0100	1450	0.383	0.952	1.34
	10/11/2022		<0.0100	<0.0100	0.055	<0.0100	7.16	<0.0100	291	188	<0.010	<0.010	0.139	<0.0100	<0.0050	<0.00020	<0.010	<0.010	767	<0.0100	1390	0.344	1.04	1.38
	4/11/2023		<0.0010	0.0011	0.049	<0.0010	5.04	<0.0010	132	131	<0.001	<0.001	0.14	<0.0010	<0.008	<0.00020	<0.001	<0.001	602	<0.0010	1200	0.605	0.755	1.36
MW-10	3/29/2016		<0.0010	0.00054	0.03	0.0016	0.35	0.0019	110	110	<0.0011	0.0087	0.06	<0.00035	0.017	<0.000070	<0.00085	0.0064	250	<0.000085	550	0.180	0.099	0.279
	5/18/2016		<0.0010	0.00063	0.024	0.0017	0.41	0.0023	130	100	0.0014	0.0086	0.06	<0.00035	0.016	<0.000070	<0.00085	0.0078	250	<0.000085	650	0.132	0.299	0.431
	7/19/2016		<0.0010	<0.00046	0.038	0.0016	0.34	0.0013	94	100	<0.0011	0.0110	0.070	<0.00035	0.013	0.000084	<0.00085	0.0029	190	<0.000085	590	0.199	0.585	0.748
	9/19/2016		<0.0010	<0.00046	0.033	0.0018	0.26	0.0012	110	110	<0.0011	0.0097	0.060	<0.00035	0.019	<0.000070	<0.00085	0.0022	260	<0.000085	590	0.268	-0.146	0.122
	11/29/2016		<0.0010	<0.00046	0.028	0.0012	0.39	0.0006	90	91	<0.0011	0.0077	0.040	<0.00035	0.013	<0.000070	<0.00085	0.0015	260	<0.000085	570	0.143	0.346	0.489
	2/1/2017		<0.0010	<0.00046	0.039	0.0019	0.69	0.0018	150	150	<0.0011	0.0096	0.06	<0.00035	0.015	<0.000070	<0.00085	0.0035	270	<0.000085	750			
	3/29/2017		<0.0010	<0.00046	0.032	0.0016	0.41	0.00097	94	93	<0.0011	0.0073	0.05	<0.00035	0.015	<0.000070	<0.00085	0.002	240	<0.000085	560	0.023	0.289	0.312
	5/24/2017		<0.0010	<0.00046	0.041	0.0021	0.48	0.00072	110	100	<0.0011	0.0058	0.08	<0.00035	0.013	<0.000070	<0.00085	0.0023	250	<0.000085	570	0.118	0.138	0.256
	10/11/2017						0.40		94	86			0.06						230		520			
	12/13/2017						0.35		100	75			0.09						220		560			
	4/19/2018		<0.0010	0.00054	0.034	0.0016	0.57	0.0011	100	110	<0.0011	0.0076	0.07	<0.00035	0.021	<0.000070	<0.00085	0.0025	290	<0.000085	670			
	8/14/2018		<0.0010	<0.00046	0.03	0.00068	0.36	0.00067	87	71	<0.0011	0.0047	0.07	<0.00035	0.016	<0.000070	<0.00085	0.0019	200	<0.000085	490	0.334	0.089	0.423
	4/9/2019		<0.0010	<0.00046	0.034	0.00082	0.53	0.00084	78	68	<0.0011	0.0047	0.06	<0.00035	0.012	<0.000070	<0.00200	0.0030	210	<0.000085	460	0.092	0.165	0.257
	9/26/2019		<0.0010	<0.0010	0.029	<0.00100	0.39	<0.00100	79	73	<0.0010	0.0038	<0.125	<0.00100	0.0149	<0.000200	<0.00100	0.0021	386	<0.001000	458	0.664	0.699	1.363
	3/25/2020		<0.0010	<0.0010	0.028	0.001	0.54	0.0014	114	91	<0.001	0.0060	0.236	<0.0010	<0.0250	<0.00020	<0.001	0.0010	397	<0.0010	642	1.230	0.959	2.189
	9/23/2020		<0.0010	<0.0010	0.032	<0.0010	0.41	<0.0010	86	74	0.003	0.0040	<0.125	0.0014	0.0155	<0.00020	<0.001	0.0020	234	<0.0010	469	0.391	0.094	0.485
	4/20/2021		<0.0010	<0.0010	0.026	0.0015	0.81	0.0018	140	111	<0.001	0.0060	<0.125	<0.0010	0.0187	<0.00020	<0.001	0.0030	389	<0.0010	779	-0.134	0.253	0.253
	9/30/2021		<0.0010	<0.0010	0.024	<0.0010	0.53	<0.0010	77	61	<0.001	0.0030	<0.125	<0.0010	0.0113	<0.00020	<0.001	0.0030	210	<0.0010	445	-0.0307	0.317	0.317
	4/27/2022		<0.0010	<0.0010	0.023	<0.0010	0.65	0.0015	112	101	<0.001	0.0060	0.282	<0.0010	0.0161	<0.00020	<0.001	0.0030	346	<0.0010	708	0.103	0.423	0.526
	10/13/2022		<0.0010	<0.0010	0.030	<0.0010	0.39	<0.0010	73	69	<0.001	0.0030	<0.125	<0.0010	0.0141	<0.00020	<0.001	0.0010	208	<0.0010	452	-0.209	0.474	0.474
	4/12/2023		<0.0010	<0.0010	0.03	<0.0010	0.537	<0.0010	90.9	83.4	<0.001	0.004	<0.125	<0.0010	0.016	<0.00020	<0.001	0.001	296	<0.0010	563	0.45	0.533	0.983
MW-11	3/29/2016		<0.0010	<0.00046	0.039	<0.00034	0.95	<0.00034	140	83	0.0018	<0.00040	0.05	<0.00035	<0.0032	<0.000070	0.0013	0.0014	230	<0.000085	620	0.152	0.101	0.253
	5/18/2016		<0.0010	0.0030	0.02	<0.00034	14.0	<0.00034	650	390	<0.0011	<0.00040	1.6	<0.00035	0.075	<0.000070	0.190	<0.00024	990	<0.000085	2800	0.287	0.837	1.120
	7/19/2016		<0.0010	0.0031	0.022	<0.00034	12.0	<0.00034	540	340	<0.0011	<0.00040	1.8	<0.00035	0.065	0.000086	0.210	<0.00024	770	<0.000085	2700	0.242	0.633	0.875
	9/19/2016		<0.0010	0.0037	0.026	<0.00034	11.0	<0.00034	600	510	<0.0011	<0.00040	1.8	<0.00035	0.100	<0.000070	0.220	0.00036	1200	<0.000085	3300	0.219	0.860	1.080
	11/29/2016		<0.0010	0.0028	0.022	<0.00034	13.0	<0.00034	430	390	<0.0011	<0.00040	1.7	<0.00035	0.079	<0.000070	0.220	<0.00024	830	<0.000085	2400	0.605	0.637	1.240
	2/2/2017		<0.0010	0.0035	0.024	<0.00034	7.8	<0.00034	330	290	<0.0011	<0.00040	2.4	<0.00035	0.062	<0.000070	0.260	<0.00024	550	<0.000085	1700			
	3/29/2017		<0.0010	0.0029	0.025	<0.00034	6.0	<0.00034	350	340	<0.0011	<0.00040	2.2	<0.00035	0.067	0.000075	0.240	<0.00024	700	<0.000085	1600	0.082	1.060	1.140
	5/24/2017		<0.0010	0.0032	0.025	<0.00034	5.7	<0.00034	370	310	<0.0011	<0.00040	2.2	<0.00035	0.062	<0.000070	0.230	<0.00024	680	<0.000085	1700	0.118	0.567	0.684
	10/10/2017						7.8		580	460			2.1						920		2800			
	12/12/2017						8.7		660	440			2.0						910		2700			
	4/18/2018		<0.0010	0.0037	0.024	<0.00034	8.0	<0.00034	470	320	<0.0011	<0.00040	2	<0.00035	0.0780	<0.000070	0.180	<0.00024	780	<0.000085	2100			
	8/15/2018		<0.0010	0.0029	0.029	<0.00034	6.3	<0.00034	250	170	<0.0011	<0.00040	2.5	<0.00035	0.052	<0.000070	0.180	<0.00024	470	<0.000085	1300	0.266	0.588	0.855
	4/9/2019		<0.0010	0.0033	0.030	<0.00034	8.6	<0.00034	390	310	<0.0011	<0.00040	1.9	<0.00035	0.058	<0.000070	0.140	<0.00071	690	<0.000085	1900	0.158	0.521	0.679
	6/5/2019														0.064		0.130							
	9/26/2019		<0.0010	<0.0050	0.049	<0.00500	13.4	<0.00500	623	399	<0.0050	<0.00500	1.9	<0.00500	0.0746	<0.000200	0.139	<0.00500	1330	<0.005000	2840	0.497	1.090	1.587
	3/25/2020		<0.0010	0.003	0.034	<0.0010	12.8	<0.0010	507	278	<0.001	<0.001	1.7	<0.0010	0.0668	<0.00020	0.141	<0.001	1000	<0.0010	2130	0.756	0.566	1.322
	9/24/2020		<0.0010	0.0035	0.031	<0.0010	9.1	<0.0010	326	144	0.001	<0.001	1.9	<0.0010	0.0543	<0.00020	0.143	<0.001	590	<0.0010	1400	0.389	0.147	0.536
	4/20/2021		<0.0010	0.0028	0.025	<0.0010	7.5	<0.0010	267	92.1	<0.001	<0.001	1.9	<0.0010	0.0499	<0.00020	0.109	<0.001	460	<0.0010	1080	-0.0747	0.558	0.558
	10/1/2021		<0.0010	0.0033	0.028	<0.0010	7.2	<0.0010	243	76	<0.001	<0.001	2.2	<0.0010	0.0521	<0.00020	0.115	<0.001	427	<0.0010	968	0.0504	1.61	1.66
	4/27/2022		<0.0010	0.0025	0.027	<0.0010	5.9	<0.0010	198	59	<0.001	<0.001	2.0	<0.0010	0.0419	<0.00020	0.098	<0.001	375	<0.0010	848	0.313	-0.0160	0.313
	10/17/2022		<0.0010	0.0025	0.038	<0.0010	4.4	<0.0050	146	28.2	<0.005	<0.005	2.0	<0.0050	0.0516	<0.00020	0.097	<0.001	262	<0.0050	622	0.301	0.588	0.889
	4/12/2023		<0.0010	0.0028	0.036	<0.0010	1.05	<0.0010	185	33.8	<0.001	<0.001	1.74	<0.0010	0.043	<0.00020	0.092	<0.001	260	<0.0010	634	0.325	1.53	1.86

APPENDIX A
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
Charles R. Lowman Power Plant
Leroy, Alabama

Well No.	Sample Date		Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chloride mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Sulfate mg/L	Thallium mg/L	TDS mg/L	Radium-226 pCi/L	Radium-228 pCi/L	Combined Radium pCi/L
		GWPS	0.006	0.010	2.0	0.0040	-	0.005	-	-	0.100	0.013	4.0	0.015	0.040	0.002	0.100	0.050	-	0.002	-	-	-	5.000
MW-12	3/29/2016		<0.001	0.0027	0.021	<0.00034	12	<0.00034	600	520	<0.0011	<0.00040	1.5	<0.00035	0.1	<0.000070	0.18	0.00025	870	<0.000085	2700	0.313	0.481	0.794
	5/18/2016		<0.001	<0.00046	0.030	<0.00034	1.2	<0.00034	140	80	0.0028	<0.00040	0.040	<0.00035	0.0034	<0.000070	0.0011	0.0042	250	<0.000085	690	0.125	0.245	0.369
	7/19/2016		Dry																					
	9/19/2016		Dry																					
	11/29/2016		Dry																					
	2/1/2017		<0.0010	<0.00046	0.048	<0.00034	0.77	<0.00034	110	89	<0.0011	<0.00040	0.04	<0.00035	<0.0032	<0.000070	<0.00085	0.00046	180	<0.000085	530			
	3/30/2017		<0.0010	<0.00046	0.033	<0.00034	0.58	<0.00034	94	73	0.0013	<0.00040	0.04	<0.00035	0.0035	<0.000070	0.0023	0.00024	180	<0.000085	460	0.051	0.029	0.081
	5/25/2017		<0.0010	<0.00046	0.033	<0.00034	0.88	<0.00034	120	93	0.0023	<0.00040	0.05	<0.00035	0.0053	<0.000070	<0.00085	<0.00024	210	<0.000085	560	0.092	0.230	0.322
	10/10/2017		Dry																					
	4/19/2018		<0.0010	0.00053	0.037	<0.00034	1.3	0.0011	140	130	<0.0011	0.00062	0.04	<0.00035	0.0200	<0.000070	0.0016	0.00027	250	<0.000085	800			
	8/13/2018		Dry																					
	4/9/2019		<0.0010	<0.00046	0.027	<0.00034	1.3	0.00037	120	110	<0.0011	<0.00040	0.05	<0.00035	0.0074	<0.000070	<0.0020	<0.00071	250	<0.000085	660	0.070	0.157	0.228
	9/26/2019		Dry																					
	3/24/2020		<0.0010	<0.0010	0.032	<0.0010	0.698	<0.0010	141	84.9	<0.001	<0.001	<0.125	<0.0010	0.00916	<0.00020	<0.001	<0.001	385	<0.0010	716	1.060	0.643	1.703
	9/24/2020		Dry																					
	4/21/2021		<0.0010	<0.0010	0.035	<0.0010	0.46	<0.0010	112	48.7	0.001	<0.001	<0.125	<0.0010	0.00582	<0.00020	<0.001	<0.001	225	<0.0010	640	-0.112	0.938	0.938
	10/1/2021		<0.0010	<0.0010	0.026	<0.0010	0.566	<0.0010	107	57.3	0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	0.001	236	<0.0010	524	-0.197	1.49	1.49
	4/25/2022		<0.0010	<0.0010	0.029	<0.0010	0.343	<0.0010	100	47.8	0.001	<0.001	<0.125	<0.0010	0.00549	<0.00020	<0.001	0.002	197	<0.0010	516	0.374	0.230	0.604
	4/18/2023		<0.0010	<0.0010	0.035	<0.0010	0.572	<0.0010	139	26.6	0.001	<0.001	<0.125	<0.0010	<0.008	<0.00020	<0.001	0.008	297	<0.0010	606	0.171	0.234	0.405
MW-12A	8/4/2016		<0.0010	0.00051	0.033	<0.00034	0.75	0.00072	170	91	<0.0011	0.0065	0.04	<0.00035	<0.0032	<0.000070	<0.00085	0.012	310	<0.000085	810	0.156	0.251	0.406
	9/19/2016		<0.0010	<0.00046	0.025	<0.00034	0.75	0.00061	160	91	<0.0011	0.0038	0.04	<0.00035	0.0034	<0.000070	<0.00085	0.0077	330	<0.000085	750	0.108	0.243	0.351
	11/29/2016		<0.0010	<0.00046	0.026	<0.00034	0.97	0.00077	150	98	<0.0011	0.0044	<0.032	<0.00035	0.0037	<0.000070	<0.00085	0.0083	350	<0.000085	770	0.002	0.206	0.208
	2/1/2017		<0.0010	<0.00046	0.076	<0.00034	1.3	0.00068	130	120	<0.0011	0.0110	0.04	<0.00035	0.0170	<0.000070	<0.00085	0.00037	200	<0.000085	670			
	3/30/2017		<0.0010	<0.00046	0.046	<0.00034	0.59	<0.00034	92	74	<0.0011	0.0042	0.04	<0.00035	0.0064	0.000073	<0.00085	<0.00024	170	<0.000085	460	0.060	0.340	0.400
	5/25/2017		<0.0010	<0.00046	0.037	<0.00034	0.68	0.00069	110	90	0.0011	0.0028	0.05	<0.00035	0.0061	<0.000070	0.00088	0.002	210	<0.000085	550	SD	SD	SD
	10/10/2017						0.83		120	83			0.04						230		620			
	12/13/2017						0.7		120	77			0.045						220		630			
	4/19/2018		<0.0010	0.00068	0.055	<0.00034	2.4	0.00110	190	180	<0.0011	0.0340	0.05	<0.00035	0.045	<0.000070	<0.00085	0.00046	320	0.0001	900			
	8/14/2018		<0.0010	<0.00046	0.028	<0.00034	0.78	0.00047	110	91	0.0018	0.0026	0.05	<0.00035	0.0084	<0.000070	0.00190	0.00091	210	<0.000085	520	0.282	0.142	0.424
	4/9/2019		<0.0010	<0.00046	0.028	<0.00034	1.3	0.00056	110	110	<0.0011	0.0074	0.05	<0.00035	0.014	<0.000070	<0.0020	<0.00071	240	<0.000085	660	0.079	0.350	0.429
	9/26/2019		<0.0010	<0.00100	0.028	<0.00100	0.67	<0.00100	109	84	0.00117	0.0032	<0.125	<0.00100	0.0087	<0.000200	<0.00100	0.00206	261	<0.001000	557	0.588	0.869	1.457
	3/24/2020		<0.0010	<0.0010	0.036	<0.0010	0.65	<0.0010	141	85	<0.001	0.0040	<0.125	<0.0010	<0.0250	<0.00020	<0.001	<0.001	395	<0.0010	717	0.812	0.759	1.571
	9/24/2020		<0.0010	<0.0010	0.032	<0.0010	0.66	<0.0010	99.7	77	0.002	<0.001	<0.125	<0.0010	0.0076	<0.00020	<0.001	0.002	232	<0.0010	538	0.056	-0.308	0.056
	4/21/2021		<0.0010	<0.0010	0.037	<0.0010	0.43	<0.0010	96.8	67	<0.001	0.0010	<0.125	<0.0010	0.00869	<0.00020	<0.001	<0.001	211	<0.0010	575	0.0629	0.237	0.300
	10/1/2021		<0.0010	<0.0010	0.027	<0.0010	0.56	<0.0010	95.4	74	0.001	<0.001	<0.125	<0.0010	0.00683	<0.00020	<0.001	<0.001	241	<0.0010	242	0.0106	0.415	0.426
	4/26/2022		<0.0010	0.0597	0.274	<0.0010	0.53	<0.0010	115	46	<0.001	0.0130	<0.125	<0.0010	0.00621	<0.00020	0.001	0.001	190	<0.0010	460	0.0501	0.208	0.258
	4/18/2023		<0.0010	<0.0010	0.028	<0.0010	0.41	<0.0010	90.5	58	<0.001	<0.001	<0.125	<0.0010	<0.008	<0.00020	<0.001	0.001	211	<0.0010	447	0.797	0.623	1.420
MW-13	3/29/2016																							
	5/18/2016		<0.0010	0.00074	0.11	<0.00034	1.4	<0.00034	120	44	<0.0011	0.00078	0.070	<0.00035	<0.0032	<0.000070	<0.00085	0.00074	230	<0.000085	520	0.194	0.209	0.403
	7/19/2016		<0.0010	0.00074	0.057	<0.00034	0.97	<0.00034	72	34	<0.0011	0.00048	0.080	<0.00035	<0.0032	0.000083	<0.00085	0.00027	130	<0.000085	370	0.086	0.657	0.743
	9/19/2016		<0.0010	0.00067	0.059	<0.00034	0.79	<0.00034	63	36	<0.0011	0.00061	0.080	<0.00035	<0.0032	<0.000070	<0.00085	0.00086	90	<0.000085	310	0.166	0.192	0.358
	11/29/2016		<0.0010	0.00088	0.091	<0.00034	1.4	<0.00034	100	170	<0.0011	0.00088	0.060	<0.00035	<0.0032	<0.000070	<0.00085	0.0016	120	<0.000085	740	0.268	0.774	1.040
	1/30/2017		<0.0010	0.00088	0.12	<0.00034	0.8	<0.00034	130	130	<0.0011	0.00053	0.06	<0.00035	<0.0032	<0.000070	<0.00085	0.0009	170	<0.000085	570			
	3/27/2017		<0.0010	0.00083	0.11	<0.00034	1.1	<0.00034	110	74	<0.0011	0.00072	0.07	<0.00035	<0.0032	0.000091	0.0051	0.0035	160	<0.000085	480	0.119	0.187	0.306
	5/22/2017		<0.0010	0.00078	0.08	<0.00034	1.1	<0.00034	90	39	<0.0011	<0.00040	0.09	<0.00035	<0.0032	<0.000070	<0.00085	0.0003	120	<0.000085	350	0.107	0.244	0.351
	10/10/2017						0.55		72	13			0.1						63		250			
	12/12/2017						0.41		73	13			0.11						58		270			
	4/18/2018		<0.0010	0.0028	0.067	<0.00034	0.31	<0.00034	48	7.2	<0.0011	<0.00040	0.11	<0.00035	<0.0011	<0.000070	<0.00085	0.0014	41	<0.000085	170			
	8/15/2018		<0.0010	<0.00046	0.08	<0.00034	0.46	<0.00034	60	10	<0.0011	<0.00040	0.13	0.00088	<0.0011	<0.000070	<0.00085	0.00088	49	<0.000085	200	0.395	-0.077	0.318
	4/9/2019		<0.0010	0.00082	0.068	<0.00034	0.36	<0.00034	50	5.6	<0.0011	<0.00040	0.100	<0.00035	<0.0011	<0.000070	<0.0020	0.00076	32	<0.000085	200	0.180	0.194	0.374
	9/23/2019		<0.0010	<0.0010	0.075	<0.00100	0.58	<0.00100	47	15	<0.0010	<0.00100	0.132	<0.00100	<0.0050	<0.000200	<0.0010	<0.00100	42	<0.00100	210	0.753	0.865	1.620
	3/25/2020		<0.0010	0.0027	0.097	<0.0010	0.237	<0.0100	60	2.49	0.001	<0.001	0.152	<0.0010	<0.0250	<0.00020	<0.001	0.001	42	<0.0010	222	0.933	0.571	1.504
	9/21/2020		Dry																					
	4/19/2021		<0.0010	0.0021	0.092	<0.0010	0.289	<0.0010	58	4.5	<0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	0.003	48	<0.0010	204	0.396	0.371	0.767
	9/28/2021		<0.0010	0.0018	0.111	<0.0010	0.346	<0.0010	63	1.82	<0.001	<0.001	0.203	<0.0010	<0.0050	<0.00020	<0.001	0.002	47	<0.0010	559	0.447	1.19	1.64
	5/2/2022		<0.0010	0.0017	0.095	<0.0010	1.00	<0.0010	53	2.18	<0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	0.001	47	<0.0010	174	0.449	0.699	1.15
	10/18/2022		<0.0010	0.003	0.085	<0.0010	0.68	<0.0010	50	2.82	<0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	31	<0.0010	187	0.381	-0.0108	0.381
	4/10/2023		<0.0010	0.0098	0.096	<0.0010	0.204	<0.0010	53.8	1.94	<0.001	0.002	0.13	<0.0010	<0.008	<0.00020	<0.001	<0.001	27.9	<0.0010	228	0.464	0.772	1.24
MW-13A	4/8/2019		<0.0010	0.0069	0.12	<0.00034	0.022	<0.00034	16	27	<0.0011	0.011	0.060	<0.00035	0.0050	<0.000070	<0.0020	<0.00071	54	<0.000085	190	0.205	0.128	0.333
	8/1/2019		<0.0010	0.0123	0.158	<0.0010	0.0128	<0.0010	23	37	<0.0010	0.0116	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	83.3	<0.0010	264	0.278	0.871	1.149
	9/23/2019		<0.0010	0.0113	0.171	<0.0010	0.0187	<0.0010	21	42	<0.0010	0.0113	<0.125	<0.0010	0.0062	<0.00020	<0.0010	<0.0010	76	<0.0010	289	0.889	0.849	1.740
	11/18/2019		<0.0010	0.00988	0.176	<0.0010	0.0145	<0.0010	22	47	<0.0010	0.012	<0.125	<0.0010	0.0051	<0.00020	<0.0010	<0.0010	81.2	<0.0010	236	0.559	0.864	1.420
	1/30/2020		<0.0010	0.0112	0.183	<0.0010	0.0133	<0.0010	23	48	<0.0010	0.0116	<0.125	<0.0010	0.0085	<0.0002	<0.0010	<0.0010	85.7	<0.0010	278	0.059	0.371	0.430
	3/25/2020		<0.0010	0.0132	0.2	<0.0010	0.024	<0.0010	25	50	<0.001	0.013	<0.125	<0.0010	<0.0250	<0.00020	<0.001	<0.001	89.6	<0.0010	266	0.670	0.588	1.258
	6/23/2020		<0.0010	0.0134	0.187	<0.0010	0.023	<0.0010	24	50	<0.001	0.012	<0.125	<0.0010	0.0064	<0.00020	<0.001	<0.001	72.6	<0.0010	287	0.767	0.706	1.470
	9/21/2020		<0.0010	0.0105	0.191	<0.0010	0.012	<0.0010	23	50	<0.001	0.01	<0.125	<0.0010	0.0066	<0.00020	<0.001	<0.001	72.8	<0.0010	242	0.468	0.837	1.310
	4/19/2021		<0.0010	0.0092	0.183	<0.0010	0.023	<0.0010	27	56	<0.001	0.01	<0.125	<0.0010	0.00673	<0.00020	<0.001	<0.001	75.0	<0.0010	312	0.234	0.761	0.995
	9/28/2021		<0.0010	0.0103	0.169	<0.0010	0.03	<0.0010	29	57	<0.001	0.011	<0.125	<0.0010	0.0062	<0.00020	<0.001	<0.001	86.5	<0.0010	340	0.501	1.32	1.82
	4/27/2022		<0.0010	0.0092	0.182	<0.0010	0.028	<0.0010	28	61	0.001	0.011	<0.125	<0.0010	0.00624	<0.00020	<0.001	<0.001	80.7	<0.0010	323	0.220	0.481	0.701
	10/17/2022		<0.0010	0.0071	0.165	<0.0010	0.032	<0.0010	25	65	<0.005	0.012	<0.125	<0.0050	0.00762	<0.00020	<0.001	<0.001	91	<0.0050	339	0.403	0.507	0.910
	4/11/2023		<0.0010	0.0081	0.151	<0.0010	0.068	<0.0010	27.6	71.3	<0.001	0.011	<0.125	<0.0010	0.00949	<0.00020	<0.001	<0.001	91.3	<0.0010	308	0.073	0.258	0.331

APPENDIX A
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
Charles R. Lowman Power Plant
Leroy, Alabama

Well No.	Sample Date		Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chloride	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Sulfate	Thallium	TDS	Radium-226	Radium-228	Combined Radium
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
		GWPS	0.006	0.010	2.0	0.0040	-	0.005	-	-	0.100	0.013	4.0	0.015	0.040	0.002	0.100	0.050	-	0.002	-	-	-	5.000
MW-14	3/29/2016																							
	5/18/2016		<0.0010	0.200	0.29	<0.00034	0.320	<0.00034	94	70	<0.0011	0.0022	0.22	<0.00035	<0.0032	<0.000070	<0.00085	0.0011	<1.4	<0.000085	470	0.335	0.692	1.030
	7/19/2016		Dry																					
	9/19/2016		Dry																					
	11/29/2016		Dry																					
	1/31/2017		<0.0010	0.0008	0.21	0.00075	3.4	0.0026	160	190	<0.0011	0.26	0.04	<0.00035	0.0035	<0.000070	<0.00085	<0.00024	260	0.00015	870			
	3/29/2017		<0.0010	0.0012	0.063	0.00053	3.6	0.0015	160	190	<0.0011	0.35	<0.032	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	440	0.00014	1100	0.239	0.263	0.502
	5/23/2017		<0.0010	0.0013	0.12	<0.00034	1.4	0.0012	100	110	<0.0011	0.14	0.06	<0.00035	<0.0032	<0.000070	<0.00085	<0.00024	170	0.00013	580	0.264	0.111	0.375
	10/10/2017		Dry																					
	4/17/2018		<0.0010	0.017	0.23	<0.00034	1.7	<0.00034	180	140	<0.0011	0.055	0.15	<0.00035	<0.0011	<0.000070	<0.00085	0.00085	260	<0.000085	970			
	8/13/2018		Dry																					
	4/10/2019		<0.0010	0.017	0.19	<0.00034	0.77	<0.00034	150	75	<0.0011	0.043	0.19	<0.00035	0.0015	<0.000070	<0.00085	<0.000071	160	<0.000085	780	0.219	0.538	0.757
	6/5/2019			0.019								0.054												
	9/26/2019		Dry																					
	3/24/2020		<0.0010	0.0072	0.169	<0.0010	0.92	<0.0010	258	72.2	<0.001	0.052	0.194	<0.0010	<0.0250	<0.00020	<0.001	<0.001	281	<0.0010	678	0.818	0.706	1.524
	9/24/2020		Dry																					
	4/22/2021		<0.0010	0.0132	0.238	<0.0010	0.7	<0.0010	126	56.5	<0.001	0.025	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	123	<0.0010	667	0.695	2.12	2.82
	9/29/2021		<0.0010	0.0368	0.292	<0.0010	0.352	<0.0010	108	26.1	<0.001	0.014	0.178	<0.0010	<0.0050	<0.00020	0.001	0.001	51.1	<0.0010	522	0.559	1.07	1.63
	4/26/2022		<0.0010	0.0635	0.282	<0.0010	0.544	<0.0010	119	43.5	<0.001	0.014	0.186	<0.0010	<0.0050	<0.00020	0.001	0.001	98.9	<0.0010	613	0.160	0.399	0.559
	4/13/2023		<0.0010	0.014	0.111	<0.0010	1.12	<0.0010	102	78.1	<0.001	0.059	<0.125	<0.0010	<0.008	<0.00020	<0.001	<0.001	214	<0.0010	466	0.703	0.613	1.32
MW-14A	8/4/2016		<0.0010	0.0015	0.49	<0.00034	4.4	0.00087	200	210	<0.0011	0.076	0.050	<0.00035	0.063	<0.000070	<0.00085	<0.00024	340	<0.000085	1100	0.282	0.931	1.210
	9/19/2016		<0.0010	0.0010	0.035	<0.00034	5.0	0.0012	180	220	<0.0011	0.085	0.050	<0.00035	0.044	<0.000070	<0.00085	<0.00024	390	<0.000085	1100	0.202	0.615	0.817
	12/1/2016		<0.0010	0.0036	0.060	<0.00034	6.0	0.0012	170	220	<0.0011	0.079	0.050	<0.00035	0.035	<0.000070	<0.00085	<0.00024	360	<0.000085	1100	0.574	0.409	0.983
	1/31/2017		<0.0010	0.0009	0.037	<0.00034	4.5	0.0025	220	230	<0.0011	0.12	<0.032	<0.00035	0.044	<0.000070	<0.00085	<0.00024	300	<0.000085	1200			
	3/29/2017		<0.0010	0.0014	0.035	<0.00034	4.4	0.00073	220	250	<0.0011	0.096	0.04	<0.00035	0.045	0.00011	<0.00085	<0.00024	470	<0.000085	1200	0.276	0.372	0.648
	5/23/2017		<0.0010	0.0012	0.046	<0.00034	4.2	0.0018	230	240	<0.0011	0.140	0.04	<0.00035	0.018	<0.000070	<0.00085	0.00034	480	0.000095	1100	0.118	0.469	0.587
	10/10/2017						3.6		210	220			0.04						390		1200			
	12/11/2017						3.6		250	220			0.07						460		1300			
	4/17/2018		<0.0010	0.0045	0.05	<0.00034	3.9	0.0016	250	270	<0.0011	0.150	0.05	<0.00035	0.047	<0.000070	<0.00085	<0.00024	460	<0.000085	1400			
	8/15/2018		<0.0010	0.0040	0.056	<0.00034	2.3	0.0027	170	210	<0.0011	0.120	0.05	<0.00035	0.016	<0.000070	<0.00085	<0.00024	360	<0.000085	1100	0.404	0.334	0.739
	4/10/2019		<0.0010	0.0075	0.072	<0.00034	2.9	<0.00034	190	210	<0.0011	0.110	0.06	<0.00035	0.026	<0.000070	<0.00200	<0.00071	390	<0.000085	1000	0.225	0.445	0.670
	6/5/2019											0.110												
	9/26/2019		<0.0010	0.0042	0.053	<0.00100	2.4	0.00715	167	174	<0.0010	0.111	<0.125	<0.00100	0.0177	<0.0002	<0.00100	<0.00100	442	<0.001000	933	0.409	0.837	1.246
	3/23/2020		<0.0010	0.0059	0.070	<0.0010	1.54	<0.0010	114	102	<0.001	0.057	<0.125	<0.0010	0.0136	<0.00020	<0.001	<0.001	217	<0.0010	636	0.598	0.958	1.556
	9/24/2020		<0.0010	0.0076	0.064	<0.0010	1.51	<0.0010	118	110	<0.001	0.082	<0.125	<0.0010	0.0103	<0.00020	<0.001	<0.001	249	<0.0010	684	0.179	0.365	0.544
	4/22/2021		<0.0010	0.0106	0.055	<0.0010	1.1	<0.0010	84.3	54	<0.001	0.036	<0.125	<0.0010	0.0114	<0.00020	<0.001	<0.001	113	<0.0010	512	0.000	0.472	0.472
	9/29/2021		<0.0010	0.0117	0.085	<0.0010	1.19	<0.0010	88.8	56.3	<0.001	0.039	0.136	<0.0010	0.00884	<0.00020	<0.001	<0.001	117	<0.0010	518	-0.00967	0.527	0.527
	5/4/2022		<0.0010	0.0091	0.075	<0.0010	1.1	<0.0010	82.3	55.5	<0.001	0.048	<0.125	<0.0010	0.00693	<0.00020	<0.001	<0.001	116	<0.0010	492	0.368	0.209	0.577
	10/12/2022		<0.0010	0.0054	0.061	<0.0010	1.26	<0.0010	84.3	87.6	<0.001	0.042	<0.125	<0.0010	0.00679	<0.00020	<0.001	<0.001	171	<0.0010	548	0.324	0.574	0.898
	4/13/2023		<0.0010	0.0067	0.055	<0.0010	0.851	<0.0010	97	46.3	<0.001	0.035	<0.125	<0.0010	0.0118	<0.00020	<0.001	<0.001	91	<0.0010	392	0.148	1.18	1.33
MW-14B	9/29/2021		<0.0010	0.0010	0.172	<0.0010	2.6	<0.0010	151	165	<0.001	<0.001	<0.125	<0.0010	0.194	<0.00020	0.042	<0.001	358	<0.0010	955	0.201	0.795	0.996
	4/26/2022		<0.0010	<0.0010	0.089	<0.0010	0.418	<0.0010	55.5	68.9	<0.001	<0.001	<0.125	<0.0010	0.0939	<0.00020	0.023	<0.001	88.9	<0.0010	454	0.547	0.294	0.841
	10/12/2022		<0.0010	0.0017	0.179	<0.0010	2.88	<0.0010	134	184	<0.001	<0.001	<0.125	<0.0010	0.177	<0.00020	0.047	<0.001	387	<0.0010	1060	0.494	1.35	1.84
	4/13/2023		<0.0010	0.001	0.069	<0.0010	0.338	<0.0010	48.3	63.1	<0.001	<0.001	<0.125	<0.0010	0.0834	<0.00020	0.023	<0.001	73.6	<0.0010	294	0.485	0.74	1.23
MW-15	4/7/2019		<0.0010	0.0012	0.093	<0.00034	0.052	<0.00034	22	14	<0.0011	0.014	0.06	<0.00035	0.0038	<0.000070	<0.0020	<0.00071	34	<0.000085	150	0.112	0.105	0.217
	7/31/2019		<0.0010	0.0023	0.0704	<0.0010	0.0517	<0.0010	14.7	8.91	<0.0010	0.0092	<0.125	<0.0010		<0.00020	<0.0010	<0.0010	32.8	<0.0010	104			
	7/31/2019		<0.0010	0.0023	0.0704	<0.0010	0.0517	<0.0010	14.7	8.91	<0.0010	0.0092	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	32.8	<0.0010	104	0.320	0.912	1.232
	9/24/2019		<0.0010	0.0016	0.0681	<0.0010	0.0518	<0.0010	14.5	8.58	0.00102	0.00544	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	29.6	<0.0010	128	1.160	0.897	2.060
	11/20/2019		<0.0010	<0.0010	0.0738	<0.0010	0.0447	<0.0010	12.4	8.43	<0.0010	0.00477	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	32.1	<0.0010	98.9	0.565	0.927	1.490
	1/30/2020		<0.0010	<0.0010	0.0745	<0.0010	0.0294	<0.0010	12.5	7.65	<0.0010	0.00218	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	36.3	<0.0010	106	-0.0495	0.381	0.381
	3/23/2020		<0.0010	<0.0010	0.057	<0.0010	0.034	<0.0010	10.7	5.96	0.001	0.001	<0.125	<0.0010	0.00756	<0.00020	<0.001	<0.001	27.3	<0.0010	76	0.612	0.817	1.429
	6/22/2020		<0.0010	<0.0010	0.057	<0.0010	0.039	<0.0010	12.1	5.34	<0.001	0.004	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	26.8	<0.0010	87.7	0.749	0.722	1.470
	9/21/2020		<0.0010	<0.0010	0.062	<0.0010	0.033	<0.0010	11.3	5.56	0.001	<0.001	<0.125	<0.0010	<0.005	<0.00020	<0.001	<0.001	28.4	<0.0010	112	0.062	1.220	1.280
	4/20/2021		<0.0010	<0.0010	0.066	<0.0010	0.032	<0.0010	11.4	6.65	0.001	<0.001	<0.125	<0.0010	<0.005	<0.00020	<0.001	<0.001	27	<0.0010	83.3	0.522	0.784	1.31
	10/4/2021		<0.0010	<0.0010	0.059	<0.0010	0.027	<0.0010	13.1	5.7	<0.001	0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	27.6	<0.0010	66	0.401	-0.415	0.401
	4/26/2022		<0.0010	<0.0010	0.061	<0.0010	0.037	<0.0010	9.38	5.46	<0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	20.3	<0.0010	70	0.0521	0.393	0.445
	10/12/2022		<0.0010	<0.0010	0.048	<0.0010	0.041	<0.0010	9.16	4.78	<0.001	0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	20.2	<0.0010	79.5	0.200	0.473	0.673
	4/12/2023		<0.0010	<0.0010	0.048	<0.0010	0.026	<0.0010	9.78	4.91	<0.001	<0.001	<0.125	<0.0010	<0.008	<0.00020	<0.001	<0.001	23.1	<0.0010	85.7	0.069	0.622	0.691
MW-16	4/8/2019		<0.0010	0.0046	0.29	<0.00034	2.5	<0.00034	120	130	<0.0011	0.030	0.09	<0.00035	0.0460	<0.000070	<0.0020	<0.00071	210	<0.000085	700	0.464	0.702	1.170
	6/4/2019		-	-	-	-	-	-	-	-	-	0.024	-	-	-	-	<0.0020	-	-	-	-	-	-	-
	7/31/2019		<0.0010	0.0074	0.268	<0.0010	2.18	<0.0010	130	107	<0.0010	0.0238	<0.125	<0.0010	0.0322	<0.00020	0.00128	<0.0010	198	<0.0010	726	0.764	0.894	1.658
	9/25/2019		<0.0050	0.0086	0.233	<0.0050	1.89	<0.0050	121	102	<0.0050	0.0223	<0.125	<0.005	0.0353	<0.0002	<0.0050	<0.0050	190	<0.0050	602	0.394	0.809	1.246
	11/19/2019		<0.0010	0.0050	0.169	<0.0010	2.67	<0.0010	123	107	<0.0010	0.02	<0.125	<0.0010	0.0399	<0.00020	<0.0010	<0.0010	193	<0.0010	576	0.593	0.738	1.330
	1/30/2020		<0.0010	0.0032	0.126	<0.0010	1.53	<0.0010	105	76	<0.0010	0.0181	0.192	<0.0010	0.0379	<0.00020	0.00118	<0.0010	129	<0.0010	555	0.149	0.432	0.581
	3/23/2020		<0.0010	0.0037	0.129	<0.0010	1.02	<0.0010	87.7	73.3	0.001	0.017	0.199	<0.0010	0.0371	<0.00020	0.001	<0.001	119	<0.0010	463	0.726	0.882	1.608
	6/22/2020		<0.0010	0.0037	0.147	<0.0010	1.48	<0.0010	90.7	58.5	<0.001	0.015	<0.125	<0.0010	0.0429	<0.00020	0.001	<0.001	106	<0.0010	520	0.533	0.791	1.320
	9/22/2020		<0.0010	0.0071	0.232	<0.0010	1.36	<0.0010	106	77.2	<0.001	0.022	<0.125	<0.0010	0.0287	<0.00020	<0.001	<0.001	129	<0.0010	517	0.687	1.510	2.200
	4/20/2021		<0.0010	0.0025	0.136	<0.0010	1.19	<0.0010	80.3	56.7	<0.001	0.012	<0.125	<0.0010	0.0526	<0.00020	0.001	<0.001	95.8	<0.0010	469	0.240	0.303	0.543
	10/4/2021		<0.0010	0.0031	0.158	<0.0010	1.24	<0.0010	87.3	73.6	<0.001	0.016	<0.125	<0.0010	0.0519	<0.00020	0.001	<0.001	123	<0.0010	492	-0.128	0.585	0.585
	4/26/2022		<0.0010	0.0018	0.13	<0.0010	0.767	<0.0010	70.4	45.9	<0.001	0.011	<0.125	<0.0010	0.0405	<0.00020	0.001	<0.001	79.2	<0.0010	440	-0.0503	0.923	0.923
	10/12/2022		<0.0010	0.0039	0.156	<0.0010	0.712	<0.0010	71.4	45.3	<0.001	0.016	<0.125	<0.0010	0.0334	<0.00020	<0.001	<0.001	72.5	<0.0010	385	0.483	0.618	1.10
	4/12/2023		<0.0010	0.0014	0.092	<0.0010	0.55	<0.0010	59.3	32.2	<0.001	0.006	<0.125	<0.0010	0.0344	<0.00020	<0.001	<0.001	52.1	<0.0010	322	0.425	0.561	0.986
MW-17	4/8/2019		<0.0010	0.016	0.260	<0.00034	5.6	<0.00034	220	240	<0.0011	0.042	1.1	<0.00035	0.1500	<0.000070	0.220	<0.00071	220	<0.000085	1300	0.342	0.446	0.788
	6/4/2019			0.029								0.013			0.0980		0.160							
	7/31/2019		<0.0010	0.030	0.217	<0.0010	4.38	<0.0010	188	166	<0.0010	0.0301	0.342	<0.0010	0.0897	<0.00020	0.110	<0.0010	223	<0.0010	945	0.903	1.300	2.203
	9/26/2019		<0.0010	0.016	0.099	<0.0050	4.00	<0.0010	162	143	<0.0010	0.0322	0.339	<0.0010	0.0925	<0.00020	0.103	<0.0010	232	<0.0010	765	0.875	0.748	1.623
	11/19/2019		<0.0010	0.052	0.097	<0.0010	5.12	<0.0010	185	179	<0.0010	0.0195	1.48	<0.0010	0.1320	<0.00020	0.224	<0.0010	207	<0.0010	792	1.340	0.884	2.220
	1/30/2020		<0.0010	0.046	0.073	<0.0010	4.73	<0.0010	212	196	<0.0010	0.017	1.71	<0.0010	0.1240	<0.00020	0.128	<0.0010	192	<0.0010	1050	0.150	0.935	1.09
	3/25/2020		<0.0010	0.054	0.071	<0.0010	9.05	<0.0010	350	170	<0.001	0.02	1.21	<0.0010	0.1150	<0.00020	0.087	<0.001	278	<0.0010	872	0.796	0.782	1.578
	6/23/2020		<0.0010	0.043	0.096	<0.0010	4.75	<0.0010	194	184	<0.001	0.016	1.32	<0.0010	0.1070	<0.00020	0.124	<0.001	168	<0.0010	998	0.602	0.791	1.390
	9/22/2020		<0.0010	0.024	0.152	<0.0010	3.09	<0.0010	131	126	<0.001	0.02	0.322	<0.0010	0.0469	<0.00020	0.011	<0.001	88.7	<0.0010	642	0.517	0.494	1.010
	4/19/2021		<0.0010	0.045	0.057	<0.0010	3.48	<0.0010	147	129	<0.001	0.016	1.37	<0.0010	0.1090	<0.00020	0.109	<0.001	149	<0.0010	724	0.139	-0.113	0.139
	9/28/2021		<0.0010	0.063	0.061	<0.0010	2.93	<0.0010	146	123	<0.001	0.015	1.96	<0.0010	0.1030	<0.00020	0.145	<0.001	164	<0.0010	695	0.0650	0.603	0.668
	5/3/2022		<0.0010	0.047	0.058	<0.0010	2.77	<0.0010	122	103	<0.001	0.017	1.69	<0.0010	0.0877	<0.00020	0.112	<0.001	141	<0.0010	600	0.0549	0.623	0.678
	10/12/2022		<0.0010	0.021	0.158	<0.0010	2.66	<0.0010	120	109	<0.001	0.03	0.472	<0.0010	0.0470	<0.00020	0.015	<0.001	174	<0.0010	672	0.216	0.763	0.979
	4/12/2023		<0.0010	0.0569	0.054	<0.0010	2.33	<0.0010	115	102	<0.001	0.016	1.43	<0.0010	0.0992	<0.00020	0.089	<0.001	157	<0.0010	603	-0.254	0.071	0.071

APPENDIX A
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
Charles R. Lowman Power Plant
Leroy, Alabama

Well No.	Sample Date		Antimony mg/L	Arsenic mg/L	Barium mg/L	Beryllium mg/L	Boron mg/L	Cadmium mg/L	Calcium mg/L	Chloride mg/L	Chromium mg/L	Cobalt mg/L	Fluoride mg/L	Lead mg/L	Lithium mg/L	Mercury mg/L	Molybdenum mg/L	Selenium mg/L	Sulfate mg/L	Thallium mg/L	TDS mg/L	Radium-226 pCi/L	Radium-228 pCi/L	Combined Radium pCi/L
		GWPS	0.006	0.010	2.0	0.0040	-	0.005	-	-	0.100	0.013	4.0	0.015	0.040	0.002	0.100	0.050	-	0.002	-	-	-	5.000
MW-18	4/7/2019		<0.0010	0.0063	0.290	<0.00034	0.17	<0.00034	45	16	<0.0011	0.0046	0.11	<0.00035	0.0030	<0.000070	<0.0020	<0.00071	17	<0.000085	260	0.463	0.173	0.636
	8/1/2019		<0.0010	<0.0010	0.156	<0.0010	0.132	<0.0010	36.4	14.9	<0.0010	<0.0010	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	35	<0.0010	196	0.786	0.799	1.585
	9/24/2019		<0.0010	<0.0010	0.148	<0.0010	0.145	<0.0010	34.5	15.5	<0.0010	<0.0010	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	28	<0.0010	220	0.465	0.785	1.250
	11/19/2019		<0.0010	<0.0010	0.139	<0.0010	0.134	<0.0010	33.4	17.3	0.0014	<0.0010	0.135	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	27	<0.0010	157	0.703	0.853	1.560
	1/29/2020		<0.0010	0.00691	0.284	<0.0010	0.073	<0.0010	45.5	12.3	<0.0010	0.0049	0.271	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	<1.00	<0.0010	263	0.327	0.836	1.16
	3/25/2020		<0.0010	0.0044	0.271	<0.0010	0.078	<0.0010	42.7	12.6	0.001	0.004	0.129	<0.0010	<0.0250	<0.00020	<0.001	<0.001	3.65	<0.0010	227	0.710	0.665	1.375
	6/23/2020		<0.0010	0.0015	0.191	<0.0010	0.109	<0.0010	37.8	12.8	0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	12.8	<0.0010	208	0.731	0.778	1.510
	9/22/2020		<0.0010	<0.0010	0.128	<0.0010	0.168	<0.0010	32	13.7	<0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	25.2	<0.0010	170	0.000	0.228	0.228
	4/19/2021		<0.0010	0.0067	0.273	<0.0010	0.07	<0.0010	52.9	12.1	<0.001	0.002	0.138	<0.0010	<0.0050	<0.00020	<0.001	<0.001	<1.00	<0.0010	238	0.199	0.274	0.473
	9/29/2021		<0.0010	<0.0010	0.115	<0.0010	0.108	<0.0010	30.4	13.1	<0.001	<0.001	0.143	<0.0010	<0.0050	<0.00020	<0.001	<0.001	30.6	<0.0010	163	0.509	0.341	0.850
	4/26/2022		<0.0010	0.0031	0.228	<0.0010	0.085	<0.0010	47.4	12.4	<0.001	0.001	0.146	<0.0010	<0.0050	<0.00020	<0.001	<0.001	1.15	<0.0010	234	0.256	0.420	0.676
	10/12/2022		<0.0010	<0.0010	0.14	<0.0010	0.145	<0.0010	34.1	12.5	<0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	28.4	<0.0010	239	-0.245	0.283	0.283
	4/12/2023		<0.0010	0.0109	0.186	<0.0010	0.098	<0.0010	43.9	12.5	<0.001	<0.001	<0.125	<0.0010	<0.008	<0.00020	<0.001	<0.001	2.04	<0.0010	208	-0.551	0.809	0.809
MW-19	4/7/2019		<0.0010	<0.00046	0.095	<0.00034	0.38	0.00049	41	31	<0.0011	0.014	0.04	<0.00035	0.0110	<0.000070	<0.0020	<0.00071	90	<0.000085	210	0.155	0.376	0.530
	6/4/2019														0.0090									
	8/1/2019		<0.0010	<0.0010	0.0751	<0.0010	0.295	<0.0010	42.7	31.2	0.0011	0.00845	<0.125	<0.0010	0.0079	<0.00020	<0.0010	<0.0010	107	<0.0010	258	1.020	1.010	2.030
	9/25/2019		<0.0010	<0.0010	0.0641	<0.0010	0.328	<0.0010	39.3	30.1	0.0011	0.00723	<0.125	<0.0010	0.0092	<0.00020	<0.0010	<0.0010	94	<0.0010	283	0.967	0.915	1.880
	11/20/2019		<0.0010	<0.0010	0.0470	<0.0010	0.309	<0.0010	34.5	25.1	<0.0010	0.0068	<0.125	<0.0010	0.0093	<0.00020	<0.0010	<0.0010	91	<0.0010	229	0.576	0.811	1.390
	1/29/2020		<0.0010	<0.0010	0.0517	<0.0010	0.241	<0.0010	34.2	12.6	<0.0010	0.00444	<0.125	<0.0010	0.0139	<0.00020	<0.0010	<0.0010	73.7	<0.0010	145	-0.0524	0.702	0.702
	3/25/2020		<0.0010	<0.0010	0.063	<0.0010	0.261	<0.0010	39.3	19.1	0.0010	0.005	<0.125	<0.0010	<0.0250	<0.00020	<0.001	<0.001	84.7	<0.0010	220	0.523	0.602	1.125
	6/23/2020		<0.0010	<0.0010	0.064	<0.0010	0.239	<0.0010	34.1	17.5	0.0010	0.005	<0.125	<0.0010	0.0084	<0.00020	<0.001	<0.001	72.5	<0.0010	220	0.107	0.833	1.900
	9/22/2020		<0.0010	<0.0010	0.059	<0.0010	0.33	<0.0010	37.4	23.4	<0.001	0.005	<0.125	<0.0010	0.0102	<0.00020	<0.001	<0.001	84.3	<0.0010	217	0.201	0.322	0.523
	4/20/2021		<0.0010	<0.0010	0.05	<0.0010	0.172	<0.0010	28	9.31	<0.001	0.001	<0.125	<0.0010	0.0103	<0.00020	<0.001	<0.001	49.1	<0.0010	166	-0.0630	0.131	0.131
	9/28/2021		<0.0010	<0.0010	0.063	<0.0010	0.207	<0.0010	28.4	11.2	<0.001	0.001	<0.125	<0.0010	0.00914	<0.00020	<0.001	<0.001	61.9	<0.0010	170	0.384	0.465	0.849
	4/26/2022		<0.0010	<0.0010	0.066	<0.0010	0.199	<0.0010	28.5	11.2	<0.001	0.001	<0.125	<0.0010	0.00874	<0.00020	<0.001	<0.001	57.3	<0.0010	188	0.189	0.134	0.323
	10/18/2022		<0.0010	<0.0010	0.072	<0.0010	0.243	<0.0050	31.8	22.9	<0.005	<0.005	<0.125	<0.0050	0.00994	<0.00020	<0.005	<0.001	80	<0.0050	235	0.0626	-0.0644	0.0626
	4/13/2023		<0.0010	<0.0010	0.052	<0.0010	0.186	<0.0010	26.5	9.32	<0.001	0.001	<0.125	<0.0010	0.0134	<0.00020	<0.001	<0.001	63.4	<0.0010	126	0.276	0.321	0.597
MW-20	4/6/2019		<0.0010	0.051	0.15	<0.00034	0.089	<0.00034	48	9.4	<0.0011	0.0027	0.14	<0.00035	0.0015	<0.000070	<0.0020	<0.00071	26	<0.000085	170	0.148	0.298	0.447
	6/4/2019			0.036																				
	8/1/2019		<0.0010	0.042	0.135	<0.0010	0.0535	<0.0010	54.8	9.17	<0.0010	0.00193	0.203	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	23	<0.0010	245	0.926	0.772	1.698
	9/25/2019		<0.0010	0.033	0.120	<0.0010	0.0659	<0.0010	48.1	8.12	<0.0010	<0.0010	0.160	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	<1	<0.0010	212	0.857	0.930	1.790
	11/20/2019		<0.0010	0.036	0.130	<0.0010	0.0625	<0.0010	45.2	10.1	0.00191	0.0028	0.155	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	13.4	<0.0010	202	0.752	0.729	1.480
	1/29/2020		<0.0010	0.036	0.131	<0.0010	0.0556	<0.0010	44.6	9.51	<0.0010	0.00156	0.357	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	11.1	<0.0010	146	0.292	0.400	0.692
	3/25/2020		<0.0010	0.038	0.140	<0.0010	0.055	<0.0010	45.8	9.86	<0.001	0.003	0.158	<0.0010	<0.0250	<0.00020	<0.001	<0.001	28.4	<0.0010	208	0.758	0.639	1.397
	6/23/2020		<0.0010	0.038	0.166	<0.0010	0.06	<0.0010	48.4	9.81	0.001	0.006	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	41.9	<0.0010	246	0.777	0.948	1.730
	9/21/2020		<0.0010	0.045	0.139	<0.0010	0.066	<0.0010	49.9	10.4	<0.001	<0.001	0.147	<0.0010	<0.0050	<0.00020	<0.001	<0.001	11.1	<0.0010	242	0.111	0.919	1.030
	4/20/2021		<0.0010	0.029	0.133	<0.0010	0.061	<0.0010	49.2	7.83	<0.001	<0.001	0.164	<0.0010	<0.0050	<0.00020	<0.001	<0.001	11.5	<0.0010	233	0.300	0.332	0.632
	10/4/2021		<0.0010	0.029	0.120	<0.0010	0.063	<0.0010	41.2	4.98	<0.001	0.006	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	32.5	<0.0010	180	-0.0734	0.890	0.890
	5/4/2022		<0.0010	0.028	0.130	<0.0010	0.081	<0.0010	43.1	5.99	<0.001	0.005	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	28.7	<0.0010	206	0.281	0.569	0.850
	10/11/2022		<0.0010	0.0244	0.085	<0.0010	0.073	<0.0010	46	5.36	<0.001	<0.001	0.182	<0.0010	<0.0050	<0.00020	<0.001	<0.001	<1.00	<0.0010	185	0.0807	1.42	1.50
	4/11/2023		<0.0010	0.0259	0.122	<0.0010	0.064	<0.0010	47	5.15	<0.001	0.003	<0.125	<0.0010	<0.008	<0.00020	<0.001	<0.001	14.5	<0.0010	210	0.116	0.093	0.209
MW-21	4/6/2019		<0.0010	0.0059	0.096	<0.00034	0.14	<0.00034	72.0	28.0	<0.0011	0.0034	0.09	<0.00035	0.0018	<0.000070	<0.0020	<0.00071	25.0	<0.000085	220	0.127	0.092	0.219
	8/1/2019		<0.0010	0.00729	0.119	<0.0010	0.216	<0.0010	87.5	30.8	<0.0010	<0.0010	0.138	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	27.3	<0.0010	330	0.776	0.811	1.587
	9/25/2019		<0.0010	0.00632	0.113	<0.0010	0.305	<0.0010	81.2	36.6	<0.0010	<0.0010	0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	18.4	<0.0010	300	0.757	0.718	1.475
	11/19/2019		<0.0010	0.00594	0.114	<0.0010	0.268	<0.0010	83.0	36.5	0.00114	0.00208	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	0.00186	46.0	<0.0010	296	0.674	0.912	1.590
	1/29/2020		<0.0010	0.00866	0.120	<0.0010	0.291	<0.0010	76.2	38.0	0.00192	0.00289	0.229	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	18.4	<0.0010	265	0.156	0.150	0.306
	3/25/2020		<0.0010	0.0057	0.111	<0.0010	0.201	<0.0010	84.3	21.1	0.001	0.004	0.169	<0.0010	<0.0250	<0.00020	<0.001	<0.001	49.3	<0.0010	314	0.843	0.715	1.558
	6/24/2020		<0.0010	0.0051	0.105	<0.0010	0.265	<0.0010	100	33.2	<0.001	0.005	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	67.6	<0.0010	369	0.557	0.909	1.470
	9/22/2020		<0.0010	0.007	0.111	<0.0010	0.251	<0.0010	84.1	37.6	<0.001	<0.001	0.127	<0.0010	<0.0050	<0.00020	<0.001	<0.001	9.3	<0.0010	298	0.116	0.360	0.476
	4/21/2021		<0.0010	0.0145	0.130	<0.0010	0.349	<0.0010	101	25.0	<0.001	0.003	0.163	<0.0010	<0.0050	<0.00020	<0.001	<0.001	51.8	<0.0010	424	0.446	-0.123	0.446
	10/4/2021		<0.0010	0.0083	0.080	<0.0010	0.277	<0.0010	79.9	16.9	0.001	0.005	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	89.5	<0.0010	294	-0.226	0.414	0.414
	5/3/2022		<0.0010	0.0134	0.109	<0.0010	0.282	<0.0010	87	19.2	<0.001	0.004	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	81.7	<0.0010	313	0.356	0.340	0.696
	10/13/2022		<0.0010	0.0055	0.110	<0.0010	0.273	<0.0010	79.2	27.5	0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	21.2	<0.0010	312	0.000	0.721	0.721
	4/11/2023		<0.0010	0.0055	0.09	<0.0010	0.276	<0.0010	80.1	19.9	<0.001	0.001	<1.25	<0.0010	<0.008	<0.00020	<0.001	<0.001	38.9	<0.0010	312	0.393	0.382	0.775
MW-22	4/7/2019		<0.0010	0.0027	0.2	<0.00034	0.12	<0.00034	120	19.0	<0.0011	0.00910	0.110	<0.00035	0.0012	<0.000070	<0.0020	<0.00071	12.0	<0.000085	360	0.283	0.450	0.733
	7/31/2019		<0.0010	0.0039	0.138	<0.0010	0.0867	<0.0010	135	17.2	<0.0010	0.00257	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	21.4	<0.0010	420	0.245	0.801	1.046
	9/26/2019		<0.0010	0.0042	0.137	<0.0010	0.0968	<0.0010	134	17.3	<0.0010	0.00244	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	8.6	<0.0010	390	0.637	0.693	1.330
	11/19/2019		<0.0010	0.0058	0.147	<0.0010	0.102	<0.0010	127	18.5	<0.0010	0.00159	<0.125	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	13.2	<0.0010	383	0.756	0.815	1.570
	1/29/2020		<0.0010	0.0050	0.177	<0.0010	<0.0100	<0.0010	12.4	17.8	<0.0010	0.00187	0.206	<0.0010	<0.0050	<0.00020	<0.0010	<0.0010	5.8	<0.0010	364	0.452	0.309	0.761
	3/23/2020		<0.0010	0.0051	0.158	<0.0010	0.091	<0.0010	136	19.7	<0.001	0.002	0.246	<0.0010	<0.005	<0.00020	<0.001	<0.001	16.2	<0.0010	402	0.179	0.777	0.956
	6/23/2020		<0.0010	0.0046	0.132	<0.0010	0.101	<0.0010	139	10.5	<0.001	0.003	<0.125	<0.0010	0.174	<0.00020	<0.001	<0.001	36.3	<0.0010	429	0.433	0.896	1.330
	9/21/2020		<0.0010	0.0051	0.136	<0.0010	0.116	<0.0010	31.7	13.6	<0.001	0.002	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	15.5	<0.0010	434	0.113	1.020	1.130
	4/20/2021		<0.0010	0.0044	0.156	<0.0010	0.1	<0.0010	118	13	<0.001	0.003	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	11.7	<0.0010	406	0.0712	0.265	0.336
	9/30/2021		<0.0010	0.0060	0.143	<0.0010	0.107	<0.0010	132	10.6	<0.001	0.003	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	20.6	<0.0010	420	0.396	0.609	1.01
	5/2/2022		<0.0010	0.0057	0.15	<0.0010	0.106	<0.0010	130	10.8	<0.001	0.002	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	20.8	<0.0010	404	0.107	0.356	0.463
	10/13/2022		<0.0010	0.0040	0.139	<0.0010	0.094	<0.0010	114	11	<0.001	0.001	<0.125	<0.0010	<0.0050	<0.00020	<0.001	<0.001	2.9	<0.0010	393	0.386	0.639	1.03
	4/12/2023		<0.0010	0.0024	0.139	<0.0010	0.099	<0.0010	124	11.6	<0.001	<0.001	<0.125	<0.0010	<0.008	<0.00020	<0.001	<0.001	1.42	<0.0010	402	0.51	0.496	1.01
MW-23	4/8/2019		<0.0010	0.042	0.12	<0.00034	8.1	<0.00034	370	350	<0.0011	0.00059	3.20	<0.00035	0.2000	<0.000070	0.210	<0.00071	620	<0.000085	2000	0.377	0.776	1.150
	6/5/2019			0.120											0.1200		0.170							
	8/1/2019		<0.0010	0.111	0.0616	<0.0010	9.7	<0.0010	393	378	<0.0010	0.00462	2.07	<0.0010	0.1260	<0.00020	0.138	<0.0010	868	<0.0010	2100	0.820	0.830	1.650
	9/27/2019		<0.0010	0.193	0.0529	<0.0010	13.2	<0.0010	433	349	<0.0010	0.00371	2.96	<0.0010	0.2000	<0.00020	0.222	<0.0010	981	<0.0010	2200	0.588	0.898	1.486
	11/19/2019		<0.0010	0.241	0.0541	<0.0010	13.1	<0.0010	481	359	<0.0010	0.00464	0.81	<0.0010	0.1970	<0.00020	0.215	<0.0010	1010	<0.0010	2170	0.225	0.833	1.060
	1/30/2020		<0.0010	0.348	0.0754	<0.0010	13.1	<0.0010	563	460	<0.0010	0.01100	2.05	<0.0010	0.1680	<0.00020	0.0701	<0.0010	1240	<0.0010	2910	0.414	0.563	0.977
	3/23/2020		<0.0010	0.305	0.059	<0.0010	11.3	<0.0010	484	454	<0.001	0.01100	1.43	<0.0010	0.1350	<0.00020	0.084	<0.001	1020	<0.0010	2200	0.621	0.771	1.392
	6/24/2020		<0.0010	0.244	0.066	<0.0010	12.2	<0.0010	557	432	<0.001	0.01100	1.12	<0.0010	0.2510	<0.00020	0.077	<0.001	1040	<0.0010	2830	0.869	0.982	1.850
	9/24/2020		<0.0010	0.189	0.055	<0.0010	11.8	<0.0010	543	401	<0.001	0.00900	1.76	<0.0010	0.1690	<0.00020	0.092	<0.001	1090	<0.0010	2430	0.280	1.910	2.190
	4/22/2021		<0.0010	0.324	0.071	<0.0010	14.2	<0.0010	640	483	<0.001	0.01400	1.69	<0.100	0.1540	<0.00020	0.076	<0.001	1110	<0.0050	2730	0.240	0.539	0.779
	10/1/2021		<0.0050	0.254	0.057	<0.0010	13.1	<0.0050	561	434	<0.001	0.01100	2.29	<0.0050	0.1730	<0.00020	0.102	<0.001	1110	<0.0050	2860	0.396	1.24	1.64
	5/4/2022		<0.0100	0.241	0.071	<0.0100	12.6	<0.0100	504	469	<0.010	0.01600	2.21	<0.0100	0.1450	<0.00020	0.084	<0.010	1140	<0.0100	2930	0.276	0.842	1.12
	10/18/2022		<0.0100	0.117	0.041	<0.0100	7.61	<0.0100	354	43.4	<0.010	<0.010	2.48	<0.0100	0.1360	<0.00020	0.132	<0.010	169	<0.0100	1780	0.0782	0.725	0.803
	4/18/2023		<0.0100	0.186	0.042	<0.0100	8.68	<0.0100	396	299	<0.010	<0.010	2.02	<0.0100	0.1650	<0.00020	0.123	<0.010	983	<0.0100	1950	0.551	0.721	1.270
MW-24	6/24/2020		<0.0010	0.0017	0.061	<0.0010	11.5	<0.0010	506	338	0.002	<0.001	0.345	<0.0010	0.1500	<0.00020	0.009	<0.001	1110	<0.0010	2310	0.538	1.280	1.820
	9/22/2020		<0.0010	0.0027	0.071	<0.0010	8.45	<0.0010	403	270	<0.001	0.00200	0.969	<0.0010	0.1430	<0.00020	0.019	<0.001	851	<0.0010	1930	0.227	0.604	0.831
	4/21/2021		<0.0010	0.0013	0.124	<0.0010	7.76	<0.0010	393	267	<0.001	0.00500	0.713	<0.0010	0.1990	<0.00020	0.007	<0.001	717	<0.0010	1810	0.174	1.57	1.74
	9/28/2021		<0.0010	0.0013	0.056	<0.0010	2.65	<0.0010	143	60.9	<0.001	<0.001	1.31	<0.0010	0.1140	<0.00020	0.004	<0.001	204	<0.0010	682	0.0721	0.814	0.886
	5/3/2022		<0.0010	0.0023	0.14	<0.0010	4.93	<0.0010	222	130	<0.001	0.00200	0.884	<0.0010	0.1360	<0.00020	0.011	<0.001	375	<0.0010	1080	0.752	0.525	1.28
	10/18/2022		<0.0100	<0.0100	0.162	<0.0100	5.34	<0.0500	242	28.6	<0.050	<0.050	0.321	<0.0500	0.1050	<0.00020	<0.050	<0.010	106	<0.0050	1240	0.595	0.747	1.34
	4/13/2023		<0.0010	0.0033	0.121	<0.0010	1.83	<0.0010	122	75.4	<0.001	0.004	1.11	<0.0010	0.0744	<0.00020	0.008	<0.001	214	<0.0010	543	0.063	0.7	0.763

APPENDIX A
GROUNDWATER ANALYTICAL DATA SUMMARY TABLE
Charles R. Lowman Power Plant
Leroy, Alabama

Well No.	Sample Date		Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chloride	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Selenium	Sulfate	Thallium	TDS	Radium-226	Radium-228	Combined Radium
			mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pCi/L	pCi/L	pCi/L
		GWPS	**0.006**	**0.010**	**2.0**	**0.0040**	**-**	**0.005**	**-**	**-**	**0.100**	**0.013**	**4.0**	**0.015**	**0.040**	**0.002**	**0.100**	**0.050**	**-**	**0.002**	**-**	**-**	**-**	**5.000**
MW-25	6/24/2020		<0.0010	0.002	0.049	<0.0010	16.6	<0.0010	538	424	0.001	0.02100	0.576	<0.0010	<0.0050	<0.00020	0.051	<0.001	1220	<0.0010	2620	0.533	1.120	1.650
	9/23/2020		<0.0050	<0.0050	0.042	<0.0050	17.8	<0.0050	589	402	<0.005	0.01700	0.72	<0.0050	0.1850	<0.00020	0.182	<0.005	1330	<0.0050	2850	0.261	0.636	0.897
	4/22/2021		<0.0010	0.022	0.056	<0.0010	11.1	<0.0010	282	229	<0.001	<0.001	1.05	<0.0010	0.1500	<0.00020	0.078	<0.001	716	<0.0010	1550	0.000	1.83	1.83
	10/5/2021		<0.0010	0.0071	0.046	<0.0010	12.6	<0.0010	325	277	<0.001	0.00300	0.759	<0.0010	0.1200	<0.00020	0.047	<0.001	919	<0.0010	1820	0.269	0.513	0.782
	5/4/2022		<0.0010	0.0122	0.044	<0.0010	9.91	<0.0010	239	218	<0.001	0.00100	0.337	<0.0010	0.1200	<0.00020	0.074	<0.001	693	<0.0010	1590	0.0545	0.553	0.608
	10/13/2022		<0.0100	<0.0100	0.054	<0.0100	15.2	<0.0100	492	330	<0.010	0.01100	0.563	<0.0100	0.1490	<0.00020	0.076	<0.010	1360	<0.0100	2740	-0.0651	0.600	0.600
	4/13/2023		<0.0010	0.0146	0.036	<0.0010	9.05	<0.0010	261	232	<0.001	0.001	0.719	<0.0010	0.127	<0.00020	0.093	<0.001	708	<0.0010	1360	0.204	1.31	1.51
MW-26	6/24/2020		<0.0010	<0.0010	0.095	<0.0010	0.195	<0.0010	50.5	4.45	0.001	<0.001	0.144	<0.0010	<0.0050	<0.00020	0.006	0.008	29	<0.0010	224	0.562	0.762	1.320
	9/24/2020		<0.0050	<0.0050	0.086	<0.0050	0.354	<0.0050	44.6	6.27	<0.005	<0.005	0.17	<0.0050	<0.0050	<0.00020	0.006	0.006	38.3	<0.0050	202	0.307	0.009	0.316
	4/22/2021		<0.0010	<0.0010	0.132	<0.0010	0.291	<0.0010	79.7	5.27	0.001	<0.001	0.173	<0.0010	<0.0050	<0.00020	0.005	0.030	40.4	<0.0010	272	0.145	0.976	1.12
	10/5/2021		<0.0010	0.0012	0.149	<0.0010	0.373	<0.0010	95.1	11.9	0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	0.006	0.017	89.2	<0.0010	368	0.122	0.621	0.743
	5/4/2022		<0.0010	0.0014	0.131	<0.0010	0.448	<0.0010	85.1	12	0.001	<0.001	<0.125	<0.0010	<0.0050	<0.00020	0.006	0.020	101	<0.0010	396	0.110	0.296	0.406
	10/18/2022		<0.0010	<0.0010	0.116	<0.0010	0.529	<0.0010	75.2	19.3	<0.005	<0.005	0.142	<0.0010	<0.0050	<0.00020	0.005	0.004	109	<0.0010	338	0.140	0.576	0.716
	4/18/2023		<0.0010	0.0011	0.096	<0.0010	0.265	<0.0010	61.6	3.19	0.001	<0.001	0.144	<0.0010	<0.008	<0.00020	0.006	0.014	44	<0.0010	263	0.284	0.559	0.843

APPENDIX E

2023 ASSESSMENT MONITORING LABORATORY REPORTS

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

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 Bradley

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

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

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	

: Pace Analytical Services-Pittsburgh, Greensburg, PA

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

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	

: Pace Analytical Services-Pittsburgh, Greensburg, PA

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

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

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

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) C:NA T:83%**	pCi/L	05/02/23 16:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.53 ± 0.550 (0.808) C:82% T:73%**	pCi/L	04/28/23 11:55	15262-20-1	
	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) C:NA T:90%**	pCi/L	05/02/23 16:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.772 ± 0.391 (0.687) C:81% T:83%**	pCi/L	04/28/23 11:55	15262-20-1	
	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) C:NA T:83%**	pCi/L	05/02/23 16:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.258 ± 0.396 (0.856) C:78% T:75%**	pCi/L	04/28/23 11:55	15262-20-1	
	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

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

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) C:NA T:82%**	pCi/L	05/02/23 16:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.613 ± 0.451 (0.888) C:81% T:71%**	pCi/L	04/28/23 11:55	15262-20-1	
	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) C:NA T:82%**	pCi/L	05/02/23 16:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.18 ± 0.445 (0.673) C:82% T:83%**	pCi/L	04/28/23 11:56	15262-20-1	
	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) C:NA T:85%**	pCi/L	05/02/23 16:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.740 ± 0.447 (0.836) C:78% T:74%**	pCi/L	04/28/23 11:56	15262-20-1	
	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	

REPORT OF LABORATORY ANALYSIS

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Greensburg, PA 15601
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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

Pace Analytical Services, LLC
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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) C:NA T:93%**	pCi/L	05/02/23 16:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.809 ± 0.389 (0.673) C:80% T:90%**	pCi/L	04/28/23 14:58	15262-20-1	
	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) C:NA T:76%**	pCi/L	05/02/23 16:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.321 ± 0.386 (0.817) C:83% T:74%**	pCi/L	04/28/23 14:58	15262-20-1	
	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) C:NA T:98%**	pCi/L	05/02/23 14:55	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.0930 ± 0.285 (0.640) C:82% T:92%**	pCi/L	04/28/23 15:03	15262-20-1	
	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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(724)850-5600

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	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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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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1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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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REPORT OF LABORATORY ANALYSIS

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(724)850-5600

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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(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

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

QC Batch: 582465 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: 30579946001, 30579946002, 30579946003, 30579946004, 30579946005, 30579946006, 30579946007, 30579946008, 30579946009, 30579946010, 30579946011, 30579946012, 30579946013, 30579946014, 30579946015, 30579946016, 30579946017, 30579946018, 30579946019, 30579946020

METHOD BLANK: 2828832 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-228	0.970 ± 0.400 (0.616) C:79% T:90%	pCi/L	04/28/23 11:37	

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REPORT OF LABORATORY ANALYSIS

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(724)850-5600

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	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(724)850-5600

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.

Waypoint ANALYTICAL

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

04/17/2023 13:16:11

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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	04/11/2023 11:40	MW-1		AQU	97659	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	001
23-104-0001	05/12/2023	04/11/2023 11:40	MW-1		AQU	97659	EPA-904.0	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	Radium 226/228/Total Radium (Sub to Pace in PA)	002
23-104-0001	05/12/2023	04/11/2023 13:35	MW-2		AQU	97660	EPA-904.0	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	Radium 226/228/Total Radium (Sub to Pace in PA)	003
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)	004
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)	005

WO# : 30579946

30579946

Sampled By	Method of Shipment	Blank / Cooler Temp.	
Client			
Remarks			
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
Consuelo Bradley	04/17/2023 0950		4-18-23 10:05
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

Waypoint ANALYTICAL

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

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

Sampled By	Method of Shipment	Blank / Cooler Temp.	
Client			
Remarks			
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
Consuelo Bradley	04/17/2023 1500		4-18-23 10:05
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

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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)
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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

Sampled By	Method of Shipment	Blank / Cooler Temp.	
Client			
Remarks			
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
Consuelo Bradley	04/17/2023 1510		4-18-23 10:05
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

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

Waypoint ANALYTICAL

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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	04/13/2023 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.	
Client			
Remarks			
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
Consuelo Bradley	04/17/2023 1500		4-18-23 10:05
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

Waypoint ANALYTICAL

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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)	
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)	020
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)	
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)	021
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)	022
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)	023

Sampled By	Method of Shipment	Blank / Cooler Temp.	
Client			
Remarks			
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
Consuelo Bradley	04/17/2023 @1500		4-18-23 10:05
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

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

Waypoint ANALYTICAL

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
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To: Pace Analytical Services-Pittsburgh
1638 Roseytown Road / Suites 2,3 & 4
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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 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			
Remarks			
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
Consuelo Bradley	04/17/2023 0150		4-18-23 10:05
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

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 PS 4/19/23

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other

Tracking Number: 1Z 9X0 485 01 4580 8796

Examined By	PS
Labeled By	PS
Temped By	PS

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

Comments:	Yes	No	NA	pH paper Lot# 100312 / D.P.D. Residual Chlorine Lot #
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
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: / 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.

DC#_Title: ENV-FRM-GBUR-0072 v02_Sample Container Count Offshore Projects
Effective Date: 1/11/2023

Client

Site 23-104-0001

Page 1 of 3

Profile Number 11627

Notes

		Amber Glass					Plastic								Vials					Other									
Sample Line Item	Matrix	AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	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																						
010							2																						
011							2																						
012							2																						

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

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass 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 _____ Page 2 of 3 Notes _____

		Amber Glass					Plastic								Vials					Other									
Sample Line Item	Matrix	AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	GN	BG1U		
013	WT						2																						
014							2																						
015							2																						
016							2																						
017							2																						
018							2																						
019							2																						
020							2																						
021							2																						
022							2																						
023							2																						
024							2																						

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

Container Codes

Glass

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

Site _____

Page 3 of 3

Profile Number 30579946

Notes _____

		Amber Glass					Plastic								Vials					Other									
Sample Line Item	Matrix	AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	GN	BG1U		
025	WT						2																						
026	V						2																						

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass 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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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	04/11/2023 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: Client	Method of Shipment	Blank / Cooler Temp.	
Remarks: Reprint			
Relinquished By (sign): C Bradley	Date / Time: 04/17/2023 @1500	Received By (sign)	Date / Time
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

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Export Batch Id : 619EXP

Created: 4/17/2023 13:15:48
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User: Consuelo C Bradley
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From: Waypoint Analytical, LLC (Andalusia)
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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 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 Client	Method of Shipment	Blank / Cooler Temp.	
Remarks			
Relinquished By (sign) Consuelo Bradley	Date / Time 04/17/2023 @1500	Received By (sign)	Date / Time
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

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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 Client	Method of Shipment	Blank / Cooler Temp.	
Remarks			
Relinquished By (sign) Consuelo Bradley	Date / Time 04/17/2023 @1520	Received By (sign)	Date / Time
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

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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?	● Yes	○ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Present
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Present
Chain of Custody (COC) present?	● Yes	○ No	
COC agrees with sample label(s)?	● Yes	○ No	
COC properly completed	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated test(s)?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Cooler temperature in compliance?	● Yes	○ No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	● Yes	○ No	
Water - Sample containers properly preserved	● Yes	○ No	○ N/A
Water - VOA vials free of headspace	○ Yes	○ No	● N/A
Trip Blanks received with VOAs	○ Yes	○ No	● N/A
Soil VOA method 5035 – compliance criteria met	○ Yes	○ No	● N/A

☐ High concentration container (48 hr) ☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d) ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?	○ Yes	● No

Comments:

Signature: Consuelo C Bradley Date & Time: 04/16/2023 18:08:51

Client Name/Address	Client Project Manager/Contact	Billing Information	For Laboratory Use Only
CDG Inc	Alan Barck		

Project Description	Project/Site Location (City/State)		Method of Shipment	Matrix Key
PowerSouth Lowman	Jackson, AL	☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other	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 #
B021223004 - 001				

Waypoint ANALYTICAL
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Unless noted, all containers per Table II of 40 CFR Part 136.

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
H
I

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative	Notes
4/11/23	1140	MW-1	5	GW	G		
4/11/23	1335	MW-2					
4/10/23	1355	MW-3					
4/10/23	1600	MW-4					
4/12/23	1235	MW-6					
4/12/23	1100	MW-7					
4/12/23	1320	MW-8					
4/11/23	1035	MW-9					
4/12/23	1450	MW-10					
4/12/23	1530	MW-11	↓	↓	↓		

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

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

For Laboratory Use Only			Sampled by: (Name – Print)	Client Remarks/Comments
Ice Y / N	Custody Seals Y / N	Lab Comments	Grant Marcum	
Blank/Cooler Temp			Relinquished by: (SIGNATURE)	
			Relinquished by: (SIGNATURE)	
			Relinquished by: (SIGNATURE)	

Date	Time	Received by: (SIGNATURE)	Date	Time
4-13-23	1700			
			04/14/23	@ 0900

Client Name/Address	Client Project Manager/Contact	Billing Information	For Laboratory Use Only
CDG, Inc			

Project Description	Project/Site Location (City/State)			
Powersouth Lowman		☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	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	Project Manager Phone #	Project Manager Email	Purchase Order Number	Site/Facility ID #
R021223004/001				

Waypoint ANALYTICAL
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Unless noted, all containers per Table II of 40 CFR Part 136.

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
H
C

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative
4/10/23	1440	MW-13	5	GW	G	
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				

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

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

For Laboratory Use Only

Ice Y / N	Custody Seals Y / N	Lab Comments

Blank/Cooler Temp

Sampled by: (Name – Print)
Grant Marcum

Client Remarks/Comments

Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
	4/13/23 1700		
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
			04/14/23 0900
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time

Client Name/Address	Client Project Manager/Contact	Billing Information	For Laboratory Use Only
CDG, Inc			

Project Description	Project/Site Location (City/State)		Method of Shipment	Matrix Key
Powersouth Lowman		☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other	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 #
R021223004/001				

Waypoint ANALYTICAL
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Unless noted, all containers per Table II of 40CFR Part 136.

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
I

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservati	Notes
4/11/23	1430	MW-20	5	GW	G		
4/11/23	1625	MW-21					
4/12/23	1400	MW-22					
4/13/23	0740	MW-24					
4/13/23	1030	MW-25					

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

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

For Laboratory Use Only			Sampled by: (Name – Print)	Client Remarks/Comm
Ice Y / N	Custody Seals Y / N	Lab Comments	Grant Marcum	
Blank/Cooler Temp				

Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
	4-13-23 1700		04/14/23 @ 0900
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time

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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 Bradley

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

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

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

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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

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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

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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

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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

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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

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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

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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 : **97686**
Sample ID : **MW-3**

Matrix: **Aqueous**
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
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 : **97687**
Sample ID : **MW-4**

Matrix: **Aqueous**
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

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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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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

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

Project CDG
Information : PowerSouth Lowman
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Report Number : **23-104-9002**

REPORT OF ANALYSIS

Lab No : **97689**
Sample ID : **MW-7**

Matrix: **Aqueous**
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

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

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Information : PowerSouth Lowman
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REPORT OF ANALYSIS

Lab No : **97690**
Sample ID : **MW-8**

Matrix: **Aqueous**
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

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Mr. Alan Barck
P.O. Box 278
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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

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

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REPORT OF ANALYSIS

Lab No : **97692**
Sample ID : **MW-10**

Matrix: **Aqueous**
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

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

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REPORT OF ANALYSIS

Lab No : **97693**
Sample ID : **MW-11**

Matrix: **Aqueous**
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

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

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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

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Mr. Alan Barck
P.O. Box 278
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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

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

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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

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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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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

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

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Information : PowerSouth Lowman
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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

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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

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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

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REPORT OF ANALYSIS

Lab No : **97701**
Sample ID : **MW-17**

Matrix: **Aqueous**
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

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Mr. Alan Barck
P.O. Box 278
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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

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Mr. Alan Barck
P.O. Box 278
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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

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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

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

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REPORT OF ANALYSIS

Lab No : **97705**
Sample ID : **MW-21**

Matrix: **Aqueous**
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

Waypoint ANALYTICAL
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

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 : **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

Waypoint ANALYTICAL
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

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 : **97707**
Sample ID : **MW-24**

Matrix: **Aqueous**
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

Waypoint ANALYTICAL
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

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 : **97708**
Sample ID : **MW-25**

Matrix: **Aqueous**
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

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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
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

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.

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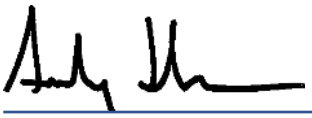

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Authorized for release by
Andy Johnson, Manager of Project Management
Andy.Johnson@et.eurofinsus.com
(615)301-5045

Table of Contents

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.

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

Date Collected: 04/13/23 08:30
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-11

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	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

Date Collected: 04/11/23 14:30
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-12

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	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

Date Collected: 04/11/23 16:25
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-13

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	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

Date Collected: 04/12/23 14:00
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-14

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	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

Date Collected: 04/13/23 07:40
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-15

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	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									

Lab Chronicle

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

Job ID: 180-155217-1

Client Sample ID: MW-17
Date Collected: 04/12/23 10:15
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-26
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	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 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

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 — **Lab Sample ID: 180-155217-2**
Date Collected: 04/11/23 13:35 — **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 19:46	1

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

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 — **Lab Sample ID: 180-155217-4**
Date Collected: 04/10/23 16:00 — **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 19:51	1

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

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 — **Lab Sample ID: 180-155217-6**
Date Collected: 04/12/23 11:00 — **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	0.0784		0.00800		mg/L		04/27/23 14:00	04/28/23 19:57	1

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

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

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

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

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 — **Lab Sample ID: 180-155217-16**
Date Collected: 04/13/23 10:30 — **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	0.127		0.00800		mg/L		04/27/23 14:00	04/28/23 20:29	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

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

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 — **Lab Sample ID: 180-155217-19**
Date Collected: 04/10/23 14:40 — **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	ND		0.00800		mg/L		04/27/23 14:00	04/28/23 20:43	1

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

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 — **Lab Sample ID: 180-155217-21**
Date Collected: 04/13/23 12:20 — **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	0.0118		0.00800		mg/L		04/27/23 14:00	04/28/23 15:01	1

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

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

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

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

Waypoint ANALYTICAL

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

04/17/2023 14:42:11

Export Batch Report

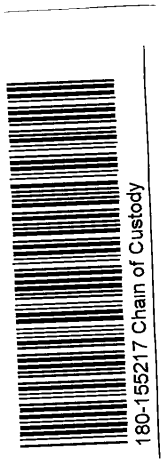
Export Batch Id : **621EXP**

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)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/11/2023 13:35	MW-2		AQU	97685	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	97686	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	97687	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	97688	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	97689	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	97690	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	97691	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	97692	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	Received By (sign): EQUITAS	Date / Time: 4/18/23 930
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

Waypoint ANALYTICAL
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: Client	Method of Shipment	Blank / Cooler Temp.	
Remarks			
Relinquished By (sign): Consuelo Bradley	Date / Time: 04/17/2023 1520	Received By (sign): ER. TIME	Date / Time: 4/18/23 9:30
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

Waypoint ANALYTICAL

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

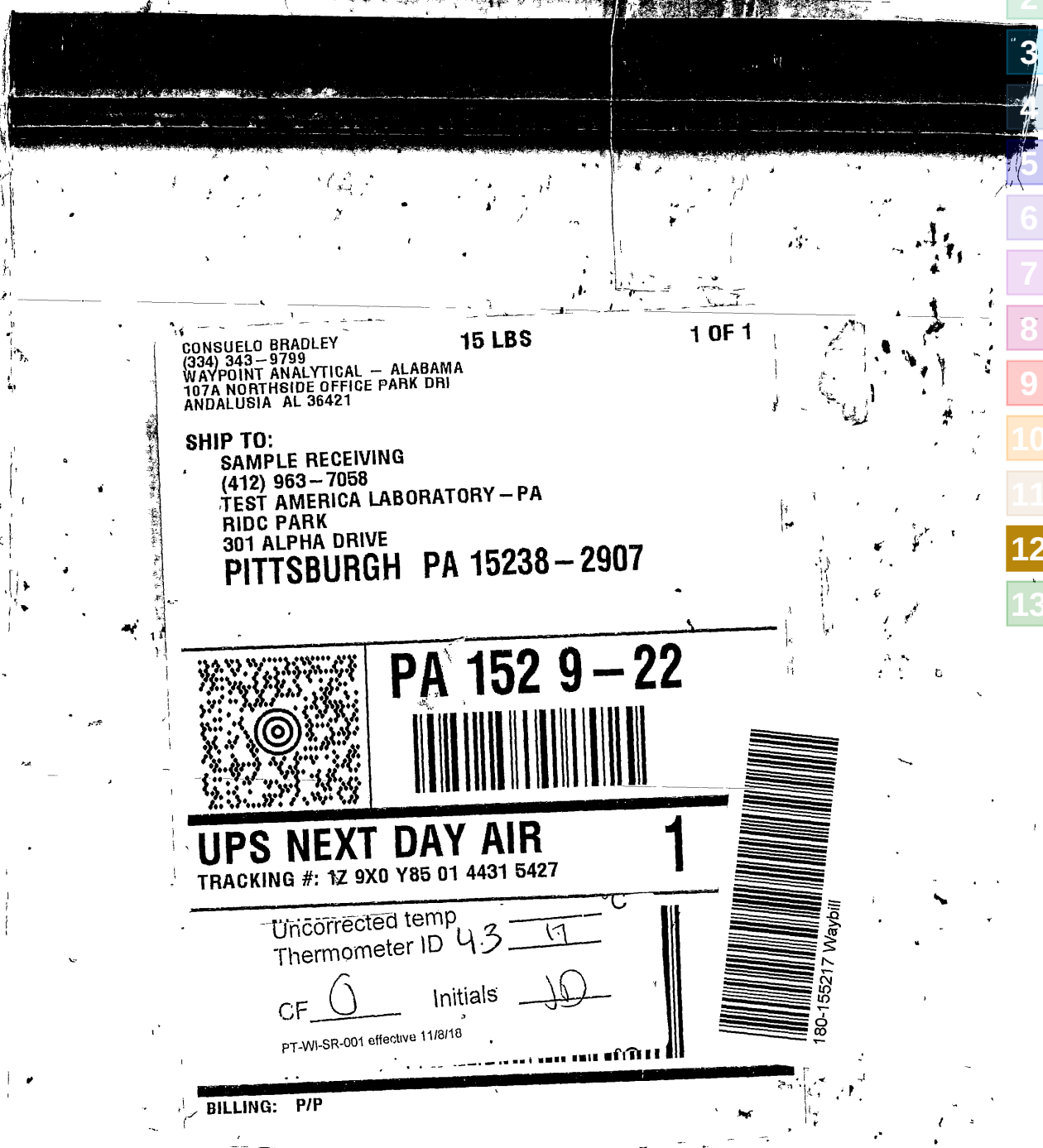
Created: 4/17/2023 14:41:58
Computer: WPALMS-157
User: Consuelo C Bradley
Project Manager: Consuelo C Bradley

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	Received By (sign): EDF TIME	Date / Time: 4/18/23 9:30
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time



CONSUELO BRADLEY
(334) 343-9799
WAYPOINT ANALYTICAL - ALABAMA
107A NORTHSIDE OFFICE PARK DRI
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

1

TRACKING #: 1Z 9X0 Y85 01 4431 5427

Uncorrected temp °C
Thermometer ID 43 17
CF 0 Initials JD
PT-WI-SR-001 effective 11/8/18

180-155217 Waybill

BILLING: P/P

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Andy	Carrier Tracking No(s):	COC No: 180-485369.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Alabama	Page: Page 1 of 3
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note):		Job #: 180-155217-1
Address: 180 S. Van Buren Avenue, ,	Due Date Requested: 5/8/2023			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 23-104-0002	Project #: 18021257			
Site:	SSOW#:			

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, 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)

Other:

M60

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-1 (180-155217-1)	4/11/23	11:40 Central		Water			X	1	
MW-2 (180-155217-2)	4/11/23	13:35 Central		Water			X	1	
MW-3 (180-155217-3)	4/10/23	13:55 Central		Water			X	1	
MW-4 (180-155217-4)	4/10/23	16:00 Central		Water			X	1	
MW-6 (180-155217-5)	4/12/23	12:35 Central		Water			X	1	
MW-7 (180-155217-6)	4/12/23	11:00 Central		Water			X	1	
MW-8 (180-155217-7)	4/12/23	13:20 Central		Water			X	1	
MW-9 (180-155217-8)	4/11/23	10:35 Central		Water			X	1	
MW-10 (180-155217-9)	4/12/23	14:50 Central		Water			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/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	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/14/2023 1503	BETA		4-25-23 800	EETNC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Andy	Carrier Tracking No(s):	COC No: 180-485369.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Alabama	Page: Page 2 of 3
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note):		Job #: 180-155217-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 5/8/2023			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 23-104-0002	Project #: 18021257			
Site:	SSOW#:			

Analysis Requested

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, 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)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-18 (180-155217-10)	4/12/23	16:20 Central		Water			X	1	
MW-19 (180-155217-11)	4/13/23	08:30 Central		Water			X	1	
MW-20 (180-155217-12)	4/11/23	14:30 Central		Water			X	1	
MW-21 (180-155217-13)	4/11/23	16:25 Central		Water			X	1	
MW-22 (180-155217-14)	4/12/23	14:00 Central		Water			X	1	
MW-24 (180-155217-15)	4/13/23	07:40 Central		Water			X	1	
MW-25 (180-155217-16)	4/13/23	10:30 Central		Water			X	1	
TW-1 (180-155217-17)	4/10/23	12:55 Central		Water			X	1	
MW-11 (180-155217-18)	4/12/23	15:30 Central		Water			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/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	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		4/14/2023 1500	EETA		4-25-23 800	EETNL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Andy	Carrier Tracking No(s):	COC No: 180-485369.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Alabama	Page: Page 3 of 3
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note):		Job #: 180-155217-1
Address: 180 S. Van Buren Avenue, ,	Due Date Requested: 5/8/2023	Analysis Requested		Preservation Codes:
City: Barberton	TAT Requested (days):			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, 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, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			Other:
Email:	WO #:			
Project Name: 23-104-0002	Project #: 18021257			
Site:	SSOW#:			

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-13 (180-155217-19)	4/10/23	14:40 Central		Water			X	1	
MW-14 (180-155217-20)	4/13/23	11:35 Central		Water			X	1	
MW-14A (180-155217-21)	4/13/23	12:20 Central		Water			X	1	
MW-14B (180-155217-22)	4/13/23	13:15 Central		Water			X	1	
MW-13A (180-155217-23)	4/11/23	09:40 Central		Water			X	1	
MW-15 (180-155217-24)	4/12/23	08:00 Central		Water			X	1	
MW-16 (180-155217-25)	4/12/23	09:00 Central		Water			X	1	
MW-17 (180-155217-26)	4/12/23	10:15 Central		Water			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/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	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/24/2023 1802	ELTA		4-25-23 800	EETNL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins - Canton Sample Receipt Form/Narrative
Barberton Facility

Login # : _____

Client ETA Site Name _____

Cooler unpacked by: Nancy Nagle

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 — X See Multiple Cooler Form

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 1 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)
-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
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? ● 4s 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

pH Strip Lot# HC203864

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

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 # : ______________

Eurofins - Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: 22	13.8	13.8	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 22	11.3	11.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 28	15.3	15.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 22	14.0	14.0	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 22	3.1	3.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
			☐ See Temperature Excursion Form	

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

Login Sample Receipt Checklist

Client: Waypoint Analytical, Inc.

Job Number: 180-155217-1

Login Number: 155217

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	

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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

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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

* QC Fail

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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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L676954
QC Prep Batch Method: 3005A
QC Analytical Batch(es): L677774,L678063
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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L676954
QC Prep Batch Method: 3005A
QC Analytical Batch(es): L677774,L678063
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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L676979
QC Prep Batch Method: 3005A
QC Analytical Batch(es): L677774,L678063
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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L676979
QC Prep Batch Method: 3005A
QC Analytical Batch(es): L677774,L678063
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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L676980
QC Prep Batch Method: 3005A
QC Analytical Batch(es): L677479
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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L676980
QC Prep Batch Method: 3005A
QC Analytical Batch(es): L677479
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

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

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L677161
QC Prep Batch Method: 7470A
QC Analytical Batch(es): L677369
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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L677391
QC Prep Batch Method: 7470A
QC Analytical Batch(es): L677640
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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L678303
QC Prep Batch Method: 7470A
QC Analytical Batch(es): L678490
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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L677754
QC Prep Batch Method: SW-9056A (PREP)
QC Analytical Batch(es): L677838
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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-9002

QC Prep: L677756
QC Prep Batch Method: SW-9056A (PREP)
QC Analytical Batch(es): L677837
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

Waypoint ANALYTICAL
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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?	● Yes	○ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Present
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Present
Chain of Custody (COC) present?	● Yes	○ No	
COC agrees with sample label(s)?	● Yes	○ No	
COC properly completed	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated test(s)?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Cooler temperature in compliance?	● Yes	○ No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	● Yes	○ No	
Water - Sample containers properly preserved	● Yes	○ No	○ N/A
Water - VOA vials free of headspace	○ Yes	○ No	● N/A
Trip Blanks received with VOAs	○ Yes	○ No	● N/A
Soil VOA method 5035 – compliance criteria met	○ Yes	○ No	● N/A

☐ High concentration container (48 hr) ☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d) ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?	○ Yes	● No

Comments:

Signature: Consuelo C Bradley Date & Time: 04/16/2023 18:20:55

Client Name/Address	Client Project Manager/Contact	Billing Information	For Laboratory Use Only
CDG Inc	Alan Barck		

Project Description	Project/Site Location (City/State)		Method of Shipment	Matrix Key
PowerSouth Lowman	Jackson, AL	☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other	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 #
BO21223004 - 001				

Waypoint ANALYTICAL
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Unless noted, all containers per Table II of 40 CFR Part 136.

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
H
I

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative	Notes
4/11/23	1140	MW-1	5	GW	G		
4/11/23	1335	MW-2					
4/10/23	1355	MW-3					
4/10/23	1600	MW-4					
4/12/23	1235	MW-6					
4/12/23	1100	MW-7					
4/12/23	1320	MW-8					
4/11/23	1035	MW-9					
4/12/23	1450	MW-10					
4/12/23	1530	MW-11					

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

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

For Laboratory Use Only			Sampled by: (Name – Print)	Client Remarks/Comments
Ice Y / N	Custody Seals Y / N	Lab Comments	Grant Marcum	
Blank/Cooler Temp				

Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
	4-13-23 1700		04/14/23 @ 0900
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time

Client Name/Address	Client Project Manager/Contact	Billing Information	For Laboratory Use Only
CDG, Inc			

Project Description	Project/Site Location (City/State)			
Powersouth Lowman		☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	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	Project Manager Phone #	Project Manager Email	Purchase Order Number	Site/Facility ID #
R021223004/001				

Waypoint ANALYTICAL
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Unless noted, all containers per Table II of 40 CFR Part 136.

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
H
C

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative
4/10/23	1440	MW-13	5	GW	G	
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				

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

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

For Laboratory Use Only

Ice Y / N	Custody Seals Y / N	Lab Comments

Blank/Cooler Temp

Sampled by: (Name – Print)
Grant Marcum

Client Remarks/Comments

Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
	4/13/23 1700		
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
			04/14/23 0900
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time

Client Name/Address	Client Project Manager/Contact	Billing Information	For Laboratory Use Only
CDG, Inc			

Project Description	Project/Site Location (City/State)		Method of Shipment	Matrix Key
Powersouth Lowman		☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other	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 #
R021223004/001				

Waypoint ANALYTICAL
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Unless noted, all containers per Table II of 40CFR Part 136.

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
I

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservati	Notes
4/11/23	1430	MW-20	5	GW	G		
4/11/23	1625	MW-21					
4/12/23	1400	MW-22					
4/13/23	0740	MW-24					
4/13/23	1030	MW-25					

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

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

For Laboratory Use Only			Sampled by: (Name – Print)	Client Remarks/Comm
Ice Y / N	Custody Seals Y / N	Lab Comments	Grant Marcum	
Blank/Cooler Temp				

Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
	4-13-23 1700		04/14/23 @ 0900
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time

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

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 Bradley

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

Waypoint ANALYTICAL
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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	

: Pace Analytical Services-Pittsburgh, Greensburg, PA

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

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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

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

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:

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

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:

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

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.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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) C:NA T:95%**	pCi/L	05/10/23 13:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.623 ± 0.376 (0.689) C:79% T:82%**	pCi/L	05/04/23 14:42	15262-20-1	
	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) C:NA T:86%**	pCi/L	05/10/23 13:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.721 ± 0.400 (0.719) C:82% T:81%**	pCi/L	05/04/23 14:43	15262-20-1	
	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) C:NA T:89%**	pCi/L	05/10/23 13:52	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.559 ± 0.336 (0.612) C:83% T:85%**	pCi/L	05/04/23 14:43	15262-20-1	
	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

Pace Analytical Services, LLC
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Greensburg, PA 15601
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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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

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.

Waypoint ANALYTICAL

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

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	Rush	Matrix	Lab No	Method No	Fee Code Description	
23-109-0005	05/18/2023	04/18/2023 15:40	MW-5		AQU	97869	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	001
23-109-0005	05/18/2023	04/18/2023 15:40	MW-5		AQU	97869	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	
23-109-0005	05/18/2023	04/18/2023 15:10	MW-5A		AQU	97870	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	002
23-109-0005	05/18/2023	04/18/2023 15:10	MW-5A		AQU	97870	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	
23-109-0005	05/18/2023	04/18/2023 11:20	MW-12		AQU	97871	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	003
23-109-0005	05/18/2023	04/18/2023 11:20	MW-12		AQU	97871	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	
23-109-0005	05/18/2023	04/18/2023 10:45	MW-12A		AQU	97872	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	004
23-109-0005	05/18/2023	04/18/2023 10:45	MW-12A		AQU	97872	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)	
23-109-0005	05/18/2023	04/18/2023 14:15	MW-23		AQU	97873	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA)	005

WO# : 30581385

30581385

Sampled By	Method of Shipment	Blank / Cocier Temp.	
Client			
Remarks			
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
Consuelo Bradley	04/20/2023 @1500		4/21/23 12:10
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

Waypoint ANALYTICAL

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

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	Rush	Matrix	Lab No	Method No	Fee Code Description
23-109-0005	05/18/2023	04/18/2023 14:15	MW-23		AQU	97873	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-109-0005	05/18/2023	04/18/2023 13:05	MW-26		AQU	97874	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 006
23-109-0005	05/18/2023	04/18/2023 13:05	MW-26		AQU	97874	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-109-0005	05/18/2023	04/18/2023	Duplicate		AQU	97875	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 007
23-109-0005	05/18/2023	04/18/2023	Duplicate		AQU	97875	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-109-0005	05/18/2023	04/18/2023 19:00	Rinsate Blank		AQU	97876	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 008
23-109-0005	05/18/2023	04/18/2023 19:00	Rinsate Blank		AQU	97876	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)
23-109-0005	05/18/2023	04/18/2023 19:00	Field Blank		AQU	97877	EPA-903.1	Radium 226/228/Total Radium (Sub to Pace in PA) 009
23-109-0005	05/18/2023	04/18/2023 19:00	Field Blank		AQU	97877	EPA-904.0	Radium 226/228/Total Radium (Sub to Pace in PA)

WO# : 30581385
PM: NMY Due Date: 05/12/23
CLIENT: WAYPOINT-AL

Sampled By	Method of Shipment	Blank / Cooler Temp.	
Client			
Remarks			
Relinquished By (sign) Consuelo Bradley	Date / Time 04/20/2023 @ 1520	Received By (sign)	Date / Time 4/21/23 10:10
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

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: WAYPOINT-AL

Client Name: Waypoint

Courier: ☐ Fed Ex ☑ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Oth

Tracking Number: 1Z9X0 4850 4351 8666 / 1Z9X0 4850 4529 0452

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:	Yes	No	NA	pH paper Lot# 100312 / D.P.D. Residual Chlorine Lot #
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
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: exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix	✓			16. 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.

Qualtrax ID: 55680

Client _____

Site 622EXP

Page 1 of 1

Profile Number 11627

Notes _____

		Amber Glass					Plastic								Vials					Other									
Sample Line Item	Matrix	AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	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	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass 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 Solic
I	Wipe/Swab
ZPLC	Siploc Bag

WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe

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

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?	◉ Yes	◯ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	◯ Yes	◯ No	◉ Not Present
Custody seals intact on sample bottles?	◯ Yes	◯ No	◉ Not Present
Chain of Custody (COC) present?	◉ Yes	◯ No	
COC agrees with sample label(s)?	◉ Yes	◯ No	
COC properly completed	◉ Yes	◯ No	
Samples in proper containers?	◉ Yes	◯ No	
Sample containers intact?	◉ Yes	◯ No	
Sufficient sample volume for indicated test(s)?	◉ Yes	◯ No	
All samples received within holding time?	◉ Yes	◯ No	
Cooler temperature in compliance?	◉ Yes	◯ No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	◉ Yes	◯ No	
Water - Sample containers properly preserved	◉ Yes	◯ No	◯ N/A
Water - VOA vials free of headspace	◯ Yes	◯ No	◉ N/A
Trip Blanks received with VOAs	◯ Yes	◯ No	◉ N/A
Soil VOA method 5035 – compliance criteria met	◯ Yes	◯ No	◉ N/A

☐ High concentration container (48 hr)
☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d)
☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?	◯ Yes	◉ No

Comments:

Signature: Consuelo C Bradley Date & Time: 04/20/2023 10:28:04

Client Name/Address	Client Project Manager/Contact	Billing Information	For Laboratory Use Only
CDG, Inc.	Alan Burk		

Project Description	Project/Site Location (City/State)		Method of Shipment	Matrix Key
R021223004 Auth #5 PSEC Lowman	Jackson, AL	☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other	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 #
R021223004-001				

Waypoint ANALYTICAL
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Unless noted, all containers per Table II of 40 CFR Part 136.

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
I	Cool <= 6C NA2S2O3

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative: 2- Nitric Plastic Liter	2 Nitric Plastic Quart	1 None Plastic Quart					
4/18/23	1540	MW-5	5	GW	G	2	2	1					
"	1510	MW-5A	5	"	"	2	2	1					
"	1120	MW-12	5	"	"	2	2	1					
"	1045	MW-12A	5	"	"	2	2	1					
"	1415	MW-23	5	"	"	2	2	1					
"	1305	MW-26	5	"	"	2	2	1					
"	1559	MW-3	1	"	"	—	—	1					
"	1620	MW-4	1	"	"	—	—	1					
"	1605	MW-13	1	"	"	—	—	1					
"	00:00	Duplicate	5	"	"	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 - CDG	
Blank/Cooler Temp				

Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
[signature]	4-19-23 0930	[signature]	04/19/2023 @1000
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time

Client Name/Address	Client Project Manager/Contact	Billing Information	For Laboratory Use Only
CDG, Inc	Alan Barck		

Project Description	Project/Site Location (City/State)		Method of Shipment	Matrix Key
Auth # 5 Lowman CCR	Jackson, AL	☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other	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 #
R021223004-001				

Waypoint ANALYTICAL
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Unless noted, all containers per Table II of 40 CFR Part 136.

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

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative: 2 Nitric Pl. liter	2 Nitric Pla. Gt.	1 None Pla. Gt.						
4/18/23	1900	Rinsate Blank	5	GW	G	2	2	1						
4/18/23	1910	Field Blank	5	GW	G	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	Received by: (SIGNATURE)	Date Time
	4-19-23 0930		04/19/23@ 1000
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time

Blank/Cooler Temp

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www.waypointanalytical.com

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 Bradley

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

Waypoint ANALYTICAL
107A Northside Office Park Drive, Andalusia, AL 36421
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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

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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

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

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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

Report Date : 05/15/2023
Received : 04/19/2023

Consuelo C Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

Lab No : **97857**
Sample ID : **MW-5**

Matrix: **Aqueous**
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

Waypoint ANALYTICAL
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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 : 05/15/2023
Received : 04/19/2023

Consuelo C Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

Lab No : **97858**
Sample ID : **MW-5A**

Matrix: **Aqueous**
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

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Main 334.343.9799
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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

Report Date : 05/15/2023
Received : 04/19/2023

Consuelo Bradley

Consuelo C Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

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

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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

Consuelo C Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

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

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

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Information : PowerSouth Lowman
Project# R021223004

Report Date : 05/15/2023
Received : 04/19/2023

Consuelo C Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

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

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

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Information : PowerSouth Lowman
Project# R021223004

Report Date : 05/15/2023
Received : 04/19/2023

Consuelo C Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

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

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00001
CDG Engineers Associates
Mr. Alan Barck
P.O. Box 278
Andalusia , AL 36420

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Report Date : 05/15/2023
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Consuelo C Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

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

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Report Date : 05/15/2023
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Consuelo C Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

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

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Information : PowerSouth Lowman
Project# R021223004

Report Date : 05/15/2023
Received : 04/19/2023

Consuelo C Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

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

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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

Report Date : 05/15/2023
Received : 04/19/2023

Consuelo Bradley

Consuelo C Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

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

Waypoint ANALYTICAL
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 : 05/15/2023
Received : 04/19/2023

Consuelo C Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

Lab No : **97867**
Sample ID : **Rinsate Blank**

Matrix: **Aqueous**
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

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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 : 05/15/2023
Received : 04/19/2023

Consuelo Bradley

Consuelo C Bradley

Report Number : **23-109-0004**

REPORT OF ANALYSIS

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

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ANALYTICAL REPORT

PREPARED FOR

Attn: Consuelo Bradley
Waypoint Analytical, Inc.
107A Northside Office Park Drive
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Generated 5/1/2023 6:14:17 AM

JOB DESCRIPTION

23-109-0004

JOB NUMBER

180-155480-1

Eurofins Pittsburgh
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

Job Notes

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PA Lab ID: 02-00416

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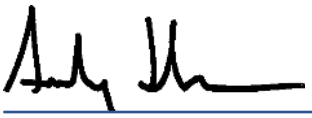

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Authorized for release by
Andy Johnson, Manager of Project Management
Andy.Johnson@et.eurofinsus.com
(615)301-5045

Table of Contents

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.

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

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

Lab Sample ID: 180-155480-1
Matrix: Water
Date Collected: 04/18/23 15:40
Date Received: 04/21/23 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	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

Lab Sample ID: 180-155480-2
Matrix: Water
Date Collected: 04/18/23 15:10
Date Received: 04/21/23 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	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

Lab Sample ID: 180-155480-3
Matrix: Water
Date Collected: 04/18/23 11:20
Date Received: 04/21/23 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	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

Lab Sample ID: 180-155480-4
Matrix: Water
Date Collected: 04/18/23 10:45
Date Received: 04/21/23 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	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

Lab Sample ID: 180-155480-5
Matrix: Water
Date Collected: 04/18/23 14:15
Date Received: 04/21/23 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	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

Lab Sample ID: 180-155480-6

Date Collected: 04/18/23 13:05

Matrix: Water

Date Received: 04/21/23 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	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

Lab Sample ID: 180-155480-7

Date Collected: 04/18/23 00:00

Matrix: Water

Date Received: 04/21/23 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	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

Lab Sample ID: 180-155480-8

Date Collected: 04/18/23 19:00

Matrix: Water

Date Received: 04/21/23 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	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

Lab Sample ID: 180-155480-9

Date Collected: 04/18/23 19:10

Matrix: Water

Date Received: 04/21/23 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	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 ID: MW-5

Lab Sample ID: 180-155480-1

Date Collected: 04/18/23 15:40

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 22:58	1

Client Sample ID: MW-5A

Lab Sample ID: 180-155480-2

Date Collected: 04/18/23 15:10

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	**0.0530**		0.00800		mg/L		04/27/23 14:00	04/28/23 23:01	1

Client Sample ID: MW-12

Lab Sample ID: 180-155480-3

Date Collected: 04/18/23 11:20

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 23:09	1

Client Sample ID: MW-12A

Lab Sample ID: 180-155480-4

Date Collected: 04/18/23 10:45

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 23:12	1

Client Sample ID: MW-23

Lab Sample ID: 180-155480-5

Date Collected: 04/18/23 14:15

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	**0.165**		0.00800		mg/L		04/27/23 14:00	04/28/23 23:15	1

Client Sample ID: MW-26

Lab Sample ID: 180-155480-6

Date Collected: 04/18/23 13:05

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 23:17	1

Client Sample ID: DUPLICATE

Lab Sample ID: 180-155480-7

Date Collected: 04/18/23 00:00

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	**0.167**		0.00800		mg/L		04/27/23 14:00	04/28/23 23:20	1

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

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		

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

Waypoint ANALYTICAL

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	Method of Shipment	Blank / Cooler Temp.	
Client			
Remarks			
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time
Consuelo Bradley	04/20/2023 0150	[signature]	4-21-23 0930
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

180-155480 Chain of Custody

CONSUELO BRADLEY
(334) 343-9799
WAYPOINT ANALYTICAL - ALABAMA
1072A NORTHSIDE OFFICE PARK DRI
ANDALUSIA 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 1

TRACKING #: 1Z 9X0 Y85 01 4545 8478

Uncorrected temp 3.5 °C
Thermometer ID 17
CF 0.0 Initials MA

PT-WI-SR-001 effective 11/8/18

BILLING: P/P

180-155480 Waybill

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Andy	Carrier Tracking No(s):	COC No: 180-485369.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Alabama	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note):		Job #: 180-155480-1
Address: 180 S. Van Buren Avenue, ,	Due Date Requested: 5/11/2023			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 23-109-0004	Project #: 18021257			
Site:	SSOW#:			

Analysis Requested

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, 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)

Other:

M60

Special Instructions/Note:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom Sublist	Total Number of containers
			Preservation Code:					
MW-5 (180-155480-1)	4/18/23	15:40 Central		Water			X	1
MW-5A (180-155480-2)	4/18/23	15:10 Central		Water			X	1
MW-12 (180-155480-3)	4/18/23	11:20 Central		Water			X	1
MW-12A (180-155480-4)	4/18/23	10:45 Central		Water			X	1
MW-23 (180-155480-5)	4/18/23	14:15 Central		Water			X	1
MW-26 (180-155480-6)	4/18/23	13:05 Central		Water			X	1
DUPLICATE (180-155480-7)	4/18/23	Central		Water			X	1
RINSATE BLANK (180-155480-8)	4/18/23	19:00 Central		Water			X	1
FIELD BLANK (180-155480-9)	4/18/23	19:10 Central		Water			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/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	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)***
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	4/19/23 1800	EETNC	[signature]	4-25-23 800	EETNC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins - Canton Sample Receipt Form/Narrative Login # :_____
Barberton Facility

Client ETA Site Name_____ Cooler unpacked by: Nancy Nagy

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 ☒ See Multiple Cooler Form

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 1 each	(Yes) No	Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC
-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)	
-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# HC203861
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 # : ______________

Eurofins - Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC (circled) Client Box Other	IR GUN #: 22	13.8	13.8	Wet Ice Blue Ice Dry Ice Water None (circled)
EC (circled) Client Box Other	IR GUN #: 22	11.3	11.3	Wet Ice Blue Ice Dry Ice Water None (circled)
EC (circled) Client Box Other	IR GUN #: 22	15.3	15.3	Wet Ice Blue Ice Dry Ice Water None (circled)
EC (circled) Client Box Other	IR GUN #: 22	14.0	14.0	Wet Ice Blue Ice Dry Ice Water None (circled)
EC (circled) Client Box Other	IR GUN #: 22	3.1	3.1	Wet Ice (circled) Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
				☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

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	

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

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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-109-0004

QC Prep: L677745
QC Prep Batch Method: 3005A
QC Analytical Batch(es): L678308,L678579
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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-109-0004

QC Prep: L677745
QC Prep Batch Method: 3005A
QC Analytical Batch(es): L678308,L678579
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

Waypoint ANALYTICAL
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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-109-0004

QC Prep: L680798
QC Prep Batch Method: 7470A
QC Analytical Batch(es): L680954
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

* QC Fail

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-109-0004

QC Prep: L681620
QC Prep Batch Method: SW-9056A (PREP)
QC Analytical Batch(es): L681735
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

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www.waypointanalytical.com

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?	◉ Yes	◯ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	◯ Yes	◯ No	◉ Not Present
Custody seals intact on sample bottles?	◯ Yes	◯ No	◉ Not Present
Chain of Custody (COC) present?	◉ Yes	◯ No	
COC agrees with sample label(s)?	◉ Yes	◯ No	
COC properly completed	◉ Yes	◯ No	
Samples in proper containers?	◉ Yes	◯ No	
Sample containers intact?	◉ Yes	◯ No	
Sufficient sample volume for indicated test(s)?	◉ Yes	◯ No	
All samples received within holding time?	◉ Yes	◯ No	
Cooler temperature in compliance?	◉ Yes	◯ No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	◉ Yes	◯ No	
Water - Sample containers properly preserved	◉ Yes	◯ No	◯ N/A
Water - VOA vials free of headspace	◯ Yes	◯ No	◉ N/A
Trip Blanks received with VOAs	◯ Yes	◯ No	◉ N/A
Soil VOA method 5035 – compliance criteria met	◯ Yes	◯ No	◉ N/A

☐ High concentration container (48 hr)
☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d)
☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?	◯ Yes	◉ No

Comments:

Signature: Consuelo C Bradley Date & Time: 04/20/2023 10:21:48

Client Name/Address	Client Project Manager/Contact	Billing Information	For Laboratory Use Only
CDG, Inc.	Alan Burk		

Project Description	Project/Site Location (City/State)		Method of Shipment	Matrix Key
R021223004 Auth #5 PSEC Lowman	Jackson, AL	☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other	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 #
R021223004-001				

Waypoint ANALYTICAL
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Unless noted, all containers per Table II of 40 CFR Part 136.

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
I	Cool <= 6C NA2S2O3

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative: 2- Nitric Plastic Liter	2 Nitric Plastic Quart	1 None Plastic Quart					
4/18/23	1540	MW-5	5	GW	G	2	2	1					
"	1510	MW-5A	5	"	"	2	2	1					
"	1120	MW-12	5	"	"	2	2	1					
"	1045	MW-12A	5	"	"	2	2	1					
"	1415	MW-23	5	"	"	2	2	1					
"	1305	MW-26	5	"	"	2	2	1					
"	1559	MW-3	1	"	"	—	—	1					
"	1620	MW-4	1	"	"	—	—	1					
"	1605	MW-13	1	"	"	—	—	1					
"	00:00	Duplicate	5	"	"	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 - CDG	

Blank/Cooler Temp	Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
	[signature]	4-19-23 0930	[signature]	04/19/2023 @1000
	Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
	Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time

Client Name/Address	Client Project Manager/Contact	Billing Information	For Laboratory Use Only
CDG, Inc	Alan Barck		

Project Description	Project/Site Location (City/State)		Method of Shipment	Matrix Key
Auth # 5 Lowman CCR	Jackson, AL	☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other	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 #
R021223004-001				

Waypoint ANALYTICAL
2790 Whitten Road
Memphis, TN 38133
(901) 213-2400

Unless noted, all containers per Table II of 40 CFR Part 136.

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

Date	Time	Sample Identification	Number of Containers	Matrix (Refer to Key)	(G)rab or (C)omposite	Required Analysis / Preservative: 2 Nitric Pl. liter	2 Nitric Pla. Gt.	1 None Pla. Gt.						
4/18/23	1900	Rinsate Blank	5	GW	G	2	2	1						
4/18/23	1910	Field Blank	5	GW	G	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	Received by: (SIGNATURE)	Date Time
	4-19-23 0930		04/19/23@ 1000
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time

Blank/Cooler Temp

APPENDIX F

STATISTICAL EVALUATON OF GROUNDWATER DATA

GROUNDWATER STATS CONSULTING

June 7, 2023

CDG Engineers & Associates, Inc.
Attn: Mr. Alan Barck
1840 East Three Notch Street
Andalusia, AL 36421

RE: Lowman Power Plant – April/May 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 April/May 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 and MW-2
- Downgradient wells: MW-3, MW-4, 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 have a minimum of 4 samples and, therefore, data are evaluated using confidence intervals for Appendix IV constituents. Once the minimum of 8 background samples has been collected, data from these wells will be evaluated using interwell prediction limits for Appendix III 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 since a minimum of 4 samples is available.

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 containing 100% non-detects follows this letter. Also note that the reporting limit for some wells was higher than MCLs or CCR Rule-Specified Levels 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 across all wells 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 25 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. 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

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 the 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 – April 2023

Appendix III – Detection Monitoring Program

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 D). 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 April 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 and evaluates all measurements within a well to monitor whether concentration levels are increasing, decreasing, or stabilizing over time (Figure E). 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.

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.

The statistically defined background limits are non-parametric upper tolerance limits which account for the entire distribution of measurements naturally occurring upgradient of a facility (Figure F). 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 the Fall 2021 analysis and will be updated again during the Fall 2023 analysis.

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 CRF 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 G).

To represent downgradient average concentrations, confidence intervals were constructed, with 99% confidence for the lower confidence limit, using the most recent 8 samples for Appendix IV constituents at each downgradient well (Figure H). Note that the lower confidence limit for barium at delineation well MW-14B resulted in a negative limit. Therefore, an additional non-parametric confidence interval, which uses the highest and lowest reported measurements for the upper and lower confidence limits, respectively, was constructed and appended to the end of the confidence interval analyses.

The confidence intervals were compared against the corresponding GWPS, and only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed its respective standard. Exceedances were noted for the following well/constituent pairs:

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

Summary tables and plots of the confidence interval results follow this letter.

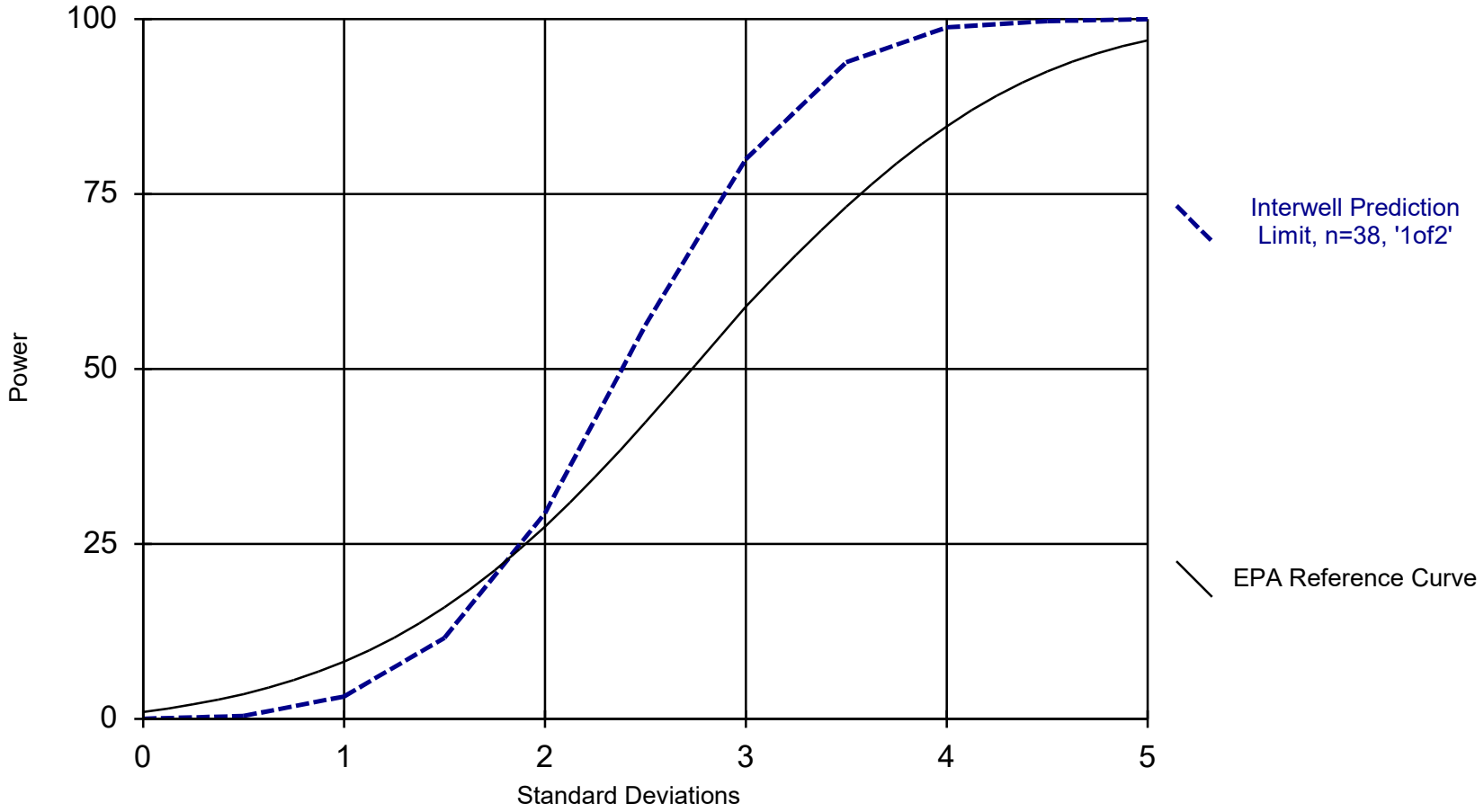
Thank you for the opportunity to assist you in the statistical analysis of groundwater quality at the Lowman Power Plant. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Kristina L. Rayner
Senior Statistician

Andrew T. Collins
Project Manager

Power Curve



Kappa = 2.312, based on 25 compliance wells and 7 constituents, evaluated semi-annually (this report reflects annual total).

Analysis Run 5/26/2023 11:38 AM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

100% Non-Detects

Analysis Run 6/4/2023 11:28 AM 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-18, MW-19, MW-20, MW-21, MW-22, MW-23, MW-24, MW-25, MW-26, MW-3, MW-4, MW-5, MW-5A, MW-6, MW-7, MW-8, MW-9

Arsenic (mg/L)
MW-10, MW-12, MW-15, MW-19, MW-3

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-24, MW-25, MW-26, 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-24, MW-25, MW-26, 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-13, MW-14B, MW-26, MW-9

Fluoride, total (mg/L)
MW-12, MW-12A, MW-13A, MW-14B, MW-15, MW-19, MW-3

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-24, MW-25, MW-26, MW-3, 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-26, MW-3, 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-24, MW-25, MW-26, 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-21, 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-21, MW-22, MW-23, MW-24, MW-25, 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-24, MW-25, MW-26, MW-3, MW-4, MW-5, MW-5A, MW-6, MW-7, MW-8, MW-9

Interwell Prediction Limits - Significant Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MW-10	0.05	n/a	4/12/2023	0.537	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-11	0.05	n/a	4/12/2023	1.05	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-12	0.05	n/a	4/18/2023	0.572	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-12A	0.05	n/a	4/18/2023	0.414	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-13	0.05	n/a	4/10/2023	0.204	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-13A	0.05	n/a	4/11/2023	0.068	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-14	0.05	n/a	4/13/2023	1.12	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-14A	0.05	n/a	4/13/2023	0.851	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-16	0.05	n/a	4/12/2023	0.55	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-17	0.05	n/a	4/12/2023	2.33	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-18	0.05	n/a	4/12/2023	0.098	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-19	0.05	n/a	4/13/2023	0.186	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-20	0.05	n/a	4/11/2023	0.064	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-21	0.05	n/a	4/11/2023	0.276	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-22	0.05	n/a	4/12/2023	0.099	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-23	0.05	n/a	4/18/2023	8.68	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-4	0.05	n/a	4/10/2023	2.04	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-5	0.05	n/a	4/18/2023	0.468	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-5A	0.05	n/a	4/18/2023	1.67	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-6	0.05	n/a	4/12/2023	0.166	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-7	0.05	n/a	4/12/2023	0.83	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-8	0.05	n/a	4/12/2023	0.26	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-9	0.05	n/a	4/11/2023	5.04	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	MW-10	44.4	n/a	4/12/2023	90.9	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-11	44.4	n/a	4/12/2023	185	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-12	44.4	n/a	4/18/2023	139	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-12A	44.4	n/a	4/18/2023	90.5	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-13	44.4	n/a	4/10/2023	53.8	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-14	44.4	n/a	4/13/2023	102	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-14A	44.4	n/a	4/13/2023	97	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-16	44.4	n/a	4/12/2023	59.3	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-17	44.4	n/a	4/12/2023	115	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-20	44.4	n/a	4/11/2023	47	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-21	44.4	n/a	4/11/2023	80.1	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-22	44.4	n/a	4/12/2023	124	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-23	44.4	n/a	4/18/2023	396	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-4	44.4	n/a	4/10/2023	210	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-5	44.4	n/a	4/18/2023	90.6	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-5A	44.4	n/a	4/18/2023	102	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-6	44.4	n/a	4/12/2023	75.5	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-7	44.4	n/a	4/12/2023	65	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-8	44.4	n/a	4/12/2023	50	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-9	44.4	n/a	4/11/2023	132	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-10	5.382	n/a	4/12/2023	83.4	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-11	5.382	n/a	4/12/2023	33.8	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-12	5.382	n/a	4/18/2023	26.6	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-12A	5.382	n/a	4/18/2023	58	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-13A	5.382	n/a	4/11/2023	71.3	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-14	5.382	n/a	4/13/2023	78.1	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-14A	5.382	n/a	4/13/2023	46.3	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-16	5.382	n/a	4/12/2023	32.2	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-17	5.382	n/a	4/12/2023	102	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-18	5.382	n/a	4/12/2023	12.5	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-19	5.382	n/a	4/13/2023	9.32	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-21	5.382	n/a	4/11/2023	19.9	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2

Interwell Prediction Limits - Significant Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:28 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-22	5.382	n/a	4/12/2023	11.6	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-23	5.382	n/a	4/18/2023	299	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-4	5.382	n/a	4/10/2023	397	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-5	5.382	n/a	4/18/2023	20.4	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-5A	5.382	n/a	4/18/2023	95.5	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-6	5.382	n/a	4/12/2023	9.31	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-8	5.382	n/a	4/12/2023	13.8	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-9	5.382	n/a	4/11/2023	131	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Fluoride, total (mg/L)	MW-11	0.143	n/a	4/12/2023	1.74	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-17	0.143	n/a	4/12/2023	1.43	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-23	0.143	n/a	4/18/2023	2.02	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-4	0.143	n/a	4/10/2023	0.4	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-5A	0.143	n/a	4/18/2023	1.27	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-7	0.143	n/a	4/12/2023	1.98	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-8	0.143	n/a	4/12/2023	0.225	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
pH, Field (SU)	MW-11	6.385	3.711	4/12/2023	6.8	Yes	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-13	6.385	3.711	4/10/2023	6.81	Yes	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-23	6.385	3.711	4/18/2023	6.61	Yes	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-8	6.385	3.711	4/12/2023	6.53	Yes	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	MW-10	31.8	n/a	4/12/2023	296	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-11	31.8	n/a	4/12/2023	260	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-12	31.8	n/a	4/18/2023	297	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-12A	31.8	n/a	4/18/2023	211	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-13A	31.8	n/a	4/11/2023	91.3	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-14	31.8	n/a	4/13/2023	214	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-14A	31.8	n/a	4/13/2023	91	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-16	31.8	n/a	4/12/2023	52.1	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-17	31.8	n/a	4/12/2023	157	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-19	31.8	n/a	4/13/2023	63.4	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-21	31.8	n/a	4/11/2023	38.9	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-23	31.8	n/a	4/18/2023	983	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-4	31.8	n/a	4/10/2023	678	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-5	31.8	n/a	4/18/2023	38.4	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-5A	31.8	n/a	4/18/2023	114	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-6	31.8	n/a	4/12/2023	123	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-7	31.8	n/a	4/12/2023	50	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-9	31.8	n/a	4/11/2023	602	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-10	232	n/a	4/12/2023	563	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-11	232	n/a	4/12/2023	634	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-12	232	n/a	4/18/2023	606	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-12A	232	n/a	4/18/2023	447	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-13A	232	n/a	4/11/2023	308	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-14	232	n/a	4/13/2023	466	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-14A	232	n/a	4/13/2023	392	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-16	232	n/a	4/12/2023	322	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-17	232	n/a	4/12/2023	603	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-21	232	n/a	4/11/2023	312	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-22	232	n/a	4/12/2023	402	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-23	232	n/a	4/18/2023	1950	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-4	232	n/a	4/18/2023	1600	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-5	232	n/a	4/18/2023	645	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-5A	232	n/a	4/18/2023	524	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-6	232	n/a	4/12/2023	357	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-7	232	n/a	4/12/2023	278	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-9	232	n/a	4/11/2023	1200	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	**MW-10**	**0.05**	**n/a**	**4/12/2023**	**0.537**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-11**	**0.05**	**n/a**	**4/12/2023**	**1.05**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-12**	**0.05**	**n/a**	**4/18/2023**	**0.572**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-12A**	**0.05**	**n/a**	**4/18/2023**	**0.414**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-13**	**0.05**	**n/a**	**4/10/2023**	**0.204**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-13A**	**0.05**	**n/a**	**4/11/2023**	**0.068**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-14**	**0.05**	**n/a**	**4/13/2023**	**1.12**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-14A**	**0.05**	**n/a**	**4/13/2023**	**0.851**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	MW-15	0.05	n/a	4/12/2023	0.026	No	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**MW-16**	**0.05**	**n/a**	**4/12/2023**	**0.55**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-17**	**0.05**	**n/a**	**4/12/2023**	**2.33**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-18**	**0.05**	**n/a**	**4/12/2023**	**0.098**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-19**	**0.05**	**n/a**	**4/13/2023**	**0.186**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-20**	**0.05**	**n/a**	**4/11/2023**	**0.064**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-21**	**0.05**	**n/a**	**4/11/2023**	**0.276**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-22**	**0.05**	**n/a**	**4/12/2023**	**0.099**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-23**	**0.05**	**n/a**	**4/18/2023**	**8.68**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	MW-3	0.05	n/a	4/10/2023	0.019	No	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**MW-4**	**0.05**	**n/a**	**4/10/2023**	**2.04**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-5**	**0.05**	**n/a**	**4/18/2023**	**0.468**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-5A**	**0.05**	**n/a**	**4/18/2023**	**1.67**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-6**	**0.05**	**n/a**	**4/12/2023**	**0.166**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-7**	**0.05**	**n/a**	**4/12/2023**	**0.83**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-8**	**0.05**	**n/a**	**4/12/2023**	**0.26**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-9**	**0.05**	**n/a**	**4/11/2023**	**5.04**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Calcium, total (mg/L)	**MW-10**	**44.4**	**n/a**	**4/12/2023**	**90.9**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-11**	**44.4**	**n/a**	**4/12/2023**	**185**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-12**	**44.4**	**n/a**	**4/18/2023**	**139**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-12A**	**44.4**	**n/a**	**4/18/2023**	**90.5**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-13**	**44.4**	**n/a**	**4/10/2023**	**53.8**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	MW-13A	44.4	n/a	4/11/2023	27.6	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**MW-14**	**44.4**	**n/a**	**4/13/2023**	**102**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-14A**	**44.4**	**n/a**	**4/13/2023**	**97**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	MW-15	44.4	n/a	4/12/2023	9.78	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**MW-16**	**44.4**	**n/a**	**4/12/2023**	**59.3**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-17**	**44.4**	**n/a**	**4/12/2023**	**115**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	MW-18	44.4	n/a	4/12/2023	43.9	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-19	44.4	n/a	4/13/2023	26.5	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**MW-20**	**44.4**	**n/a**	**4/11/2023**	**47**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-21**	**44.4**	**n/a**	**4/11/2023**	**80.1**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-22**	**44.4**	**n/a**	**4/12/2023**	**124**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-23**	**44.4**	**n/a**	**4/18/2023**	**396**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	MW-3	44.4	n/a	4/10/2023	6.57	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**MW-4**	**44.4**	**n/a**	**4/10/2023**	**210**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-5**	**44.4**	**n/a**	**4/18/2023**	**90.6**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-5A**	**44.4**	**n/a**	**4/18/2023**	**102**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-6**	**44.4**	**n/a**	**4/12/2023**	**75.5**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-7**	**44.4**	**n/a**	**4/12/2023**	**65**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-8**	**44.4**	**n/a**	**4/12/2023**	**50**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-9**	**44.4**	**n/a**	**4/11/2023**	**132**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**MW-10**	**5.382**	**n/a**	**4/12/2023**	**83.4**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-11**	**5.382**	**n/a**	**4/12/2023**	**33.8**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-12**	**5.382**	**n/a**	**4/18/2023**	**26.6**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-12A**	**5.382**	**n/a**	**4/18/2023**	**58**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	MW-13	5.382	n/a	4/10/2023	1.94	No	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:28 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-13A**	**5.382**	**n/a**	**4/11/2023**	**71.3**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-14**	**5.382**	**n/a**	**4/13/2023**	**78.1**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-14A**	**5.382**	**n/a**	**4/13/2023**	**46.3**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	MW-15	5.382	n/a	4/12/2023	4.91	No	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	**MW-16**	**5.382**	**n/a**	**4/12/2023**	**32.2**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-17**	**5.382**	**n/a**	**4/12/2023**	**102**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-18**	**5.382**	**n/a**	**4/12/2023**	**12.5**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-19**	**5.382**	**n/a**	**4/13/2023**	**9.32**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	MW-20	5.382	n/a	4/11/2023	5.15	No	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	**MW-21**	**5.382**	**n/a**	**4/11/2023**	**19.9**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-22**	**5.382**	**n/a**	**4/12/2023**	**11.6**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-23**	**5.382**	**n/a**	**4/18/2023**	**299**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	MW-3	5.382	n/a	4/10/2023	1.68	No	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	**MW-4**	**5.382**	**n/a**	**4/10/2023**	**397**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-5**	**5.382**	**n/a**	**4/18/2023**	**20.4**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-5A**	**5.382**	**n/a**	**4/18/2023**	**95.5**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-6**	**5.382**	**n/a**	**4/12/2023**	**9.31**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	MW-7	5.382	n/a	4/12/2023	3.03	No	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	**MW-8**	**5.382**	**n/a**	**4/12/2023**	**13.8**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-9**	**5.382**	**n/a**	**4/11/2023**	**131**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Fluoride, total (mg/L)	MW-10	0.143	n/a	4/12/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**MW-11**	**0.143**	**n/a**	**4/12/2023**	**1.74**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	MW-12	0.143	n/a	4/18/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-12A	0.143	n/a	4/18/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-13	0.143	n/a	4/10/2023	0.13	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-13A	0.143	n/a	4/11/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-14	0.143	n/a	4/13/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-14A	0.143	n/a	4/13/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-15	0.143	n/a	4/12/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-16	0.143	n/a	4/12/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**MW-17**	**0.143**	**n/a**	**4/12/2023**	**1.43**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	MW-18	0.143	n/a	4/12/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-19	0.143	n/a	4/13/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-20	0.143	n/a	4/11/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-21	0.143	n/a	4/11/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-22	0.143	n/a	4/12/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**MW-23**	**0.143**	**n/a**	**4/18/2023**	**2.02**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	MW-3	0.143	n/a	4/10/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**MW-4**	**0.143**	**n/a**	**4/10/2023**	**0.4**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	MW-5	0.143	n/a	4/18/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**MW-5A**	**0.143**	**n/a**	**4/18/2023**	**1.27**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	MW-6	0.143	n/a	4/12/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**MW-7**	**0.143**	**n/a**	**4/12/2023**	**1.98**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	**MW-8**	**0.143**	**n/a**	**4/12/2023**	**0.225**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	MW-9	0.143	n/a	4/11/2023	0.14	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
pH, Field (SU)	MW-10	6.385	3.711	4/12/2023	4.55	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	**MW-11**	**6.385**	**3.711**	**4/12/2023**	**6.8**	**Yes**	**40**	**5.048**	**0.5818**	**0**	**None**	**No**	**0.0001505**	**Param Inter 1 of 2**
pH, Field (SU)	MW-12	6.385	3.711	4/18/2023	6.1	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-12A	6.385	3.711	4/18/2023	5.69	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	**MW-13**	**6.385**	**3.711**	**4/10/2023**	**6.81**	**Yes**	**40**	**5.048**	**0.5818**	**0**	**None**	**No**	**0.0001505**	**Param Inter 1 of 2**
pH, Field (SU)	MW-13A	6.385	3.711	4/11/2023	5.3	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-14	6.385	3.711	4/26/2022	6.35	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-14A	6.385	3.711	4/13/2023	5.62	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-15	6.385	3.711	4/10/2023	5.14	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-16	6.385	3.711	4/12/2023	5.7	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (SU)	MW-17	6.385	3.711	4/12/2023	6	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-18	6.385	3.711	4/12/2023	6.04	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-19	6.385	3.711	4/13/2023	5.33	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-20	6.385	3.711	4/11/2023	6.06	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-21	6.385	3.711	4/11/2023	6.24	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-22	6.385	3.711	4/12/2023	6.2	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	**MW-23**	**6.385**	**3.711**	**4/18/2023**	**6.61**	**Yes**	**40**	**5.048**	**0.5818**	**0**	**None**	**No**	**0.0001505**	**Param Inter 1 of 2**
pH, Field (SU)	MW-3	6.385	3.711	4/10/2023	4.75	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-4	6.385	3.711	4/10/2023	5.58	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-5	6.385	3.711	4/18/2023	6.1	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-5A	6.385	3.711	4/18/2023	5.93	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-6	6.385	3.711	4/12/2023	5.68	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-7	6.385	3.711	4/12/2023	6.05	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	**MW-8**	**6.385**	**3.711**	**4/12/2023**	**6.53**	**Yes**	**40**	**5.048**	**0.5818**	**0**	**None**	**No**	**0.0001505**	**Param Inter 1 of 2**
pH, Field (SU)	MW-9	6.385	3.711	4/11/2023	6.08	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	**MW-10**	**31.8**	**n/a**	**4/12/2023**	**296**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-11**	**31.8**	**n/a**	**4/12/2023**	**260**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-12**	**31.8**	**n/a**	**4/18/2023**	**297**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-12A**	**31.8**	**n/a**	**4/18/2023**	**211**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-13	31.8	n/a	4/10/2023	27.9	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-13A**	**31.8**	**n/a**	**4/11/2023**	**91.3**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-14**	**31.8**	**n/a**	**4/13/2023**	**214**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-14A**	**31.8**	**n/a**	**4/13/2023**	**91**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-15	31.8	n/a	4/12/2023	23.1	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-16**	**31.8**	**n/a**	**4/12/2023**	**52.1**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-17**	**31.8**	**n/a**	**4/12/2023**	**157**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-18	31.8	n/a	4/12/2023	2.04	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-19**	**31.8**	**n/a**	**4/13/2023**	**63.4**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-20	31.8	n/a	4/11/2023	14.5	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-21**	**31.8**	**n/a**	**4/11/2023**	**38.9**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-22	31.8	n/a	4/12/2023	1.42	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-23**	**31.8**	**n/a**	**4/18/2023**	**983**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-3	31.8	n/a	4/10/2023	26.4	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-4**	**31.8**	**n/a**	**4/10/2023**	**678**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-5**	**31.8**	**n/a**	**4/18/2023**	**38.4**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-5A**	**31.8**	**n/a**	**4/18/2023**	**114**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-6**	**31.8**	**n/a**	**4/12/2023**	**123**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-7**	**31.8**	**n/a**	**4/12/2023**	**50**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-8	31.8	n/a	4/12/2023	0.5ND	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-9**	**31.8**	**n/a**	**4/11/2023**	**602**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-10**	**232**	**n/a**	**4/12/2023**	**563**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-11**	**232**	**n/a**	**4/12/2023**	**634**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-12**	**232**	**n/a**	**4/18/2023**	**606**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-12A**	**232**	**n/a**	**4/18/2023**	**447**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	MW-13	232	n/a	4/18/2023	228	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**MW-13A**	**232**	**n/a**	**4/11/2023**	**308**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-14**	**232**	**n/a**	**4/13/2023**	**466**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-14A**	**232**	**n/a**	**4/13/2023**	**392**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	MW-15	232	n/a	4/12/2023	85.7	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**MW-16**	**232**	**n/a**	**4/12/2023**	**322**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-17**	**232**	**n/a**	**4/12/2023**	**603**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	MW-18	232	n/a	4/12/2023	208	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-19	232	n/a	4/13/2023	126	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-20	232	n/a	4/11/2023	210	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**MW-21**	**232**	**n/a**	**4/11/2023**	**312**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**

Interwell Prediction Limits - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	**MW-22**	**232**	**n/a**	**4/12/2023**	**402**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-23**	**232**	**n/a**	**4/18/2023**	**1950**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	MW-3	232	n/a	4/18/2023	12.6ND	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**MW-4**	**232**	**n/a**	**4/18/2023**	**1600**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-5**	**232**	**n/a**	**4/18/2023**	**645**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-5A**	**232**	**n/a**	**4/18/2023**	**524**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-6**	**232**	**n/a**	**4/12/2023**	**357**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-7**	**232**	**n/a**	**4/12/2023**	**278**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	MW-8	232	n/a	4/12/2023	198	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**MW-9**	**232**	**n/a**	**4/11/2023**	**1200**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**

Trend Tests - Prediction Limit Exceedances - Significant Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:43 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	MW-12A	-0.06264	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-13	-0.1129	-65	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-13A	0.005648	45	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-14A	-0.6908	-113	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-16	-0.4373	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-17	-0.7581	-52	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-19	-0.03938	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-5A	-1.884	-119	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-7	-1.322	-122	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-9	0.6332	91	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-1 (bg)	1.677	94	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-11	-52.24	-75	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-12A	-7.594	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-13	-5.281	-67	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-14A	-20.49	-82	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-16	-17.6	-58	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-17	-23.88	-50	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-5A	-54.01	-115	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-7	-33.59	-121	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-9	57.06	94	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-11	-49.7	-95	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-12A	-5.747	-83	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-13A	7.879	72	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-14A	-29.05	-86	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-16	-21.49	-63	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-17	-24.59	-52	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-19	-5.611	-47	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-5A	-38.78	-105	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-6	-5.259	-140	-74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1 (bg)	0.01339	98	74	Yes	19	47.37	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-4	0.02939	86	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-8	0.01938	109	74	Yes	19	5.263	n/a	n/a	0.01	NP
pH, Field (SU)	MW-11	0.05508	126	124	Yes	27	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-14A	-44	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-16	-39.15	-65	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-19	-9.25	-46	-43	Yes	13	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	-75.69	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-7	-53.41	-112	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-9	113.5	93	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1 (bg)	14.35	91	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-11	-296.1	-79	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-12A	-45.23	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-13A	25.76	44	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-14A	-117	-89	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-16	-83.43	-66	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-17	-118.2	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-5A	-269.9	-117	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-7	-141.2	-120	-74	Yes	19	0	n/a	n/a	0.01	NP

Trend Tests - Prediction Limit Exceedances - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:43 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	MW-1 (bg)	-0.0033	-72	-74	No	19	52.63	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-10	0.02514	61	74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-11	-0.8781	-54	-74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-12	-0.1304	-32	-34	No	11	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**MW-12A**	**-0.06264**	**-76**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**MW-13**	**-0.1129**	**-65**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**MW-13A**	**0.005648**	**45**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	MW-14	-0.169	-11	-30	No	10	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**MW-14A**	**-0.6908**	**-113**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**MW-16**	**-0.4373**	**-62**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**MW-17**	**-0.7581**	**-52**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	MW-18	-0.01084	-19	-43	No	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**MW-19**	**-0.03938**	**-44**	**-43**	**Yes**	**13**	**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	0.002482	18	43	No	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-21	0.00959	20	43	No	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-22	0.001246	4	43	No	13	7.692	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-23	-0.09421	-5	-43	No	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-4	0.09892	53	74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-5	-0.1644	-15	-34	No	11	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**MW-5A**	**-1.884**	**-119**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	MW-6	-0.01908	-52	-74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**MW-7**	**-1.322**	**-122**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	MW-8	0.009456	40	74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**MW-9**	**0.6332**	**91**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**MW-1 (bg)**	**1.677**	**94**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	MW-10	-3.384	-51	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**MW-11**	**-52.24**	**-75**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	MW-12	-5.237	-21	-34	No	11	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**MW-12A**	**-7.594**	**-91**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**MW-13**	**-5.281**	**-67**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	MW-14	-4.568	-3	-30	No	10	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**MW-14A**	**-20.49**	**-82**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**MW-16**	**-17.6**	**-58**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**MW-17**	**-23.88**	**-50**	**-43**	**Yes**	**13**	**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-20	-0.7724	-12	-43	No	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-21	1.216	6	43	No	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-22	-1.621	-10	-43	No	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-23	33.76	16	43	No	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-4	-2.629	-41	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-5	-5.746	-24	-34	No	11	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**MW-5A**	**-54.01**	**-115**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	MW-6	-0.9171	-21	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**MW-7**	**-33.59**	**-121**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	MW-8	-0.9225	-39	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**MW-9**	**57.06**	**94**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	MW-1 (bg)	-0.07604	-35	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-10	-4.763	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**MW-11**	**-49.7**	**-95**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	MW-12	-16.83	-33	-34	No	11	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**MW-12A**	**-5.747**	**-83**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**MW-13A**	**7.879**	**72**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	MW-14	-13.32	-19	-30	No	10	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**MW-14A**	**-29.05**	**-86**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Tests - Prediction Limit Exceedances - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:43 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride, Total (mg/L)	**MW-16**	**-21.49**	**-63**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**MW-17**	**-24.59**	**-52**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	MW-18	-0.8242	-33	-43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**MW-19**	**-5.611**	**-47**	**-43**	**Yes**	**13**	**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-21	-2.965	-26	-43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-22	-2.297	-34	-43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-23	16.67	8	43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-4	-1.788	-18	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-5	-10.39	-29	-34	No	11	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**MW-5A**	**-38.78**	**-105**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**MW-6**	**-5.259**	**-140**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	MW-8	-3.591	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-9	21.17	39	74	No	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	**MW-1 (bg)**	**0.01339**	**98**	**74**	**Yes**	**19**	**47.37**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	MW-11	0.03638	39	74	No	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-17	0.0998	18	43	No	13	0	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
Fluoride, total (mg/L)	MW-23	-0.01139	-2	-43	No	13	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	**MW-4**	**0.02939**	**86**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	MW-5A	-0.03295	-17	-63	No	17	5.882	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-7	0.1363	62	74	No	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	**MW-8**	**0.01938**	**109**	**74**	**Yes**	**19**	**5.263**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MW-1 (bg)	0.05273	44	81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MW-11**	**0.05508**	**126**	**124**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MW-13	0.05875	62	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
pH, Field (SU)	MW-23	-0.1322	-42	-43	No	13	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-8	0.04371	92	124	No	27	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-1 (bg)	0.08946	7	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-10	5.486	24	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-11	-81.32	-65	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-12	-2.606	-4	-34	No	11	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-12A	-7.695	-20	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-13A	3.593	32	43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-14	-7.419	-4	-30	No	10	10	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**MW-14A**	**-44**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**MW-16**	**-39.15**	**-65**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	MW-17	-22.86	-38	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**MW-19**	**-9.25**	**-46**	**-43**	**Yes**	**13**	**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-21	7.383	21	43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-23	55.9	27	43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-4	26.77	74	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-5	-10.81	-17	-34	No	11	9.091	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**MW-5A**	**-75.69**	**-91**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	MW-6	-0.2029	-6	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**MW-7**	**-53.41**	**-112**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**MW-9**	**113.5**	**93**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**MW-1 (bg)**	**14.35**	**91**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	MW-10	-14.98	-39	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**MW-11**	**-296.1**	**-79**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	MW-12	-29.31	-23	-34	No	11	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**MW-12A**	**-45.23**	**-78**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**MW-13A**	**25.76**	**44**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Tests - Prediction Limit Exceedances - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:43 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	MW-14	-48.05	-15	-30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**MW-14A**	**-117**	**-89**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**MW-16**	**-83.43**	**-66**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**MW-17**	**-118.2**	**-48**	**-43**	**Yes**	**13**	**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	5.502	13	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-22	5.489	16	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-23	219.9	17	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-4	-10.07	-17	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-5	-40.05	-27	-34	No	11	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**MW-5A**	**-269.9**	**-117**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	MW-6	-6.506	-38	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**MW-7**	**-141.2**	**-120**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	MW-9	181.4	69	74	No	19	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 12/16/2021, 12:23 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.001	30	n/a	n/a	100	n/a	n/a	0.2146	NP Inter
Arsenic (mg/L)	0.00235	30	n/a	n/a	56.67	n/a	n/a	0.2146	NP Inter
Barium (mg/L)	0.14	30	n/a	n/a	0	n/a	n/a	0.2146	NP Inter
Beryllium (mg/L)	0.001	30	n/a	n/a	90	n/a	n/a	0.2146	NP Inter
Cadmium (mg/L)	0.001	30	n/a	n/a	100	n/a	n/a	0.2146	NP Inter
Chromium (mg/L)	0.001	30	n/a	n/a	100	n/a	n/a	0.2146	NP Inter
Cobalt (mg/L)	0.013	30	n/a	n/a	0	n/a	n/a	0.2146	NP Inter
Combined Radium 226 + 228 (pCi/L)	1.49	32	n/a	n/a	0	n/a	n/a	0.1937	NP Inter
Fluoride (mg/L)	0.143	32	n/a	n/a	65.63	n/a	n/a	0.1937	NP Inter
Lead (mg/L)	0.001	30	n/a	n/a	100	n/a	n/a	0.2146	NP Inter
Lithium (mg/L)	0.005	31	n/a	n/a	74.19	n/a	n/a	0.2039	NP Inter
Mercury (mg/L)	0.0002	30	n/a	n/a	93.33	n/a	n/a	0.2146	NP Inter
Molybdenum (mg/L)	0.001	30	n/a	n/a	96.67	n/a	n/a	0.2146	NP Inter
Selenium (mg/L)	0.001	30	n/a	n/a	90	n/a	n/a	0.2146	NP Inter
Thallium (mg/L)	0.001	30	n/a	n/a	100	n/a	n/a	0.2146	NP Inter

LOWMAN POWER PLANT GWPS			
Analyte	**Units**	**Background**	**GWPS**
Antimony	mg/L	0.001	0.006
Arsenic	mg/L	0.0024	0.01
Barium	mg/L	0.14	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	1.49	5
Fluoride	mg/L	0.14	4
Lead	mg/L	0.001	0.015
Lithium	mg/L	0.005	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 6/6/2023, 2:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**MW-17**	**0.06018**	**0.02847**	**0.01**	**Yes**	**8**	**0.04433**	**0.01496**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**MW-20**	**0.03969**	**0.02461**	**0.01**	**Yes**	**8**	**0.03215**	**0.007112**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**MW-23**	**0.3038**	**0.1612**	**0.01**	**Yes**	**8**	**0.2325**	**0.06728**	**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**	**0.08221**	**0.03199**	**0.013**	**Yes**	**8**	**0.05638**	**0.02711**	**0**	**None**	**x^(1/3)**	**0.01**	**Param.**
Cobalt (mg/L)	**MW-17**	**0.03**	**0.015**	**0.013**	**Yes**	**8**	**0.01896**	**0.004998**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Cobalt (mg/L)	**MW-3**	**0.02972**	**0.0206**	**0.013**	**Yes**	**8**	**0.02516**	**0.004301**	**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**	**0.06325**	**0.04335**	**0.04**	**Yes**	**8**	**0.0533**	**0.009392**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**MW-17**	**0.113**	**0.06744**	**0.04**	**Yes**	**8**	**0.08935**	**0.02735**	**0**	**None**	**x^3**	**0.01**	**Param.**
Lithium (mg/L)	**MW-23**	**0.174**	**0.135**	**0.04**	**Yes**	**8**	**0.1581**	**0.01662**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Lithium (mg/L)	**MW-24**	**0.2208**	**0.05366**	**0.04**	**Yes**	**6**	**0.1372**	**0.06083**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**MW-25**	**0.1763**	**0.1073**	**0.04**	**Yes**	**6**	**0.1418**	**0.02512**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**MW-5A**	**0.07235**	**0.05068**	**0.04**	**Yes**	**8**	**0.06151**	**0.01022**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**MW-7**	**0.09089**	**0.06928**	**0.04**	**Yes**	**8**	**0.08009**	**0.01019**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/6/2023, 2:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MW-11	0.003307	0.002445	0.01	No	8	0.002876	0.0004067	12.5	None	No	0.01	Param.
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	0.01251	0.007744	0.01	No	8	0.01013	0.002246	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	0.01045	0.004877	0.01	No	8	0.007661	0.002627	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-14B	0.0017	0.001	0.01	No	4	0.001175	0.00035	25	None	No	0.0625	NP (normality)
Arsenic (mg/L)	MW-16	0.005275	0.001548	0.01	No	8	0.003411	0.001758	0	None	No	0.01	Param.
Arsenic (mg/L)	**MW-17**	**0.06018**	**0.02847**	**0.01**	**Yes**	**8**	**0.04433**	**0.01496**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MW-18	0.006771	0.0007975	0.01	No	8	0.003704	0.003555	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	**MW-20**	**0.03969**	**0.02461**	**0.01**	**Yes**	**8**	**0.03215**	**0.007112**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MW-21	0.0145	0.0051	0.01	No	8	0.008143	0.003745	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	MW-22	0.005866	0.003472	0.01	No	8	0.004669	0.001129	0	None	No	0.01	Param.
Arsenic (mg/L)	**MW-23**	**0.3038**	**0.1612**	**0.01**	**Yes**	**8**	**0.2325**	**0.06728**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MW-24	0.004085	0.0009438	0.01	No	7	0.002514	0.001322	14.29	None	No	0.01	Param.
Arsenic (mg/L)	MW-25	0.01735	0.001874	0.01	No	7	0.01113	0.006078	28.57	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MW-26	0.0014	0.001	0.01	No	7	0.0011	0.0001528	57.14	None	No	0.008	NP (normality)
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	0.004122	0.002114	0.01	No	8	0.003145	0.0009777	0	None	x^2	0.01	Param.
Arsenic (mg/L)	MW-6	0.0229	0.001	0.01	No	8	0.008833	0.01068	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	0.03728	0.007854	0.01	No	8	0.02257	0.01388	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-9	0.01	0.0011	0.01	No	8	0.005667	0.004635	50	None	No	0.004	NP (normality)
Barium, Total (mg/L)	MW-10	0.03121	0.02449	2	No	8	0.02785	0.003172	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-11	0.04196	0.02531	2	No	8	0.03364	0.007852	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	0.06249	0.08556	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	0.1953	0.1617	2	No	8	0.1785	0.01582	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	0.07672	0.05275	2	No	8	0.06474	0.01131	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-15	0.06416	0.05057	2	No	8	0.05736	0.006412	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-16	0.1899	0.1051	2	No	8	0.1475	0.03997	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-17	0.158	0.054	2	No	8	0.08845	0.04322	0	None	No	0.004	NP (normality)
Barium, Total (mg/L)	MW-18	0.2572	0.1258	2	No	8	0.1915	0.06195	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-19	0.06894	0.05349	2	No	8	0.06121	0.007289	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-20	0.1537	0.1051	2	No	8	0.1294	0.0229	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-21	0.1217	0.08981	2	No	8	0.1058	0.01504	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-22	0.1542	0.134	2	No	8	0.1441	0.009523	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-23	0.07019	0.04539	2	No	8	0.05779	0.0117	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-24	0.1549	0.05511	2	No	7	0.105	0.042	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-25	0.05498	0.03873	2	No	7	0.04686	0.006842	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-26	0.1429	0.08713	2	No	7	0.115	0.02347	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-3	0.1239	0.09147	2	No	8	0.1077	0.0153	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	0.1052	0.08354	2	No	8	0.09438	0.01023	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-6	0.099	0.041	2	No	8	0.0661	0.02497	0	None	No	0.004	NP (normality)
Barium, Total (mg/L)	MW-7	0.09297	0.07641	2	No	8	0.08469	0.007812	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-14B	0.179	0.069	2	No	4	0.1273	0.05638	0	None	No	0.0625	NP (selected)
Barium, Total (mg/L)	MW-8	0.1116	0.07312	2	No	8	0.09236	0.01816	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-9	0.08372	0.05485	2	No	8	0.06929	0.01362	0	None	No	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-4	0.005581	0.003977	0.004	No	8	0.004779	0.0007568	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/6/2023, 2:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
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-14A	0.00715	0.001	0.005	No	8	0.001769	0.002174	87.5	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	0.001146	0.0003501	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	0.001164	0.0003549	62.5	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-16	0.00123	0.001	0.1	No	8	0.001029	0.00008132	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-18	0.00107	0.001	0.1	No	8	0.001009	0.00002475	75	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-19	0.0011	0.001	0.1	No	8	0.001013	0.00003536	75	None	No	0.004	NP (normality)
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	0.0013	0.001	0.1	No	8	0.001038	0.0001061	62.5	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-24	0.002	0.001	0.1	No	7	0.001143	0.000378	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	MW-25	0.001	0.001	0.1	No	7	0.001	1.8e-11	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	MW-26	0.001	0.001	0.1	No	7	0.001	2.3e-11	28.57	None	No	0.008	NP (normality)
Chromium (mg/L)	MW-3	0.00111	0.001	0.1	No	8	0.001014	0.00003889	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-10	0.006113	0.003014	0.013	No	8	0.004564	0.001462	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-12A	0.013	0.001	0.013	No	8	0.003213	0.004174	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-13A	0.01246	0.01011	0.013	No	8	0.01129	0.00111	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**	**0.08221**	**0.03199**	**0.013**	**Yes**	**8**	**0.05638**	**0.02711**	**0**	**None**	**x^(1/3)**	**0.01**	**Param.**
Cobalt (mg/L)	MW-15	0.004	0.001	0.013	No	8	0.001465	0.001055	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-16	0.01947	0.009352	0.013	No	8	0.01441	0.004774	0	None	No	0.01	Param.
Cobalt (mg/L)	**MW-17**	**0.03**	**0.015**	**0.013**	**Yes**	**8**	**0.01896**	**0.004998**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Cobalt (mg/L)	MW-18	0.00407	0.001	0.013	No	8	0.001509	0.001092	62.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-19	0.006	0.0005	0.013	No	8	0.002566	0.002326	12.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-20	0.006	0.001	0.013	No	8	0.003355	0.002194	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-21	0.005	0.001	0.013	No	8	0.00308	0.001838	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-22	0.00311	0.001102	0.013	No	8	0.002106	0.0009473	12.5	None	No	0.01	Param.
Cobalt (mg/L)	MW-23	0.01429	0.002431	0.013	No	8	0.009275	0.005532	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	MW-24	0.004208	0.0006489	0.013	No	7	0.002429	0.001618	42.86	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	MW-25	0.01868	0.0001726	0.013	No	7	0.007929	0.008729	14.29	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**MW-3**	**0.02972**	**0.0206**	**0.013**	**Yes**	**8**	**0.02516**	**0.004301**	**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	0.0275	0.012	0.013	No	8	0.01523	0.005039	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-6	0.01013	0.000853	0.013	No	8	0.005255	0.005584	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	MW-7	0.00317	0.001	0.013	No	8	0.001271	0.0007672	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	0.7118	0.1313	5	No	8	0.4216	0.2738	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-11	1.553	0.2587	5	No	8	0.906	0.6107	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	1.1	0.09618	5	No	8	0.5679	0.542	0	None	sqrt(x)	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	1.454	0.5994	5	No	8	1.027	0.403	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	1.121	0.3205	5	No	8	0.7205	0.3774	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-14B	2.255	0.2481	5	No	4	1.252	0.4421	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-15	1.023	0.4307	5	No	8	0.7266	0.2792	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-16	1.596	0.3261	5	No	8	0.9611	0.5991	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-17	1.111	0.05693	5	No	8	0.584	0.4973	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-18	0.918	0.228	5	No	8	0.5468	0.294	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-19	0.7508	0.0718	5	No	8	0.4113	0.3203	0	None	No	0.01	Param.

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Combined Radium 226 + 228 (pCi/L)	MW-20	1.318	0.3338	5	No	8	0.8259	0.4643	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-21	0.7211	0.2897	5	No	8	0.4814	0.2834	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-22	1.111	0.3145	5	No	8	0.7128	0.3758	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23	1.737	0.4084	5	No	8	1.073	0.6266	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24	1.383	0.7809	5	No	8	1.082	0.2842	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25	1.702	0.3122	5	No	8	1.007	0.6557	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26	1.017	0.2991	5	No	8	0.6581	0.3387	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-3	1.014	0.3196	5	No	8	0.6668	0.3276	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	3.377	0.3011	5	No	8	2.136	3.723	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	0.6425	0.2577	5	No	8	0.4501	0.1815	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-7	10.9	0.447	5	No	8	2.082	3.579	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-8	0.9343	0.2225	5	No	8	0.5784	0.3358	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-9	1.821	0.7082	5	No	8	1.265	0.5251	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-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-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	0.136	0.125	4	No	8	0.1264	0.003889	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-16	0.199	0.125	4	No	8	0.1343	0.02616	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-17	1.817	0.626	4	No	8	1.222	0.562	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-18	0.146	0.125	4	No	8	0.132	0.008928	50	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-20	0.182	0.125	4	No	8	0.1439	0.02234	50	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-21	1.25	0.127	4	No	8	0.8386	0.5679	62.5	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-22	0.246	0.125	4	No	8	0.1401	0.04278	87.5	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-23	2.364	1.386	4	No	8	1.875	0.4609	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-24	1.251	0.3642	4	No	7	0.8074	0.3732	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-25	0.9352	0.4145	4	No	7	0.6749	0.2192	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-26	0.1666	0.1219	4	No	7	0.1461	0.0192	28.57	Kaplan-Meier	No	0.01	Param.
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	1.78	1.17	4	No	8	1.475	0.2878	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-6	0.324	0.125	4	No	8	0.1639	0.07564	75	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-7	2.506	1.414	4	No	8	1.96	0.5156	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-8	0.3197	0.1948	4	No	8	0.2573	0.05891	12.5	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-9	0.158	0.125	4	No	8	0.1328	0.01213	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-4	0.001811	0.001059	0.015	No	8	0.00131	0.0005669	25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	MW-10	0.01766	0.01291	0.04	No	8	0.01459	0.002443	25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	**MW-11**	**0.06325**	**0.04335**	**0.04**	**Yes**	**8**	**0.0533**	**0.009392**	**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	0.007863	0.006051	0.04	No	8	0.007441	0.0009281	37.5	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	MW-13	0.008	0.008	0.04	No	8	0.008	0	100	Kaplan-Meier	No	0.004	NP (NDs)
Lithium (mg/L)	MW-13A	0.025	0.0062	0.04	No	8	0.009289	0.006442	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-14A	0.0196	0.005895	0.04	No	8	0.01275	0.006463	0	None	No	0.01	Param.
Lithium (mg/L)	MW-14B	0.2654	0.008781	0.04	No	4	0.1371	0.05651	0	None	No	0.01	Param.
Lithium (mg/L)	MW-15	0.008	0.00756	0.04	No	8	0.007945	0.0001556	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-16	0.04932	0.03105	0.04	No	8	0.04019	0.008617	0	None	No	0.01	Param.
Lithium (mg/L)	**MW-17**	**0.113**	**0.06744**	**0.04**	**Yes**	**8**	**0.08935**	**0.02735**	**0**	**None**	**x^3**	**0.01**	**Param.**
Lithium (mg/L)	MW-19	0.01221	0.008435	0.04	No	8	0.01032	0.00178	12.5	None	No	0.01	Param.
Lithium (mg/L)	**MW-23**	**0.174**	**0.135**	**0.04**	**Yes**	**8**	**0.1581**	**0.01662**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Lithium (mg/L)	**MW-24**	**0.2208**	**0.05366**	**0.04**	**Yes**	**6**	**0.1372**	**0.06083**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**MW-25**	**0.1763**	**0.1073**	**0.04**	**Yes**	**6**	**0.1418**	**0.02512**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	MW-4	0.006922	0.004803	0.04	No	8	0.005863	0.0009993	12.5	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/6/2023, 2:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	**MW-5A**	**0.07235**	**0.05068**	**0.04**	**Yes**	**8**	**0.06151**	**0.01022**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	MW-6	0.00832	0.00603	0.04	No	8	0.007561	0.0009183	62.5	None	No	0.004	NP (normality)
Lithium (mg/L)	**MW-7**	**0.09089**	**0.06928**	**0.04**	**Yes**	**8**	**0.08009**	**0.01019**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	MW-11	0.1394	0.09412	0.1	No	8	0.1168	0.02135	0	None	No	0.01	Param.
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	0.06231	0.00519	0.1	No	4	0.03375	0.01258	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-16	0.00113	0.001	0.1	No	8	0.001016	0.00004596	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-17	0.1383	0.03494	0.1	No	8	0.08664	0.04878	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-23	0.1188	0.07411	0.1	No	8	0.09644	0.02106	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24	0.02105	0.002954	0.1	No	7	0.012	0.007616	14.29	None	No	0.01	Param.
Molybdenum (mg/L)	MW-25	0.1356	0.0414	0.1	No	7	0.08586	0.04531	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MW-26	0.006677	0.005037	0.1	No	7	0.005857	0.0006901	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-3	0.002	0.001	0.1	No	8	0.001174	0.0003607	75	None	No	0.004	NP (normality)
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	0.1396	0.0844	0.1	No	8	0.112	0.02604	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.00252	0.001	0.1	No	8	0.00144	0.0006281	62.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-7	0.02156	0.01011	0.1	No	8	0.01584	0.005399	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	0.00224	0.0008914	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	0.00206	0.001	0.05	No	8	0.001383	0.0005282	37.5	None	No	0.004	NP (normality)
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-26	0.02497	0.003602	0.05	No	7	0.01429	0.008995	0	None	No	0.01	Param.
Selenium (mg/L)	MW-4	0.005	0.001	0.05	No	8	0.00175	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-7	0.002	0.001	0.05	No	8	0.001125	0.0003536	87.5	None	No	0.004	NP (NDs)

Figure A. Time Series

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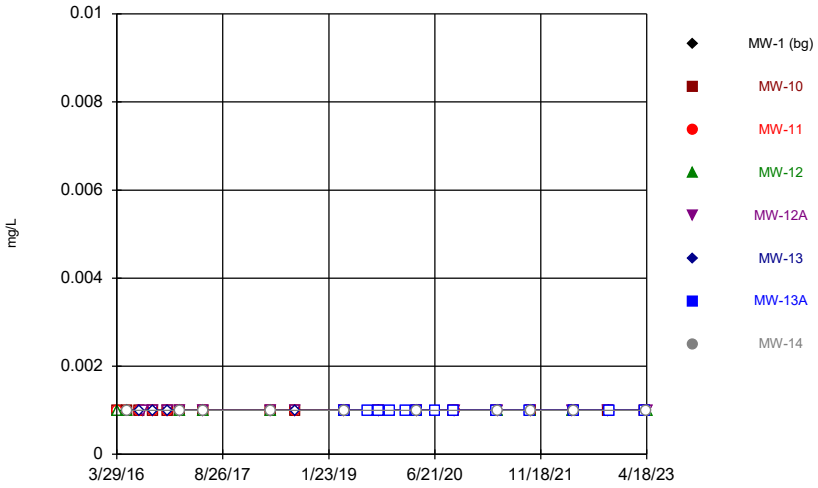
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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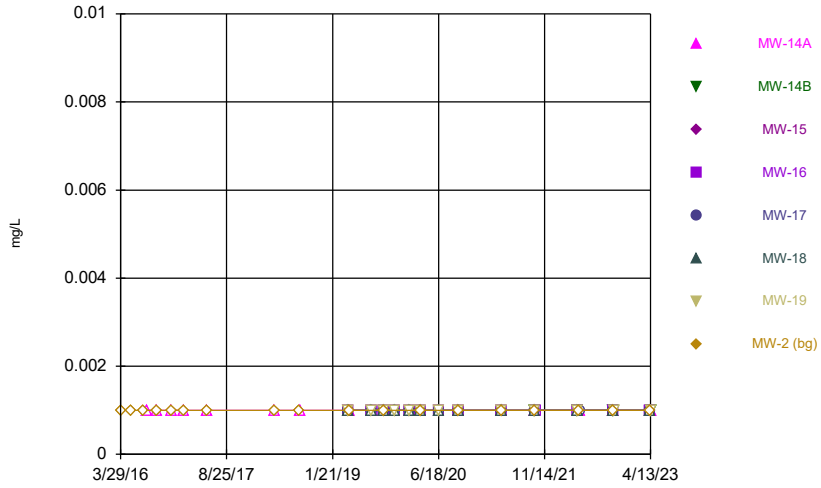
Time Series



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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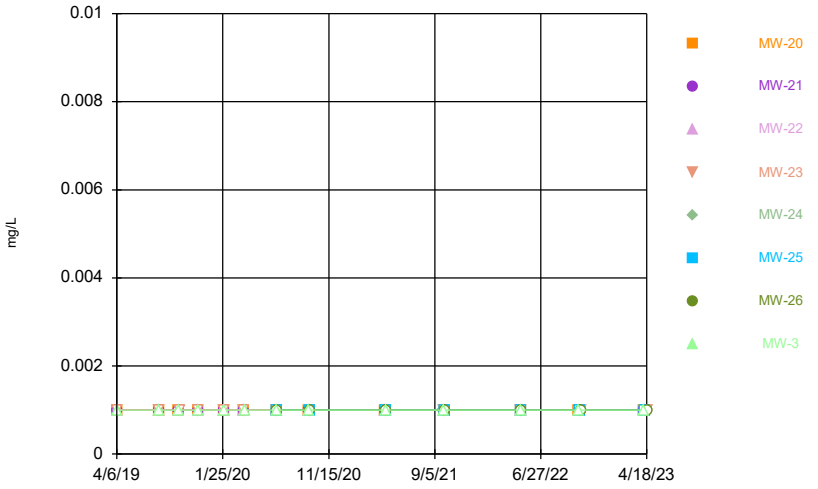
Time Series



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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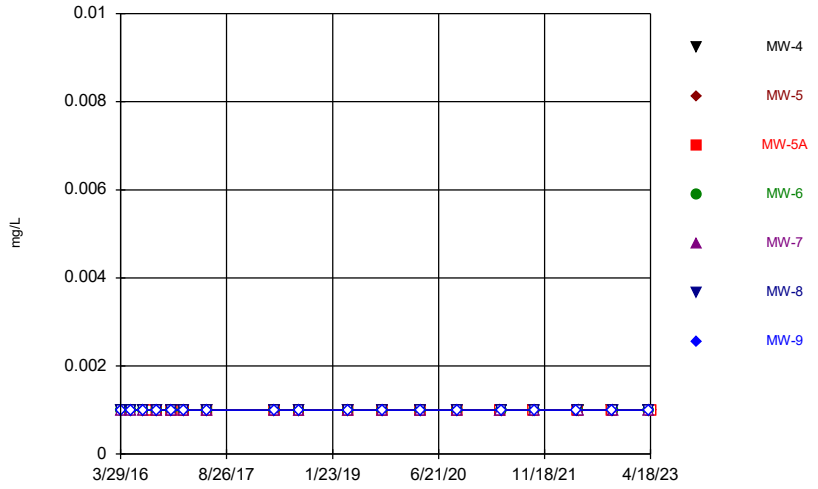
Time Series



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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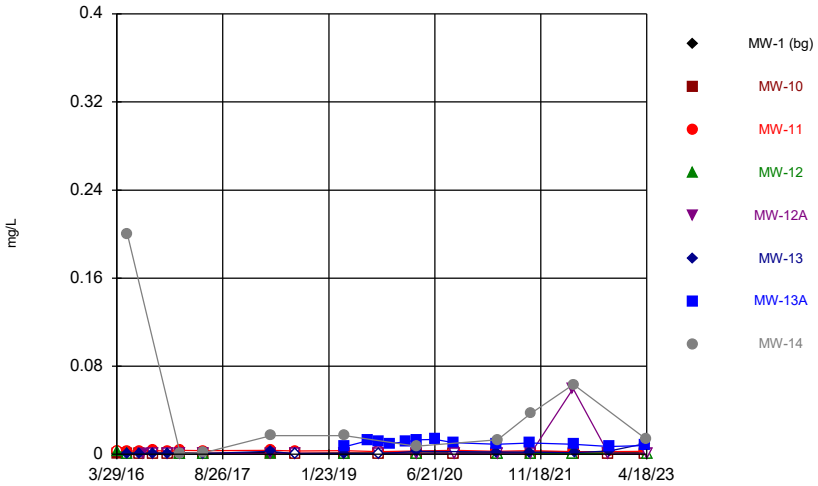

Constituent: Arsenic Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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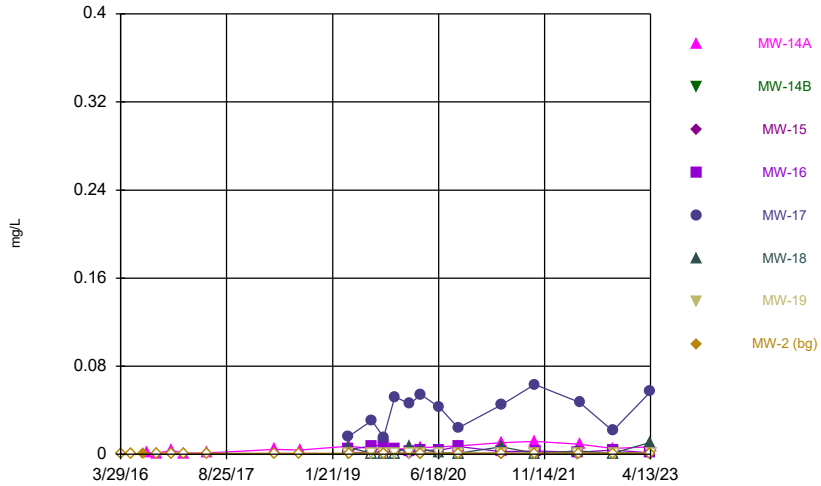

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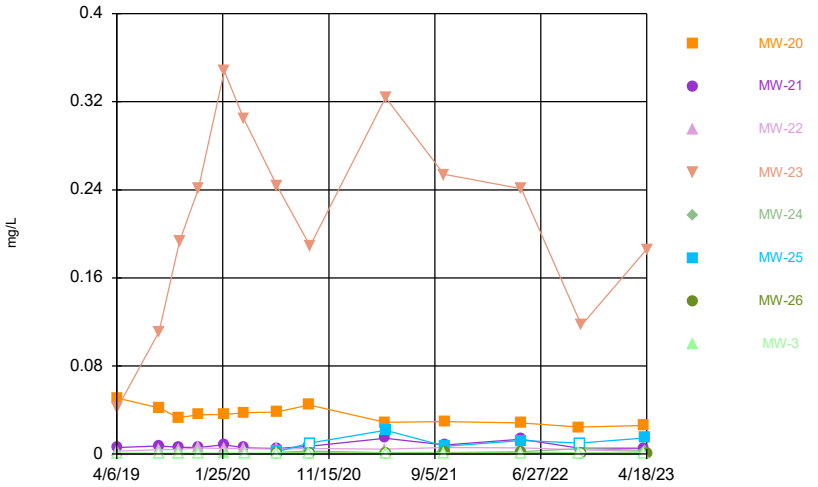

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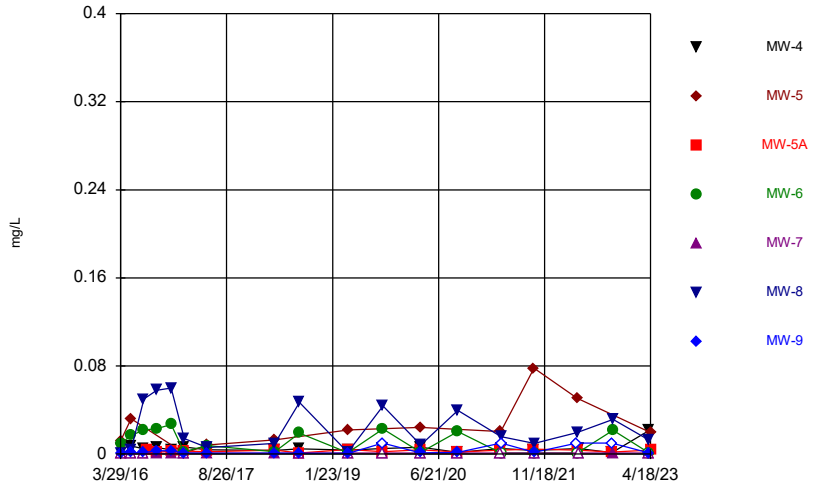
Time Series



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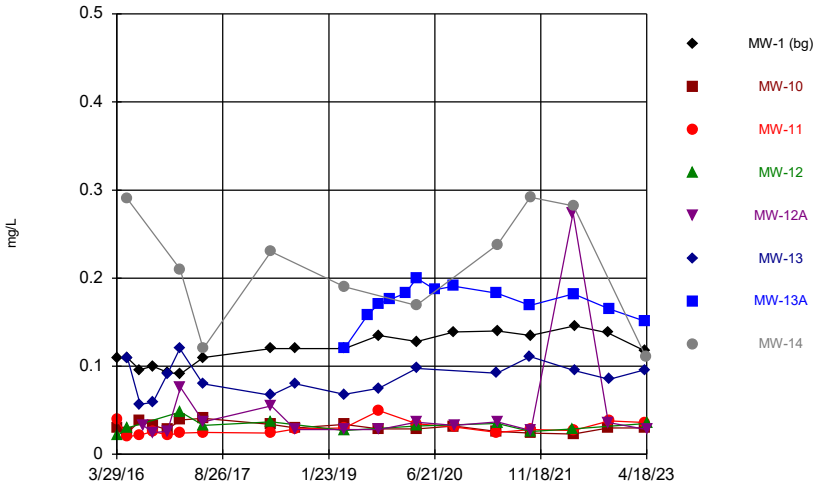
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



Constituent: Barium, Total Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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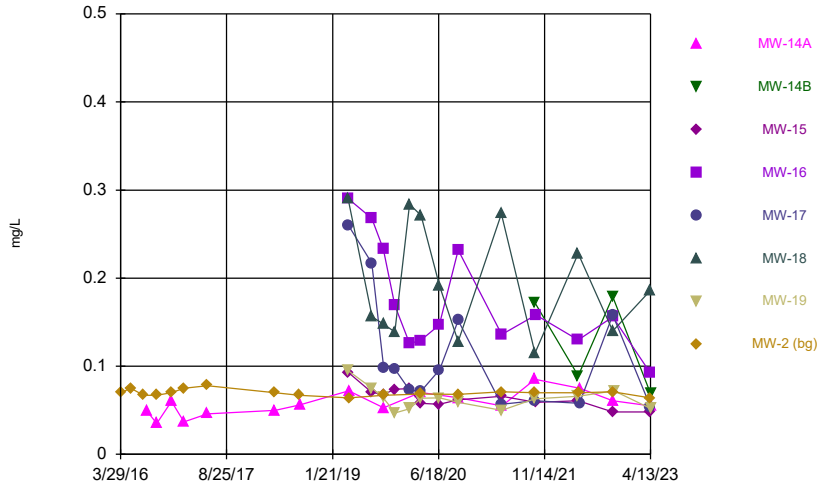
Time Series



Constituent: Barium, Total Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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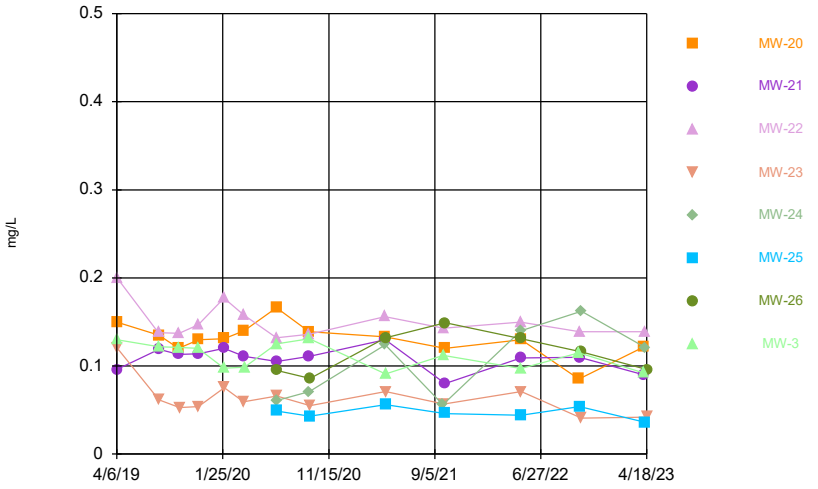
Time Series



Constituent: Barium, Total Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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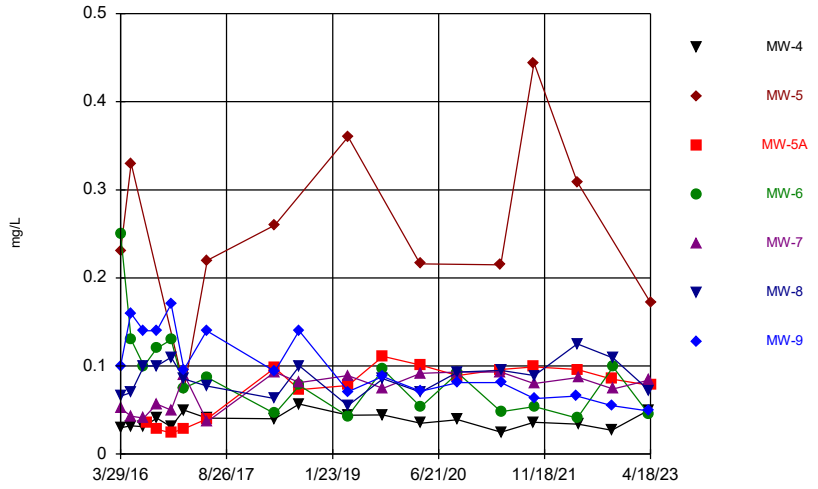
Time Series



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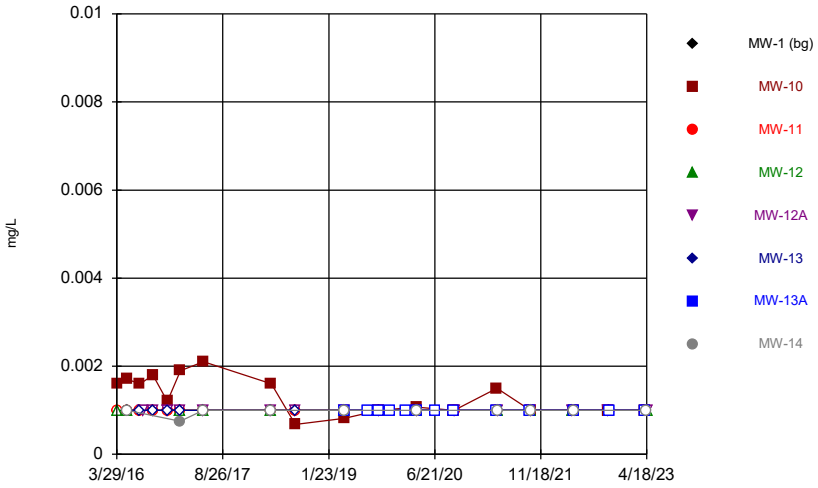

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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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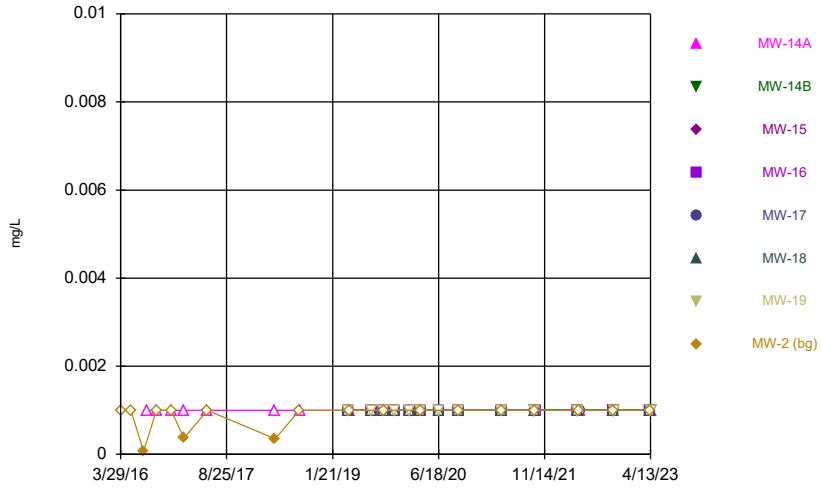
Time Series



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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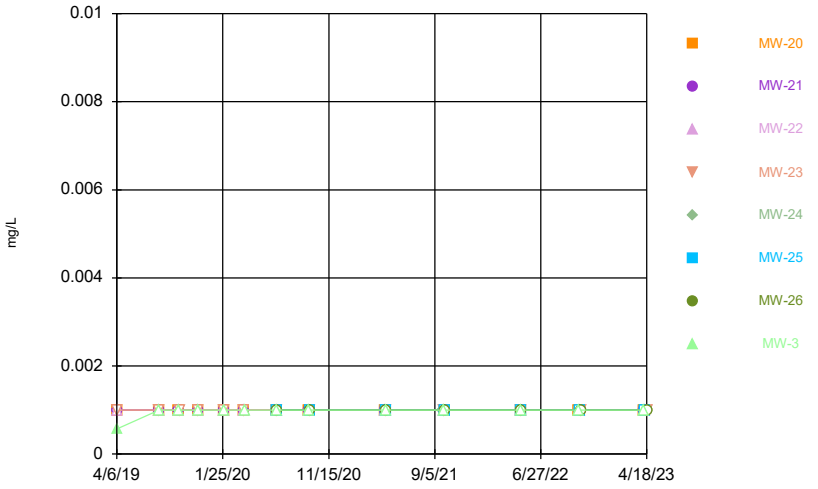

Constituent: Beryllium Analysis Run 6/6/2023 2:36 PM View: Descriptive
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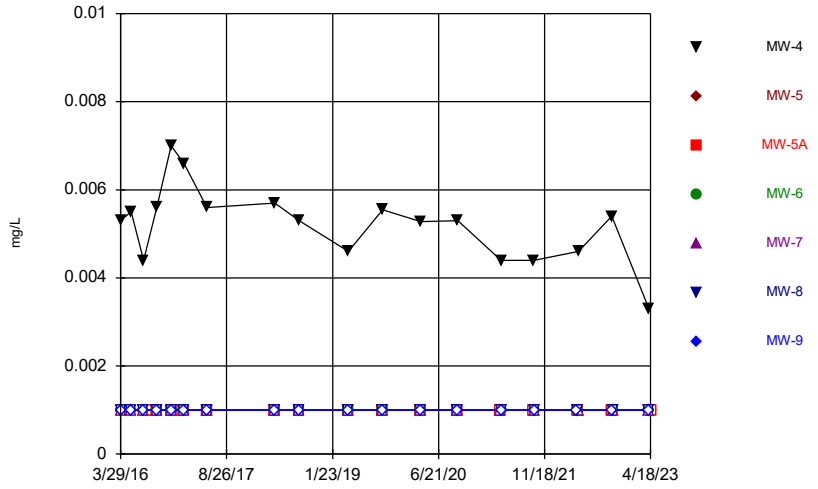

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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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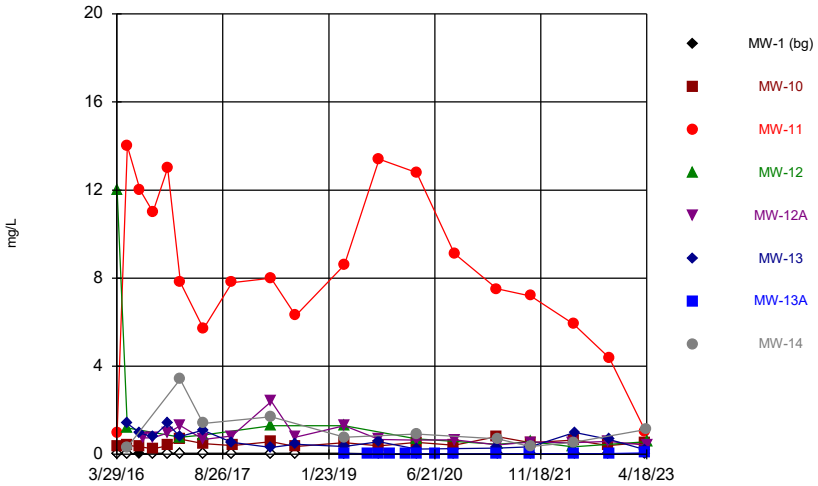

Constituent: Boron, total Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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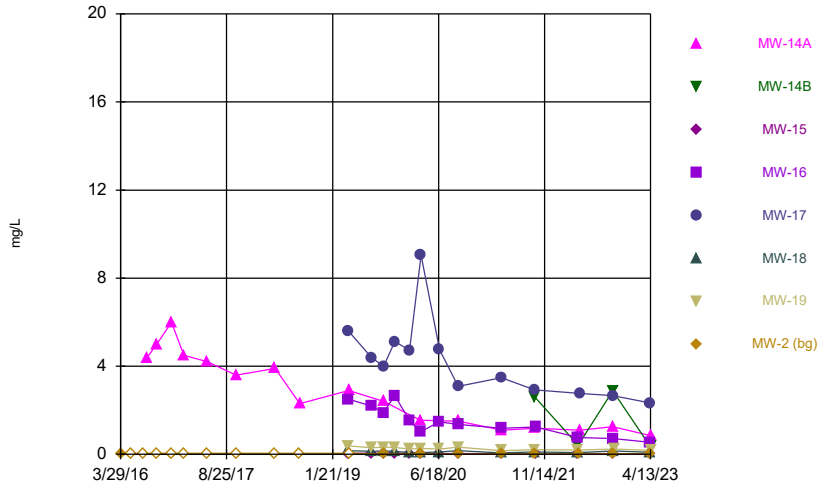
Hollow symbols indicate censored values.

Time Series



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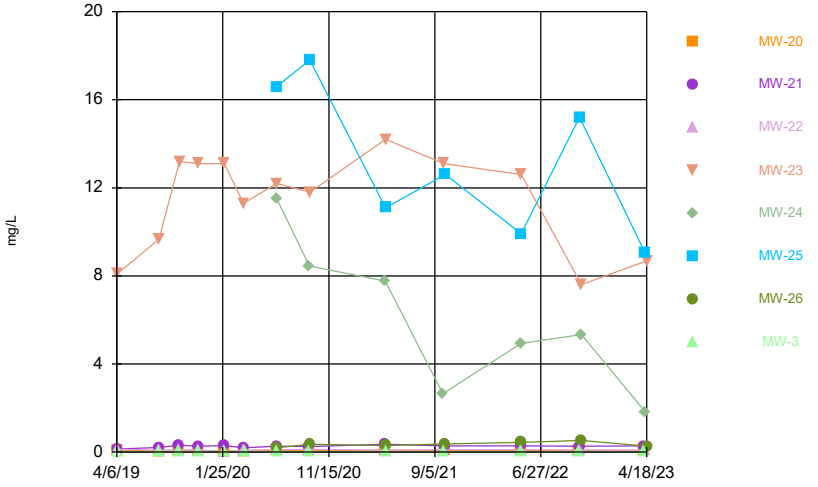

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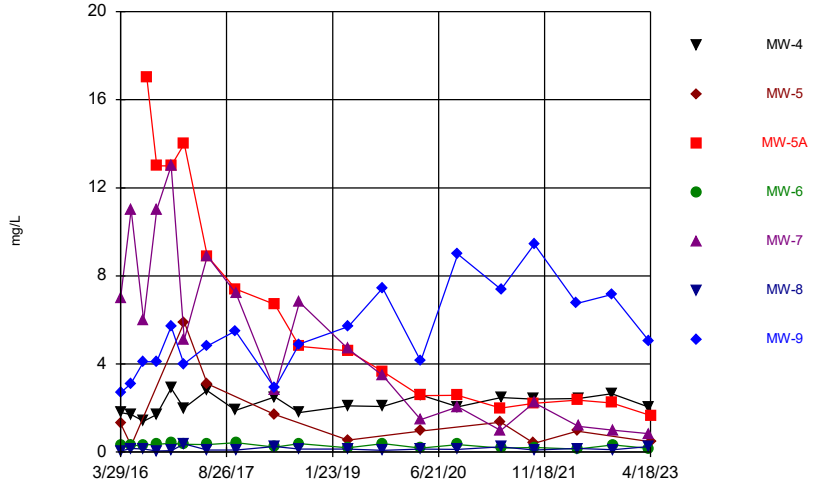
Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Time Series



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Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
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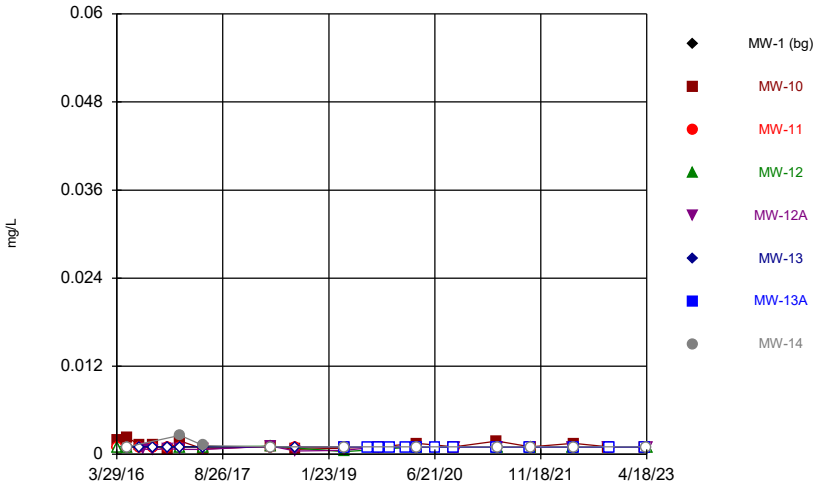
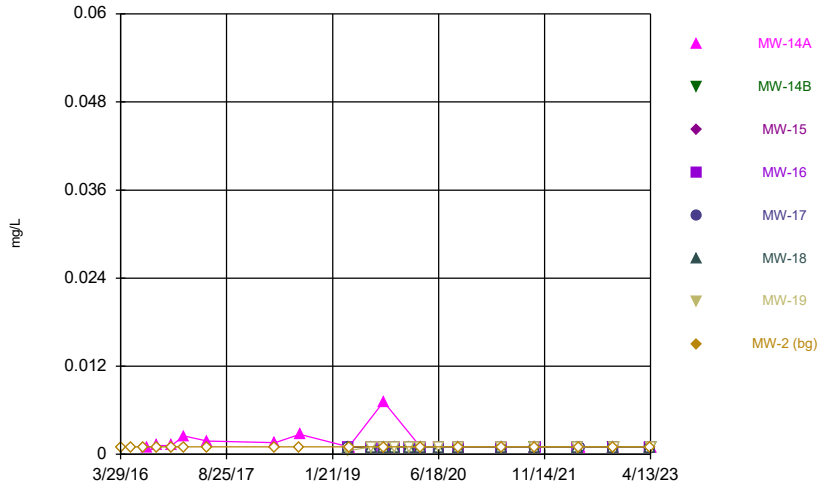


Constituent: Cadmium Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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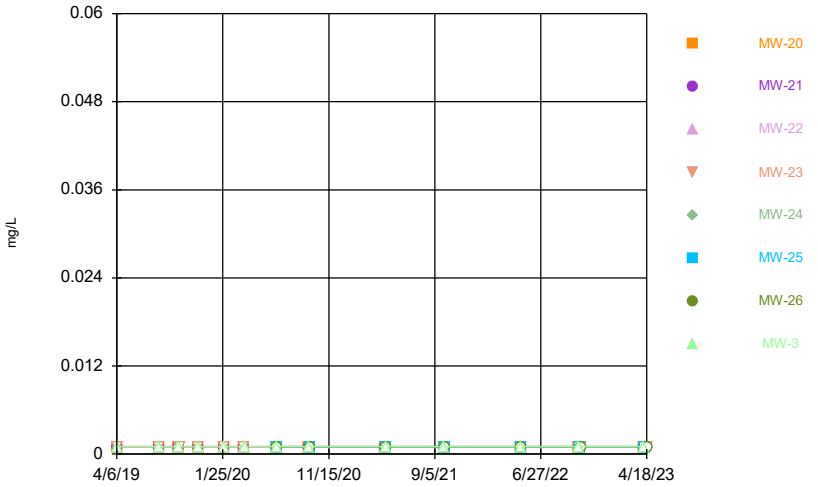
Hollow symbols indicate censored values.

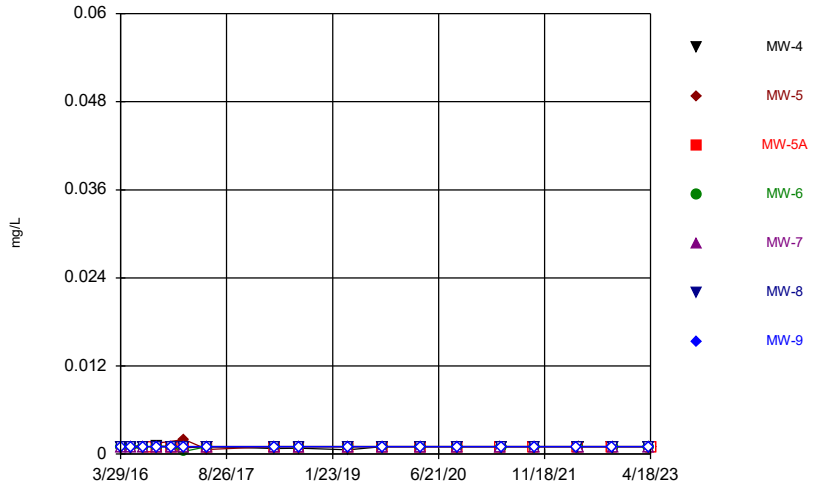
Time Series



Constituent: Cadmium Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

Time Series



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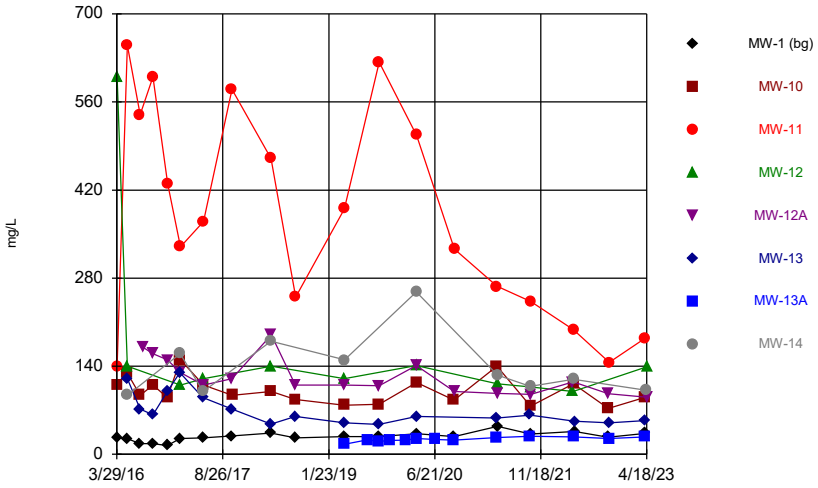
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



Constituent: Calcium, total Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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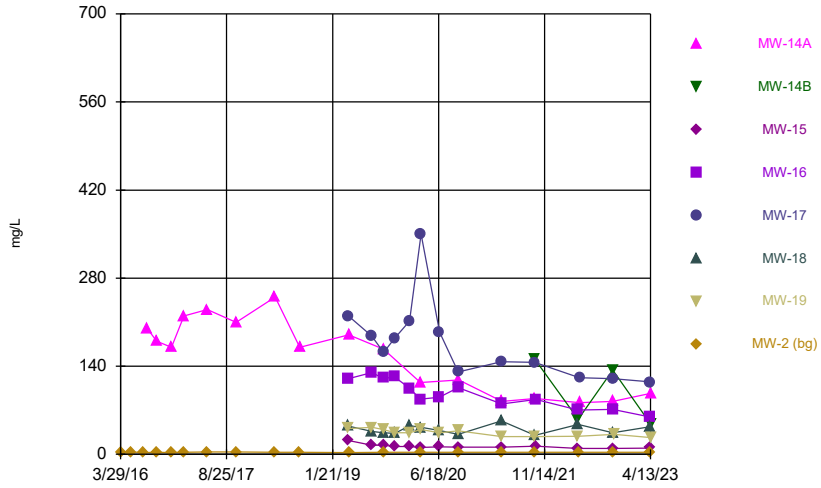
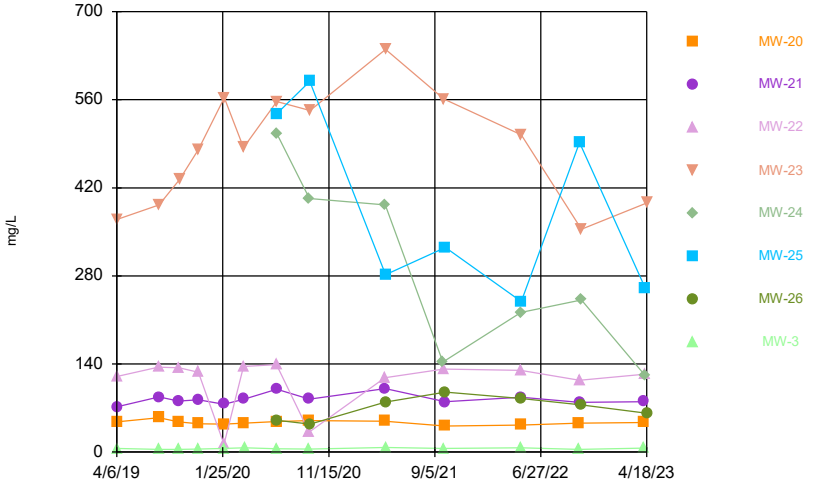
Time Series



Constituent: Calcium, total Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

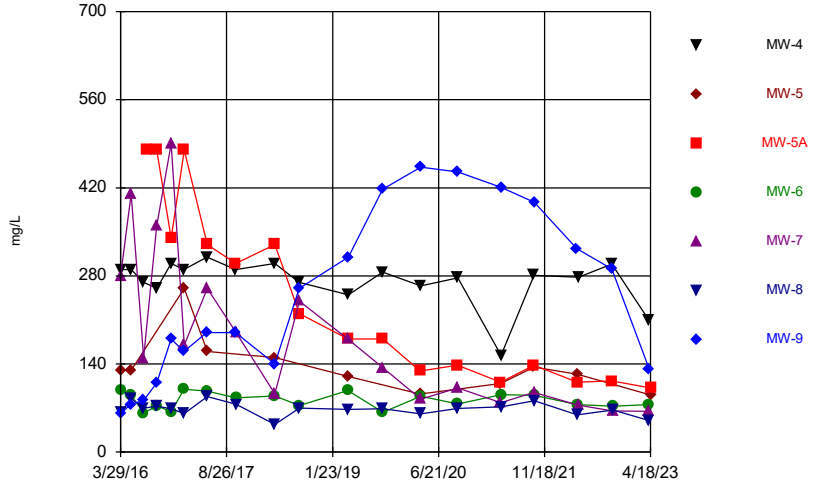
Time Series



Constituent: Calcium, total Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

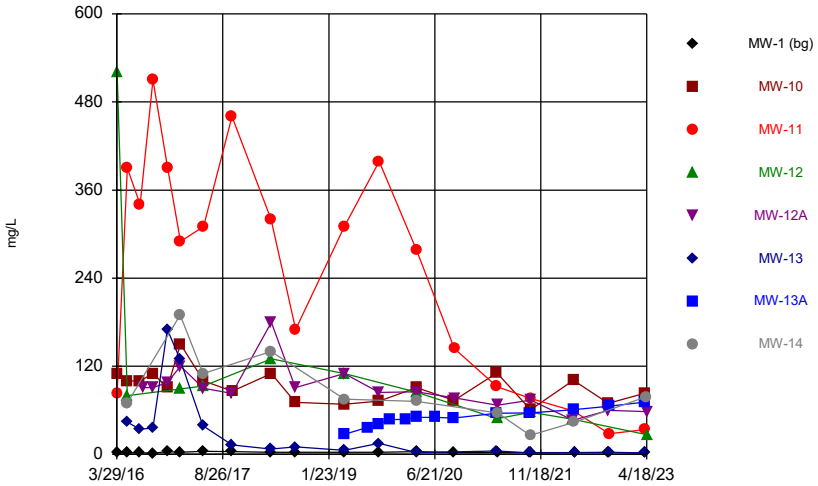
Time Series



Constituent: Calcium, total Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Time Series



Constituent: Chloride, Total Analysis Run 6/6/2023 2:36 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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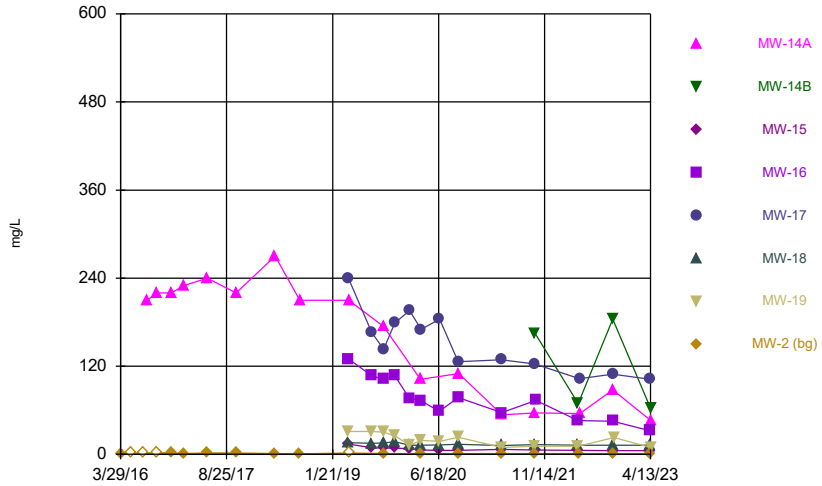
Hollow symbols indicate censored values.

Time Series



Constituent: Chloride, Total Analysis Run 6/6/2023 2:36 PM View: Descriptive
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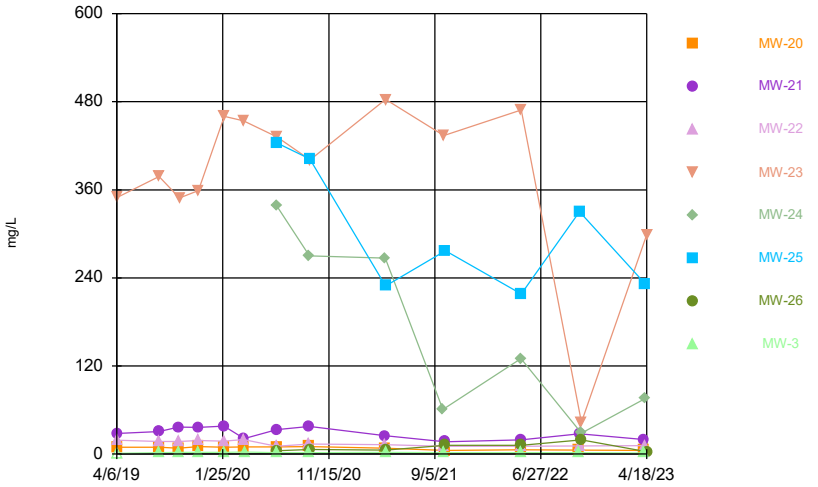
Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

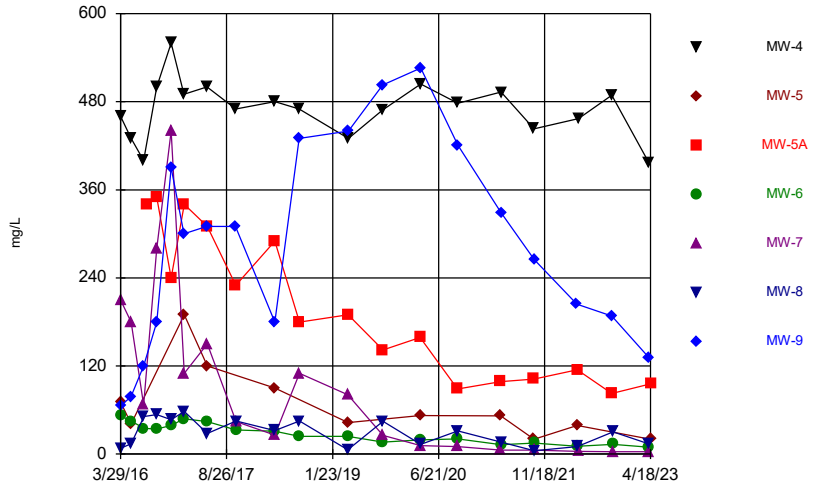
Time Series



Constituent: Chloride, Total Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Time Series



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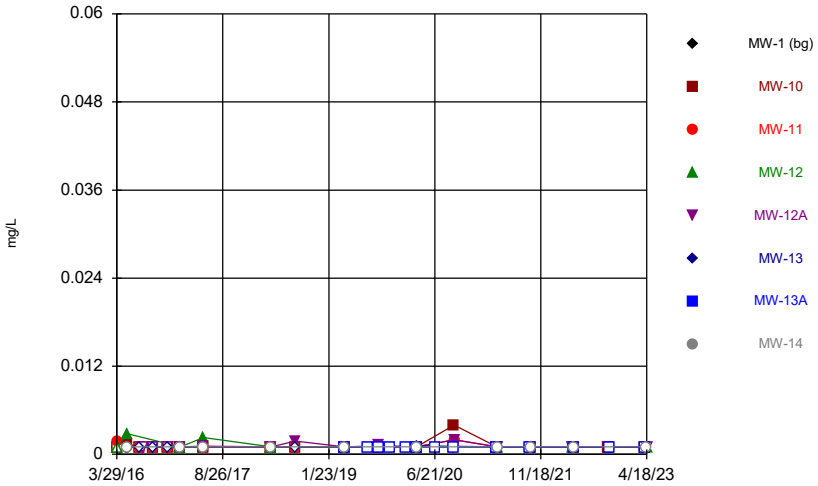
Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

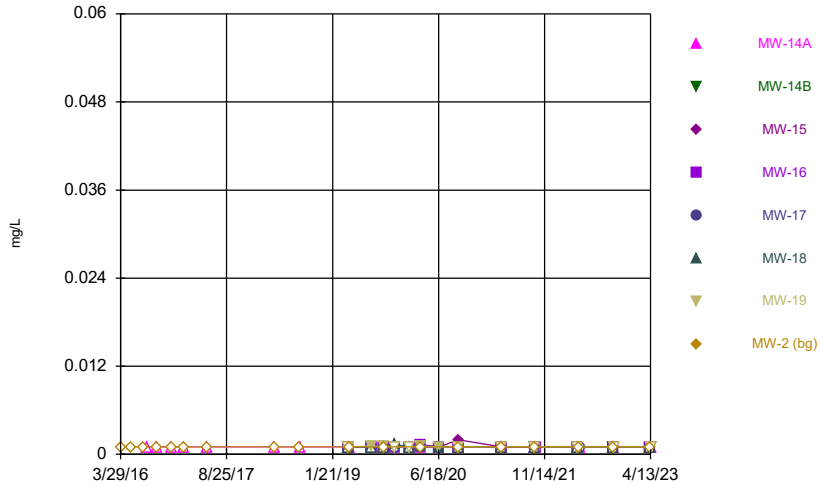
Time Series



Constituent: Chromium Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

Time Series



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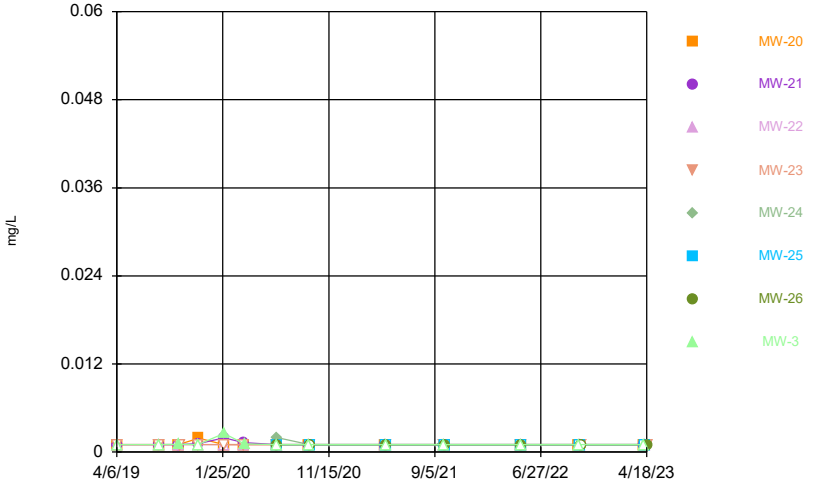
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 6/6/2023 2:37 PM View: Descriptive
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Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
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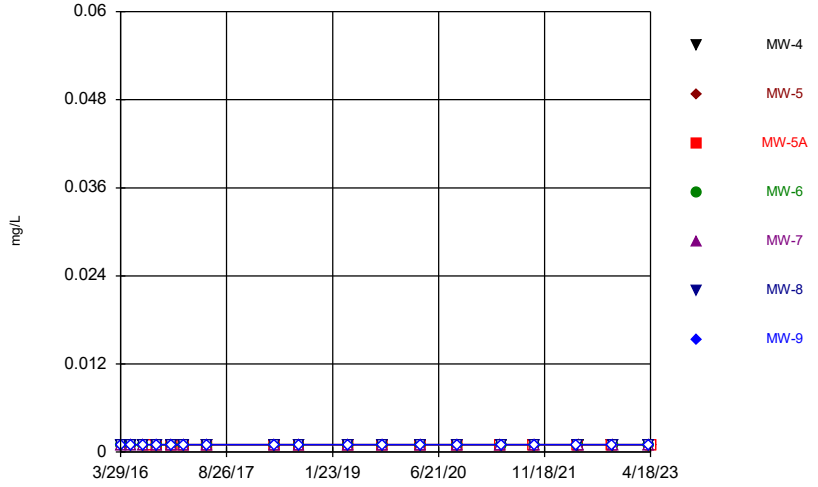
Time Series



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Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
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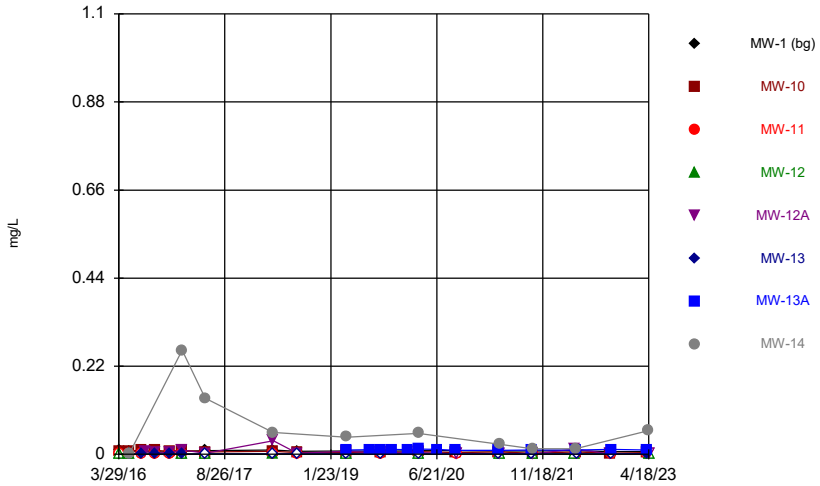
Time Series



Constituent: Cobalt Analysis Run 6/6/2023 2:37 PM View: Descriptive
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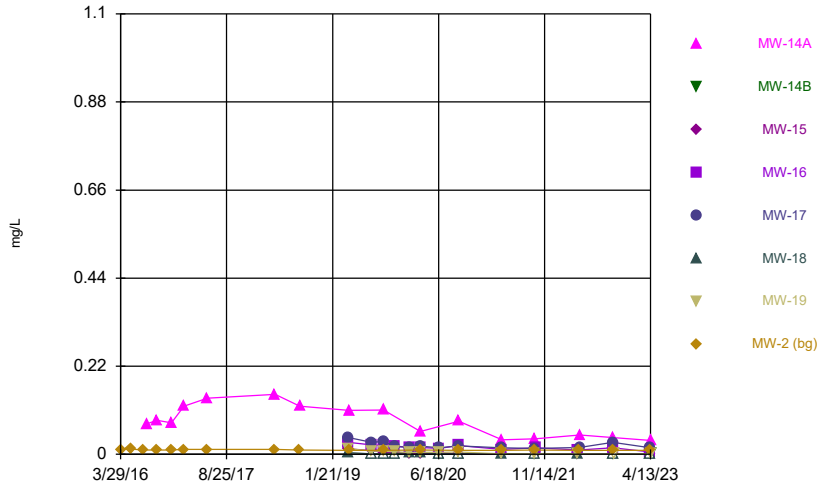
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 6/6/2023 2:37 PM View: Descriptive
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Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
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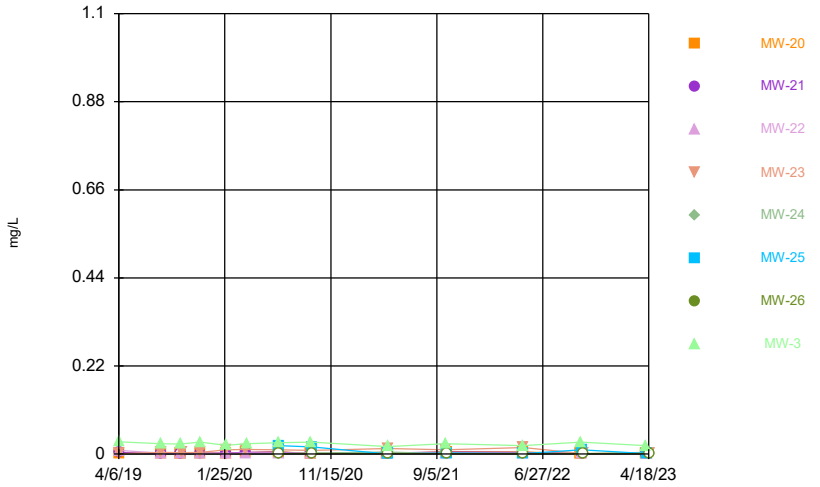
Time Series



Constituent: Cobalt Analysis Run 6/6/2023 2:37 PM View: Descriptive
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Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
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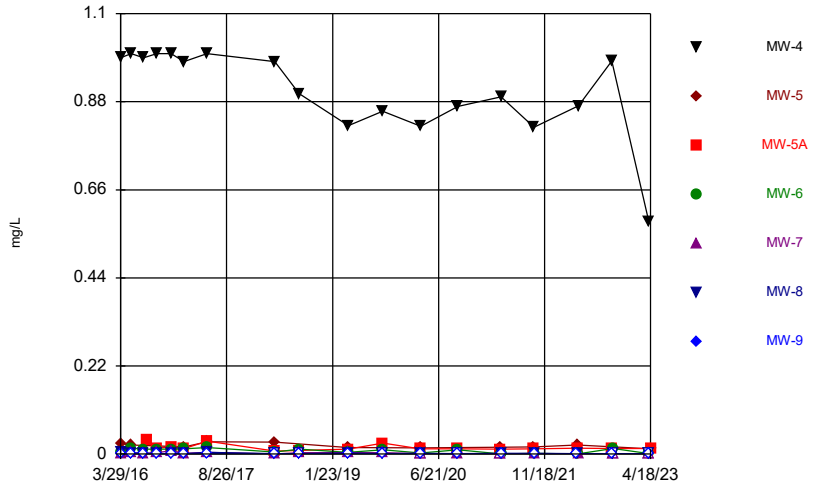
Time Series



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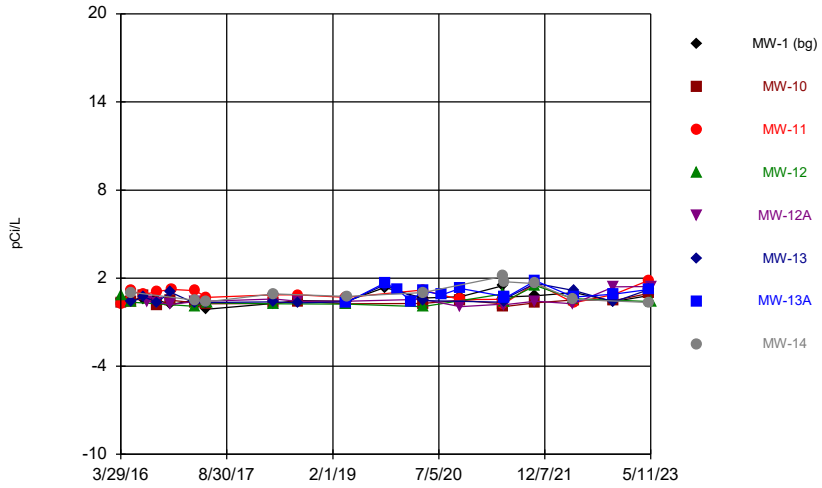
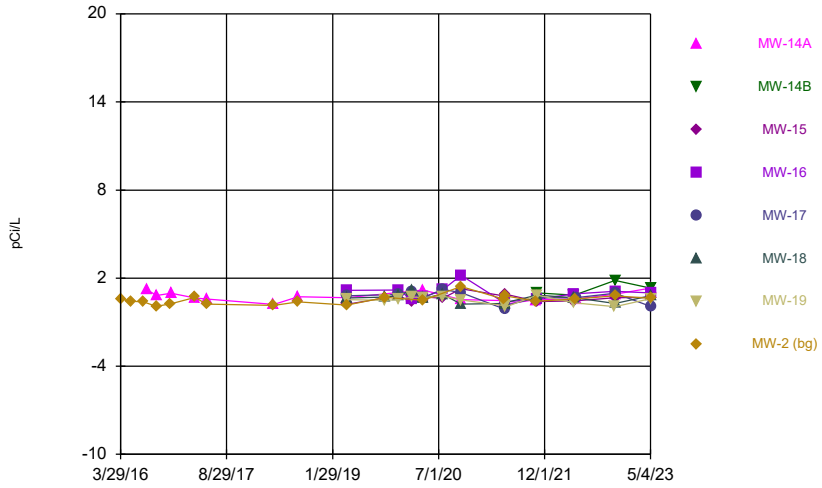
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

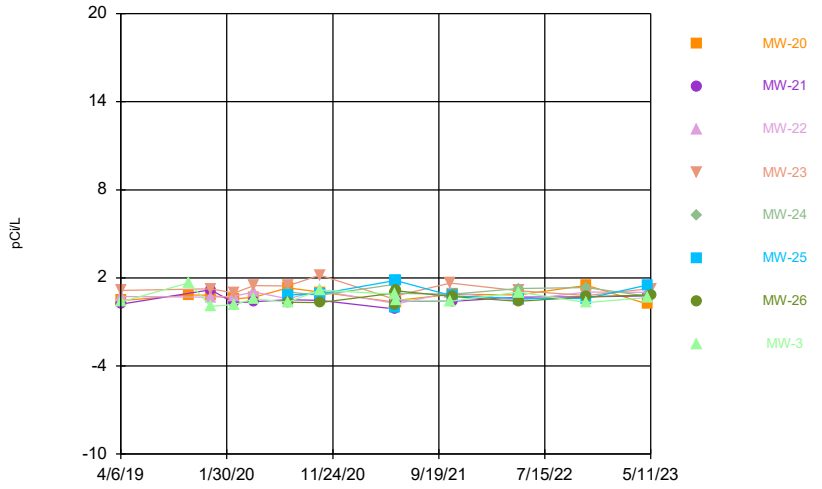
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 6/6/2023 2:37 PM View: Descriptive
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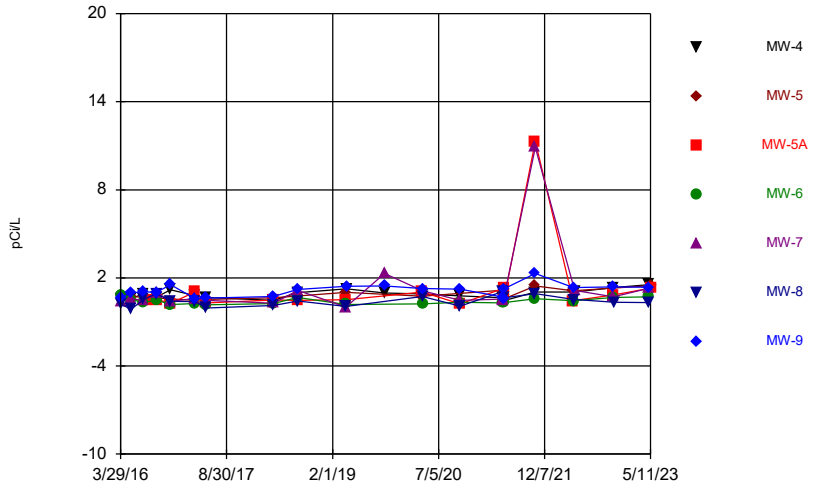
Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 6/6/2023 2:37 PM View: Descriptive
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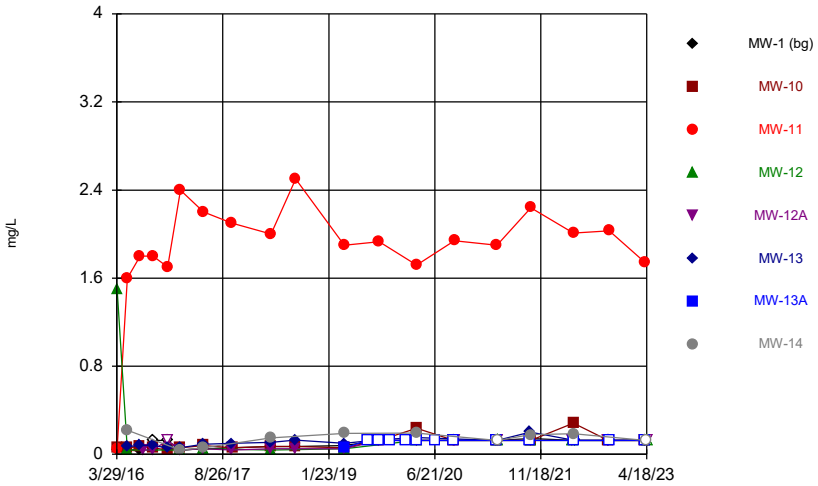
Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

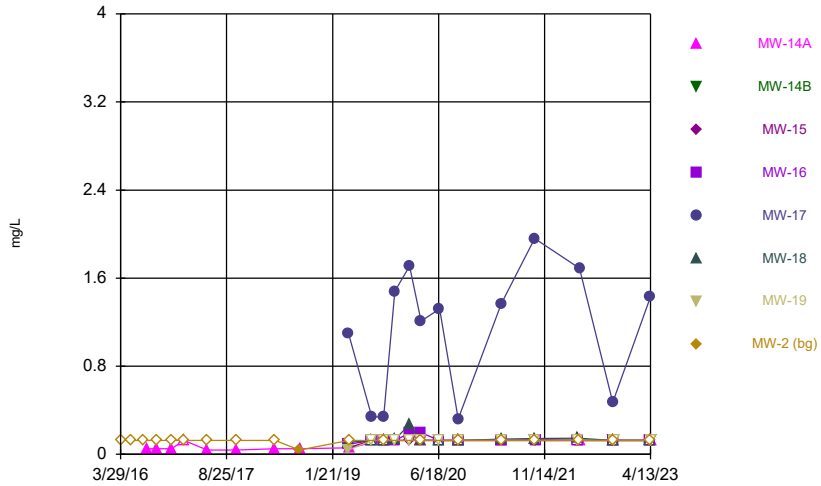
Time Series



Constituent: Fluoride, total Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride, total Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

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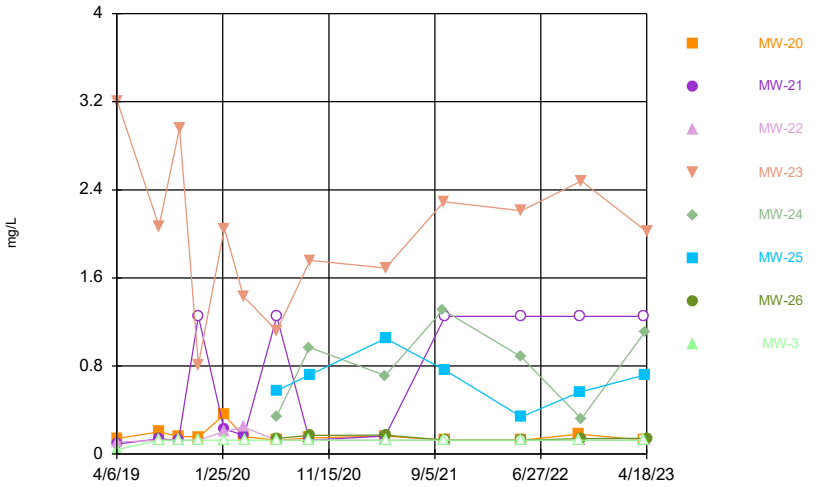

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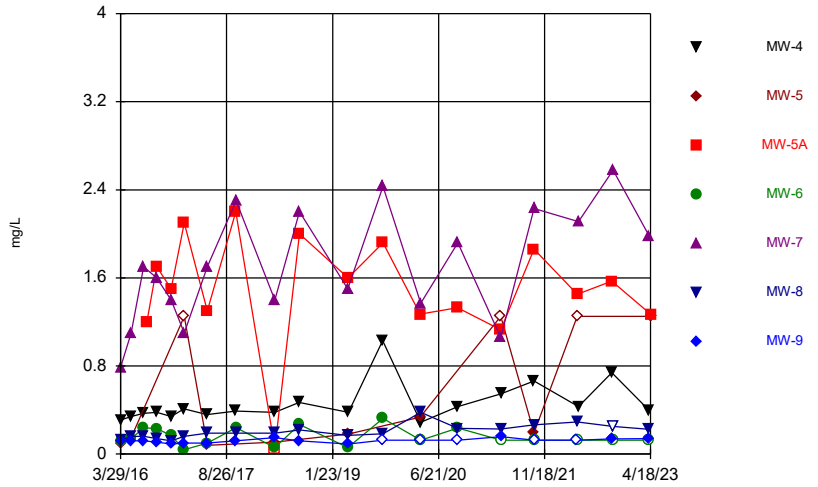

Constituent: Fluoride, total Analysis Run 6/6/2023 2:37 PM View: Descriptive
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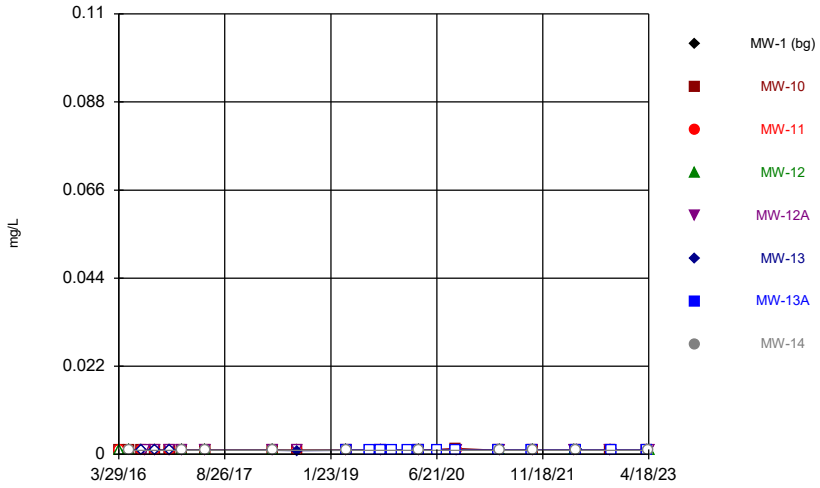
Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

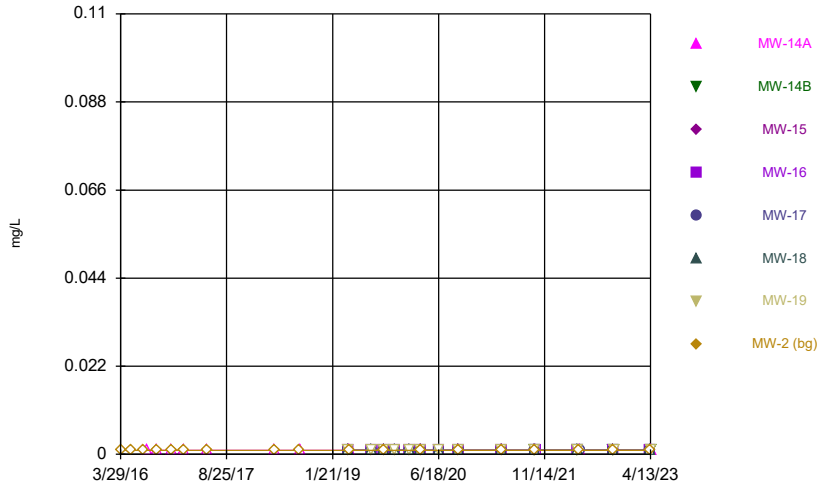
Time Series



Constituent: Lead Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
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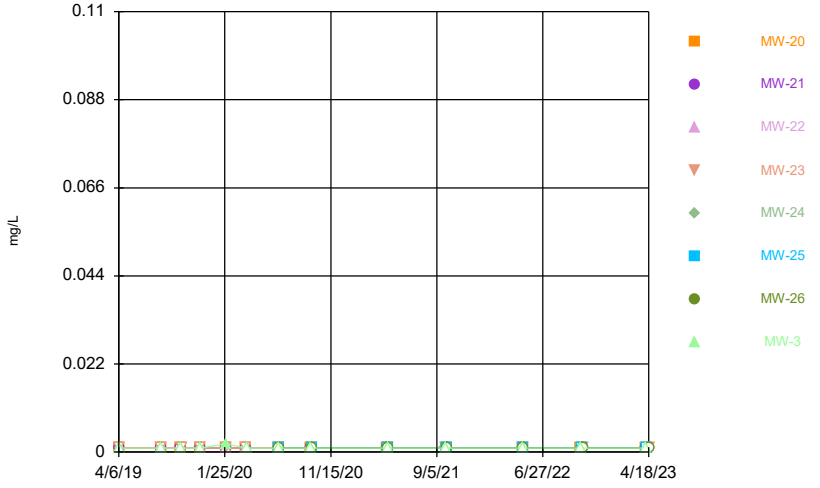
Time Series



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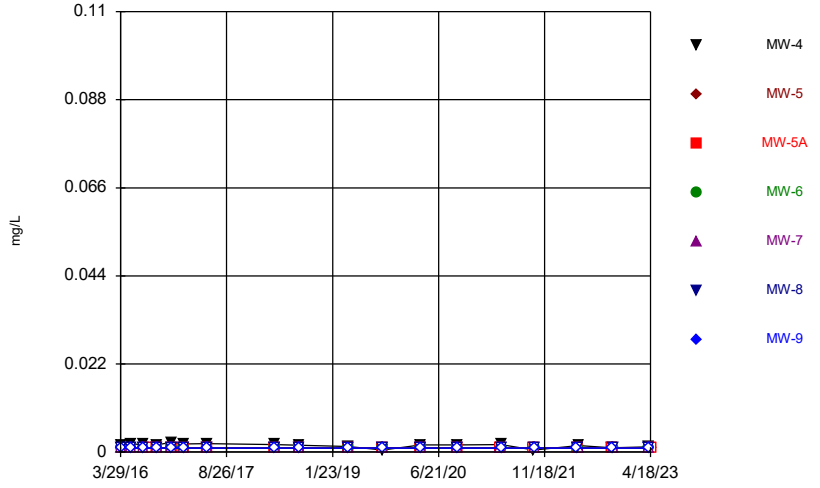
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

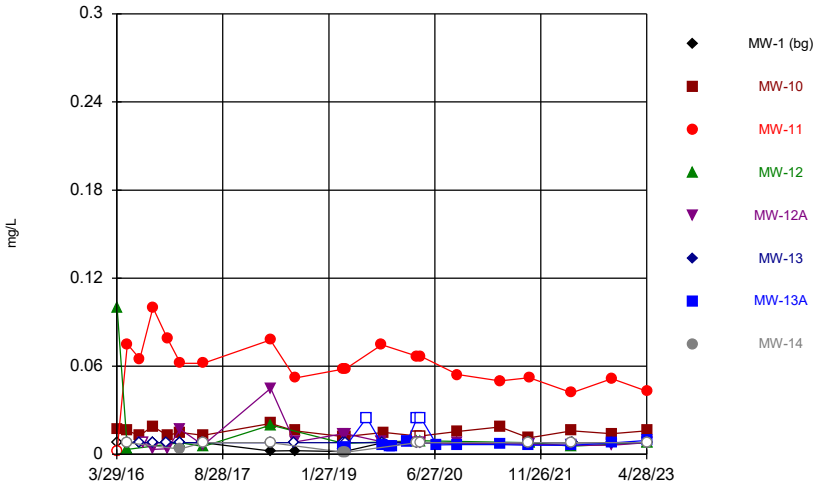
Time Series



Constituent: Lead Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

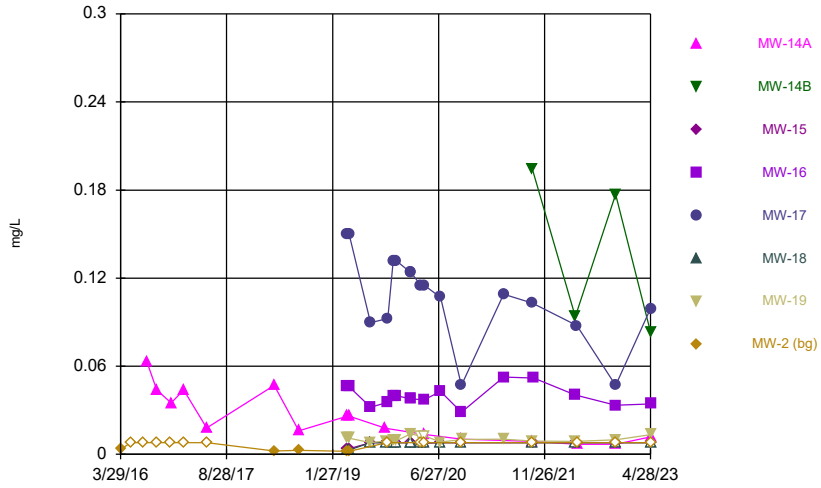
Time Series



Constituent: Lithium Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

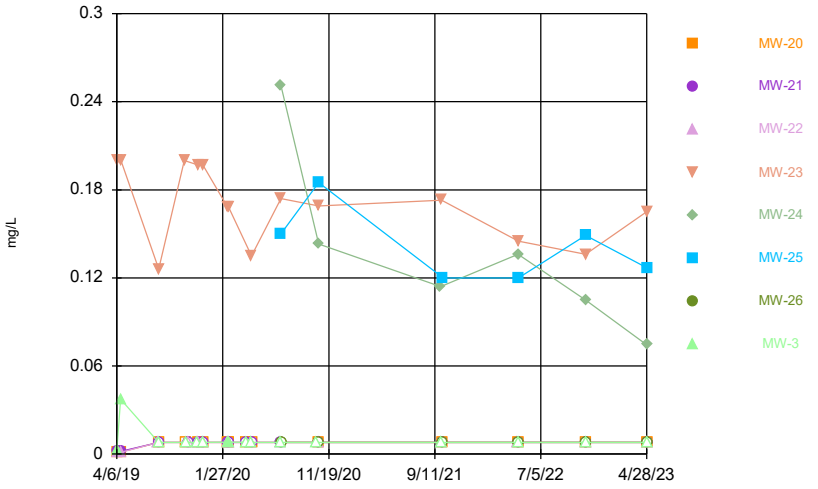
Time Series



Constituent: Lithium Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lithium Analysis Run 6/6/2023 2:37 PM View: Descriptive
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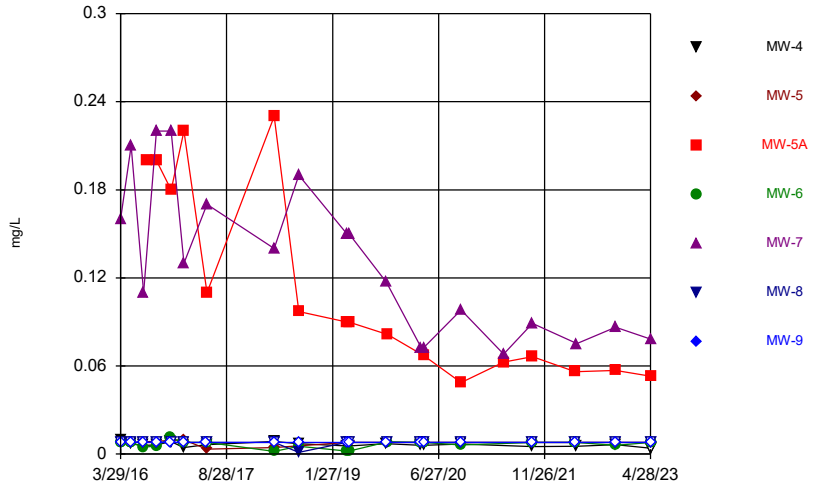
Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

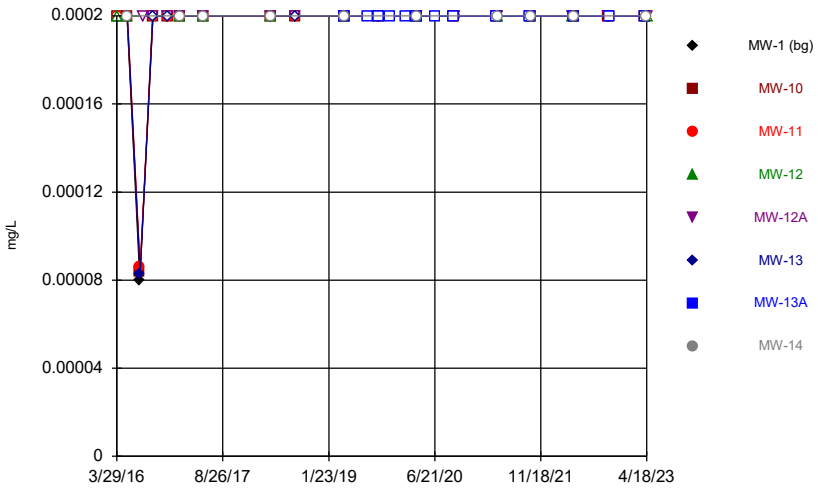
Time Series



Constituent: Lithium Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

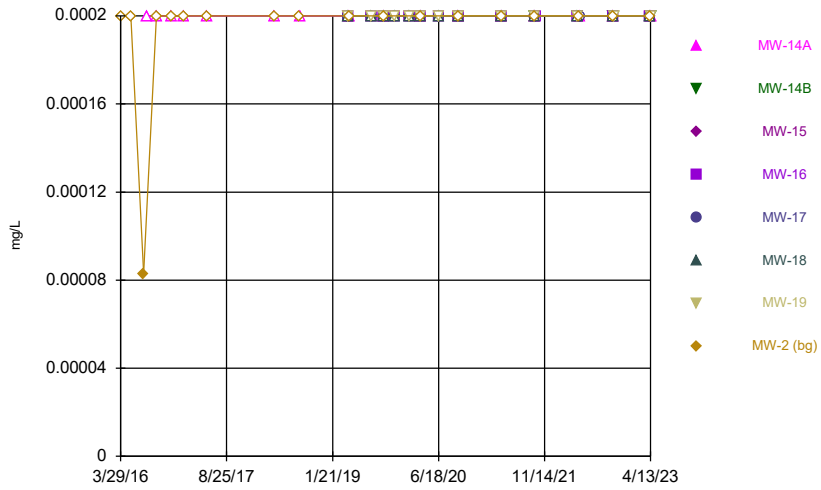
Time Series



Constituent: Mercury Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

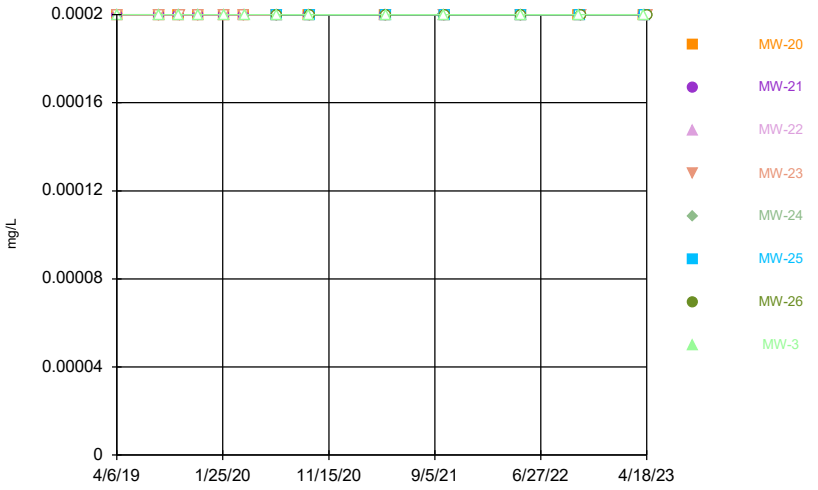
Time Series



Constituent: Mercury Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Mercury Analysis Run 6/6/2023 2:37 PM View: Descriptive
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Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
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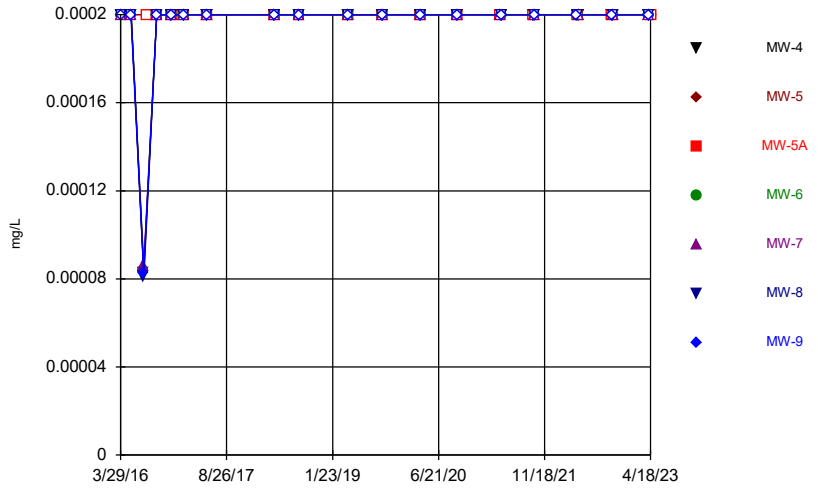
Time Series



Constituent: Mercury Analysis Run 6/6/2023 2:37 PM View: Descriptive
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Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
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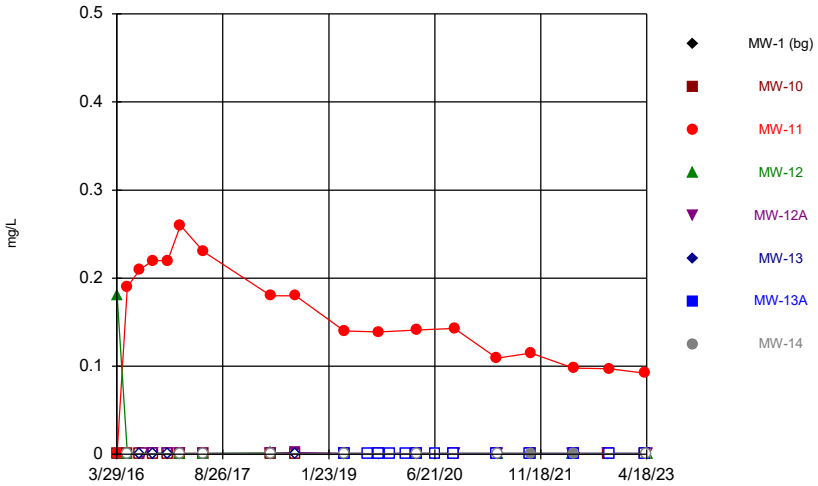
Time Series



Constituent: Molybdenum Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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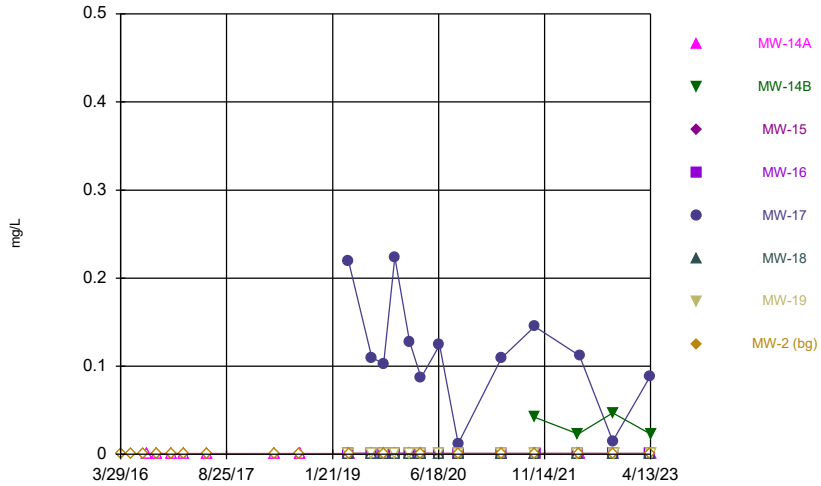
Hollow symbols indicate censored values.

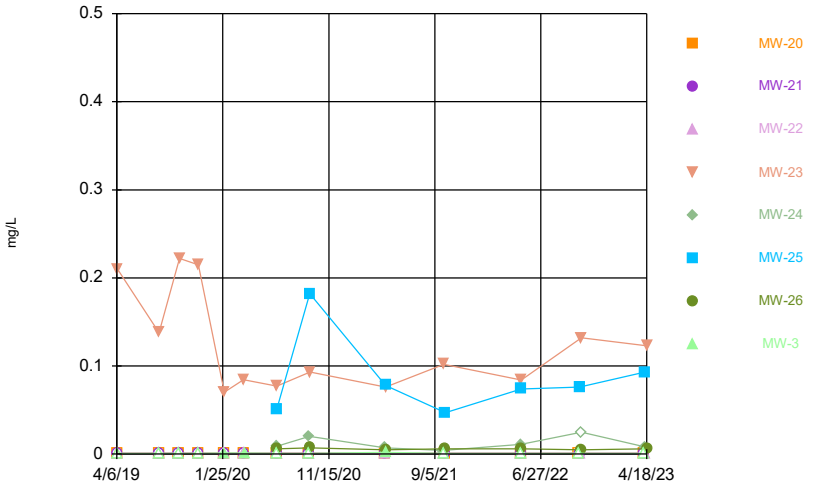
Time Series



Constituent: Molybdenum Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

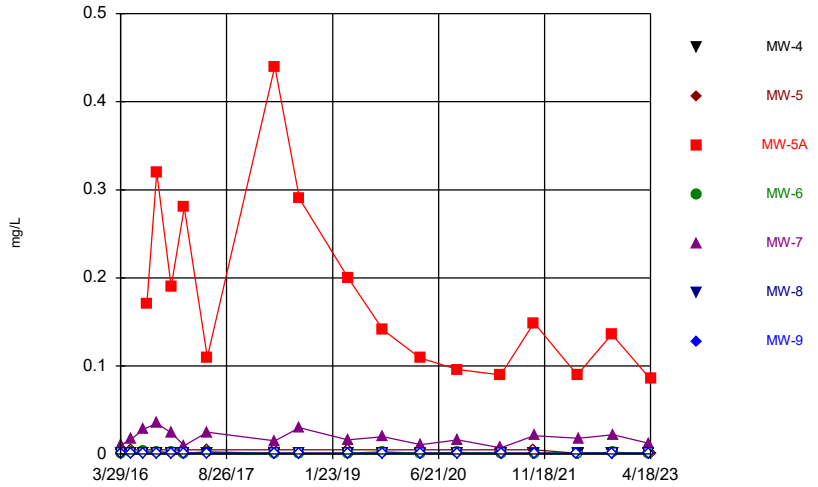
Time Series



Constituent: Molybdenum Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

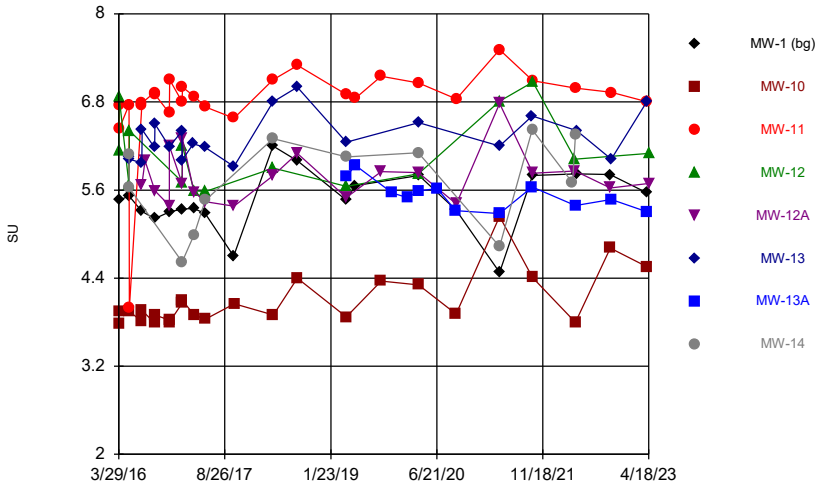
Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

Time Series



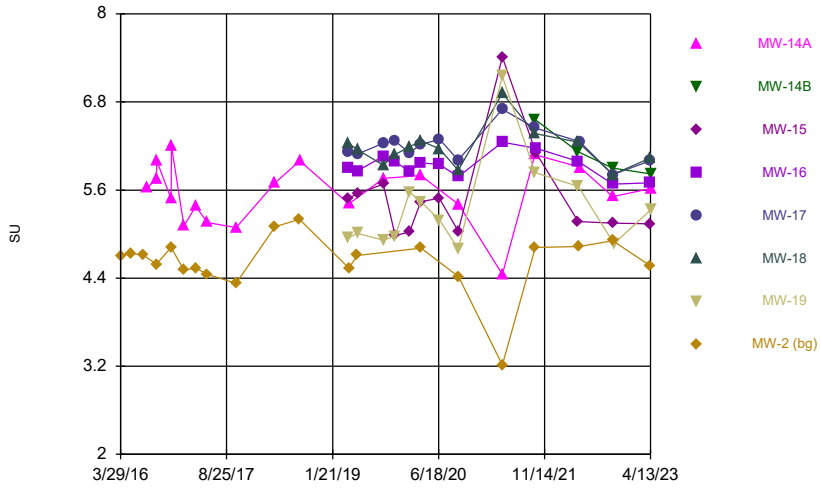
Constituent: Molybdenum Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



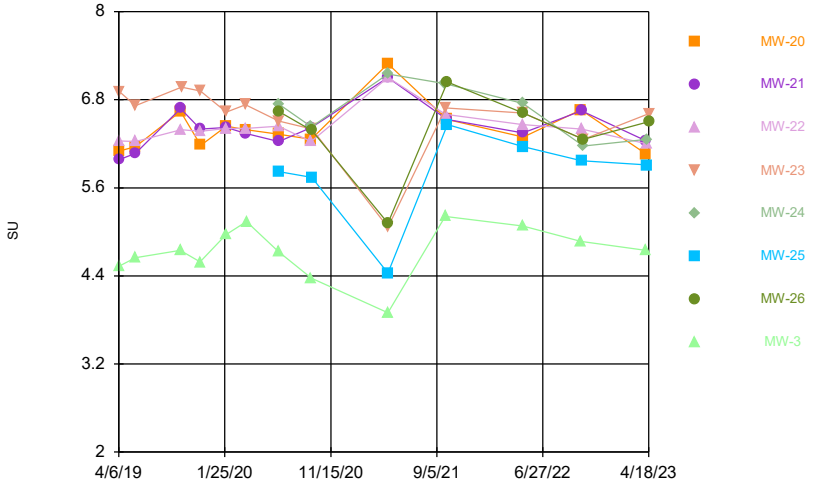
Constituent: pH, Field Analysis Run 6/6/2023 2:37 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



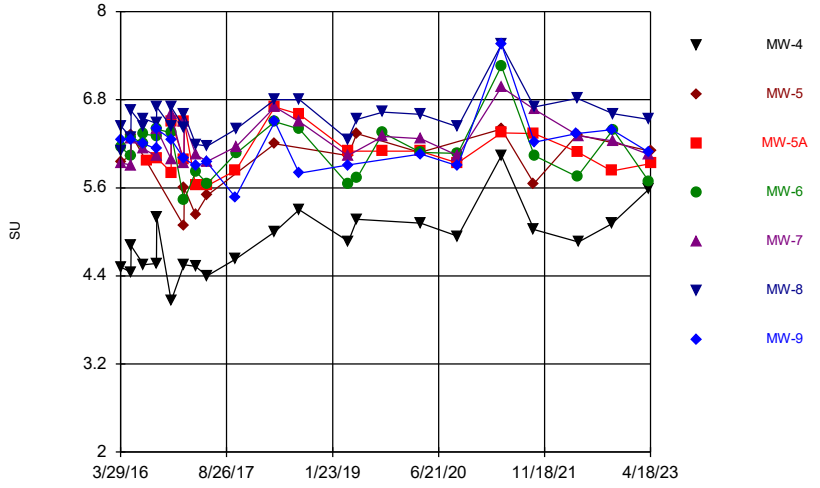
Constituent: pH, Field Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



Constituent: pH, Field Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series



Constituent: pH, Field Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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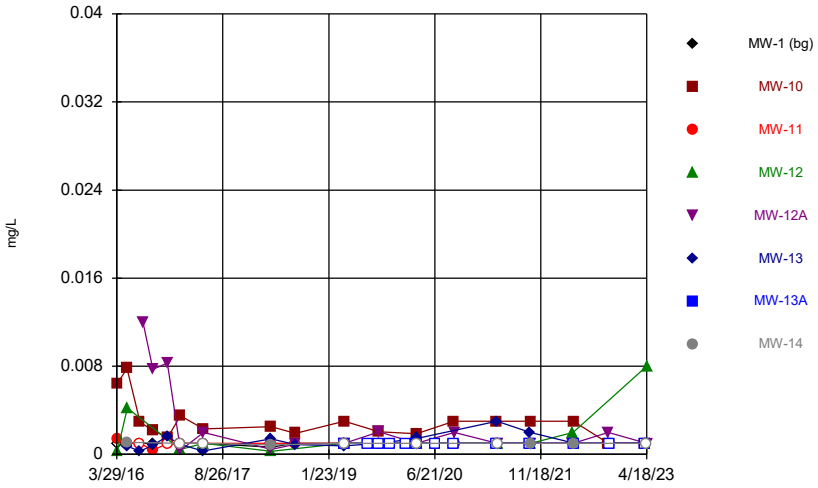
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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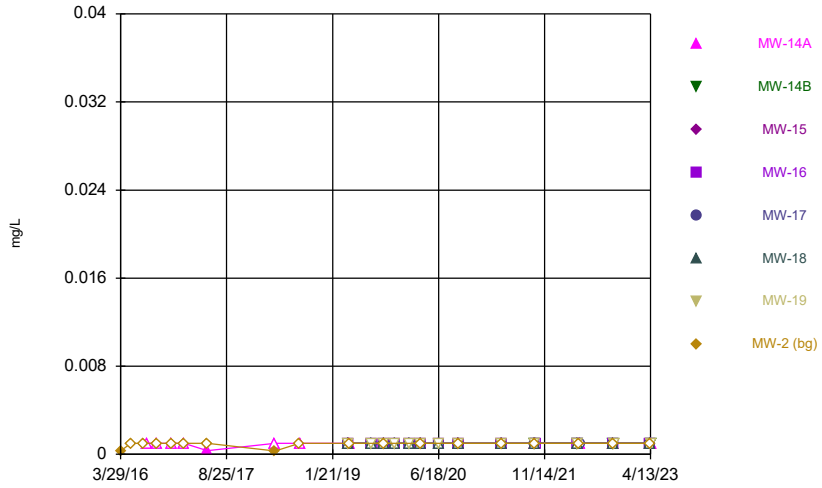
Hollow symbols indicate censored values.

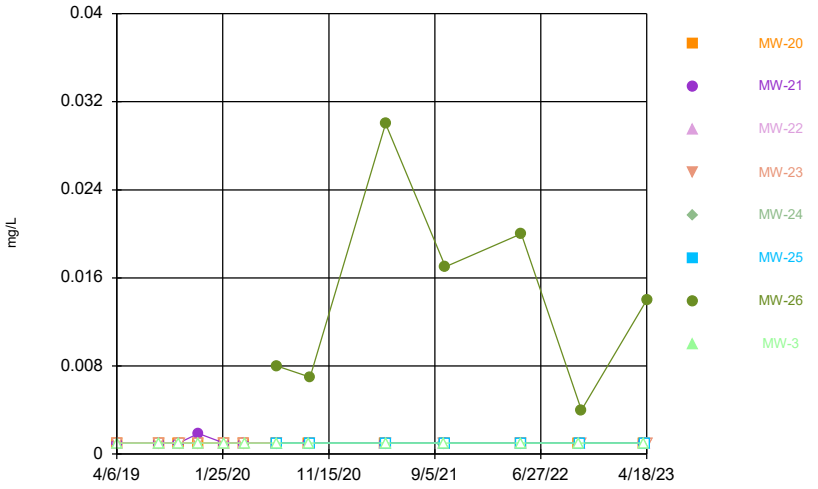
Time Series



Constituent: Selenium Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

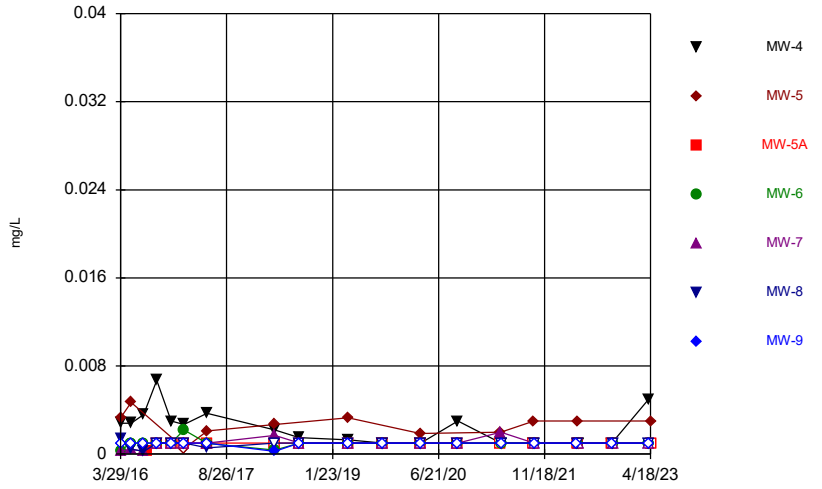
Time Series



Constituent: Selenium Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

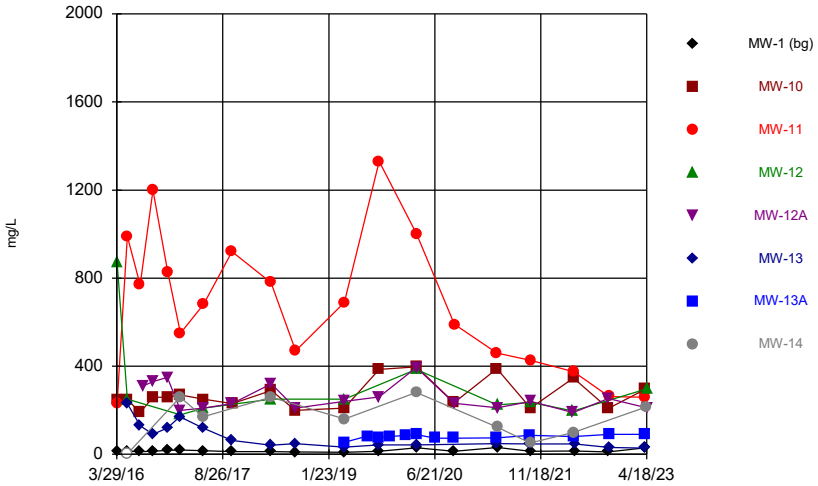
Time Series



Constituent: Selenium Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

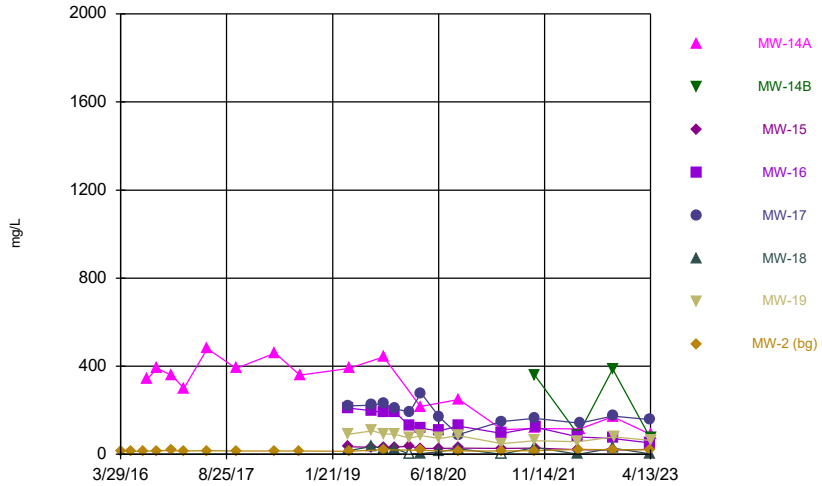
Time Series



Constituent: Sulfate as SO4 Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

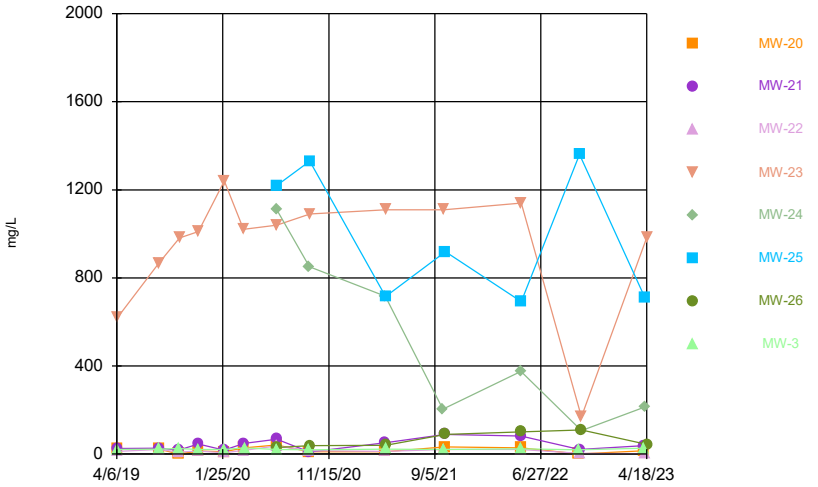
Time Series



Constituent: Sulfate as SO4 Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

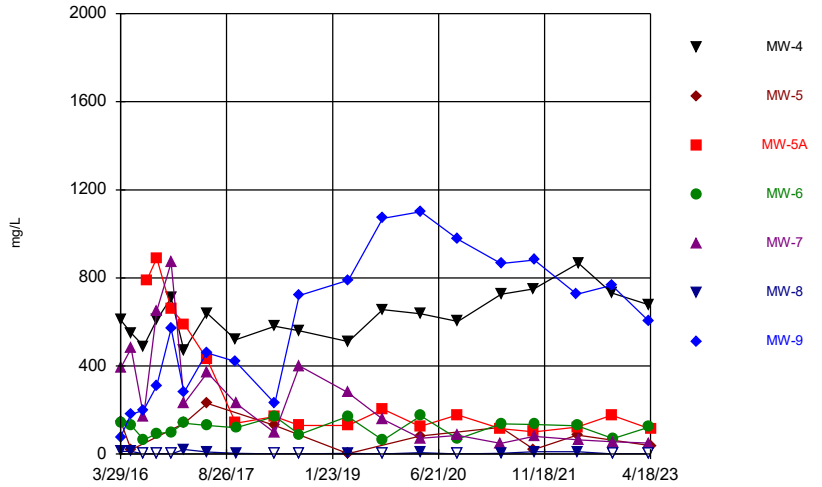
Time Series



Constituent: Sulfate as SO4 Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

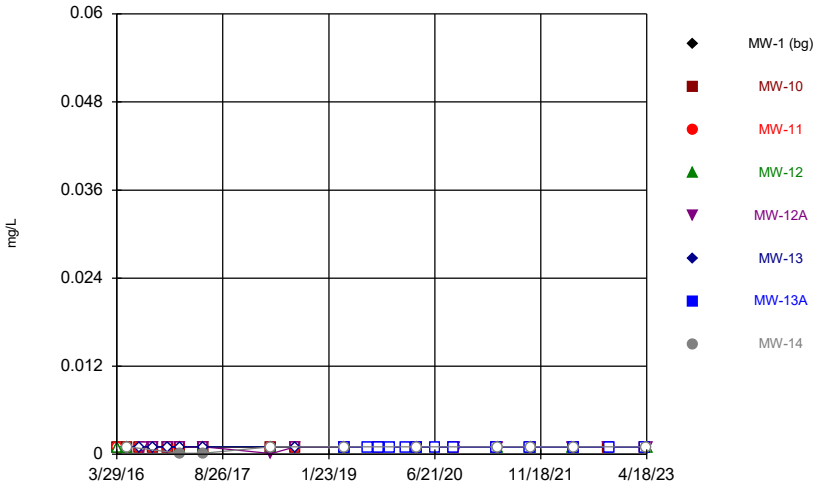
Time Series



Constituent: Sulfate as SO4 Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

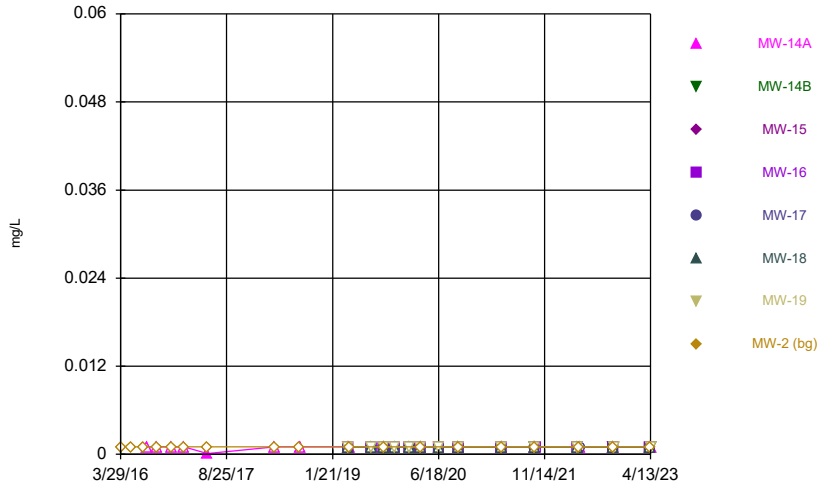
Time Series



Constituent: Thallium Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

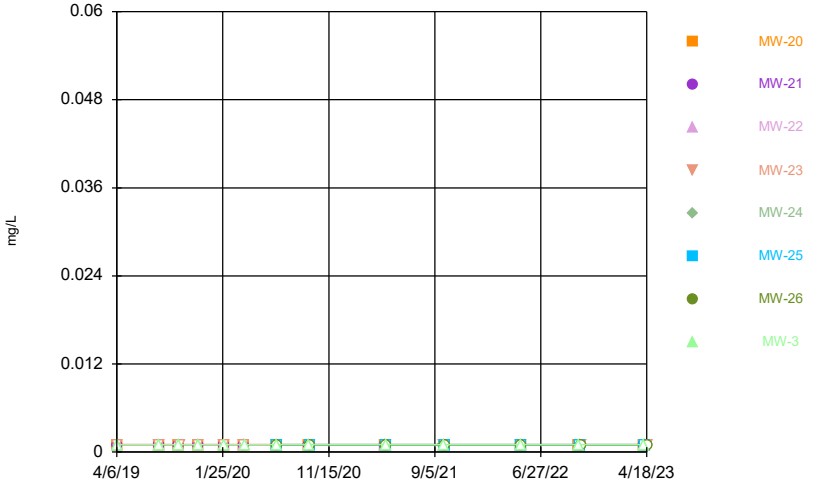
Time Series



Constituent: Thallium Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

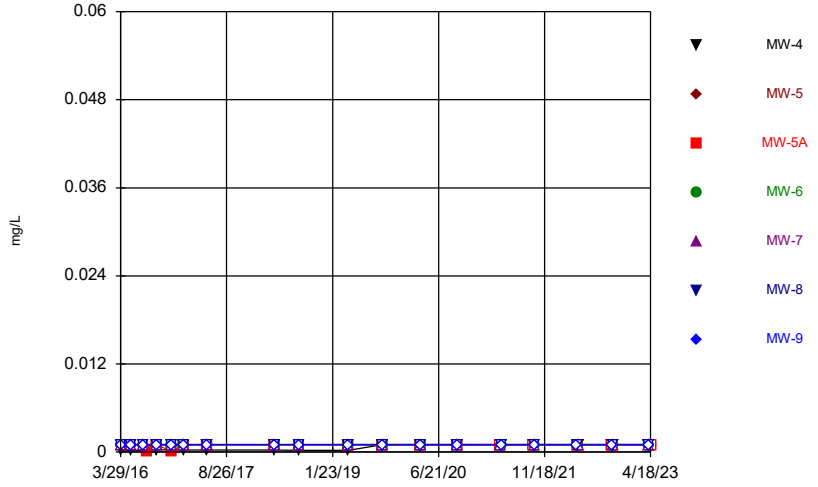
Time Series



Constituent: Thallium Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

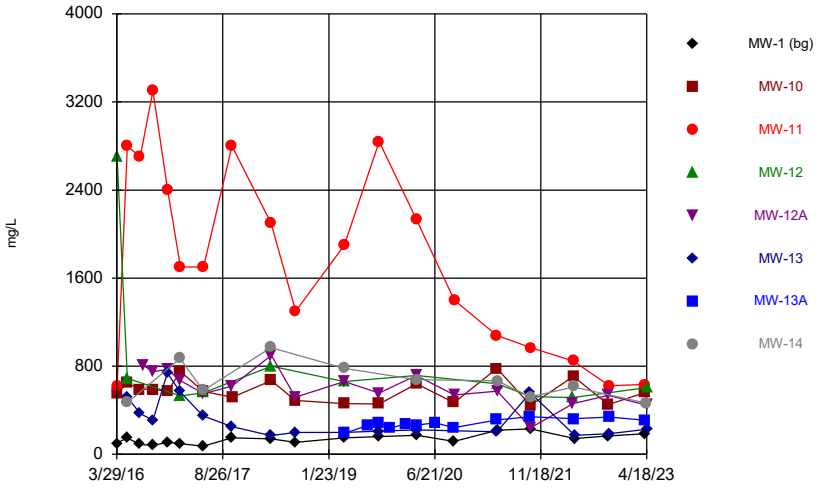
Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Thallium Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

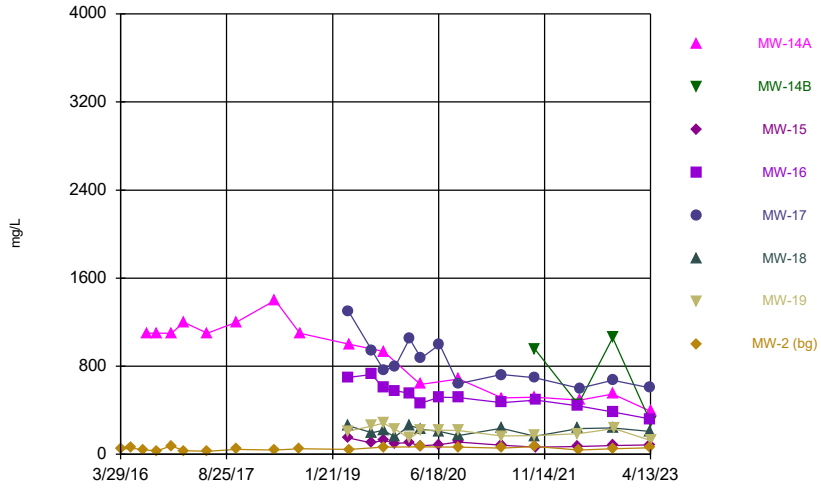
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

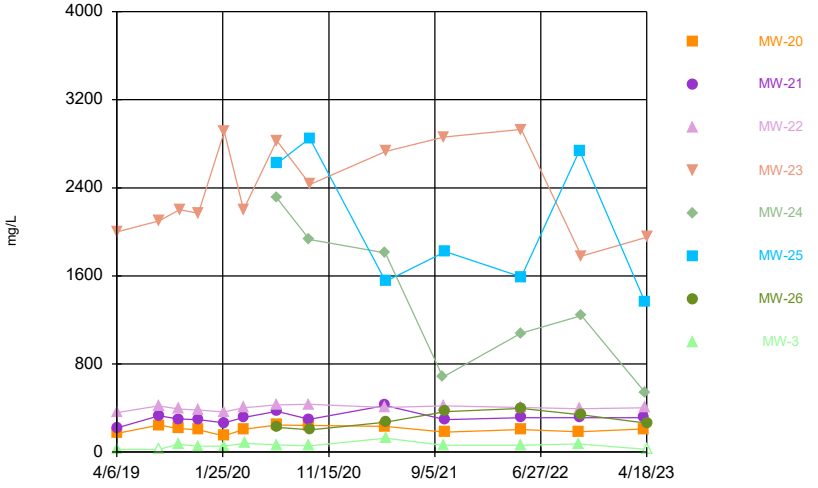
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

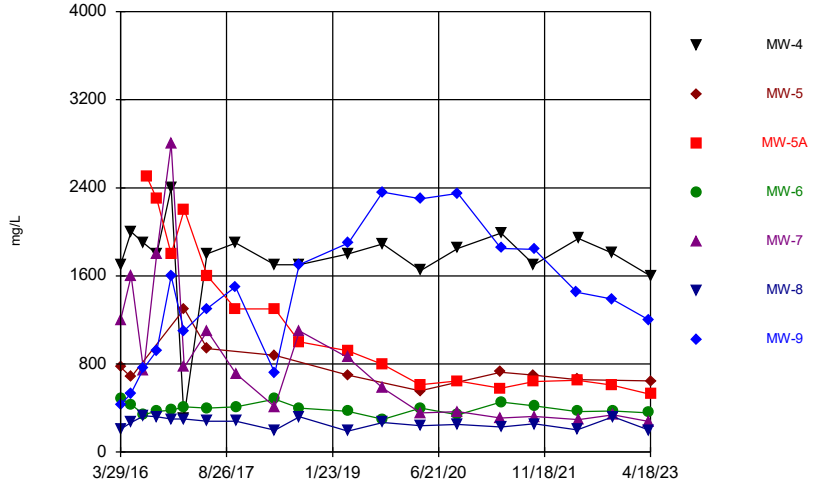
Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/6/2023 2:38 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/6/2023 2:40 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
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			
9/19/2016	<0.001							
9/20/2016		<0.001			<0.001			
9/21/2016			<0.001			<0.001		
11/29/2016	<0.001					<0.001		
11/30/2016		<0.001			<0.001			
12/1/2016			<0.001					
1/30/2017						<0.001		
1/31/2017	<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
5/24/2017		<0.001	<0.001					
5/25/2017				<0.001	<0.001			
4/17/2018	<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					
4/9/2019		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4/10/2019	<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			
11/18/2019							<0.001	
1/30/2020							<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			
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
9/28/2021						<0.001	<0.001	
9/29/2021								<0.001
9/30/2021	<0.001	<0.001						
10/1/2021			<0.001	<0.001	<0.001			
4/25/2022				<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/6/2023 2:40 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
4/26/2022								<0.001
4/27/2022		<0.001	<0.001				<0.001	
5/2/2022	<0.001					<0.001		
10/11/2022	<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
4/18/2023				<0.001	<0.001			

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								<0.001
5/18/2016								<0.001
7/19/2016								<0.001
8/4/2016	<0.001							
9/19/2016								<0.001
9/21/2016	<0.001							
11/29/2016								<0.001
12/1/2016	<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
8/15/2018	<0.001							
4/7/2019			<0.001			<0.001	<0.001	
4/8/2019				<0.001	<0.001			
4/10/2019	<0.001							<0.001
7/31/2019			<0.001	<0.001	<0.001			
8/1/2019						<0.001	<0.001	
9/24/2019			<0.001			<0.001		<0.001
9/25/2019				<0.001			<0.001	
9/26/2019	<0.001				<0.001			
11/19/2019				<0.001	<0.001	<0.001		
11/20/2019			<0.001				<0.001	
1/29/2020							<0.001	
1/30/2020			<0.001	<0.001	<0.001	<0.001		
3/23/2020	<0.001		<0.001	<0.001				
3/25/2020					<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	
9/21/2020			<0.001					
9/22/2020				<0.001	<0.001	<0.001	<0.001	
9/23/2020								<0.001
9/24/2020	<0.001							
4/19/2021					<0.001	<0.001		
4/20/2021			<0.001	<0.001			<0.001	
4/22/2021	<0.001							<0.001
9/28/2021					<0.001		<0.001	
9/29/2021	<0.001	<0.001				<0.001		
9/30/2021								<0.001
10/4/2021			<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			
5/4/2022	<0.001							
10/11/2022								<0.001
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
10/18/2022							<0.001	
4/11/2023								<0.001
4/12/2023			<0.001	<0.001	<0.001	<0.001		
4/13/2023	<0.001	<0.001					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	<0.001	<0.001						<0.001
4/7/2019			<0.001					
4/8/2019				<0.001				
7/31/2019			<0.001					
8/1/2019	<0.001	<0.001		<0.001				<0.001
9/24/2019								<0.001
9/25/2019	<0.001	<0.001						
9/26/2019			<0.001					
9/27/2019				<0.001				
11/18/2019								<0.001
11/19/2019		<0.001	<0.001	<0.001				
11/20/2019	<0.001							
1/29/2020	<0.001	<0.001	<0.001					<0.001
1/30/2020				<0.001				
3/23/2020			<0.001	<0.001				
3/25/2020	<0.001	<0.001						
3/26/2020								<0.001
6/23/2020	<0.001		<0.001					<0.001
6/24/2020		<0.001		<0.001	<0.001	<0.001	<0.001	
9/21/2020	<0.001		<0.001					
9/22/2020		<0.001			<0.001			<0.001
9/23/2020						<0.001		
9/24/2020				<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	<0.001
9/28/2021					<0.001			
9/29/2021								<0.001
9/30/2021			<0.001					
10/1/2021				<0.001				
10/4/2021	<0.001	<0.001						
10/5/2021						<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	<0.001	
10/11/2022	<0.001							<0.001
10/13/2022		<0.001	<0.001			<0.001		
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		
4/18/2023				<0.001			<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	<0.001	<0.001		<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	<0.001	<0.001	
7/19/2016	<0.001				<0.001		<0.001
7/20/2016				<0.001		<0.001	
8/4/2016			<0.001				
9/20/2016	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
11/29/2016	<0.001			<0.001			<0.001
11/30/2016			<0.001		<0.001	<0.001	
1/31/2017	<0.001			<0.001			<0.001
2/1/2017		<0.001	<0.001		<0.001	<0.001	
5/22/2017							<0.001
5/23/2017	<0.001						
5/24/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
4/17/2018				<0.001			<0.001
4/18/2018	<0.001	<0.001	<0.001		<0.001	<0.001	
8/14/2018	<0.001						<0.001
8/15/2018			<0.001	<0.001	<0.001	<0.001	
4/7/2019				<0.001	<0.001	<0.001	
4/9/2019		<0.001	<0.001				
4/10/2019	<0.001						<0.001
9/24/2019	<0.001						<0.001
9/25/2019				<0.001	<0.001		
9/26/2019			<0.001			<0.001	
3/23/2020		<0.001	<0.001				
3/26/2020	<0.001			<0.001	<0.001	<0.001	<0.001
9/22/2020			<0.001				
9/23/2020	<0.001			<0.001	<0.001	<0.001	<0.001
4/19/2021		<0.001	<0.001				
4/20/2021					<0.001		
4/21/2021	<0.001			<0.001		<0.001	<0.001
9/28/2021	<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
4/26/2022		<0.001	<0.001				
4/27/2022				<0.001		<0.001	
5/3/2022	<0.001				<0.001		
10/11/2022	<0.001						<0.001
10/12/2022			<0.001				
10/17/2022				<0.001	<0.001	<0.001	
4/10/2023	<0.001						
4/11/2023							<0.001
4/12/2023				<0.001	<0.001	<0.001	
4/18/2023		<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/6/2023 2:40 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
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)			
9/19/2016	<0.0013							
9/20/2016		<0.001			<0.001			
9/21/2016			0.0037			0.00067 (J)		
11/29/2016	<0.0013					0.00088 (J)		
11/30/2016		<0.001			<0.001			
12/1/2016			0.0028					
1/30/2017						0.00088 (J)		
1/31/2017	0.0011 (J)							0.00078 (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
5/24/2017		<0.001	0.0032					
5/25/2017				<0.001	<0.001			
4/17/2018	0.0019							0.017
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					
4/9/2019		<0.001	0.0033	<0.001	<0.001	0.00082 (J)	0.0069	
4/10/2019	0.0014							0.017
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			
11/18/2019							0.00988	
1/30/2020							0.0112	
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			
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
9/28/2021						0.0018	0.0103	
9/29/2021								0.0368
9/30/2021	0.0023	<0.001						
10/1/2021			0.0033	<0.001	<0.001			
4/25/2022				<0.001	0.0597			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/6/2023 2:40 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
4/26/2022								0.0635
4/27/2022		<0.001	0.0025				0.0092	
5/2/2022	0.0024					0.0017		
10/11/2022	0.0023							
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
4/18/2023				<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								<0.001
5/18/2016								<0.001
7/19/2016								0.00055 (J)
8/4/2016	0.0015							
9/19/2016								<0.001
9/21/2016	0.00099 (J)							
11/29/2016								<0.001
12/1/2016	0.0036							
1/31/2017	0.00094 (J)							<0.001
5/23/2017	0.0012 (J)							<0.001
4/17/2018	0.0045							<0.001
8/14/2018								<0.001
8/15/2018	0.004							
4/7/2019			0.0012 (J)			0.0063	<0.001	
4/8/2019				0.0046	0.016			
4/10/2019	0.0075							<0.001
7/31/2019			0.00227	0.00742	0.0307			
8/1/2019						<0.001	<0.001	
9/24/2019			0.00156			<0.001		<0.001
9/25/2019				0.00861			<0.001	
9/26/2019	0.00416				0.0155			
11/19/2019				0.00501	0.0523	<0.001		
11/20/2019			<0.001				<0.001	
1/29/2020							<0.001	
1/30/2020			<0.001	0.00315	0.0458	0.00691		
3/23/2020	0.00593		<0.001	0.00379				
3/25/2020					0.0542	0.00443	<0.001	
3/26/2020								<0.001
6/22/2020			<0.001	0.0037				
6/23/2020					0.0426	0.0015	<0.001	
9/21/2020			<0.001					
9/22/2020				0.0071	0.0241	<0.001	<0.001	
9/23/2020								<0.001
9/24/2020	0.0077							
4/19/2021					0.0448	0.0067		
4/20/2021			<0.001	0.0025			<0.001	
4/22/2021	0.0106							<0.001
9/28/2021					0.0634		<0.001	
9/29/2021	0.0117	0.001				<0.001		
9/30/2021								<0.001
10/4/2021			<0.001	0.0031				
4/26/2022		<0.001	<0.001	0.0018		0.0031	<0.001	
5/2/2022								<0.001
5/3/2022					0.0472			
5/4/2022	0.0091							
10/11/2022								<0.001
10/12/2022	0.0054	0.0017	<0.001	0.0039	0.0214	<0.001		
10/18/2022							<0.001	
4/11/2023								<0.001
4/12/2023			<0.001	0.0014	0.0569	0.0109		
4/13/2023	0.0067	0.001					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	0.051	0.0059						<0.001
4/7/2019			0.0027					
4/8/2019				0.042				
7/31/2019			0.00391					
8/1/2019	0.0421	0.00729		0.111				<0.001
9/24/2019								<0.001
9/25/2019	0.033	0.00632						
9/26/2019			0.00422					
9/27/2019				0.193				
11/18/2019								<0.001
11/19/2019		0.00594	0.00577	0.241				
11/20/2019	0.036							
1/29/2020	0.0359	0.00866	0.00504					0.00102
1/30/2020				0.348				
3/23/2020			0.00515	0.305				
3/25/2020	0.0377	0.00574						
3/26/2020								<0.001
6/23/2020	0.0381		0.0046					<0.001
6/24/2020		0.0051		0.244	0.0017	0.0023	<0.001	
9/21/2020	0.0446		0.0051					
9/22/2020		0.0071			0.0027			<0.001
9/23/2020						<0.01		
9/24/2020				0.189			<0.001	
4/20/2021	0.0289		0.0044					
4/21/2021		0.0145			0.0013			
4/22/2021				0.324		0.0217	<0.001	<0.001
9/28/2021					0.0013			
9/29/2021								<0.001
9/30/2021			0.006					
10/1/2021				0.254				
10/4/2021	0.0294	0.0083						
10/5/2021						0.0071	0.0012	
5/2/2022			0.0057					
5/3/2022		0.0134			0.0023			<0.001
5/4/2022	0.0282			0.241		0.0122	0.0014	
10/11/2022	0.0244							<0.001
10/13/2022		0.0055	0.004			<0.01		
10/18/2022				0.117	<0.01		<0.001	
4/10/2023								<0.001
4/11/2023	0.0259	0.0055						
4/12/2023			0.0024					
4/13/2023					0.0033	0.0146		
4/18/2023				0.186			0.0011	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	0.0054	0.012		0.0095	<0.001		0.00094 (J)
3/30/2016						0.0007 (J)	
5/18/2016							0.0012 (J)
5/19/2016	0.0073	0.032		0.017	<0.001	0.0041	
7/19/2016	0.0049				<0.001		0.0013
7/20/2016				0.022		0.05	
8/4/2016			0.0034				
9/20/2016	0.0059		0.0016	0.023	0.00047 (J)	0.058	0.0031
11/29/2016	0.004			0.027			0.0031
11/30/2016			0.0026		0.00085 (J)	0.06	
1/31/2017	0.0064			0.0021			0.00095 (J)
2/1/2017		<0.0013	0.0028		<0.001	0.014	
5/22/2017							0.00084 (J)
5/23/2017	0.0039						
5/24/2017		0.0082	0.0023	0.0076	0.00098 (J)	0.0059	
4/17/2018				0.0021			0.00094 (J)
4/18/2018	0.0034	0.013	0.0036		0.00065 (J)	0.0098	
8/14/2018	0.0048						0.00071 (J)
8/15/2018			0.00094 (J)	0.019	<0.001	0.047	
4/7/2019				0.0012 (J)	<0.001	0.0016	
4/9/2019		0.022	0.0043				
4/10/2019	0.0036						0.00066 (J)
9/24/2019	<0.005						<0.01
9/25/2019				0.0229	<0.001		
9/26/2019			0.00212			0.0437	
3/23/2020		0.0242	0.00384				
3/26/2020	0.00612			0.00156	<0.001	0.00815	0.00114
9/22/2020			0.0019				
9/23/2020	0.0017			0.0205	<0.001	0.0396	0.0016
4/19/2021		0.0205	0.0036				
4/20/2021					<0.001		
4/21/2021	<0.005			<0.001		0.0157	<0.01
9/28/2021	0.0034	0.0779	0.0044				
9/29/2021					<0.001		
9/30/2021				<0.001		0.0097	0.0015
4/25/2022							<0.01
4/26/2022		0.0508	0.0036				
4/27/2022				<0.001		0.0196	
5/3/2022	<0.005				<0.001		
10/11/2022	0.0012						<0.01
10/12/2022			0.002				
10/17/2022				0.0217	0.001	0.0316	
4/10/2023	0.0212						
4/11/2023							0.0011
4/12/2023				<0.001	<0.001	0.0125	
4/18/2023		0.0197	0.0037				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium, Total (mg/L) Analysis Run 6/6/2023 2:40 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
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			
9/19/2016	0.1							
9/20/2016		0.033			0.025			
9/21/2016			0.026			0.059		
11/29/2016	0.093					0.091		
11/30/2016		0.028			0.026			
12/1/2016			0.022					
1/30/2017						0.12		
1/31/2017	0.091							0.21
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
5/24/2017		0.041	0.025					
5/25/2017				0.033	0.037			
4/17/2018	0.12							0.23
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					
4/9/2019		0.034	0.03	0.027	0.028	0.068	0.12	
4/10/2019	0.12							0.19
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			
11/18/2019							0.176	
1/30/2020							0.183	
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			
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
9/28/2021						0.111	0.169	
9/29/2021								0.292
9/30/2021	0.135	0.024						
10/1/2021			0.028	0.026	0.027			
4/25/2022				0.029	0.274			

Time Series

Constituent: Barium, Total (mg/L) Analysis Run 6/6/2023 2:40 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
4/26/2022								0.282
4/27/2022		0.023	0.027				0.182	
5/2/2022	0.146					0.095		
10/11/2022	0.138							
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	0.117						0.151	
4/12/2023		0.03	0.036					
4/13/2023								0.111
4/18/2023				0.035	0.028			

Time Series

Constituent: Barium, Total (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								0.07
5/18/2016								0.075
7/19/2016								0.067
8/4/2016	0.049							
9/19/2016								0.067
9/21/2016	0.035							
11/29/2016								0.07
12/1/2016	0.06							
1/31/2017	0.037							0.075
5/23/2017	0.046							0.078
4/17/2018	0.05							0.07 (F1)
8/14/2018								0.067
8/15/2018	0.056							
4/7/2019			0.093			0.29	0.095	
4/8/2019				0.29	0.26			
4/10/2019	0.072							0.064
7/31/2019			0.0704	0.268	0.217			
8/1/2019						0.156	0.0751	
9/24/2019			0.0681			0.148		0.067
9/25/2019				0.233			0.0641	
9/26/2019	0.0527				0.0988			
11/19/2019				0.169	0.0967	0.139		
11/20/2019			0.0738				0.047	
1/29/2020							0.0517	
1/30/2020			0.0745	0.126	0.0728	0.284		
3/23/2020	0.0702		0.0579	0.129				
3/25/2020					0.0716	0.271	0.0637	
3/26/2020								0.0685
6/22/2020			0.057	0.147				
6/23/2020					0.096	0.191	0.064	
9/21/2020			0.062					
9/22/2020				0.232	0.152	0.128	0.059	
9/23/2020								0.068
9/24/2020	0.064							
4/19/2021					0.057	0.273		
4/20/2021			0.066	0.136			0.05	
4/22/2021	0.055							0.071
9/28/2021					0.061		0.063	
9/29/2021	0.085	0.172				0.115		
9/30/2021								0.07
10/4/2021			0.059	0.158				
4/26/2022		0.089	0.061	0.13		0.228	0.066	
5/2/2022								0.07
5/3/2022					0.058			
5/4/2022	0.075							
10/11/2022								0.071
10/12/2022	0.061	0.179	0.048	0.156	0.158	0.14		
10/18/2022							0.072	
4/11/2023								0.064
4/12/2023			0.048	0.092	0.054	0.186		
4/13/2023	0.055	0.069					0.052	

Time Series

Constituent: Barium, Total (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	0.15	0.096						0.13
4/7/2019			0.2					
4/8/2019				0.12				
7/31/2019			0.138					
8/1/2019	0.135	0.119		0.0616				0.122
9/24/2019								0.121
9/25/2019	0.12	0.113						
9/26/2019			0.137					
9/27/2019				0.0529				
11/18/2019								0.12
11/19/2019		0.114	0.147	0.0541				
11/20/2019	0.13							
1/29/2020	0.131	0.12	0.177					0.0975
1/30/2020				0.0754				
3/23/2020			0.158	0.0593				
3/25/2020	0.14	0.111						
3/26/2020								0.0985
6/23/2020	0.166		0.132					0.125
6/24/2020		0.105		0.066	0.061	0.049	0.095	
9/21/2020	0.139		0.136					
9/22/2020		0.111			0.071			0.131
9/23/2020						0.043		
9/24/2020				0.055			0.086	
4/20/2021	0.133		0.156					
4/21/2021		0.13			0.124			
4/22/2021				0.071		0.056	0.132	0.091
9/28/2021					0.056			
9/29/2021								0.112
9/30/2021			0.143					
10/1/2021				0.057				
10/4/2021	0.12	0.08						
10/5/2021						0.046	0.149	
5/2/2022			0.15					
5/3/2022		0.109			0.14			0.097
5/4/2022	0.13			0.071		0.044	0.131	
10/11/2022	0.085							0.115
10/13/2022		0.11	0.139			0.054		
10/18/2022				0.041	0.162		0.116	
4/10/2023								0.092
4/11/2023	0.122	0.09						
4/12/2023			0.139					
4/13/2023					0.121	0.036		
4/18/2023				0.042			0.096	

Time Series

Constituent: Barium, Total (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	0.03	0.23		0.25	0.052		0.1
3/30/2016						0.066	
5/18/2016							0.16
5/19/2016	0.032	0.33		0.13	0.043	0.07	
7/19/2016	0.031				0.041		0.14
7/20/2016				0.1		0.1	
8/4/2016			0.035				
9/20/2016	0.041		0.028	0.12	0.057	0.1	0.14
11/29/2016	0.031			0.13			0.17
11/30/2016			0.024		0.05	0.11	
1/31/2017	0.05			0.075			0.096
2/1/2017		0.075	0.029		0.09	0.085	
5/22/2017							0.14
5/23/2017	0.041						
5/24/2017		0.22	0.04	0.087	0.037	0.077	
4/17/2018				0.046			0.094
4/18/2018	0.04	0.26	0.098		0.093	0.063	
8/14/2018	0.057						0.14
8/15/2018			0.073	0.078	0.081	0.1	
4/7/2019				0.043	0.089	0.055	
4/9/2019		0.36	0.078				
4/10/2019	0.044						0.071
9/24/2019	0.0444						0.0881
9/25/2019				0.0962	0.0748		
9/26/2019			0.111			0.0856	
3/23/2020		0.216	0.101				
3/26/2020	0.0351			0.0536	0.0917	0.0703	0.0712
9/22/2020			0.089				
9/23/2020	0.039			0.092	0.093	0.093	0.081
4/19/2021		0.215	0.096				
4/20/2021					0.093		
4/21/2021	0.025			0.048		0.095	0.081
9/28/2021	0.036	0.444	0.099				
9/29/2021					0.08		
9/30/2021				0.054		0.089	0.063
4/25/2022							0.066
4/26/2022		0.309	0.096				
4/27/2022				0.041		0.125	
5/3/2022	0.034				0.087		
10/11/2022	0.027						0.055
10/12/2022			0.085				
10/17/2022				0.099	0.074	0.109	
4/10/2023	0.05						
4/11/2023							0.049
4/12/2023				0.045	0.084	0.072	
4/18/2023		0.172	0.078				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/6/2023 2:40 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
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			
9/19/2016	<0.001							
9/20/2016		0.0018 (J)			<0.001			
9/21/2016			<0.001			<0.001		
11/29/2016	<0.001					<0.001		
11/30/2016		0.0012 (J)			<0.001			
12/1/2016			<0.001					
1/30/2017						<0.001		
1/31/2017	<0.001							0.00075 (J)
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
5/24/2017		0.0021 (J)	<0.001					
5/25/2017				<0.001	<0.001			
4/17/2018	<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					
4/9/2019		0.00082 (J)	<0.001	<0.001	<0.001	<0.001	<0.001	
4/10/2019	<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			
11/18/2019							<0.001	
1/30/2020							<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			
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
9/28/2021						<0.001	<0.001	
9/29/2021								<0.001
9/30/2021	<0.001	<0.001						
10/1/2021			<0.001	<0.001	<0.001			
4/25/2022				<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/6/2023 2:40 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
4/26/2022								<0.001
4/27/2022		<0.001	<0.001				<0.001	
5/2/2022	<0.001					<0.001		
10/11/2022	<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
4/18/2023				<0.001	<0.001			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								<0.001
5/18/2016								<0.001
7/19/2016								6.8E-05 (J)
8/4/2016	<0.001							
9/19/2016								<0.001
9/21/2016	<0.001							
11/29/2016								<0.001
12/1/2016	<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
8/15/2018	<0.001							
4/7/2019			<0.001			<0.001	<0.001	
4/8/2019				<0.001	<0.001			
4/10/2019	<0.001							<0.001
7/31/2019			<0.001	<0.001	<0.001			
8/1/2019						<0.001	<0.001	
9/24/2019			<0.001			<0.001		<0.001
9/25/2019				<0.001			<0.001	
9/26/2019	<0.001				<0.001			
11/19/2019				<0.001	<0.001	<0.001		
11/20/2019			<0.001				<0.001	
1/29/2020							<0.001	
1/30/2020			<0.001	<0.001	<0.001	<0.001		
3/23/2020	<0.001		<0.001	<0.001				
3/25/2020					<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	
9/21/2020			<0.001					
9/22/2020				<0.001	<0.001	<0.001	<0.001	
9/23/2020								<0.001
9/24/2020	<0.001							
4/19/2021					<0.001	<0.001		
4/20/2021			<0.001	<0.001			<0.001	
4/22/2021	<0.001							<0.001
9/28/2021					<0.001		<0.001	
9/29/2021	<0.001	<0.001				<0.001		
9/30/2021								<0.001
10/4/2021			<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			
5/4/2022	<0.001							
10/11/2022								<0.001
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
10/18/2022							<0.001	
4/11/2023								<0.001
4/12/2023			<0.001	<0.001	<0.001	<0.001		
4/13/2023	<0.001	<0.001					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	<0.001	<0.001						0.00057 (J)
4/7/2019			<0.001					
4/8/2019				<0.001				
7/31/2019			<0.001					
8/1/2019	<0.001	<0.001		<0.001				<0.001
9/24/2019								<0.001
9/25/2019	<0.001	<0.001						
9/26/2019			<0.001					
9/27/2019				<0.001				
11/18/2019								<0.001
11/19/2019		<0.001	<0.001	<0.001				
11/20/2019	<0.001							
1/29/2020	<0.001	<0.001	<0.001					<0.001
1/30/2020				<0.001				
3/23/2020			<0.001	<0.001				
3/25/2020	<0.001	<0.001						
3/26/2020								<0.001
6/23/2020	<0.001		<0.001					<0.001
6/24/2020		<0.001		<0.001	<0.001	<0.001	<0.001	
9/21/2020	<0.001		<0.001					
9/22/2020		<0.001			<0.001			<0.001
9/23/2020						<0.001		
9/24/2020				<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	<0.001
9/28/2021					<0.001			
9/29/2021								<0.001
9/30/2021			<0.001					
10/1/2021				<0.001				
10/4/2021	<0.001	<0.001						
10/5/2021						<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	<0.001	
10/11/2022	<0.001							<0.001
10/13/2022		<0.001	<0.001			<0.001		
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		
4/18/2023				<0.001			<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	0.0053	<0.001		<0.001	<0.001		<0.001
3/30/2016						<0.001	
5/18/2016							<0.001
5/19/2016	0.0055	<0.001		<0.001	<0.001	<0.001	
7/19/2016	0.0044				<0.001		<0.001
7/20/2016				<0.001		<0.001	
8/4/2016			<0.001				
9/20/2016	0.0056		<0.001	<0.001	<0.001	<0.001	<0.001
11/29/2016	0.007			<0.001			<0.001
11/30/2016			<0.001		<0.001	<0.001	
1/31/2017	0.0066			<0.001			<0.001
2/1/2017		<0.001	<0.001		<0.001	<0.001	
5/22/2017							<0.001
5/23/2017	0.0056						
5/24/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
4/17/2018				<0.001			<0.001
4/18/2018	0.0057	<0.001	<0.001		<0.001	<0.001	
8/14/2018	0.0053						<0.001
8/15/2018			<0.001	<0.001	<0.001	<0.001	
4/7/2019				<0.001	<0.001	<0.001	
4/9/2019		<0.001	<0.001				
4/10/2019	0.0046						<0.001
9/24/2019	0.00555						<0.001
9/25/2019				<0.001	<0.001		
9/26/2019			<0.001			<0.001	
3/23/2020		<0.001	<0.001				
3/26/2020	0.00528			<0.001	<0.001	<0.001	<0.001
9/22/2020			<0.001				
9/23/2020	0.0053			<0.001	<0.001	<0.001	<0.001
4/19/2021		<0.001	<0.001				
4/20/2021					<0.001		
4/21/2021	0.0044			<0.001		<0.001	<0.001
9/28/2021	0.0044	<0.001	<0.001				
9/29/2021					<0.001		
9/30/2021				<0.001		<0.001	<0.001
4/25/2022							<0.001
4/26/2022		<0.001	<0.001				
4/27/2022				<0.001		<0.001	
5/3/2022	0.0046				<0.001		
10/11/2022	0.0054						<0.001
10/12/2022			<0.001				
10/17/2022				<0.001	<0.001	<0.001	
4/10/2023	0.0033						
4/11/2023							<0.001
4/12/2023				<0.001	<0.001	<0.001	
4/18/2023		<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/6/2023 2:40 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
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			
9/19/2016	<0.05							
9/20/2016		0.26			0.75			
9/21/2016			11			0.79		
11/29/2016	<0.05					1.4		
11/30/2016		0.39			0.97			
12/1/2016			13					
1/30/2017						0.8		
1/31/2017	<0.05							3.4
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
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		
10/11/2017		0.4						
4/17/2018	<0.05							1.7
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					
4/9/2019		0.53	8.6	1.3	1.3	0.36	0.022 (J)	
4/10/2019	<0.05							0.77
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			
11/18/2019							0.0145	
1/30/2020							0.0133	
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			
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
9/28/2021						0.346	0.03	
9/29/2021								0.352

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/6/2023 2:40 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
9/30/2021	0.023	0.531						
10/1/2021			7.19	0.566	0.555			
4/25/2022				0.343	0.526			
4/26/2022								0.544
4/27/2022		0.646	5.92				0.028	
5/2/2022	0.015					1		
10/11/2022	0.022							
10/13/2022		0.392			0.588			
10/17/2022			4.38				0.032	
10/18/2022						0.682		
4/10/2023						0.204		
4/11/2023	0.019						0.068	
4/12/2023		0.537	1.05					
4/13/2023								1.12
4/18/2023				0.572	0.414			

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								0.022 (J)
5/18/2016								<0.05
7/19/2016								<0.05
8/4/2016	4.4							
9/19/2016								<0.05
9/21/2016	5							
11/29/2016								<0.05
12/1/2016	6							
1/31/2017	4.5							<0.05
5/23/2017	4.2							<0.05
10/10/2017	3.6							<0.05
4/17/2018	3.9							<0.05
8/14/2018								<0.05
8/15/2018	2.3							
4/7/2019			0.052			0.17	0.38	
4/8/2019				2.5	5.6			
4/10/2019	2.9							<0.05
7/31/2019			0.0517	2.18	4.38			
8/1/2019						0.132	0.295	
9/24/2019			0.0518			0.145		0.0168
9/25/2019				1.89			0.328	
9/26/2019	2.4				4			
11/19/2019				2.67	5.12	0.134		
11/20/2019			0.0447				0.309	
1/29/2020							0.241	
1/30/2020			0.0294	1.53	4.73	0.0726		
3/23/2020	1.54		0.0349	1.02				
3/25/2020					9.05	0.0784	0.261	
3/26/2020								0.0183
6/22/2020			0.039	1.48				
6/23/2020					4.75	0.109	0.239	
9/21/2020			0.033					
9/22/2020				1.36	3.09	0.168	0.33	
9/23/2020								0.012
9/24/2020	1.51							
4/19/2021					3.48	0.07		
4/20/2021			0.032	1.19			0.172	
4/22/2021	1.1							0.017
9/28/2021					2.93		0.207	
9/29/2021	1.19	2.6				0.108		
9/30/2021								0.019
10/4/2021			0.027	1.24				
4/26/2022		0.418	0.037	0.767		0.085	0.199	
5/2/2022								0.017
5/3/2022					2.77			
5/4/2022	1.1							
10/11/2022								0.02
10/12/2022	1.26	2.88	0.041	0.712	2.66	0.145		
10/18/2022							0.243	
4/11/2023								0.018
4/12/2023			0.026	0.55	2.33	0.098		
4/13/2023	0.851	0.338					0.186	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	0.089	0.14						<0.05
4/7/2019			0.12					
4/8/2019				8.1				
7/31/2019			0.0867					
8/1/2019	0.0535	0.216		9.67				0.0204
9/24/2019								0.0208
9/25/2019	0.0659	0.305						
9/26/2019			0.0968					
9/27/2019				13.2				
11/18/2019								0.0222
11/19/2019		0.268	0.102	13.1				
11/20/2019	0.0625							
1/29/2020	0.0556	0.291	<0.01					0.018
1/30/2020				13.1				
3/23/2020			0.0918	11.3				
3/25/2020	0.0554	0.201						
3/26/2020								0.0184
6/23/2020	0.06		0.101					0.022
6/24/2020		0.265		12.2	11.5	16.6	0.195	
9/21/2020	0.067		0.116					
9/22/2020		0.251			8.45			0.019
9/23/2020						17.8		
9/24/2020				11.8			0.354	
4/20/2021	0.061		0.1					
4/21/2021		0.349			7.76			
4/22/2021				14.2		11.1	0.291	0.02
9/28/2021					2.65			
9/29/2021								0.028
9/30/2021			0.107					
10/1/2021				13.1				
10/4/2021	0.063	0.277						
10/5/2021						12.6	0.373	
5/2/2022			0.106					
5/3/2022		0.282			4.93			0.017
5/4/2022	0.081			12.6		9.91	0.448	
10/11/2022	0.073							0.024
10/13/2022		0.273	0.094			15.2		
10/18/2022				7.61	5.34		0.529	
4/10/2023								0.019
4/11/2023	0.064	0.276						
4/12/2023			0.099					
4/13/2023					1.83	9.05		
4/18/2023				8.68			0.265	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron, total (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	1.8	1.3		0.3	7		2.7
3/30/2016						0.051	
5/18/2016							3.1
5/19/2016	1.7	0.29		0.28	11	0.16	
7/19/2016	1.4				6		4.1
7/20/2016				0.32		0.13	
8/4/2016			17				
9/20/2016	1.7		13	0.35	11	0.049 (J)	4.1
11/29/2016	2.9			0.4			5.7
11/30/2016			13		13	0.071	
1/31/2017	2			0.35			4
2/1/2017		5.9	14		5.1	0.37	
5/22/2017							4.8
5/23/2017	2.8						
5/24/2017		3.1	8.9	0.34	8.9	0.097	
10/9/2017							5.5
10/10/2017	1.9		7.4				
10/11/2017				0.43	7.2	0.098	
4/17/2018				0.23			2.9
4/18/2018	2.5	1.7	6.7		2.8	0.25	
8/14/2018	1.8						4.9
8/15/2018			4.8	0.38	6.8	0.13	
4/7/2019				0.19	4.7	0.13	
4/9/2019		0.55	4.6				
4/10/2019	2.1						5.7
9/24/2019	2.07						7.44
9/25/2019				0.385	3.46		
9/26/2019			3.65			0.0858	
3/23/2020		0.953	2.57				
3/26/2020	2.59			0.179	1.48	0.133	4.13
9/22/2020			2.58				
9/23/2020	2.05			0.343	2.05	0.128	8.99
4/19/2021		1.36	2				
4/20/2021					0.977		
4/21/2021	2.47			0.186		0.238	7.39
9/28/2021	2.41	0.395	2.22				
9/29/2021					2.25		
9/30/2021				0.213		0.093	9.43
4/25/2022							6.75
4/26/2022		0.956	2.36				
4/27/2022				0.131		0.165	
5/3/2022	2.43				1.17		
10/11/2022	2.65						7.16
10/12/2022			2.23				
10/17/2022				0.325	0.999	0.111	
4/10/2023	2.04						
4/11/2023							5.04
4/12/2023				0.166	0.83	0.26	
4/18/2023		0.468	1.67				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/6/2023 2:40 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
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)			
9/19/2016	<0.001							
9/20/2016		0.0012 (J)			0.00061 (J)			
9/21/2016			<0.001			<0.001		
11/29/2016	<0.001					<0.001		
11/30/2016		0.0006 (J)			0.00077 (J)			
12/1/2016			<0.001					
1/30/2017						<0.001		
1/31/2017	<0.001							0.0026
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)
5/24/2017		0.00072 (J)	<0.001					
5/25/2017				<0.001	0.00069 (J)			
4/17/2018	<0.001							<0.001
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					
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
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			
11/18/2019							<0.001	
1/30/2020							<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			
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
9/28/2021						<0.001	<0.001	
9/29/2021								<0.001
9/30/2021	<0.001	<0.001						
10/1/2021			<0.001	<0.001	<0.001			
4/25/2022				<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/6/2023 2:40 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
4/26/2022								<0.001
4/27/2022		0.0015	<0.001				<0.001	
5/2/2022	<0.001					<0.001		
10/11/2022	<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
4/18/2023				<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								<0.001
5/18/2016								<0.001
7/19/2016								<0.001
8/4/2016	0.00087 (J)							
9/19/2016								<0.001
9/21/2016	0.0012 (J)							
11/29/2016								<0.001
12/1/2016	0.0012 (J)							
1/31/2017	0.0025							<0.001
5/23/2017	0.0018 (J)							<0.001
4/17/2018	0.0016 (J)							<0.001
8/14/2018								<0.001
8/15/2018	0.0027							
4/7/2019			<0.001			<0.001	0.00049 (J)	
4/8/2019				<0.001	<0.001			
4/10/2019	<0.001							<0.001
7/31/2019			<0.001	<0.001	<0.001			
8/1/2019						<0.001	<0.001	
9/24/2019			<0.001			<0.001		<0.001
9/25/2019				<0.001			<0.001	
9/26/2019	0.00715				<0.001			
11/19/2019				<0.001	<0.001	<0.001		
11/20/2019			<0.001				<0.001	
1/29/2020							<0.001	
1/30/2020			<0.001	<0.001	<0.001	<0.001		
3/23/2020	<0.001		<0.001	<0.001				
3/25/2020					<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	
9/21/2020			<0.001					
9/22/2020				<0.001	<0.001	<0.001	<0.001	
9/23/2020								<0.001
9/24/2020	<0.001							
4/19/2021					<0.001	<0.001		
4/20/2021			<0.001	<0.001			<0.001	
4/22/2021	<0.001							<0.001
9/28/2021					<0.001		<0.001	
9/29/2021	<0.001	<0.001				<0.001		
9/30/2021								<0.001
10/4/2021			<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			
5/4/2022	<0.001							
10/11/2022								<0.001
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
10/18/2022							<0.001	
4/11/2023								<0.001
4/12/2023			<0.001	<0.001	<0.001	<0.001		
4/13/2023	<0.001	<0.001					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	<0.001	<0.001						<0.001
4/7/2019			<0.001					
4/8/2019				<0.001				
7/31/2019			<0.001					
8/1/2019	<0.001	<0.001		<0.001				<0.001
9/24/2019								<0.001
9/25/2019	<0.001	<0.001						
9/26/2019			<0.001					
9/27/2019				<0.001				
11/18/2019								<0.001
11/19/2019		<0.001	<0.001	<0.001				
11/20/2019	<0.001							
1/29/2020	<0.001	<0.001	<0.001					<0.001
1/30/2020				<0.001				
3/23/2020			<0.001	<0.001				
3/25/2020	<0.001	<0.001						
3/26/2020								<0.001
6/23/2020	<0.001		<0.001					<0.001
6/24/2020		<0.001		<0.001	<0.001	<0.001	<0.001	
9/21/2020	<0.001		<0.001					
9/22/2020		<0.001			<0.001			<0.001
9/23/2020						<0.001		
9/24/2020				<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	<0.001
9/28/2021					<0.001			
9/29/2021								<0.001
9/30/2021			<0.001					
10/1/2021				<0.001				
10/4/2021	<0.001	<0.001						
10/5/2021						<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	<0.001	
10/11/2022	<0.001							<0.001
10/13/2022		<0.001	<0.001			<0.001		
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		
4/18/2023				<0.001			<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	0.00095 (J)	<0.001		<0.001	<0.001		<0.001
3/30/2016						<0.001	
5/18/2016							<0.001
5/19/2016	0.00076 (J)	<0.001		<0.001	<0.001	<0.001	
7/19/2016	0.00099 (J)				<0.001		<0.001
7/20/2016				<0.001		<0.001	
8/4/2016			<0.001				
9/20/2016	0.0011 (J)		<0.001	<0.001	<0.001	<0.001	<0.001
11/29/2016	0.001 (J)			<0.001			<0.001
11/30/2016			<0.001		<0.001	<0.001	
1/31/2017	0.00085 (J)			0.00037 (J)			<0.001
2/1/2017		0.002 (J)	<0.001		<0.001	<0.001	
5/22/2017							<0.001
5/23/2017	<0.001						
5/24/2017		0.00063 (J)	<0.001	<0.001	<0.001	<0.001	
4/17/2018				<0.001			<0.001
4/18/2018	0.00076 (J)	<0.001	<0.001		<0.001	<0.001	
8/14/2018	0.0008 (J)						<0.001
8/15/2018			<0.001	<0.001	<0.001	<0.001	
4/7/2019				<0.001	<0.001	<0.001	
4/9/2019		<0.001	<0.001				
4/10/2019	0.00057 (J)						<0.001
9/24/2019	<0.001						<0.001
9/25/2019				<0.001	<0.001		
9/26/2019			<0.001			<0.001	
3/23/2020		<0.001	<0.001				
3/26/2020	<0.001			<0.001	<0.001	<0.001	<0.001
9/22/2020			<0.001				
9/23/2020	<0.001			<0.001	<0.001	<0.001	<0.001
4/19/2021		<0.001	<0.001				
4/20/2021					<0.001		
4/21/2021	<0.001			<0.001		<0.001	<0.001
9/28/2021	<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
4/26/2022		<0.001	<0.001				
4/27/2022				<0.001		<0.001	
5/3/2022	<0.001				<0.001		
10/11/2022	<0.001						<0.001
10/12/2022			<0.001				
10/17/2022				<0.001	<0.001	<0.001	
4/10/2023	<0.001						
4/11/2023							<0.001
4/12/2023				<0.001	<0.001	<0.001	
4/18/2023		<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/6/2023 2:40 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
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			
9/19/2016	17							
9/20/2016		110			160			
9/21/2016			600			63		
11/29/2016	14					100		
11/30/2016		90			150			
12/1/2016			430					
1/30/2017						130		
1/31/2017	25							160
2/1/2017		150		110	130			
2/2/2017			330					
5/22/2017						90		
5/23/2017	26							100
5/24/2017		110	370					
5/25/2017				120	110			
10/9/2017	29							
10/10/2017			580		120	72		
10/11/2017		94						
4/17/2018	34							180
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					
4/9/2019		78	390	120	110	50	16	
4/10/2019	28							150
8/1/2019							22.9	
9/23/2019						47.3	20.5	
9/24/2019	28.1							
9/26/2019		79.4	623		109			
11/18/2019							21.9	
1/30/2020							22.6	
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			
4/19/2021						57.9	26.8	
4/20/2021		140	267					
4/21/2021				112	96.8			
4/22/2021	44.4							126
9/28/2021						62.5	28.5	
9/29/2021								108

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/6/2023 2:40 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
9/30/2021	32.1	76.5						
10/1/2021			243	107	95.4			
4/25/2022				100	115			
4/26/2022								119
4/27/2022		112	198				27.5	
5/2/2022	36.3					52.6		
10/11/2022	27.4							
10/13/2022		72.9			96.1			
10/17/2022			146				25	
10/18/2022						49.9		
4/10/2023						53.8		
4/11/2023	33.2						27.6	
4/12/2023		90.9	185					
4/13/2023								102
4/18/2023				139	90.5			

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								3.6
5/18/2016								3.6
7/19/2016								3
8/4/2016	200							
9/19/2016								3.2
9/21/2016	180							
11/29/2016								3
12/1/2016	170							
1/31/2017	220							3.5
5/23/2017	230							3.6
10/10/2017	210							3.6
4/17/2018	250							3.3 (F1)
8/14/2018								3.2
8/15/2018	170							
4/7/2019			22			45	41	
4/8/2019				120	220			
4/10/2019	190							3
7/31/2019			14.7	130	188			
8/1/2019						36.4	42.7	
9/24/2019			14.5			34.5		3.2
9/25/2019				121			39.3	
9/26/2019	167				162			
11/19/2019				123	185	33.4		
11/20/2019			12.4				34.5	
1/29/2020							34.2	
1/30/2020			12.5	105	212	45.5		
3/23/2020	114		10.7	87.7				
3/25/2020					350	42.7	39.3	
3/26/2020								3.2
6/22/2020			12.1	90.7				
6/23/2020					194	37.8	34.1	
9/21/2020			11.3					
9/22/2020				106	131	32	37.4	
9/23/2020								3.32
9/24/2020	118							
4/19/2021					147	52.9		
4/20/2021			11.4	80.3			28	
4/22/2021	84.3							3.44
9/28/2021					146		28.4	
9/29/2021	88.8	151				30.4		
9/30/2021								3.52
10/4/2021			13.1	87.3				
4/26/2022		55.5	9.38	70.4		47.4	28.5	
5/2/2022								3.39
5/3/2022					122			
5/4/2022	82.3							
10/11/2022								3.16
10/12/2022	84.3	134	9.16	71.4	120	34.1		
10/18/2022							31.8	
4/11/2023								3.41
4/12/2023			9.78	59.3	115	43.9		
4/13/2023	97	48.3					26.5	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	48	72						5.7
4/7/2019			120					
4/8/2019				370				
7/31/2019			135					
8/1/2019	54.8	87.5		393				4.42
9/24/2019								4.51
9/25/2019	48.1	81.2						
9/26/2019			134					
9/27/2019				433				
11/18/2019								4.63
11/19/2019		83	127	481				
11/20/2019	45.2							
1/29/2020	44.6	76.2	12.4					5.78
1/30/2020				563				
3/23/2020			136	484				
3/25/2020	45.8	84.3						
3/26/2020								6.92
6/23/2020	48.4		139					5.27
6/24/2020		100		557	506	538	50.5	
9/21/2020	49.9		31.7					
9/22/2020		84.1			403			5.03
9/23/2020						589		
9/24/2020				543			44.6	
4/20/2021	49.2		118					
4/21/2021		101			393			
4/22/2021				640		282	79.7	7.09
9/28/2021					143			
9/29/2021								5.81
9/30/2021			132					
10/1/2021				561				
10/4/2021	41.2	79.9						
10/5/2021						325	95.1	
5/2/2022			130					
5/3/2022		87			222			6.8
5/4/2022	43.1			504		239	85.1	
10/11/2022	46							4.33
10/13/2022		79.2	114			492		
10/18/2022				354	242		75.2	
4/10/2023								6.57
4/11/2023	47	80.1						
4/12/2023			124					
4/13/2023					122	261		
4/18/2023				396			61.6	

Time Series

Constituent: Calcium, total (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	290	130		99	280		61
3/30/2016						63	
5/18/2016							76
5/19/2016	290	130		90	410	85	
7/19/2016	270				150		82
7/20/2016				62		70	
8/4/2016			480				
9/20/2016	260		480	74	360	73	110
11/29/2016	300			64			180
11/30/2016			340		490	69	
1/31/2017	290			100			160
2/1/2017		260	480		170	61	
5/22/2017							190
5/23/2017	310						
5/24/2017		160	330	97	260	88	
10/9/2017							190
10/10/2017	290		300				
10/11/2017				86	190	76	
4/17/2018				89			140
4/18/2018	300	150	330		93	44	
8/14/2018	270						260
8/15/2018			220	74	240	70	
4/7/2019				98	180	68	
4/9/2019		120	180				
4/10/2019	250						310
9/24/2019	286						418
9/25/2019				63.3	134		
9/26/2019			180			69	
3/23/2020		92.3	129				
3/26/2020	264			88.6	83.9	60.7	453
9/22/2020			138				
9/23/2020	277			76.4	102	69.3	445
4/19/2021		109	111				
4/20/2021					78.6		
4/21/2021	154			91.4		72.1	421
9/28/2021	281	135	138				
9/29/2021					95		
9/30/2021				90		81.7	397
4/25/2022							323
4/26/2022		124	111				
4/27/2022				75.3		59.4	
5/3/2022	278				74.5		
10/11/2022	299						291
10/12/2022			113				
10/17/2022				73	65.5	66.7	
4/10/2023	210						
4/11/2023							132
4/12/2023				75.5	65	50	
4/18/2023		90.6	102				

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/6/2023 2:40 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
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			
9/19/2016	1.4 (J)							
9/20/2016		110			91			
9/21/2016			510			36		
11/29/2016	3.5					170		
11/30/2016		91			98			
12/1/2016			390					
1/30/2017						130		
1/31/2017	2.9							190
2/1/2017		150		89	120			
2/2/2017			290					
5/22/2017						39		
5/23/2017	4							110
5/24/2017		100	310					
5/25/2017				93	90			
10/9/2017	3.8							
10/10/2017			460		83	13		
10/11/2017		86						
4/17/2018	2.6							140
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					
4/9/2019		68	310	110	110	5.6	27	
4/10/2019	2.8							75
8/1/2019							36.6	
9/23/2019						15	41.7	
9/24/2019	2.59							
9/26/2019		72.5	399		84.3			
11/18/2019							47.4	
1/30/2020							47.6	
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			
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
9/28/2021						1.82	56.5	
9/29/2021								26.1

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/6/2023 2:40 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
9/30/2021	2.27	60.9						
10/1/2021			76	57.3	73.9			
4/25/2022				47.8	46.4			
4/26/2022								43.5
4/27/2022		101	59				60.9	
5/2/2022	2.25					2.18		
10/11/2022	2.38							
10/13/2022		69.3			59.9			
10/17/2022			28.2				65.4	
10/18/2022						2.82		
4/10/2023						1.94		
4/11/2023	1.87						71.3	
4/12/2023		83.4	33.8					
4/13/2023								78.1
4/18/2023				26.6	58			

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								0.89 (J)
5/18/2016								<2
7/19/2016								<2
8/4/2016	210							
9/19/2016								<2
9/21/2016	220							
11/29/2016								2.2
12/1/2016	220							
1/31/2017	230							1.1 (J)
5/23/2017	240							1.9 (J)
10/10/2017	220							1.8 (J)
4/17/2018	270							0.93 (J)
8/14/2018								0.63 (J)
8/15/2018	210							
4/7/2019			14			16	31	
4/8/2019				130	240			
4/10/2019	210							<2
7/31/2019			8.91	107	166			
8/1/2019						14.9	31.2	
9/24/2019			8.58			15.5		1.05
9/25/2019				102			30.1	
9/26/2019	174				143			
11/19/2019				107	179	17.3		
11/20/2019			8.43				25.1	
1/29/2020							12.6	
1/30/2020			7.65	76	196	12.3		
3/23/2020	102		5.96	73.3				
3/25/2020					170	12.6	19.1	
3/26/2020								0.969
6/22/2020			5.34	58.5				
6/23/2020					184	12.8	17.5	
9/21/2020			5.56					
9/22/2020				77.2	126	13.7	23.4	
9/23/2020								1.02
9/24/2020	110							
4/19/2021					129	12.1		
4/20/2021			6.65	56.7			9.31	
4/22/2021	54							1.1
9/28/2021					123		11.2	
9/29/2021	56.3	165				13.1		
9/30/2021								1.03
10/4/2021			5.7	73.6				
4/26/2022		68.9	5.46	45.9		12.4	11.2	
5/2/2022								1.2
5/3/2022					103			
5/4/2022	55.5							
10/11/2022								1.24
10/12/2022	87.6	184	4.78	45.3	109	12.5		
10/18/2022							22.9	
4/11/2023								1.14
4/12/2023			4.91	32.2	102	12.5		
4/13/2023	46.3	63.1					9.32	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	9.4	28						<2
4/7/2019			19					
4/8/2019				350				
7/31/2019			17.2					
8/1/2019	9.17	30.8		378				1.85
9/24/2019								2.16
9/25/2019	8.12	36.6						
9/26/2019			17.3					
9/27/2019				349				
11/18/2019								2.16
11/19/2019		36.5	18.5	359				
11/20/2019	10.1							
1/29/2020	9.51	38	17.8					2.46
1/30/2020				460				
3/23/2020			19.7	454				
3/25/2020	9.86	21.1						
3/26/2020								2.62
6/23/2020	9.81		10.5					1.81
6/24/2020		33.2		432	338	424	4.45	
9/21/2020	10.4		13.6					
9/22/2020		37.6			270			1.97
9/23/2020						402		
9/24/2020				401			6.27	
4/20/2021	7.83		13					
4/21/2021		25			267			
4/22/2021				483		229	5.27	2.33
9/28/2021					60.9			
9/29/2021								1.75
9/30/2021			10.6					
10/1/2021				434				
10/4/2021	4.98	16.9						
10/5/2021						277	11.9	
5/2/2022			10.8					
5/3/2022		19.2			130			2.01
5/4/2022	5.99			469		218	12	
10/11/2022	5.36							1.85
10/13/2022		27.5	11			330		
10/18/2022				43.4	28.6		19.3	
4/10/2023								1.68
4/11/2023	5.15	19.9						
4/12/2023			11.6					
4/13/2023					75.4	232		
4/18/2023				299			3.19	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	460	71		52	210		66
3/30/2016						7.9	
5/18/2016							78
5/19/2016	430	41		45	180	14	
7/19/2016	400				67		120
7/20/2016				35		51	
8/4/2016			340				
9/20/2016	500		350	34	280	54	180
11/29/2016	560			39			390
11/30/2016			240		440	47	
1/31/2017	490			48			300
2/1/2017		190	340		110	58	
5/22/2017							310
5/23/2017	500						
5/24/2017		120	310	44	150	28	
10/9/2017							310
10/10/2017	470		230				
10/11/2017				33	44	45	
4/17/2018				31			180
4/18/2018	480	90	290		26	32	
8/14/2018	470						430
8/15/2018			180	24	110	45	
4/7/2019				24	81	6	
4/9/2019		43	190				
4/10/2019	430						440
9/24/2019	469						503
9/25/2019				16.4	25.5		
9/26/2019			142			44.8	
3/23/2020		52.3	159				
3/26/2020	504			19.3	11.4	13.4	526
9/22/2020			88.7				
9/23/2020	478			20.5	10.3	31.5	421
4/19/2021		52.2	98.7				
4/20/2021					5.61		
4/21/2021	493			12.7		16.4	329
9/28/2021	443	20.3	102				
9/29/2021					5.63		
9/30/2021				15.1		4.61	265
4/25/2022							204
4/26/2022		39.1	115				
4/27/2022				10.6		10.3	
5/3/2022	457				3.61		
10/11/2022	489						188
10/12/2022			82.5				
10/17/2022				13.4	3.31	30.2	
4/10/2023	397						
4/11/2023							131
4/12/2023				9.31	3.03	13.8	
4/18/2023		20.4	95.5				

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/6/2023 2:40 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
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			
9/19/2016	<0.001							
9/20/2016		<0.001			<0.001			
9/21/2016			<0.001			<0.001		
11/29/2016	<0.001					<0.001		
11/30/2016		<0.001			<0.001			
12/1/2016			<0.001					
1/30/2017						<0.001		
1/31/2017	<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
5/24/2017		<0.001	<0.001					
5/25/2017				0.0023 (J)	0.0011 (J)			
4/17/2018	<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					
4/9/2019		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4/10/2019	<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			
11/18/2019							<0.001	
1/30/2020							<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			
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
9/28/2021						<0.001	<0.001	
9/29/2021								<0.001
9/30/2021	<0.001	<0.001						
10/1/2021			<0.001	0.001	0.001			
4/25/2022				0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/6/2023 2:40 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
4/26/2022								<0.001
4/27/2022		<0.001	<0.001				0.001	
5/2/2022	<0.001					<0.001		
10/11/2022	<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
4/18/2023				0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								<0.001
5/18/2016								<0.001
7/19/2016								<0.001
8/4/2016	<0.001							
9/19/2016								<0.001
9/21/2016	<0.001							
11/29/2016								<0.001
12/1/2016	<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
8/15/2018	<0.001							
4/7/2019			<0.001			<0.001	<0.001	
4/8/2019				<0.001	<0.001			
4/10/2019	<0.001							<0.001
7/31/2019			<0.001	<0.001	<0.001			
8/1/2019						<0.001	0.0011	
9/24/2019			0.00102			<0.001		<0.001
9/25/2019				<0.001			0.00106	
9/26/2019	<0.001				<0.001			
11/19/2019				<0.001	<0.001	0.00139		
11/20/2019			<0.001				<0.001	
1/29/2020							<0.001	
1/30/2020			<0.001	<0.001	<0.001	<0.001		
3/23/2020	<0.001		0.00131	0.00123				
3/25/2020					<0.001	0.00107	0.0011	
3/26/2020								<0.001
6/22/2020			<0.001	<0.001				
6/23/2020					<0.001	0.001	0.001	
9/21/2020			0.002					
9/22/2020				<0.001	<0.001	<0.001	<0.001	
9/23/2020								<0.001
9/24/2020	<0.001							
4/19/2021					<0.001	<0.001		
4/20/2021			0.001	<0.001			<0.001	
4/22/2021	<0.001							<0.001
9/28/2021					<0.001		<0.001	
9/29/2021	<0.001	<0.001				<0.001		
9/30/2021								<0.001
10/4/2021			<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			
5/4/2022	<0.001							
10/11/2022								<0.001
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
10/18/2022							<0.001	
4/11/2023								<0.001
4/12/2023			<0.001	<0.001	<0.001	<0.001		
4/13/2023	<0.001	<0.001					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	<0.001	<0.001						<0.001
4/7/2019			<0.001					
4/8/2019				<0.001				
7/31/2019			<0.001					
8/1/2019	<0.001	<0.001		<0.001				<0.001
9/24/2019								0.00105
9/25/2019	<0.001	<0.001						
9/26/2019			<0.001					
9/27/2019				<0.001				
11/18/2019								<0.001
11/19/2019		0.00114	<0.001	<0.001				
11/20/2019	0.00191							
1/29/2020	<0.001	0.00192	<0.001					0.00254
1/30/2020				<0.001				
3/23/2020			<0.001	<0.001				
3/25/2020	<0.001	0.0013						
3/26/2020								0.00111
6/23/2020	0.001		<0.001					<0.001
6/24/2020		<0.001		<0.001	0.002	0.001	0.001	
9/21/2020	<0.001		<0.001					
9/22/2020		<0.001			<0.001			<0.001
9/23/2020						<0.001		
9/24/2020				<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	<0.001
9/28/2021					<0.001			
9/29/2021								<0.001
9/30/2021			<0.001					
10/1/2021				<0.001				
10/4/2021	<0.001	0.001						
10/5/2021						<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	0.001	
10/11/2022	<0.001							<0.001
10/13/2022		0.001	<0.001			<0.001		
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		
4/18/2023				<0.001			0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	<0.001	<0.001		<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	<0.001	<0.001	
7/19/2016	<0.001				<0.001		<0.001
7/20/2016				<0.001		<0.001	
8/4/2016			<0.001				
9/20/2016	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
11/29/2016	<0.001			<0.001			<0.001
11/30/2016			<0.001		<0.001	<0.001	
1/31/2017	<0.001			<0.001			<0.001
2/1/2017		<0.001	<0.001		<0.001	<0.001	
5/22/2017							<0.001
5/23/2017	<0.001						
5/24/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
4/17/2018				<0.001			<0.001
4/18/2018	<0.001	<0.001	<0.001		<0.001	<0.001	
8/14/2018	<0.001						<0.001
8/15/2018			<0.001	<0.001	<0.001	<0.001	
4/7/2019				<0.001	<0.001	<0.001	
4/9/2019		<0.001	<0.001				
4/10/2019	<0.001						<0.001
9/24/2019	<0.001						<0.001
9/25/2019				<0.001	<0.001		
9/26/2019			<0.001			<0.001	
3/23/2020		<0.001	<0.001				
3/26/2020	<0.001			<0.001	<0.001	<0.001	<0.001
9/22/2020			<0.001				
9/23/2020	<0.001			<0.001	<0.001	<0.001	<0.001
4/19/2021		<0.001	<0.001				
4/20/2021					<0.001		
4/21/2021	<0.001			<0.001		<0.001	<0.001
9/28/2021	<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
4/26/2022		<0.001	<0.001				
4/27/2022				<0.001		<0.001	
5/3/2022	<0.001				<0.001		
10/11/2022	<0.001						<0.001
10/12/2022			<0.001				
10/17/2022				<0.001	<0.001	<0.001	
4/10/2023	<0.001						
4/11/2023							<0.001
4/12/2023				<0.001	<0.001	<0.001	
4/18/2023		<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/6/2023 2:40 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
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			
9/19/2016	0.0057							
9/20/2016		0.0097			0.0038			
9/21/2016			<0.001			0.00061 (J)		
11/29/2016	0.006					0.00088 (J)		
11/30/2016		0.0077			0.0044			
12/1/2016			<0.001					
1/30/2017						0.00053 (J)		
1/31/2017	0.0072							0.26
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
5/24/2017		0.0058	<0.001					
5/25/2017				<0.001	0.0028			
4/17/2018	0.011							0.055
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					
4/9/2019		0.0047	<0.001	<0.001	0.0074	<0.001	0.011	
4/10/2019	0.0086							0.043
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			
11/18/2019							0.012	
1/30/2020							0.0116	
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			
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
9/28/2021						<0.001	0.011	
9/29/2021								0.014
9/30/2021	0.008	0.003						
10/1/2021			<0.001	<0.001	<0.001			
4/25/2022				<0.001	0.013			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/6/2023 2:40 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
4/26/2022								0.014
4/27/2022		0.006	<0.001				0.011	
5/2/2022	0.009					<0.001		
10/11/2022	0.007							
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
4/18/2023				<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								0.012
5/18/2016								0.013
7/19/2016								0.011
8/4/2016	0.076							
9/19/2016								0.011
9/21/2016	0.085							
11/29/2016								0.011
12/1/2016	0.079							
1/31/2017	0.12							0.012
5/23/2017	0.14							0.012
4/17/2018	0.15							0.012
8/14/2018								0.011
8/15/2018	0.12							
4/7/2019			0.014			0.0046	0.014	
4/8/2019				0.03	0.042			
4/10/2019	0.11							0.01
7/31/2019			0.0092	0.0238	0.0301			
8/1/2019						<0.001	0.00845	
9/24/2019			0.00544			<0.001		0.00991
9/25/2019				0.0223			0.00723	
9/26/2019	0.111				0.0322			
11/19/2019				0.02	0.0195	<0.001		
11/20/2019			0.00477				0.0068	
1/29/2020							0.00444	
1/30/2020			0.00218	0.0181	0.017	0.0049		
3/23/2020	0.057		0.00172	0.0173				
3/25/2020					0.0207	0.00407	0.00503	
3/26/2020								0.0108
6/22/2020			0.004	0.015				
6/23/2020					0.016	<0.001	0.005	
9/21/2020			<0.001					
9/22/2020				0.022	0.021	<0.001	0.006	
9/23/2020								0.01
9/24/2020	0.083							
4/19/2021					0.016	0.002		
4/20/2021			<0.001	0.012			0.001	
4/22/2021	0.036							0.01
9/28/2021					0.015		0.001	
9/29/2021	0.039	<0.001				<0.001		
9/30/2021								0.011
10/4/2021			0.001	0.016				
4/26/2022		<0.001	<0.001	0.011		0.001	0.001	
5/2/2022								0.01
5/3/2022					0.017			
5/4/2022	0.048							
10/11/2022								0.01
10/12/2022	0.042	<0.001	0.001	0.016	0.03	<0.001		
10/18/2022							<0.001	
4/11/2023								0.01
4/12/2023			<0.001	0.006	0.016	<0.001		
4/13/2023	0.035	<0.001					0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	0.0027	0.0034						0.031
4/7/2019			0.0091					
4/8/2019				0.00059 (J)				
7/31/2019			0.00257					
8/1/2019	0.00193	<0.001		0.00462				0.0257
9/24/2019								0.0252
9/25/2019	<0.001	<0.001						
9/26/2019			0.00244					
9/27/2019				0.00371				
11/18/2019								0.0296
11/19/2019		0.00208	0.00159	0.00464				
11/20/2019	0.0028							
1/29/2020	0.00156	0.00289	0.00187					0.0223
1/30/2020				0.011				
3/23/2020			0.00235	0.0112				
3/25/2020	0.00384	0.00464						
3/26/2020								0.0263
6/23/2020	0.006		0.003					0.028
6/24/2020		0.005		0.011	<0.001	0.021	<0.001	
9/21/2020	<0.001		0.002					
9/22/2020		<0.001			0.003			0.03
9/23/2020						0.018		
9/24/2020				0.009			<0.001	
4/20/2021	<0.001		0.003					
4/21/2021		0.003			0.005			
4/22/2021				0.014		<0.001	<0.001	0.019
9/28/2021					<0.001			
9/29/2021								0.026
9/30/2021			0.003					
10/1/2021				0.011				
10/4/2021	0.006	0.005						
10/5/2021						0.003	<0.001	
5/2/2022			0.002					
5/3/2022		0.004			0.002			0.021
5/4/2022	0.005			0.016		0.001	<0.001	
10/11/2022	<0.001							0.03
10/13/2022		<0.001	0.001			0.011		
10/18/2022				<0.001	<0.001		<0.001	
4/10/2023								0.021
4/11/2023	0.003	0.001						
4/12/2023			<0.001					
4/13/2023					0.004	0.001		
4/18/2023				<0.001			<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	0.99	0.027		0.0048	0.0016 (J)		<0.001
3/30/2016						0.0031	
5/18/2016							<0.001
5/19/2016	1	0.023		0.015	0.0035	0.0024 (J)	
7/19/2016	0.99				0.0018 (J)		<0.001
7/20/2016				0.012		0.002 (J)	
8/4/2016			0.036				
9/20/2016	1		0.015	0.012	0.0037	0.00096 (J)	<0.001
11/29/2016	1			0.012			<0.001
11/30/2016			0.018		0.0082	0.00065 (J)	
1/31/2017	0.98			0.013			<0.001
2/1/2017		0.018	0.014		0.0017 (J)	0.001 (J)	
5/22/2017							<0.001
5/23/2017	1						
5/24/2017		0.031	0.032	0.016	0.0043	0.0041	
4/17/2018				0.0055			<0.001
4/18/2018	0.98	0.03	0.0078		0.00062 (J)	<0.001	
8/14/2018	0.9						<0.001
8/15/2018			0.009	0.012	0.0036	<0.001	
4/7/2019				0.0042	0.0033	0.0025	
4/9/2019		0.016	0.012				
4/10/2019	0.82						<0.001
9/24/2019	0.856						<0.001
9/25/2019				0.0105	0.00317		
9/26/2019			0.0275			<0.001	
3/23/2020		0.0154	0.0133				
3/26/2020	0.819			0.00254	<0.001	0.00223	<0.001
9/22/2020			0.013				
9/23/2020	0.868			0.011	0.001	<0.001	<0.001
4/19/2021		0.017	0.012				
4/20/2021					<0.001		
4/21/2021	0.892			<0.001		0.002	<0.001
9/28/2021	0.816	0.018	0.013				
9/29/2021					0.001		
9/30/2021				0.002		0.002	<0.001
4/25/2022							<0.001
4/26/2022		0.023	0.015				
4/27/2022				<0.001		0.001	
5/3/2022	0.87				0.001		
10/11/2022	0.982						<0.001
10/12/2022			0.014				
10/17/2022				0.014	<0.001	<0.001	
4/10/2023	0.58						
4/11/2023							<0.001
4/12/2023				0.001	<0.001	<0.001	
4/18/2023		0.013	0.014				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/6/2023 2:40 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
3/29/2016	0.584							
3/30/2016		0.279 (U)	0.253 (U)	0.794				
5/18/2016	0.494	0.431						
5/19/2016			1.12	0.369 (U)		0.403		
5/20/2016								1.03
7/19/2016	0.607							
7/20/2016		0.784	0.875			0.743		
8/4/2016					0.406 (U)			
9/19/2016	0.533							
9/20/2016		0.122 (U)			0.351 (U)			
9/21/2016			1.08			0.358 (U)		
11/29/2016	0.205 (U)					1.04		
11/30/2016		0.489			0.208 (U)			
12/1/2016			1.24					
3/27/2017						0.306 (U)		
3/28/2017	0.489							
3/29/2017		0.312 (U)	1.14					0.502
3/30/2017				0.0806 (U)	0.4			
5/22/2017						0.351 (U)		
5/23/2017	-0.112 (U)							0.375 (U)
5/24/2017		0.256 (U)	0.684					
5/25/2017				0.322 (U)				
4/17/2018	0.27 (U)							0.931
4/18/2018			0.863			0.378 (U)		
4/19/2018		0.282 (U)		0.263 (U)	0.582			
8/13/2018						0.318 (U)		
8/14/2018	0.48	0.423			0.424			
8/15/2018			0.855					
4/9/2019		0.257 (U)	0.679	0.228 (U)	0.429	0.374	0.333 (U)	
4/10/2019	0.421							0.757
10/15/2019	1.36					1.53	1.67	
12/16/2019							1.21	
2/20/2020							0.43	
4/17/2020	0.645	0.275	1.19	0.0635	0.565	0.478	1.14	1.02
7/20/2020							0.866 (U)	
10/19/2020	0.735 (U)	0.485 (U)	0.536 (U)		0.0555 (U)		1.31 (U)	
5/17/2021		0.253	0.558					
5/19/2021	1.49	0.0595 (D)	0.24165 (D)	0.938	0.237			2.12
5/21/2021	0.71605 (D)			0.413 (D)	0.18145 (D)	0.371	0.761	1.7575 (D)
5/24/2021						0.5815 (D)	0.6145 (D)	
10/22/2021	0.788	0.317	1.66	1.49	0.426	1.64	1.82	1.63
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	1.02					1.15		
11/10/2022			0.889 (U)				0.91 (U)	
11/11/2022	0.416 (U)	0.474 (U)			1.4 (U)	0.381 (U)		
5/4/2023	0.827 (U)	0.983 (U)	1.86			1.24	1.23 (U)	0.331 (U)
5/11/2023				0.405 (U)	1.42 (U)			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								0.605
5/18/2016								0.43
7/19/2016								0.393 (U)
8/4/2016	1.21							
9/19/2016								0.0786 (U)
9/21/2016	0.817							
11/29/2016								0.249 (U)
12/1/2016	0.983							
3/28/2017								0.698
3/29/2017	0.648							
5/23/2017	0.587							0.223 (U)
4/17/2018	0.215 (U)							0.142 (U)
8/14/2018								0.392 (U)
8/15/2018	0.739							
4/7/2019			0.217 (U)			0.636	0.53	
4/8/2019				1.17	0.788			
4/10/2019	0.67							0.166 (U)
10/15/2019			0.672			0.711	0.491	0.683
12/16/2019			0.851	1.18	0.876	0.827	0.542	
2/20/2020			0.381	0.581	1.09	1.16	0.702	
4/16/2020	1.19		0.738	0.697				
4/17/2020					0.663	0.619	0.692	0.499
7/20/2020			0.623 (U)	1.2 (U)	1.24 (U)	0.918 (U)	0.771 (U)	
10/19/2020	0.544 (U)		1.28 (U)	2.2	1.01 (U)	0.228 (U)	0.523 (U)	1.43 (U)
5/19/2021	0.472							0.551
5/21/2021	0.236 (D)		0.784	0.303	-0.113	0.274	0.131	0.8045 (D)
5/24/2021			0.916 (D)	0.3915 (D)	0.139 (D)	0.336 (D)	0.034 (D)	
10/22/2021	0.527							0.427
10/27/2021		0.996			0.668	0.85	0.849	
10/28/2021			0.401	0.585				
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)			
5/4/2022	0.577 (U)							
11/10/2022							0.0626 (U)	
11/11/2022	0.898 (U)	1.84	0.673 (U)	1.1 (U)	0.979 (U)	0.283 (U)		0.801 (U)
5/4/2023	1.32	1.33 (U)	0.691 (U)	0.986 (U)	0.0709 (U)	0.809 (U)	0.597 (U)	0.635 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	0.447 (U)	0.219 (U)						0.365 (U)
4/7/2019			0.733					
4/8/2019				1.15				
10/15/2019	0.838							1.66
12/16/2019	0.817	1.19	0.692	1.26 (U)				0.0662
2/20/2020	0.563	0.306	0.761	0.977				0.186
4/16/2020			1.04 (U)	1.47 (U)				
4/17/2020	0.69	0.374						0.585
7/20/2020	1.33 (U)	0.519 (U)	0.591 (U)	1.46 (U)	1.03 (U)	0.842 (U)	0.35 (U)	0.33 (U)
10/19/2020	1.03 (U)	0.476 (U)	1.13 (U)	2.19 (U)	0.831 (U)	0.897 (U)	0.316 (U)	1.17 (U)
5/17/2021			0.265					
5/19/2021		-0.123	0.2036 (D)	0.539	1.57	1.83	0.976	0.881
5/20/2021		0.446		0.24		0	0.145	
5/21/2021	0.332	0.446		0.779	0.957 (D)	1.83	1.12	0.5063 (D)
5/24/2021	0.466 (D)							
10/22/2021			1.01	1.64				0.414
10/27/2021					0.886			
10/28/2021	0.89	0.414				0.782	0.743	
5/3/2022	0.85 (U)	0.696 (U)	0.463 (U)	1.12	1.28 (U)	0.608 (U)	0.406 (U)	1.03
11/10/2022					1.34 (U)		0.716 (U)	
11/11/2022	1.5 (U)	0.721 (U)	1.03 (U)	0.803 (U)		0.6 (U)		0.325 (U)
5/3/2023	0.209 (U)	0.775 (U)	1.01 (U)		0.763 (U)	1.51 (U)		
5/4/2023								0.678 (U)
5/11/2023				1.27 (U)			0.843	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	0.583	0.842		0.859	0.414		0.65
3/30/2016						0.206 (U)	
5/18/2016							0.982
5/19/2016	0.599	0.738 (U)		0.528	0.602	-0.139 (U)	
7/19/2016	0.908				0.454		1.07
7/20/2016				0.313 (U)		0.542	
8/4/2016			0.469				
9/20/2016	0.684		0.529	0.495 (U)	1.01	0.937	1.02
11/29/2016	1.2			0.19 (U)			1.55
11/30/2016			0.267 (U)		0.4 (U)	0.401 (U)	
3/28/2017	0.803	0.472	1.04				0.608
3/29/2017				0.258 (U)	0.598	0.375 (U)	
5/22/2017							0.614
5/23/2017	0.673						
5/24/2017		0.532	0.288 (U)	0.167 (U)	0.476	-0.0523 (U)	
4/17/2018				0.258 (U)			0.732
4/18/2018	0.461	0.652	0.488		0.283 (U)	0.124 (U)	
8/14/2018	0.985						1.21
8/15/2018			0.469	0.666	1.14	0.434	
4/7/2019				0.198 (U)	0.0178 (U)	0.0561 (U)	
4/9/2019		1.02	0.511				
4/10/2019	1.25						1.42
10/15/2019	0.977				2.31		1.46
4/16/2020		0.756	1.04				
4/17/2020	0.901			0.236	1.12	0.732	1.27
10/19/2020	0.784 (U)		0.23 (U)	0.351 (U)	0.466 (U)	0.0686 (U)	1.24 (U)
5/17/2021					0.568		
5/19/2021	0.652			0.295	0.447 (D)	1.08	0.689
5/20/2021							0.559
5/21/2021	0.447 (D)	1.17	1.31	0.3155 (D)		0.6505 (D)	1.25
5/24/2021		0.585 (D)	0.62395 (D)				
10/22/2021	1.03	1.46	11.3	0.584	10.9	0.92	2.3
4/26/2022		1.13 (U)	0.441 (U)				
4/27/2022				0.441 (U)		0.528 (U)	1.34 (U)
5/3/2022	1.04				1.14		
11/10/2022				0.671 (U)	0.701 (U)		
11/11/2022	1.35 (U)		0.844 (U)				1.38 (U)
11/15/2022						0.338 (U)	
5/4/2023	1.54 (U)			0.707 (U)	1.31 (U)	0.31 (U)	1.36 (U)
5/11/2023		1.48	1.3				

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:40 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
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)			
9/19/2016	<0.125							
9/20/2016		0.06 (J)			0.04 (J)			
9/21/2016			1.8			0.08 (J)		
11/29/2016	<0.125					0.06 (J)		
11/30/2016		0.04 (J)			<0.125			
12/1/2016			1.7					
1/30/2017						0.06 (J)		
1/31/2017	0.04 (J)							0.04 (J)
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)
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		
10/11/2017		0.06 (J)						
4/17/2018	0.07 (J)							0.15
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					
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
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			
11/18/2019							<0.125	
1/30/2020							<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			
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

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:40 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
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		
10/11/2022	<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
4/18/2023				<0.125	<0.125			

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:40 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								<0.125
5/18/2016								<0.125
7/19/2016								<0.125
8/4/2016	0.05 (J)							
9/19/2016								<0.125
9/21/2016	0.05 (J)							
11/29/2016								<0.125
12/1/2016	0.05 (J)							
1/31/2017	<0.125							<0.125
5/23/2017	0.04 (J)							<0.125
10/10/2017	0.04 (J)							<0.125
4/17/2018	0.05 (J)							<0.125
8/14/2018								0.04 (J)
8/15/2018	0.05 (J)							
4/7/2019			0.06 (J)			0.11	0.04 (J)	
4/8/2019				0.09 (J)	1.1			
4/10/2019	0.06 (J)							<0.125
7/31/2019			<0.125	<0.125	0.342			
8/1/2019						<0.125	<0.125	
9/24/2019			<0.125			<0.125		<0.125
9/25/2019				<0.125			<0.125	
9/26/2019	<0.125				0.339			
11/19/2019				<0.125	1.48	0.135		
11/20/2019			<0.125				<0.125	
1/29/2020							<0.125	
1/30/2020			<0.125	0.192	1.71	0.271		
3/23/2020	<0.125		<0.125	0.199				
3/25/2020					1.21	0.129	<0.125	
3/26/2020								<0.125
6/22/2020			<0.125	<0.125				
6/23/2020					1.32	<0.125	<0.125	
9/21/2020			<0.125					
9/22/2020				<0.125	0.322	<0.125	<0.125	
9/23/2020								<0.125
9/24/2020	<0.125							
4/19/2021					1.37	0.138		
4/20/2021			<0.125	<0.125			<0.125	
4/22/2021	<0.125							<0.125
9/28/2021					1.96		<0.125	
9/29/2021	0.136	<0.125				0.143		
9/30/2021								<0.125
10/4/2021			<0.125	<0.125				
4/26/2022		<0.125	<0.125	<0.125		0.146	<0.125	
5/2/2022								<0.125
5/3/2022					1.69			
5/4/2022	<0.125							
10/11/2022								<0.125
10/12/2022	<0.125	<0.125	<0.125	<0.125	0.472	<0.125		
10/18/2022							<0.125	
4/11/2023								<0.125
4/12/2023			<0.125	<0.125	1.43	<0.125		
4/13/2023	<0.125	<0.125					<0.125	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	0.14	0.09 (J)						0.04 (J)
4/7/2019			0.11					
4/8/2019				3.2				
7/31/2019			<0.125					
8/1/2019	0.203	0.138		2.07				<0.125
9/24/2019								<0.125
9/25/2019	0.16	0.125						
9/26/2019			<0.125					
9/27/2019				2.96				
11/18/2019								<0.125
11/19/2019		<1.25	<0.125	0.812				
11/20/2019	0.155							
1/29/2020	0.357	0.229	0.206					<0.125
1/30/2020				2.05				
3/23/2020			0.246	1.43				
3/25/2020	0.158	0.169						
3/26/2020								<0.125
6/23/2020	<0.125		<0.125					<0.125
6/24/2020		<1.25		1.12	0.345	0.576	0.144	
9/21/2020	0.147		<0.125					
9/22/2020		0.127			0.969			<0.125
9/23/2020						0.72		
9/24/2020				1.76			0.17	
4/20/2021	0.164		<0.125					
4/21/2021		0.163			0.713			
4/22/2021				1.69		1.05	0.173	<0.125
9/28/2021					1.31			
9/29/2021								<0.125
9/30/2021			<0.125					
10/1/2021				2.29				
10/4/2021	<0.125	<1.25						
10/5/2021						0.759	<0.125	
5/2/2022			<0.125					
5/3/2022		<1.25			0.884			<0.125
5/4/2022	<0.125			2.21		0.337	<0.125	
10/11/2022	0.182							<0.125
10/13/2022		<1.25	<0.125			0.563		
10/18/2022				2.48	0.321		0.142	
4/10/2023								<0.125
4/11/2023	<0.125	<1.25						
4/12/2023			<0.125					
4/13/2023					1.11	0.719		
4/18/2023				2.02			0.144	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	0.31	0.1		0.12	0.79		0.12
3/30/2016						0.13	
5/18/2016							0.12
5/19/2016	0.34	0.15		0.14	1.1	0.16	
7/19/2016	0.37				1.7		0.12
7/20/2016				0.24		0.16	
8/4/2016			1.2				
9/20/2016	0.38		1.7	0.23	1.6	0.14	0.11
11/29/2016	0.34			0.17			0.09 (J)
11/30/2016			1.5		1.4	0.12	
1/31/2017	0.41			0.04 (J)			0.1
2/1/2017		<1.25	2.1		1.1	0.16	
5/22/2017							0.1
5/23/2017	0.36						
5/24/2017		0.08 (J)	1.3	0.1	1.7	0.19	
10/9/2017							0.12
10/10/2017	0.39		2.2				
10/11/2017				0.24	2.3	0.19	
4/17/2018				0.06 (J)			0.15
4/18/2018	0.38	0.11	<0.1		1.4	0.19	
8/14/2018	0.47						0.12
8/15/2018			2	0.27	2.2	0.22	
4/7/2019				0.06 (J)	1.5	0.17	
4/9/2019		0.18	1.6				
4/10/2019	0.38						0.09 (J)
9/24/2019	1.03						<0.125
9/25/2019				0.324	2.43		
9/26/2019			1.92			0.183	
3/23/2020		0.336	1.27				
3/26/2020	0.288			<0.125	1.37	0.38	<0.125
9/22/2020			1.33				
9/23/2020	0.43			0.237	1.92	0.233	<0.125
4/19/2021		<1.25	1.13				
4/20/2021					1.06		
4/21/2021	0.549			<0.125		0.229	0.158
9/28/2021	0.665	0.193	1.86				
9/29/2021					2.23		
9/30/2021				<0.125		0.267	<0.125
4/25/2022							<0.125
4/26/2022		<1.25	1.45				
4/27/2022				<0.125		0.291	
5/3/2022	0.43				2.11		
10/11/2022	0.738						0.139
10/12/2022			1.57				
10/17/2022				<0.125	2.58	<0.5	
4/10/2023	0.4						
4/11/2023							0.14
4/12/2023				<0.125	1.98	0.225	
4/18/2023		<1.25	1.27				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 6/6/2023 2:41 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
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			
9/19/2016	<0.001							
9/20/2016		<0.001			<0.001			
9/21/2016			<0.001			<0.001		
11/29/2016	<0.001					<0.001		
11/30/2016		<0.001			<0.001			
12/1/2016			<0.001					
1/30/2017						<0.001		
1/31/2017	<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
5/24/2017		<0.001	<0.001					
5/25/2017				<0.001	<0.001			
4/17/2018	<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					
4/9/2019		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4/10/2019	<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			
11/18/2019							<0.001	
1/30/2020							<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			
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
9/28/2021						<0.001	<0.001	
9/29/2021								<0.001
9/30/2021	<0.001	<0.001						
10/1/2021			<0.001	<0.001	<0.001			
4/25/2022				<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 6/6/2023 2:41 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
4/26/2022								<0.001
4/27/2022		<0.001	<0.001				<0.001	
5/2/2022	<0.001					<0.001		
10/11/2022	<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
4/18/2023				<0.001	<0.001			

Time Series

Constituent: Lead (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								<0.001
5/18/2016								<0.001
7/19/2016								<0.001
8/4/2016	<0.001							
9/19/2016								<0.001
9/21/2016	<0.001							
11/29/2016								<0.001
12/1/2016	<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
8/15/2018	<0.001							
4/7/2019			<0.001			<0.001	<0.001	
4/8/2019				<0.001	<0.001			
4/10/2019	<0.001							<0.001
7/31/2019			<0.001	<0.001	<0.001			
8/1/2019						<0.001	<0.001	
9/24/2019			<0.001			<0.001		<0.001
9/25/2019				<0.001			<0.001	
9/26/2019	<0.001				<0.001			
11/19/2019				<0.001	<0.001	<0.001		
11/20/2019			<0.001				<0.001	
1/29/2020							<0.001	
1/30/2020			<0.001	<0.001	<0.001	<0.001		
3/23/2020	<0.001		<0.001	<0.001				
3/25/2020					<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	
9/21/2020			<0.001					
9/22/2020				<0.001	<0.001	<0.001	<0.001	
9/23/2020								<0.001
9/24/2020	<0.001							
4/19/2021					<0.001	<0.001		
4/20/2021			<0.001	<0.001			<0.001	
4/22/2021	<0.001							<0.001
9/28/2021					<0.001		<0.001	
9/29/2021	<0.001	<0.001				<0.001		
9/30/2021								<0.001
10/4/2021			<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			
5/4/2022	<0.001							
10/11/2022								<0.001
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
10/18/2022							<0.001	
4/11/2023								<0.001
4/12/2023			<0.001	<0.001	<0.001	<0.001		
4/13/2023	<0.001	<0.001					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	<0.001	<0.001						<0.001
4/7/2019			<0.001					
4/8/2019				<0.001				
7/31/2019			<0.001					
8/1/2019	<0.001	<0.001		<0.001				<0.001
9/24/2019								<0.001
9/25/2019	<0.001	<0.001						
9/26/2019			<0.001					
9/27/2019				<0.001				
11/18/2019								<0.001
11/19/2019		<0.001	<0.001	<0.001				
11/20/2019	<0.001							
1/29/2020	<0.001	<0.001	<0.001					0.00203
1/30/2020				<0.001				
3/23/2020			<0.001	<0.001				
3/25/2020	<0.001	<0.001						
3/26/2020								<0.001
6/23/2020	<0.001		<0.001					<0.001
6/24/2020		<0.001		<0.001	<0.001	<0.001	<0.001	
9/21/2020	<0.001		<0.001					
9/22/2020		<0.001			<0.001			<0.001
9/23/2020						<0.001		
9/24/2020				<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	<0.001
9/28/2021					<0.001			
9/29/2021								<0.001
9/30/2021			<0.001					
10/1/2021				<0.001				
10/4/2021	<0.001	<0.001						
10/5/2021						<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	<0.001	
10/11/2022	<0.001							<0.001
10/13/2022		<0.001	<0.001			<0.001		
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		
4/18/2023				<0.001			<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	0.0018	<0.001		<0.001	<0.001		<0.001
3/30/2016						<0.001	
5/18/2016							<0.001
5/19/2016	0.002	<0.001		<0.001	<0.001	<0.001	
7/19/2016	0.0019				<0.001		<0.001
7/20/2016				<0.001		<0.001	
8/4/2016			<0.001				
9/20/2016	0.0018		<0.001	<0.001	<0.001	<0.001	<0.001
11/29/2016	0.0024			<0.001			<0.001
11/30/2016			<0.001		<0.001	<0.001	
1/31/2017	0.002			<0.001			<0.001
2/1/2017		<0.001	<0.001		<0.001	<0.001	
5/22/2017							<0.001
5/23/2017	0.0021						
5/24/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
4/17/2018				<0.001			<0.001
4/18/2018	0.0019	<0.001	<0.001		<0.001	<0.001	
8/14/2018	0.0017						<0.001
8/15/2018			<0.001	<0.001	<0.001	<0.001	
4/7/2019				<0.001	<0.001	<0.001	
4/9/2019		<0.001	<0.001				
4/10/2019	0.0014						<0.001
9/24/2019	<0.001						<0.001
9/25/2019				<0.001	<0.001		
9/26/2019			<0.001			<0.001	
3/23/2020		<0.001	<0.001				
3/26/2020	0.00178			<0.001	<0.001	<0.001	<0.001
9/22/2020			<0.001				
9/23/2020	0.0018			<0.001	<0.001	<0.001	<0.001
4/19/2021		<0.001	<0.001				
4/20/2021					<0.001		
4/21/2021	0.0019			<0.001		<0.001	<0.001
9/28/2021	<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
4/26/2022		<0.001	<0.001				
4/27/2022				<0.001		<0.001	
5/3/2022	0.0016				<0.001		
10/11/2022	0.0011						<0.001
10/12/2022			<0.001				
10/17/2022				<0.001	<0.001	<0.001	
4/10/2023	0.0013						
4/11/2023							<0.001
4/12/2023				<0.001	<0.001	<0.001	
4/18/2023		<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/6/2023 2:41 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
3/29/2016	<0.008							
3/30/2016		0.017	<0.005	0.1				
5/18/2016	<0.008	0.016						
5/19/2016			0.075	0.0034 (J)		<0.008		
5/20/2016								<0.008
7/19/2016	<0.008							
7/20/2016		0.013	0.065			<0.008		
8/4/2016					<0.008			
9/19/2016	<0.008							
9/20/2016		0.019			0.0034 (J)			
9/21/2016			0.1			<0.008		
11/29/2016	<0.008					<0.008		
11/30/2016		0.013			0.0037 (J)			
12/1/2016			0.079					
1/30/2017						<0.008		
1/31/2017	<0.008							0.0035 (J)
2/1/2017		0.015		<0.008	0.017			
2/2/2017			0.062					
5/22/2017						<0.008		
5/23/2017	<0.008							<0.008
5/24/2017		0.013	0.062					
5/25/2017				0.0053	0.0061			
4/17/2018	0.0022 (J)							<0.008
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					
4/9/2019		0.012	0.058	0.0074	0.014	<0.008	0.005	
4/10/2019	0.0018 (J)							0.0015 (J)
4/18/2019		0.012	0.058	0.0074	0.014	<0.008	0.005	0.0015 (J)
8/1/2019							<0.025	
10/12/2019			0.0746		0.0087			
10/17/2019						<0.008	0.00619	
10/19/2019	<0.008							
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	<0.008	<0.025	0.0668	0.00916	<0.008	<0.008	<0.025	<0.008
4/17/2020	<0.008			0.00916				
4/20/2020		<0.025	0.0668		<0.008	<0.008	<0.025	<0.008
7/7/2020							0.00643	
10/15/2020	<0.008							
10/16/2020		0.0155	0.0543		0.00761		0.0066	
5/11/2021		0.0187	0.0499				0.00673	
9/28/2021						<0.008	0.0062	
9/29/2021								<0.008
9/30/2021	<0.008	0.0113						
10/1/2021			0.0521	<0.008	0.00683			
4/25/2022				0.00549	0.00621			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/6/2023 2:41 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
4/26/2022								<0.008
4/27/2022		0.0161	0.0419				0.00624	
5/2/2022	<0.008					<0.008		
11/8/2022	<0.008	0.0141	0.0516		0.00618	<0.008	0.00762	
4/28/2023	<0.008	0.016	0.043	<0.008	<0.008	<0.008	0.00949	<0.008

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								0.0034 (J)
5/18/2016								<0.008
7/19/2016								<0.008
8/4/2016	0.063							
9/19/2016								<0.008
9/21/2016	0.044							
11/29/2016								<0.008
12/1/2016	0.035							
1/31/2017	0.044							<0.008
5/23/2017	0.018							<0.008
4/17/2018	0.047							0.0022 (J)
8/14/2018								0.0027 (J)
8/15/2018	0.016							
4/7/2019			0.0038 (J)			0.003 (J)	0.011	
4/8/2019				0.046	0.15			
4/10/2019	0.026							0.002 (J)
4/17/2019			0.0038 (J)	0.046	0.15	0.003 (J)	0.011	
4/18/2019	0.026							0.002 (J)
7/31/2019			<0.008	0.0322	0.0897			
8/1/2019						<0.008	0.00791	
10/12/2019	0.0177							
10/17/2019			<0.008			<0.008	0.00916	
10/19/2019								<0.008
10/23/2019				0.0353	0.0925			
11/19/2019				0.0399	0.132	<0.008		
11/20/2019			<0.008				0.00932	
12/3/2019			<0.008	0.0399	0.132	<0.008	0.00932	
2/11/2020			<0.008	0.0379	0.124	<0.008	0.0139	
2/13/2020			<0.008	0.0379	0.124	<0.008	0.0139	
4/3/2020					0.115	<0.008	<0.025	<0.008
4/17/2020	0.0136		0.00756	0.0371				<0.008
4/20/2020					0.115	<0.008	<0.025	
7/8/2020			<0.008	0.0429	0.107	<0.008	0.00835	
10/15/2020								<0.008
10/16/2020	0.0103		<0.008	0.0287	0.0469	<0.008		
10/22/2020							0.0102	
5/11/2021				0.0526	0.109		0.0103	
9/28/2021					0.103		0.00914	
9/29/2021	0.00884	0.194				<0.008		
9/30/2021								<0.008
10/4/2021			<0.008	0.0519				
4/26/2022		0.0939	<0.008	0.0405		<0.008	0.00874	
5/3/2022					0.0877			
5/4/2022	0.00693							
5/5/2022								<0.008
11/8/2022	0.00679	0.177	<0.008	0.0334	0.047	<0.008	0.00994	<0.008
4/28/2023	0.0118	0.0834	<0.008	0.0344	0.0992	<0.008	0.0134	<0.008

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	0.0015 (J)	0.0018 (J)						0.0027 (J)
4/7/2019			0.0012 (J)					
4/8/2019				0.2				
4/17/2019	0.0015 (J)	0.0018 (J)	0.0012 (J)					0.0374 (JD)
4/18/2019				0.2				
7/31/2019			<0.008					
8/1/2019	<0.008	<0.008		0.126				<0.008
10/12/2019				0.2				
10/17/2019	<0.008							<0.008
10/23/2019		<0.008	<0.008					
11/18/2019								<0.008
11/19/2019		<0.008	<0.008	0.197				
11/20/2019	<0.008							
12/3/2019	<0.008	<0.008	<0.008	0.197				<0.008
2/11/2020	<0.008	<0.008	<0.008	0.168				0.00825
2/13/2020	<0.008	<0.008	<0.008	0.168				0.00825
4/3/2020	<0.008	<0.008						<0.008
4/17/2020			<0.008	0.135				<0.008
4/20/2020	<0.008	<0.008						
7/7/2020								<0.008
7/8/2020		<0.008	<0.008	0.174	0.251	0.15		
7/10/2020							<0.008	
10/15/2020								<0.008
10/22/2020	<0.008	<0.008	<0.008	0.169	0.143	0.185	<0.008	
9/28/2021					0.114			
9/29/2021								<0.008
9/30/2021			<0.008					
10/1/2021				0.173				
10/4/2021	<0.008	<0.008						
10/5/2021						0.12	<0.008	
5/2/2022			<0.008					
5/3/2022		<0.008			0.136			<0.008
5/4/2022	<0.008			0.145		0.12	<0.008	
11/8/2022	<0.008	<0.008	<0.008	0.136	0.105	0.149	<0.008	<0.008
4/28/2023	<0.008	<0.008	<0.008	0.165	0.0744	0.127	<0.008	<0.008

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	0.0093	<0.008		<0.008	0.16		<0.008
3/30/2016						<0.008	
5/18/2016							<0.008
5/19/2016	0.0069	<0.008		<0.008	0.21	<0.008	
7/19/2016	0.006				0.11		<0.008
7/20/2016				0.0046 (J)		<0.008	
8/4/2016			0.2				
9/20/2016	0.0062		0.2	0.0055	0.22	<0.008	<0.008
11/29/2016	0.0087			0.011			<0.008
11/30/2016			0.18		0.22	<0.008	
1/31/2017	0.0045 (J)			<0.008			<0.008
2/1/2017		0.0096	0.22		0.13	<0.008	
5/22/2017							<0.008
5/23/2017	0.0065						
5/24/2017		0.0034 (J)	0.11	<0.008	0.17	<0.008	
4/17/2018				0.0019 (J)			<0.008
4/18/2018	0.0086	0.0045 (J)	0.23		0.14	<0.008	
8/14/2018	0.0071						<0.008
8/15/2018			0.097	0.0054	0.19	0.0011 (J)	
4/7/2019				0.002 (J)	0.15	<0.008	
4/9/2019		<0.008	0.09				
4/10/2019	0.0056						<0.008
4/17/2019				0.002 (J)	0.15	<0.008	
4/18/2019	0.0056	<0.008	0.09				<0.008
10/17/2019	0.0071				0.117		<0.008
10/23/2019			0.0813	0.00832		<0.008	
4/3/2020	0.00597			<0.008	0.0727	<0.008	<0.008
4/17/2020	0.00597	<0.008	0.0671	<0.008	0.0727		
4/20/2020						<0.008	<0.008
10/15/2020	0.0068		0.0488	0.00614	0.0982	<0.008	
10/16/2020							<0.008
5/11/2021			0.0626		0.0681		
9/28/2021	0.00517	<0.008	0.0663				
9/29/2021					0.0891		
9/30/2021				<0.008		<0.008	<0.008
4/25/2022							<0.008
4/26/2022		<0.008	0.0561				
4/27/2022				<0.008		<0.008	
5/3/2022	0.0054				0.0752		
11/8/2022	0.00649		0.0569	0.00603	0.0863	<0.008	<0.008
4/28/2023	<0.008	<0.008	0.053	<0.008	0.0784	<0.008	<0.008

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/6/2023 2:41 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
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			
9/19/2016	<0.0002							
9/20/2016		<0.0002			<0.0002			
9/21/2016			<0.0002			<0.0002		
11/29/2016	<0.0002					<0.0002		
11/30/2016		<0.0002			<0.0002			
12/1/2016			<0.0002					
1/30/2017						<0.0002		
1/31/2017	<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
5/24/2017		<0.0002	<0.0002					
5/25/2017				<0.0002	<0.0002			
4/17/2018	<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					
4/9/2019		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
4/10/2019	<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			
11/18/2019							<0.0002	
1/30/2020							<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			
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
9/28/2021						<0.0002	<0.0002	
9/29/2021								<0.0002
9/30/2021	<0.0002	<0.0002						
10/1/2021			<0.0002	<0.0002	<0.0002			
4/25/2022				<0.0002	<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/6/2023 2:41 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
4/26/2022								<0.0002
4/27/2022		<0.0002	<0.0002				<0.0002	
5/2/2022	<0.0002					<0.0002		
10/11/2022	<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
4/18/2023				<0.0002	<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								<0.0002
5/18/2016								<0.0002
7/19/2016								8.3E-05 (J)
8/4/2016	<0.0002							
9/19/2016								<0.0002
9/21/2016	<0.0002							
11/29/2016								<0.0002
12/1/2016	<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
8/15/2018	<0.0002							
4/7/2019			<0.0002			<0.0002	<0.0002	
4/8/2019				<0.0002	<0.0002			
4/10/2019	<0.0002							<0.0002
7/31/2019			<0.0002	<0.0002	<0.0002			
8/1/2019						<0.0002	<0.0002	
9/24/2019			<0.0002			<0.0002		<0.0002
9/25/2019				<0.0002			<0.0002	
9/26/2019	<0.0002				<0.0002			
11/19/2019				<0.0002	<0.0002	<0.0002		
11/20/2019			<0.0002				<0.0002	
1/29/2020							<0.0002	
1/30/2020			<0.0002	<0.0002	<0.0002	<0.0002		
3/23/2020	<0.0002		<0.0002	<0.0002				
3/25/2020					<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	
9/21/2020			<0.0002					
9/22/2020				<0.0002	<0.0002	<0.0002	<0.0002	
9/23/2020								<0.0002
9/24/2020	<0.0002							
4/19/2021					<0.0002	<0.0002		
4/20/2021			<0.0002	<0.0002			<0.0002	
4/22/2021	<0.0002							<0.0002
9/28/2021					<0.0002		<0.0002	
9/29/2021	<0.0002	<0.0002				<0.0002		
9/30/2021								<0.0002
10/4/2021			<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			
5/4/2022	<0.0002							
10/11/2022								<0.0002
10/12/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
10/18/2022							<0.0002	
4/11/2023								<0.0002
4/12/2023			<0.0002	<0.0002	<0.0002	<0.0002		
4/13/2023	<0.0002	<0.0002					<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	<0.0002	<0.0002						<0.0002
4/7/2019			<0.0002					
4/8/2019				<0.0002				
7/31/2019			<0.0002					
8/1/2019	<0.0002	<0.0002		<0.0002				<0.0002
9/24/2019								<0.0002
9/25/2019	<0.0002	<0.0002						
9/26/2019			<0.0002					
9/27/2019				<0.0002				
11/18/2019								<0.0002
11/19/2019		<0.0002	<0.0002	<0.0002				
11/20/2019	<0.0002							
1/29/2020	<0.0002	<0.0002	<0.0002					<0.0002
1/30/2020				<0.0002				
3/23/2020			<0.0002	<0.0002				
3/25/2020	<0.0002	<0.0002						
3/26/2020								<0.0002
6/23/2020	<0.0002		<0.0002					<0.0002
6/24/2020		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	
9/21/2020	<0.0002		<0.0002					
9/22/2020		<0.0002			<0.0002			<0.0002
9/23/2020						<0.0002		
9/24/2020				<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	<0.0002
9/28/2021					<0.0002			
9/29/2021								<0.0002
9/30/2021			<0.0002					
10/1/2021				<0.0002				
10/4/2021	<0.0002	<0.0002						
10/5/2021						<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	<0.0002	
10/11/2022	<0.0002							<0.0002
10/13/2022		<0.0002	<0.0002			<0.0002		
10/18/2022				<0.0002	<0.0002		<0.0002	
4/10/2023								<0.0002
4/11/2023	<0.0002	<0.0002						
4/12/2023			<0.0002					
4/13/2023					<0.0002	<0.0002		
4/18/2023				<0.0002			<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	<0.0002	<0.0002		<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	<0.0002	<0.0002	
7/19/2016	8.3E-05 (J)				8.6E-05 (J)		8.3E-05 (J)
7/20/2016				8.4E-05 (J)		8.1E-05 (J)	
8/4/2016			<0.0002				
9/20/2016	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
11/29/2016	<0.0002			<0.0002			<0.0002
11/30/2016			<0.0002		<0.0002	<0.0002	
1/31/2017	<0.0002			<0.0002			<0.0002
2/1/2017		<0.0002	<0.0002		<0.0002	<0.0002	
5/22/2017							<0.0002
5/23/2017	<0.0002						
5/24/2017		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
4/17/2018				<0.0002			<0.0002
4/18/2018	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
8/14/2018	<0.0002						<0.0002
8/15/2018			<0.0002	<0.0002	<0.0002	<0.0002	
4/7/2019				<0.0002	<0.0002	<0.0002	
4/9/2019		<0.0002	<0.0002				
4/10/2019	<0.0002						<0.0002
9/24/2019	<0.0002						<0.0002
9/25/2019				<0.0002	<0.0002		
9/26/2019			<0.0002			<0.0002	
3/23/2020		<0.0002	<0.0002				
3/26/2020	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
9/22/2020			<0.0002				
9/23/2020	<0.0002			<0.0002	<0.0002	<0.0002	<0.0002
4/19/2021		<0.0002	<0.0002				
4/20/2021					<0.0002		
4/21/2021	<0.0002			<0.0002		<0.0002	<0.0002
9/28/2021	<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
4/26/2022		<0.0002	<0.0002				
4/27/2022				<0.0002		<0.0002	
5/3/2022	<0.0002				<0.0002		
10/11/2022	<0.0002						<0.0002
10/12/2022			<0.0002				
10/17/2022				<0.0002	<0.0002	<0.0002	
4/10/2023	<0.0002						
4/11/2023							<0.0002
4/12/2023				<0.0002	<0.0002	<0.0002	
4/18/2023		<0.0002	<0.0002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/6/2023 2:41 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
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			
9/19/2016	<0.001							
9/20/2016		<0.001			<0.001			
9/21/2016			0.22			<0.001		
11/29/2016	<0.001					<0.001		
11/30/2016		<0.001			<0.001			
12/1/2016			0.22					
1/30/2017						<0.001		
1/31/2017	0.00088 (J)							<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
5/24/2017		<0.001	0.23					
5/25/2017				<0.001	0.00088 (J)			
4/17/2018	<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					
4/9/2019		<0.001	0.14	<0.001	<0.001	<0.001	<0.001	
4/10/2019	<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			
11/18/2019							<0.001	
1/30/2020							<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			
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
9/28/2021						<0.001	<0.001	
9/29/2021								0.001
9/30/2021	<0.001	<0.001						
10/1/2021			0.115	<0.001	<0.001			
4/25/2022				<0.001	0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/6/2023 2:41 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
4/26/2022								0.001
4/27/2022		<0.001	0.098				<0.001	
5/2/2022	<0.001					<0.001		
10/11/2022	<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
4/18/2023				<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								<0.001
5/18/2016								<0.001
7/19/2016								<0.001
8/4/2016	<0.001							
9/19/2016								<0.001
9/21/2016	<0.001							
11/29/2016								<0.001
12/1/2016	<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
8/15/2018	<0.001							
4/7/2019			<0.001			<0.001	<0.001	
4/8/2019				<0.001	0.22			
4/10/2019	<0.001							<0.001
7/31/2019			<0.001	0.00128	0.11			
8/1/2019						<0.001	<0.001	
9/24/2019			<0.001			<0.001		<0.001
9/25/2019				<0.001			<0.001	
9/26/2019	<0.001				0.103			
11/19/2019				<0.001	0.224	<0.001		
11/20/2019			<0.001				<0.001	
1/29/2020							<0.001	
1/30/2020			<0.001	0.00118	0.128	<0.001		
3/23/2020	<0.001		<0.001	0.00113				
3/25/2020					0.0871	<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	
9/21/2020			<0.001					
9/22/2020				<0.001	0.012	<0.001	<0.001	
9/23/2020								<0.001
9/24/2020	<0.001							
4/19/2021					0.109	<0.001		
4/20/2021			<0.001	0.001			<0.001	
4/22/2021	<0.001							<0.001
9/28/2021					0.145		<0.001	
9/29/2021	<0.001	0.042				<0.001		
9/30/2021								<0.001
10/4/2021			<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			
5/4/2022	<0.001							
10/11/2022								<0.001
10/12/2022	<0.001	0.047	<0.001	<0.001	0.015	<0.001		
10/18/2022							<0.001	
4/11/2023								<0.001
4/12/2023			<0.001	<0.001	0.089	<0.001		
4/13/2023	<0.001	0.023					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	<0.001	<0.001						<0.001
4/7/2019			<0.001					
4/8/2019				0.21				
7/31/2019			<0.001					
8/1/2019	<0.001	<0.001		0.138				<0.001
9/24/2019								<0.001
9/25/2019	<0.001	<0.001						
9/26/2019			<0.001					
9/27/2019				0.222				
11/18/2019								<0.001
11/19/2019		<0.001	<0.001	0.215				
11/20/2019	<0.001							
1/29/2020	<0.001	<0.001	<0.001					0.00125
1/30/2020				0.0701				
3/23/2020			<0.001	0.0845				
3/25/2020	<0.001	<0.001						
3/26/2020								0.00139
6/23/2020	<0.001		<0.001					<0.001
6/24/2020		<0.001		0.077	0.009	0.051	0.006	
9/21/2020	<0.001		<0.001					
9/22/2020		<0.001			0.02			<0.001
9/23/2020						0.182		
9/24/2020				0.093			0.007	
4/20/2021	<0.001		<0.001					
4/21/2021		<0.001			0.007			
4/22/2021				0.076		0.078	0.005	0.002
9/28/2021					0.004			
9/29/2021								<0.001
9/30/2021			<0.001					
10/1/2021				0.102				
10/4/2021	<0.001	<0.001						
10/5/2021						0.047	0.006	
5/2/2022			<0.001					
5/3/2022		<0.001			0.011			<0.001
5/4/2022	<0.001			0.084		0.074	0.006	
10/11/2022	<0.001							<0.001
10/13/2022		<0.001	<0.001			0.076		
10/18/2022				0.132	<0.05		0.005	
4/10/2023								<0.001
4/11/2023	<0.001	<0.001						
4/12/2023			<0.001					
4/13/2023					0.008	0.093		
4/18/2023				0.123			0.006	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	<0.001	<0.005		0.0012 (J)	0.01 (J)		<0.001
3/30/2016						<0.001	
5/18/2016							<0.001
5/19/2016	<0.001	<0.005		0.0016 (J)	0.017	<0.001	
7/19/2016	<0.001				0.028		<0.001
7/20/2016				0.003 (J)		<0.001	
8/4/2016			0.17				
9/20/2016	<0.001		0.32	0.0026 (J)	0.035	<0.001	<0.001
11/29/2016	<0.001			0.0019 (J)			<0.001
11/30/2016			0.19		0.024	<0.001	
1/31/2017	<0.001			<0.001			<0.001
2/1/2017		<0.005	0.28		0.0095 (J)	<0.001	
5/22/2017							<0.001
5/23/2017	<0.001						
5/24/2017		<0.005	0.11	0.0027 (J)	0.025	0.0011 (J)	
4/17/2018				<0.001			<0.001
4/18/2018	<0.001	<0.005	0.44		0.015	<0.001	
8/14/2018	<0.001						<0.001
8/15/2018			0.29	<0.001	0.03	<0.001	
4/7/2019				<0.001	0.016	<0.001	
4/9/2019		<0.005	0.2				
4/10/2019	<0.001						<0.001
9/24/2019	<0.001						<0.001
9/25/2019				0.00252	0.0199		
9/26/2019			0.141			<0.001	
3/23/2020		<0.005	0.109				
3/26/2020	<0.001			<0.001	0.0108	<0.001	<0.001
9/22/2020			0.096				
9/23/2020	<0.001			0.002	0.016	<0.001	<0.001
4/19/2021		<0.005	0.09				
4/20/2021					0.007		
4/21/2021	<0.001			<0.001		<0.001	<0.001
9/28/2021	<0.001	<0.005	0.149				
9/29/2021					0.021		
9/30/2021				<0.001		0.001	<0.001
4/25/2022							<0.001
4/26/2022		0.001	0.09				
4/27/2022				<0.001		0.001	
5/3/2022	<0.001				0.018		
10/11/2022	<0.001						<0.001
10/12/2022			0.136				
10/17/2022				0.002	0.022	<0.001	
4/10/2023	<0.001						
4/11/2023							<0.001
4/12/2023				<0.001	0.012	<0.001	
4/18/2023		0.001	0.085				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH, Field (SU) Analysis Run 6/6/2023 2:41 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
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			
9/19/2016	5.21	3.79	6.93			6.18		
9/20/2016		3.9			5.59			
9/21/2016			6.9			6.5		
11/29/2016	5.3	3.83	6.65		5.39	6.19		
11/30/2016		3.8			6.2			
12/1/2016			7.1					
1/30/2017						6.4		
1/31/2017	5.34	4.06	6.8	5.71	5.69	6.01		4.62
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
3/30/2017				5.59	5.57			
5/23/2017	5.28							5.46
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		
10/11/2017		4.05						
4/17/2018	6.2 (HF)							6.3 (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)					
4/9/2019		3.87	6.9	5.65	5.5	6.25	5.78	
4/10/2019	5.46							6.05
5/21/2019	5.66							
5/22/2019							5.94	
5/23/2019			6.85					
9/26/2019		4.36	7.15		5.85			
11/18/2019							5.56	
1/30/2020							5.5	
3/24/2020				5.82	5.84			6.11
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			
4/23/2021	4.48	5.24	7.51	6.81	6.78	6.2	5.28	4.83
9/28/2021						6.61	5.64	
9/29/2021								6.42

Time Series

Constituent: pH, Field (SU) Analysis Run 6/6/2023 2:41 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
9/30/2021	5.8	4.41						
10/1/2021			7.09	7.07	5.83			
4/13/2022								5.7
4/25/2022				6.02	5.86			
4/26/2022								6.35
4/27/2022		3.8	6.99				5.39	
5/2/2022	5.82					6.41		
10/11/2022	5.81							
10/13/2022		4.81			5.63			
10/17/2022			6.93				5.47	
10/18/2022						6.02		
4/10/2023						6.81		
4/11/2023	5.56						5.3	
4/12/2023		4.55	6.8					
4/18/2023				6.1	5.69			

Time Series

Constituent: pH, Field (SU) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								4.7
5/18/2016								4.74
7/19/2016								4.71
8/4/2016	5.63							
9/19/2016	5.75							4.59
9/21/2016	6							
11/29/2016	5.48							4.82
12/1/2016	6.2							
1/31/2017	5.11							4.51
3/28/2017								4.54
3/29/2017	5.38							
5/23/2017	5.16							4.45
10/10/2017	5.09							4.33
4/17/2018	5.7 (HF)							5.1 (HF)
8/14/2018								5.2 (HF)
8/15/2018	6 (HF)							
4/7/2019			5.49			6.24	4.95	
4/8/2019				5.9	6.12			
4/10/2019	5.41							4.54
5/21/2019								4.71
5/22/2019			5.55	5.86	6.09	6.15	5.01	
9/24/2019			5.68			5.94		
9/25/2019				6.06			4.92	
9/26/2019	5.76				6.24			
11/19/2019				5.99	6.27	6.08		
11/20/2019			4.98				4.97	
1/30/2020			5.03	5.85	6.11	6.19	5.57	
3/24/2020	5.8		5.44	5.97				
3/25/2020					6.22	6.27	5.44	
3/26/2020								4.81
6/22/2020			5.49	5.95				
6/23/2020					6.29	6.16	5.19	
9/21/2020			5.04					
9/22/2020				5.78	6.01	5.87	4.8	
9/23/2020								4.42
9/24/2020	5.4							
4/23/2021	4.45		7.41	6.25	6.7	6.92	7.15	3.22
9/28/2021					6.45			
9/29/2021	6.08	6.56				6.37	5.84	
9/30/2021								4.82
10/4/2021			6.11	6.17				
4/26/2022		6.12	5.17	5.99		6.25	5.65	
5/2/2022								4.83
5/3/2022					6.26			
5/4/2022	5.91							
10/11/2022								4.91
10/12/2022	5.51	5.9	5.15	5.68	5.81	5.81		
10/18/2022							4.87	
4/10/2023			5.14					
4/11/2023								4.57
4/12/2023				5.7	6	6.04		
4/13/2023	5.62	5.82					5.33	

Time Series

Constituent: pH, Field (SU) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	6.1	5.98						4.53
4/7/2019			6.24					
4/8/2019				6.91				
5/22/2019	6.16	6.07	6.23	6.72				4.65
9/24/2019								4.75
9/25/2019	6.64	6.68						
9/26/2019			6.39					
9/27/2019				6.97				
11/18/2019								4.59
11/19/2019		6.4	6.37	6.92				
11/20/2019	6.18							
1/29/2020								4.96
1/30/2020	6.44	6.42	6.41	6.63				
3/23/2020			6.41	6.73				
3/25/2020	6.39	6.34						
3/26/2020								5.14
6/23/2020	6.33		6.44					4.73
6/24/2020		6.23		6.51	6.74	5.82	6.64	
9/21/2020	6.26		6.23					
9/22/2020		6.42			6.43			4.37
9/23/2020						5.74		
9/24/2020				6.4			6.38	
4/23/2021	7.29	7.1	7.1	5.06	7.15	4.44	5.12	3.9
9/28/2021					7.02			
9/29/2021								5.21
9/30/2021			6.6					
10/1/2021				6.69				
10/4/2021	6.53	6.53						
10/5/2021						6.46	7.04	
5/2/2022			6.46					
5/3/2022		6.35			6.75			5.08
5/4/2022	6.29			6.62		6.16	6.62	
10/11/2022	6.66							4.87
10/13/2022		6.65	6.4			5.97		
10/18/2022				6.26	6.17		6.26	
4/10/2023								4.75
4/11/2023	6.06	6.24						
4/12/2023			6.2					
4/13/2023					6.26	5.91		
4/18/2023				6.61			6.5	

Time Series

Constituent: pH, Field (SU) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	4.52	5.96		6.15	5.94	6.11	6.26
3/30/2016						6.44	
5/18/2016	4.45	6.03		6.04	5.91	6.29	6.26
5/19/2016	4.81	6.32		6.29	6.27	6.65	
7/19/2016	4.55			6.2	6.13	6.43	6.2
7/20/2016				6.33		6.54	
8/4/2016			5.97				
9/19/2016	4.57			6.31	6.03	6.48	6.13
9/20/2016	5.2		6.01	6.4	6.4	6.7	6.4
11/29/2016	4.06		5.81	6.35	5.99	6.43	6.26
11/30/2016			6.5		6.6	6.7	
1/31/2017	4.55	5.08	5.98	5.43	5.93	6.42	6
2/1/2017		5.6	6.5		6.5	6.6	
3/28/2017	4.53	5.23	5.64				5.9
3/29/2017				5.82	6.05	6.19	
5/22/2017							5.95
5/23/2017	4.4						
5/24/2017		5.5	5.63	5.66	5.96	6.17	
10/9/2017							5.47
10/10/2017	4.63		5.84				
10/11/2017				6.07	6.16	6.4	
4/17/2018				6.5 (HF)			6.5 (HF)
4/18/2018	5 (HF)	6.2 (HF)	6.7 (HF)		6.7 (HF)	6.8 (HF)	
8/14/2018	5.3 (HF)						5.8 (HF)
8/15/2018			6.6 (HF)	6.4 (HF)	6.5 (HF)	6.8 (HF)	
4/7/2019				5.65	6.04	6.26	
4/9/2019		6.04	6.1				
4/10/2019	4.87						5.91
5/21/2019		6.34		5.73		6.53	
5/22/2019	5.17						
9/25/2019				6.35	6.3		
9/26/2019			6.1			6.63	
3/23/2020			6.1				
3/24/2020		6.08					
3/26/2020	5.12			6.08	6.27	6.6	6.06
9/22/2020			5.94				
9/23/2020	4.94			6.07	6.04	6.43	5.9
4/23/2021	6.04	6.4	6.35	7.26	6.97	7.55	7.56
9/28/2021	5.03	5.66	6.34				
9/29/2021					6.67		
9/30/2021				6.04		6.7	6.22
4/25/2022							6.34
4/26/2022		6.32	6.09				
4/27/2022				5.75		6.82	
5/3/2022	4.86				6.31		
10/11/2022	5.11						6.39
10/12/2022			5.83				
10/17/2022				6.39	6.24	6.61	
4/10/2023	5.58						
4/11/2023							6.08
4/12/2023				5.68	6.05	6.53	
4/18/2023		6.1	5.93				

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/6/2023 2:41 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
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			
9/19/2016	<0.001							
9/20/2016		0.0022			0.0077			
9/21/2016			0.00036 (J)			0.00086 (J)		
11/29/2016	<0.001					0.0016		
11/30/2016		0.0015			0.0083			
12/1/2016			<0.001					
1/30/2017						0.0009 (J)		
1/31/2017	<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
5/24/2017		0.0023	<0.001					
5/25/2017				<0.001	0.002			
4/17/2018	0.00065 (J)							0.00085 (J)
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					
4/9/2019		0.003	<0.001	<0.001	<0.001	0.00076 (J)	<0.001	
4/10/2019	<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			
11/18/2019							<0.001	
1/30/2020							<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			
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
9/28/2021						0.002	<0.001	
9/29/2021								0.001
9/30/2021	<0.001	0.003						
10/1/2021			<0.001	0.001	<0.001			
4/25/2022				0.002	0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/6/2023 2:41 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
4/26/2022								0.001
4/27/2022		0.003	<0.001				<0.001	
5/2/2022	<0.001					0.001		
10/11/2022	<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
4/18/2023				0.008	0.001			

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								0.0003 (J)
5/18/2016								<0.001
7/19/2016								<0.001
8/4/2016	<0.001							
9/19/2016								<0.001
9/21/2016	<0.001							
11/29/2016								<0.001
12/1/2016	<0.001							
1/31/2017	<0.001							<0.001
5/23/2017	0.00034 (J)							<0.001
4/17/2018	<0.001							0.0003 (J)
8/14/2018								<0.001
8/15/2018	<0.001							
4/7/2019			<0.001			<0.001	<0.001	
4/8/2019				<0.001	<0.001			
4/10/2019	<0.001							<0.001
7/31/2019			<0.001	<0.001	<0.001			
8/1/2019						<0.001	<0.001	
9/24/2019			<0.001			<0.001		<0.001
9/25/2019				<0.001			<0.001	
9/26/2019	<0.001				<0.001			
11/19/2019				<0.001	<0.001	<0.001		
11/20/2019			<0.001				<0.001	
1/29/2020							<0.001	
1/30/2020			<0.001	<0.001	<0.001	<0.001		
3/23/2020	<0.001		<0.001	<0.001				
3/25/2020					<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	
9/21/2020			<0.001					
9/22/2020				<0.001	<0.001	<0.001	<0.001	
9/23/2020								<0.001
9/24/2020	<0.001							
4/19/2021					<0.001	<0.001		
4/20/2021			<0.001	<0.001			<0.001	
4/22/2021	<0.001							<0.001
9/28/2021					<0.001		<0.001	
9/29/2021	<0.001	<0.001				<0.001		
9/30/2021								<0.001
10/4/2021			<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			
5/4/2022	<0.001							
10/11/2022								<0.001
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
10/18/2022							<0.001	
4/11/2023								<0.001
4/12/2023			<0.001	<0.001	<0.001	<0.001		
4/13/2023	<0.001	<0.001					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	<0.001	<0.001						<0.001
4/7/2019			<0.001					
4/8/2019				<0.001				
7/31/2019			<0.001					
8/1/2019	<0.001	<0.001		<0.001				<0.001
9/24/2019								<0.001
9/25/2019	<0.001	<0.001						
9/26/2019			<0.001					
9/27/2019				<0.001				
11/18/2019								<0.001
11/19/2019		0.00186	<0.001	<0.001				
11/20/2019	<0.001							
1/29/2020	<0.001	<0.001	<0.001					<0.001
1/30/2020				<0.001				
3/23/2020			<0.001	<0.001				
3/25/2020	<0.001	<0.001						
3/26/2020								<0.001
6/23/2020	<0.001		<0.001					<0.001
6/24/2020		<0.001		<0.001	<0.001	<0.001	0.008	
9/21/2020	<0.001		<0.001					
9/22/2020		<0.001			<0.001			<0.001
9/23/2020						<0.001		
9/24/2020				<0.001			0.007	
4/20/2021	<0.001		<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			
9/29/2021								<0.001
9/30/2021			<0.001					
10/1/2021				<0.001				
10/4/2021	<0.001	<0.001						
10/5/2021						<0.001	0.017	
5/2/2022			<0.001					
5/3/2022		<0.001			<0.001			<0.001
5/4/2022	<0.001			<0.001		<0.001	0.02	
10/11/2022	<0.001							<0.001
10/13/2022		<0.001	<0.001			<0.001		
10/18/2022				<0.001	<0.001		0.004	
4/10/2023								<0.001
4/11/2023	<0.001	<0.001						
4/12/2023			<0.001					
4/13/2023					<0.001	<0.001		
4/18/2023				<0.001			0.014	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	0.0028	0.0033		0.00032 (J)	0.00026 (J)		<0.001
3/30/2016						0.0014	
5/18/2016							<0.001
5/19/2016	0.0028	0.0047		<0.001	0.00045 (J)	0.00046 (J)	
7/19/2016	0.0036				0.00025 (J)		<0.001
7/20/2016				<0.001		0.00024 (J)	
8/4/2016			0.00033 (J)				
9/20/2016	0.0067		<0.001	<0.001	<0.001	<0.001	<0.001
11/29/2016	0.003			<0.001			<0.001
11/30/2016			<0.001		<0.001	<0.001	
1/31/2017	0.0027			0.0022			<0.001
2/1/2017		<0.001	<0.001		<0.001	<0.001	
5/22/2017							<0.001
5/23/2017	0.0037						
5/24/2017		0.0021	<0.001	0.00097 (J)	<0.001	0.00056 (J)	
4/17/2018				0.00036 (J)			0.00025 (J)
4/18/2018	0.0022	0.0027	<0.001		0.0017	<0.001	
8/14/2018	0.0015						<0.001
8/15/2018			<0.001	<0.001	<0.001	<0.001	
4/7/2019				<0.001	<0.001	<0.001	
4/9/2019		0.0033	<0.001				
4/10/2019	0.0013						<0.001
9/24/2019	<0.001						<0.001
9/25/2019				<0.001	<0.001		
9/26/2019			<0.001			<0.001	
3/23/2020		0.00188	<0.001				
3/26/2020	<0.001			<0.001	<0.001	<0.001	<0.001
9/22/2020			<0.001				
9/23/2020	0.003			<0.001	<0.001	<0.001	<0.001
4/19/2021		0.002	<0.001				
4/20/2021					0.002		
4/21/2021	<0.001			<0.001		<0.001	<0.001
9/28/2021	<0.001	0.003	<0.001				
9/29/2021					<0.001		
9/30/2021				<0.001		<0.001	<0.001
4/25/2022							<0.001
4/26/2022		0.003	<0.001				
4/27/2022				<0.001		<0.001	
5/3/2022	<0.001				<0.001		
10/11/2022	0.001						<0.001
10/12/2022			<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	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 2:41 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
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			
9/19/2016	14							
9/20/2016		260			330			
9/21/2016			1200			90		
11/29/2016	18					120		
11/30/2016		260			350			
12/1/2016			830					
1/30/2017						170		
1/31/2017	20							260
2/1/2017		270		180	200			
2/2/2017			550					
5/22/2017						120		
5/23/2017	16							170
5/24/2017		250	680					
5/25/2017				210	210			
10/9/2017	12							
10/10/2017			920		230	63		
10/11/2017		230						
4/17/2018	12							260
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					
4/9/2019		210	690	250	240	32	54	
4/10/2019	10							160
8/1/2019							83.3	
9/23/2019						42.3	76	
9/24/2019	14.3							
9/26/2019		386	1330		261			
11/18/2019							81.2	
1/30/2020							85.7	
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			
4/19/2021						48.1	75	
4/20/2021		389	460					
4/21/2021				225	211			
4/22/2021	31.8							123
9/28/2021						47	86.5	
9/29/2021								51.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 2:41 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
9/30/2021	13.7	210						
10/1/2021			427	236	241			
4/25/2022				197	190			
4/26/2022								98.9
4/27/2022		346	375				80.7	
5/2/2022	15.4					46.9		
10/11/2022	11.5							
10/13/2022		208			253			
10/17/2022			262				91	
10/18/2022						30.9		
4/10/2023						27.9		
4/11/2023	29.9						91.3	
4/12/2023		296	260					
4/13/2023								214
4/18/2023				297	211			

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								14
5/18/2016								14
7/19/2016								14
8/4/2016	340							
9/19/2016								16
9/21/2016	390							
11/29/2016								17
12/1/2016	360							
1/31/2017	300							15
5/23/2017	480							16
10/10/2017	390							15
4/17/2018	460							15
8/14/2018								15
8/15/2018	360							
4/7/2019			34			17	90	
4/8/2019				210	220			
4/10/2019	390							14
7/31/2019			32.8	198	223			
8/1/2019						34.8	107	
9/24/2019			29.6			27.8		20.4
9/25/2019				190			94.1	
9/26/2019	442				232			
11/19/2019				193	207	26.6		
11/20/2019			32.1				90.7	
1/29/2020							73.7	
1/30/2020			36.3	129	192	<1		
3/23/2020	217		27.3	119				
3/25/2020					278	3.65	84.7	
3/26/2020								17.9
6/22/2020			26.8	106				
6/23/2020					168	12.8	72.5	
9/21/2020			28.4					
9/22/2020				129	88.7	25.2	84.3	
9/23/2020								15.4
9/24/2020	249							
4/19/2021					149	<1		
4/20/2021			27	95.8			49.1	
4/22/2021	113							15.4
9/28/2021					164		61.9	
9/29/2021	117	358				30.6		
9/30/2021								16.2
10/4/2021			27.6	123				
4/26/2022		88.9	20.3	79.2		1.15	57.3	
5/2/2022								21.9
5/3/2022					141			
5/4/2022	116							
10/11/2022								20.7
10/12/2022	171	387	20.2	72.5	174	28.4		
10/18/2022							79.8	
4/11/2023								20.9
4/12/2023			23.1	52.1	157	2.04		
4/13/2023	91	73.6					63.4	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	26	25						21
4/7/2019			12					
4/8/2019				620				
7/31/2019			21.4					
8/1/2019	22.8	27.3		868				23.1
9/24/2019								26
9/25/2019	<1	18.4						
9/26/2019			8.64					
9/27/2019				981				
11/18/2019								21.1
11/19/2019		46	13.2	1010				
11/20/2019	13.4							
1/29/2020	11.1	18.4	5.75					20.6
1/30/2020				1240				
3/23/2020			16.2	1020				
3/25/2020	28.4	49.3						
3/26/2020								27.8
6/23/2020	41.9		36.3					20.6
6/24/2020		67.6		1040	1110	1220	29	
9/21/2020	11.1		15.5					
9/22/2020		9.34			851			19.7
9/23/2020						1330		
9/24/2020				1090			38.3	
4/20/2021	11.5		11.7					
4/21/2021		51.8			717			
4/22/2021				1110		716	40.4	22.5
9/28/2021					204			
9/29/2021								20.8
9/30/2021			20.6					
10/1/2021				1110				
10/4/2021	32.5	89.5						
10/5/2021						919	89.2	
5/2/2022			20.8					
5/3/2022		81.7			375			23.7
5/4/2022	28.7			1140		693	101	
10/11/2022	<1							19.9
10/13/2022		21.2	2.89			1360		
10/18/2022				169	106		109	
4/10/2023								26.4
4/11/2023	14.5	38.9						
4/12/2023			1.42					
4/13/2023					214	708		
4/18/2023				983			44	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	610	150		140	390		77
3/30/2016						12	
5/18/2016							180
5/19/2016	550	20		130	480	12	
7/19/2016	490				170 (J)		200
7/20/2016				64		<1	
8/4/2016			790				
9/20/2016	610		890	94	650	<1	310
11/29/2016	710			100			570
11/30/2016			660		870	<1	
1/31/2017	470			140			280
2/1/2017		140	590		230	21	
5/22/2017							460
5/23/2017	640						
5/24/2017		230	430	130	370	9.6	
10/9/2017							420
10/10/2017	520		140				
10/11/2017				120	230	2.9 (J)	
4/17/2018				170			230
4/18/2018	580	130	170		96	<1	
8/14/2018	560						720
8/15/2018			130	89	400	<1	
4/7/2019				170	280	3.4 (J)	
4/9/2019		<5	130				
4/10/2019	510						790
9/24/2019	656						1070
9/25/2019				62.8	158		
9/26/2019			204			<1	
3/23/2020		81.3	126				
3/26/2020	637			173	72.1	6.32	1100
9/22/2020			178				
9/23/2020	602			69.1	84.7	<1	975
4/19/2021		121	116				
4/20/2021					48.7		
4/21/2021	725			137		3.25	865
9/28/2021	751	20.8	101				
9/29/2021					80.1		
9/30/2021				135		11	881
4/25/2022							726
4/26/2022		86.5	122				
4/27/2022				129		10.2	
5/3/2022	867				64.3		
10/11/2022	732						767
10/12/2022			177				
10/17/2022				69.9	55.4	<1	
4/10/2023	678						
4/11/2023							602
4/12/2023				123	50	<1	
4/18/2023		38.4	114				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/6/2023 2:41 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
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			
9/19/2016	<0.001							
9/20/2016		<0.001			<0.001			
9/21/2016			<0.001			<0.001		
11/29/2016	<0.001					<0.001		
11/30/2016		<0.001			<0.001			
12/1/2016			<0.001					
1/30/2017						<0.001		
1/31/2017	<0.001							0.00015 (J)
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)
5/24/2017		<0.001	<0.001					
5/25/2017				<0.001	<0.001			
4/17/2018	<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					
4/9/2019		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
4/10/2019	<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			
11/18/2019							<0.001	
1/30/2020							<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			
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
9/28/2021						<0.001	<0.001	
9/29/2021								<0.001
9/30/2021	<0.001	<0.001						
10/1/2021			<0.001	<0.001	<0.001			
4/25/2022				<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/6/2023 2:41 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
4/26/2022								<0.001
4/27/2022		<0.001	<0.001				<0.001	
5/2/2022	<0.001					<0.001		
10/11/2022	<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
4/18/2023				<0.001	<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								<0.001
5/18/2016								<0.001
7/19/2016								<0.001
8/4/2016	<0.001							
9/19/2016								<0.001
9/21/2016	<0.001							
11/29/2016								<0.001
12/1/2016	<0.001							
1/31/2017	<0.001							<0.001
5/23/2017	9.5E-05 (J)							<0.001
4/17/2018	<0.001							<0.001
8/14/2018								<0.001
8/15/2018	<0.001							
4/7/2019			<0.001			<0.001	<0.001	
4/8/2019				<0.001	<0.001			
4/10/2019	<0.001							<0.001
7/31/2019			<0.001	<0.001	<0.001			
8/1/2019						<0.001	<0.001	
9/24/2019			<0.001			<0.001		<0.001
9/25/2019				<0.001			<0.001	
9/26/2019	<0.001				<0.001			
11/19/2019				<0.001	<0.001	<0.001		
11/20/2019			<0.001				<0.001	
1/29/2020							<0.001	
1/30/2020			<0.001	<0.001	<0.001	<0.001		
3/23/2020	<0.001		<0.001	<0.001				
3/25/2020					<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	
9/21/2020			<0.001					
9/22/2020				<0.001	<0.001	<0.001	<0.001	
9/23/2020								<0.001
9/24/2020	<0.001							
4/19/2021					<0.001	<0.001		
4/20/2021			<0.001	<0.001			<0.001	
4/22/2021	<0.001							<0.001
9/28/2021					<0.001		<0.001	
9/29/2021	<0.001	<0.001				<0.001		
9/30/2021								<0.001
10/4/2021			<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			
5/4/2022	<0.001							
10/11/2022								<0.001
10/12/2022	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
10/18/2022							<0.001	
4/11/2023								<0.001
4/12/2023			<0.001	<0.001	<0.001	<0.001		
4/13/2023	<0.001	<0.001					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	<0.001	<0.001						<0.001
4/7/2019			<0.001					
4/8/2019				<0.001				
7/31/2019			<0.001					
8/1/2019	<0.001	<0.001		<0.001				<0.001
9/24/2019								<0.001
9/25/2019	<0.001	<0.001						
9/26/2019			<0.001					
9/27/2019				<0.001				
11/18/2019								<0.001
11/19/2019		<0.001	<0.001	<0.001				
11/20/2019	<0.001							
1/29/2020	<0.001	<0.001	<0.001					<0.001
1/30/2020				<0.001				
3/23/2020			<0.001	<0.001				
3/25/2020	<0.001	<0.001						
3/26/2020								<0.001
6/23/2020	<0.001		<0.001					<0.001
6/24/2020		<0.001		<0.001	<0.001	<0.001	<0.001	
9/21/2020	<0.001		<0.001					
9/22/2020		<0.001			<0.001			<0.001
9/23/2020						<0.001		
9/24/2020				<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	<0.001
9/28/2021					<0.001			
9/29/2021								<0.001
9/30/2021			<0.001					
10/1/2021				<0.001				
10/4/2021	<0.001	<0.001						
10/5/2021						<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	<0.001	
10/11/2022	<0.001							<0.001
10/13/2022		<0.001	<0.001			<0.001		
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		
4/18/2023				<0.001			<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	0.00023 (J)	<0.001		<0.001	<0.001		<0.001
3/30/2016						<0.001	
5/18/2016							<0.001
5/19/2016	0.00025 (J)	<0.001		<0.001	<0.001	<0.001	
7/19/2016	0.00023 (J)				<0.001		<0.001
7/20/2016				<0.001		<0.001	
8/4/2016			0.00012 (J)				
9/20/2016	0.00027 (J)		<0.001	<0.001	<0.001	<0.001	<0.001
11/29/2016	0.00031 (J)			<0.001			<0.001
11/30/2016			8.5E-05 (J)		<0.001	<0.001	
1/31/2017	0.0003 (J)			<0.001			<0.001
2/1/2017		<0.001	<0.001		<0.001	<0.001	
5/22/2017							<0.001
5/23/2017	0.00027 (J)						
5/24/2017		<0.001	<0.001	<0.001	<0.001	<0.001	
4/17/2018				<0.001			<0.001
4/18/2018	0.0003 (J)	<0.001	<0.001		<0.001	<0.001	
8/14/2018	0.00023 (J)						<0.001
8/15/2018			<0.001	<0.001	<0.001	<0.001	
4/7/2019				<0.001	<0.001	<0.001	
4/9/2019		<0.001	<0.001				
4/10/2019	0.00023 (J)						<0.001
9/24/2019	<0.001						<0.001
9/25/2019				<0.001	<0.001		
9/26/2019			<0.001			<0.001	
3/23/2020		<0.001	<0.001				
3/26/2020	<0.001			<0.001	<0.001	<0.001	<0.001
9/22/2020			<0.001				
9/23/2020	<0.001			<0.001	<0.001	<0.001	<0.001
4/19/2021		<0.001	<0.001				
4/20/2021					<0.001		
4/21/2021	<0.001			<0.001		<0.001	<0.001
9/28/2021	<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
4/26/2022		<0.001	<0.001				
4/27/2022				<0.001		<0.001	
5/3/2022	<0.001				<0.001		
10/11/2022	<0.001						<0.001
10/12/2022			<0.001				
10/17/2022				<0.001	<0.001	<0.001	
4/10/2023	<0.001						
4/11/2023							<0.001
4/12/2023				<0.001	<0.001	<0.001	
4/18/2023		<0.001	<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/6/2023 2:41 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
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			
9/19/2016	80							
9/20/2016		590			750			
9/21/2016			3300			310		
11/29/2016	110					740		
11/30/2016		570			770			
12/1/2016			2400					
1/30/2017						570		
1/31/2017	98							870
2/1/2017		750		530	670			
2/2/2017			1700					
5/22/2017						350		
5/23/2017	74							580
5/24/2017		570	1700					
5/25/2017				560	550			
10/9/2017	150							
10/10/2017			2800		620	250		
10/11/2017		520						
4/17/2018	140							970
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					
4/9/2019		460	1900	660	660	200	190	
4/10/2019	150							780
8/1/2019							264	
9/23/2019						210	289	
9/24/2019	160							
9/26/2019		458	2840		557			
11/18/2019							236	
1/30/2020							278	
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			
4/19/2021						204	312	
4/20/2021		779	1080					
4/21/2021				640	575			
4/22/2021	220							667
9/28/2021						559	340	
9/29/2021								522

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/6/2023 2:41 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
9/30/2021	232	445						
10/1/2021			968	524	242			
4/25/2022				516	460			
4/26/2022								613
4/27/2022		708	848				323	
5/2/2022	143					174		
10/11/2022	167							
10/13/2022		452			537			
10/17/2022			622				339	
10/18/2022						187		
4/11/2023	188						308	
4/12/2023		563	634					
4/13/2023								466
4/18/2023				606	447	228		

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14A	MW-14B	MW-15	MW-16	MW-17	MW-18	MW-19	MW-2 (bg)
3/29/2016								46
5/18/2016								56
7/19/2016								42
8/4/2016	1100							
9/19/2016								30
9/21/2016	1100							
11/29/2016								76
12/1/2016	1100							
1/31/2017	1200							32
5/23/2017	1100							26
10/10/2017	1200							46
4/17/2018	1400							38
8/14/2018								50
8/15/2018	1100							
4/7/2019			150			260	210	
4/8/2019				700	1300			
4/10/2019	1000							44
7/31/2019			104	726	945			
8/1/2019						196	258	
9/24/2019			128			220		66.2
9/25/2019				602			283	
9/26/2019	933				765			
11/19/2019				576	792	157		
11/20/2019			98.9				229	
1/29/2020							145	
1/30/2020			106	555	1050	263		
3/23/2020	636		76	463				
3/25/2020					872	227	220	
3/26/2020								69.3
6/22/2020			87.7	520				
6/23/2020					998	208	220	
9/21/2020			112					
9/22/2020				517	642	170	217	
9/23/2020								64.5
9/24/2020	684							
4/19/2021					724	238		
4/20/2021			83.3	469			166	
4/22/2021	512							56
9/28/2021					695		170	
9/29/2021	518	955				163		
9/30/2021								70.5
10/4/2021			66	492				
4/26/2022		454	70	440		234	188	
5/2/2022								37.8
5/3/2022					600			
5/4/2022	492							
10/11/2022								51.5
10/12/2022	548	1060	79.5	385	672	239		
10/18/2022							235	
4/11/2023								58.4
4/12/2023			85.7	322	603	208		
4/13/2023	392	294					126	

Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-3
4/6/2019	170	220						24
4/7/2019			360					
4/8/2019				2000				
7/31/2019			420					
8/1/2019	245	330		2100				<25.2
9/24/2019								70.7
9/25/2019	212	300						
9/26/2019			390					
9/27/2019				2200				
11/18/2019								52.5
11/19/2019		296	383	2170				
11/20/2019	202							
1/29/2020	146	265	364					52.6
1/30/2020				2910				
3/23/2020			402	2200				
3/25/2020	208	314						
3/26/2020								80
6/23/2020	246		429					66.6
6/24/2020		369		2830	2310	2620	224	
9/21/2020	242		434					
9/22/2020		298			1930			56
9/23/2020						2850		
9/24/2020				2430			202	
4/20/2021	233		406					
4/21/2021		424			1810			
4/22/2021				2730		1550	272	125
9/28/2021					682			
9/29/2021								61.3
9/30/2021			420					
10/1/2021				2860				
10/4/2021	180	294						
10/5/2021						1820	368	
5/2/2022			404					
5/3/2022		313			1080			61.4
5/4/2022	206			2930		1590	396	
10/11/2022	185							73.6
10/13/2022		312	393			2740		
10/18/2022				1780	1240		338	
4/11/2023	210	312						
4/12/2023			402					
4/13/2023					543	1360		
4/18/2023				1950			263	<25.2

ND substitution: RL or RL/2 if <15% NDs.

Time Series

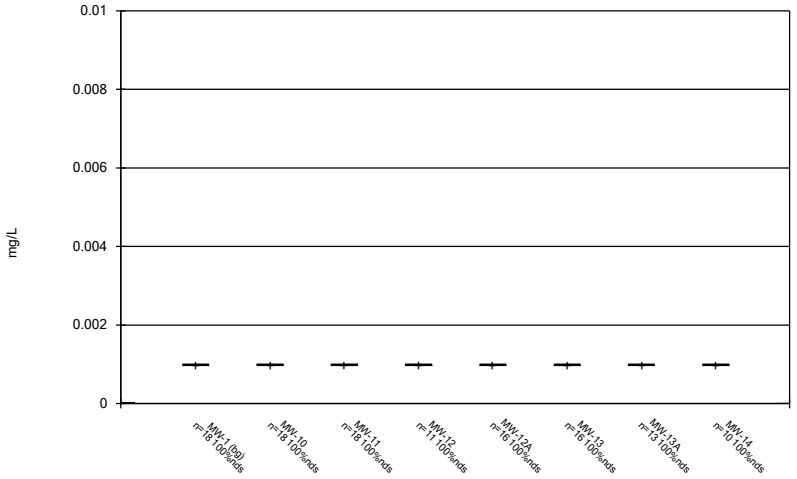
Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/6/2023 2:41 PM View: Descriptive

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
3/29/2016	1700	770		490	1200		430
3/30/2016						210	
5/18/2016							530
5/19/2016	2000	680		430	1600	270	
7/19/2016	1900				740		760
7/20/2016				340		330	
8/4/2016			2500				
9/20/2016	1800		2300	370	1800	320	920
11/29/2016	2400			380			1600
11/30/2016			1800		2800	300	
1/31/2017	310			410			1100
2/1/2017		1300	2200		770	300	
5/22/2017							1300
5/23/2017	1800						
5/24/2017		940	1600	400	1100	280	
10/9/2017							1500
10/10/2017	1900		1300				
10/11/2017				410	710	280	
4/17/2018				480			720
4/18/2018	1700	880	1300		410	200	
8/14/2018	1700						1700
8/15/2018			1000	400	1100	320	
4/7/2019				370	860	190	
4/9/2019		700	920				
4/10/2019	1800						1900
9/24/2019	1890						2360
9/25/2019				298	580		
9/26/2019			794			270	
3/23/2020		555	612				
3/26/2020	1650			398	356	241	2300
9/22/2020			646				
9/23/2020	1850			337	366	250	2350
4/19/2021		725	579				
4/20/2021					310		
4/21/2021	1990			455		229	1850
9/28/2021	1700	698	640				
9/29/2021					323		
9/30/2021				421		256	1840
4/25/2022							1450
4/26/2022		658	652				
4/27/2022				368		202	
5/3/2022	1940				295		
10/11/2022	1810						1390
10/12/2022			608				
10/17/2022				372	337	320	
4/11/2023							1200
4/12/2023				357	278	198	
4/18/2023	1600	645	524				

Figure B. Box Plots

Box & Whiskers Plot



Constituent: Antimony Analysis Run 6/6/2023 2:43 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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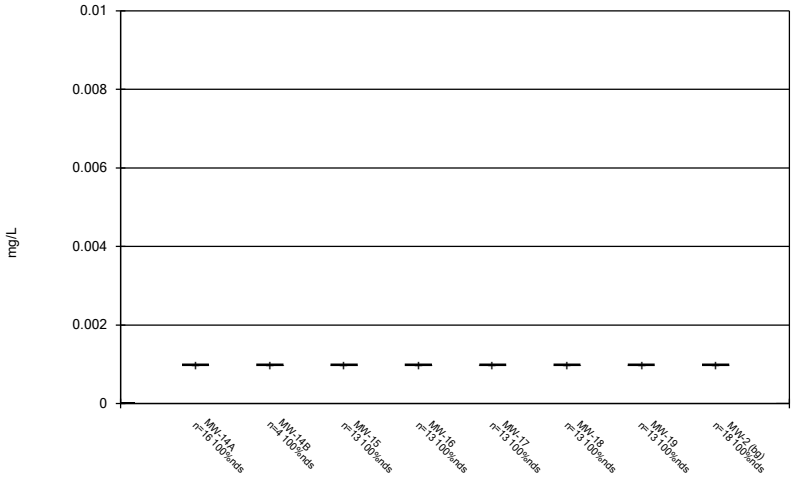
Box & Whiskers Plot



Constituent: Antimony Analysis Run 6/6/2023 2:43 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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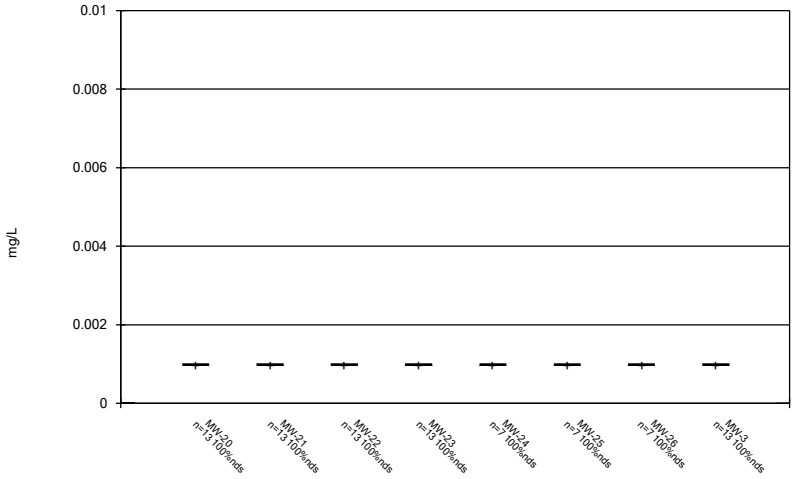
Box & Whiskers Plot



Constituent: Antimony Analysis Run 6/6/2023 2:43 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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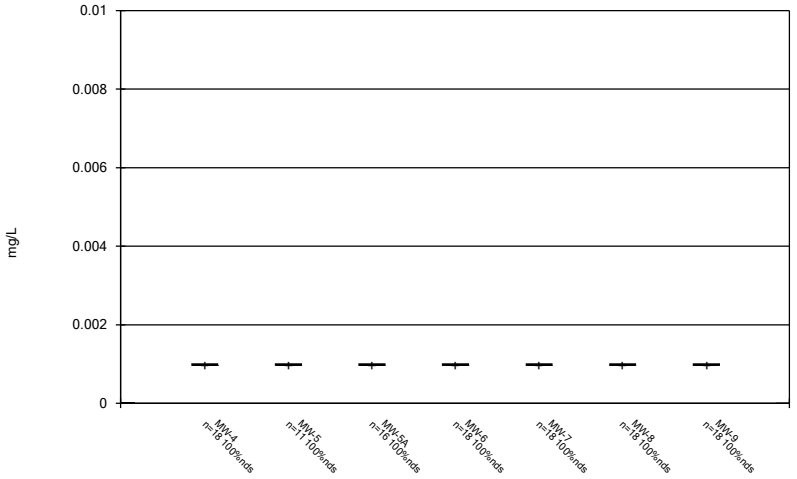
Box & Whiskers Plot



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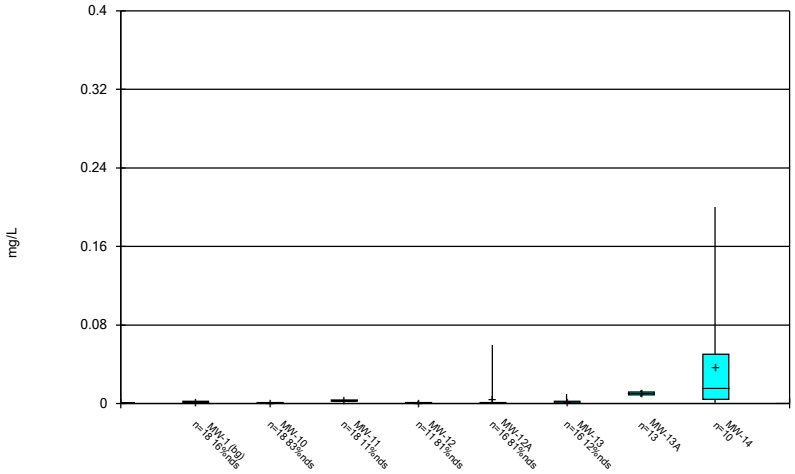
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



Constituent: Arsenic Analysis Run 6/6/2023 2:43 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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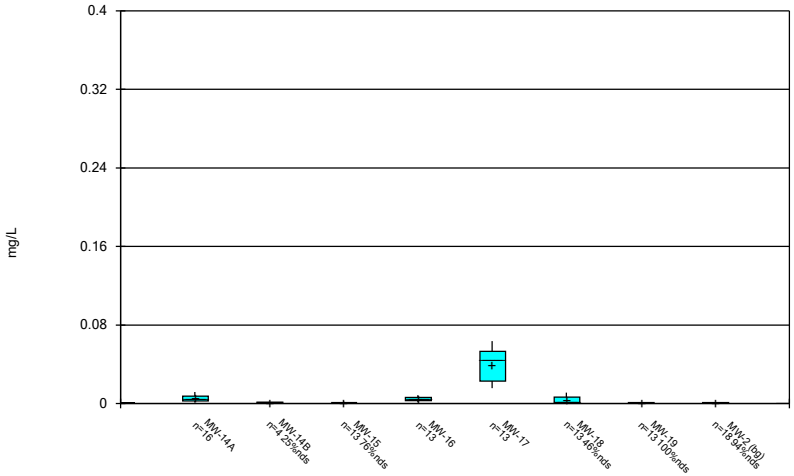
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 6/6/2023 2:43 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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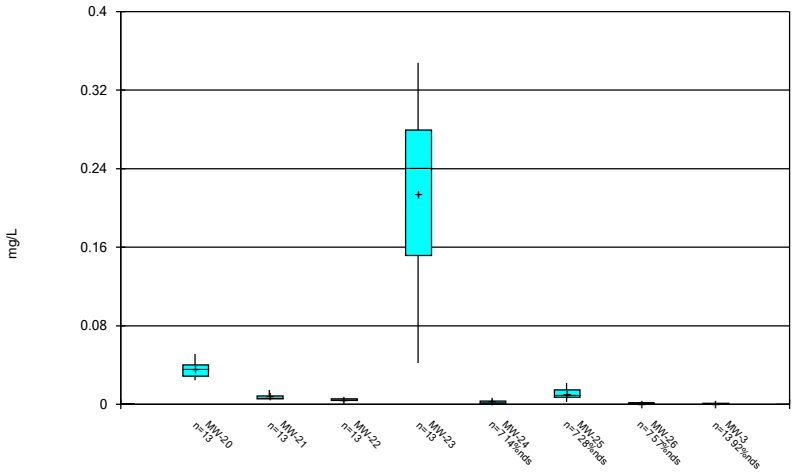
Box & Whiskers Plot



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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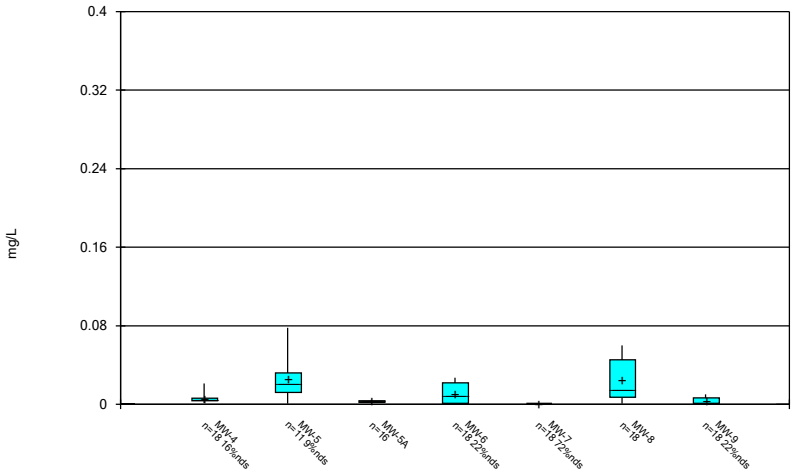
Box & Whiskers Plot



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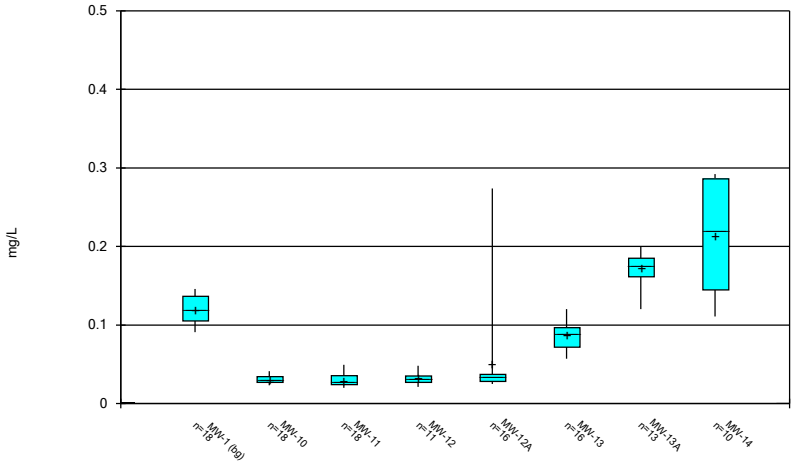
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



Constituent: Barium, Total Analysis Run 6/6/2023 2:43 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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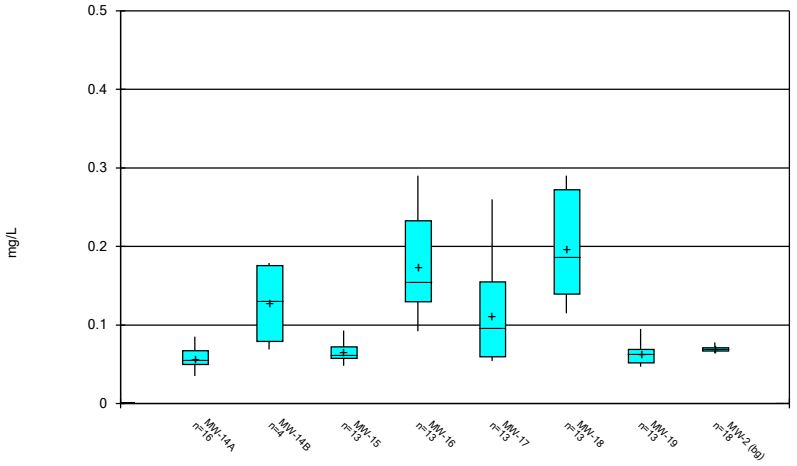
Box & Whiskers Plot



Constituent: Barium, Total Analysis Run 6/6/2023 2:43 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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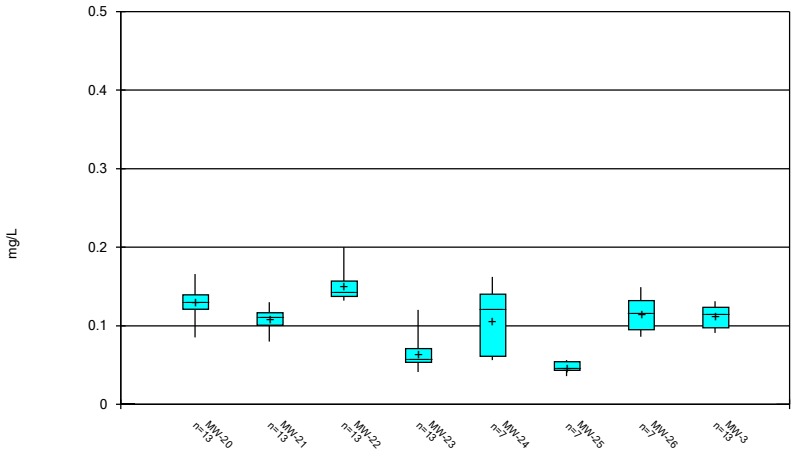
Box & Whiskers Plot



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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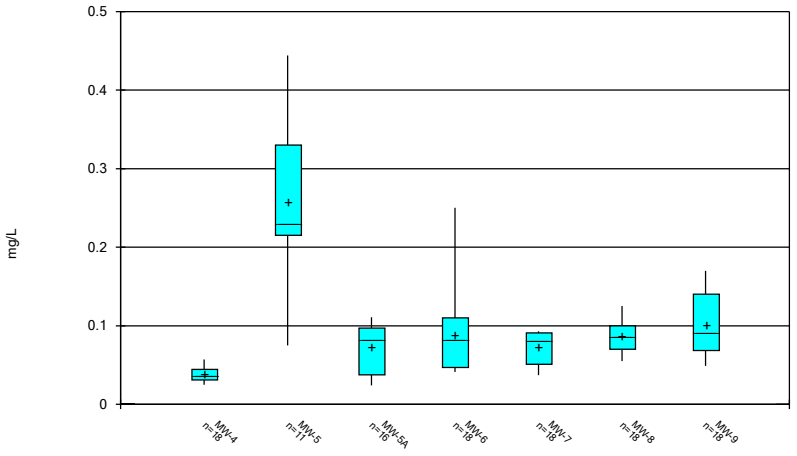
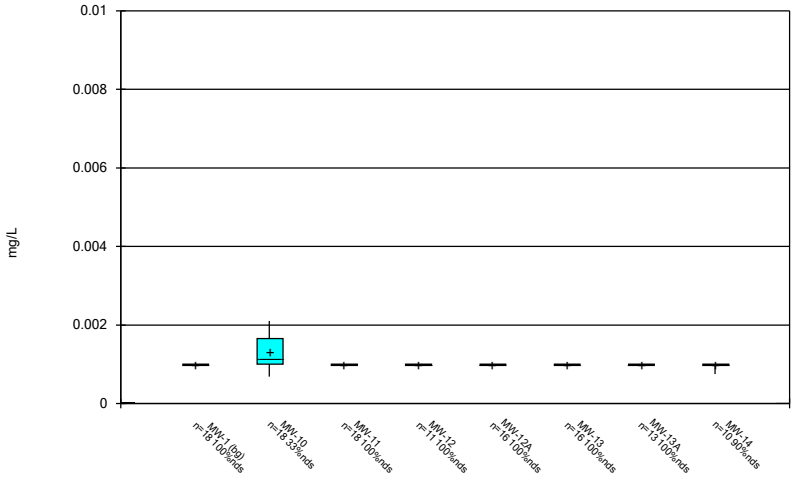
Box & Whiskers Plot



Constituent: Barium, Total Analysis Run 6/6/2023 2:43 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 6/6/2023 2:43 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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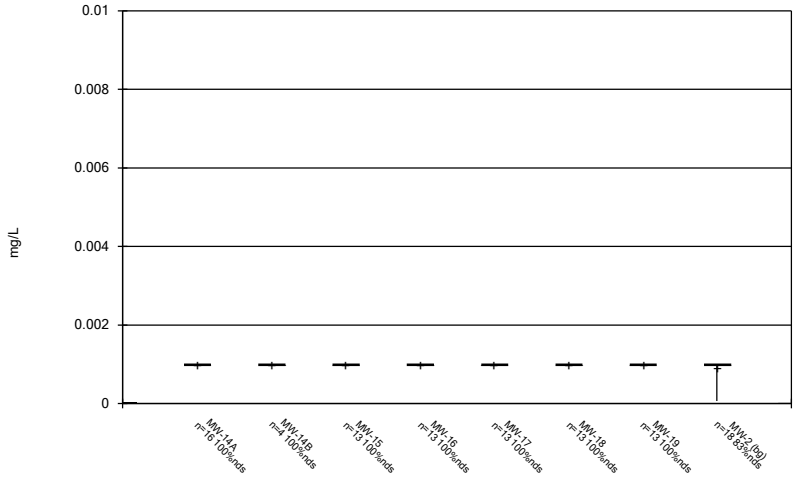
Box & Whiskers Plot



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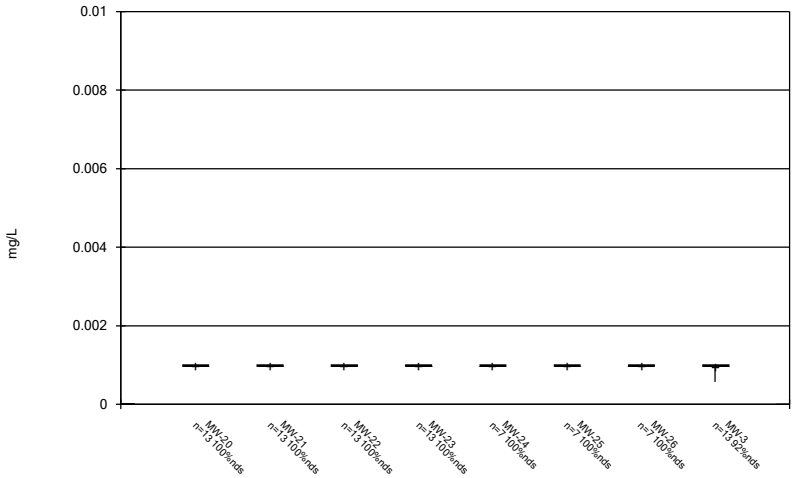
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Box & Whiskers Plot



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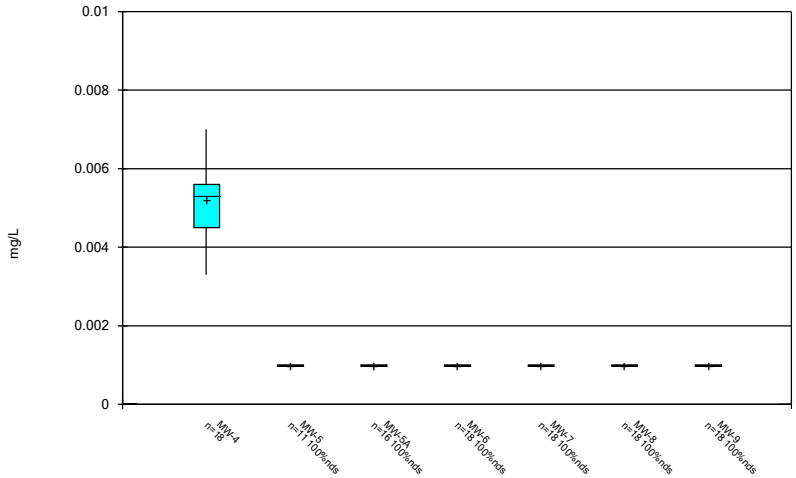
Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Box & Whiskers Plot



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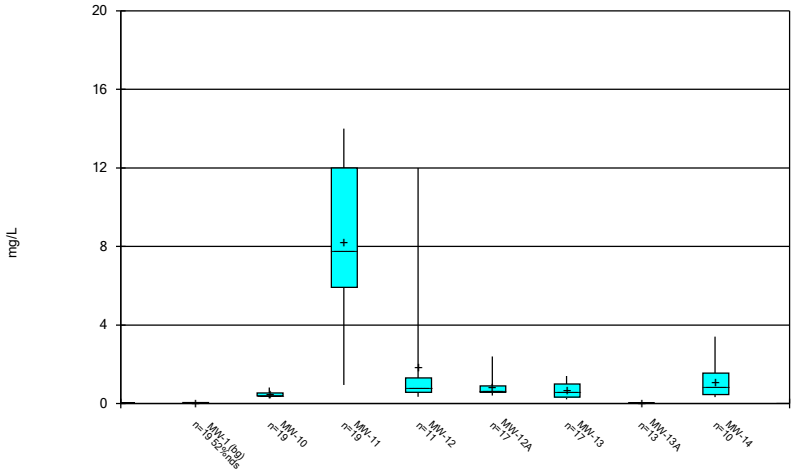
Box & Whiskers Plot



Constituent: Boron, total Analysis Run 6/6/2023 2:43 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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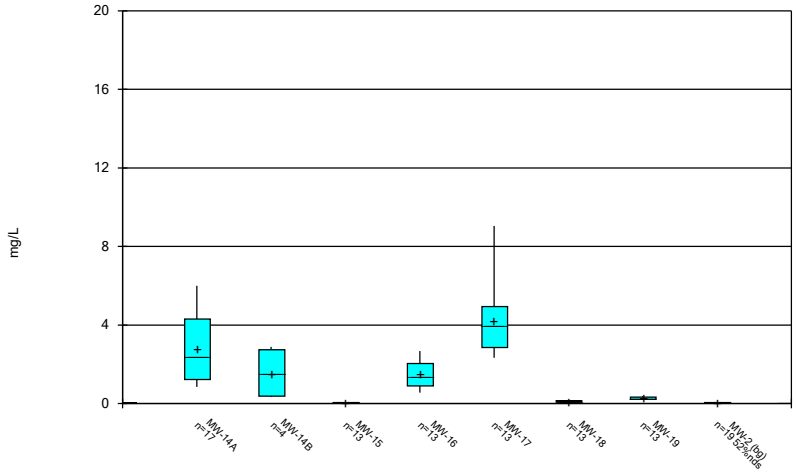
Box & Whiskers Plot



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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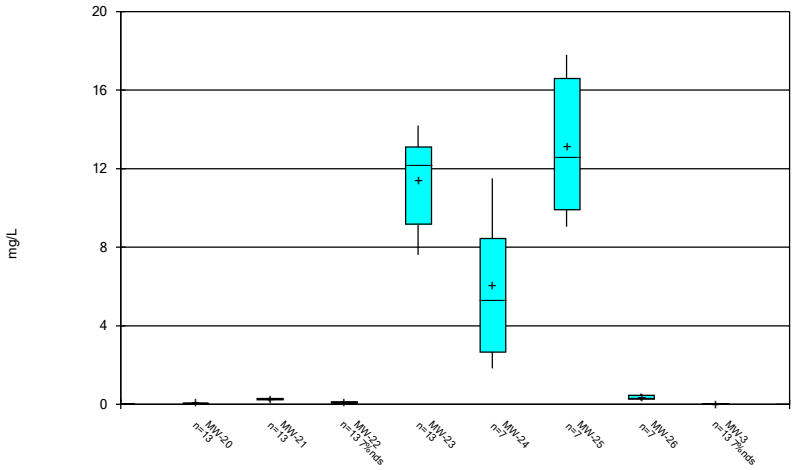
Box & Whiskers Plot



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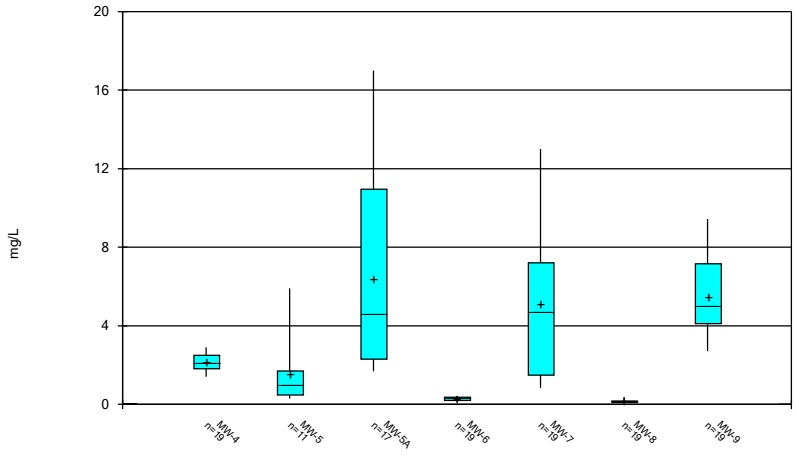
Box & Whiskers Plot



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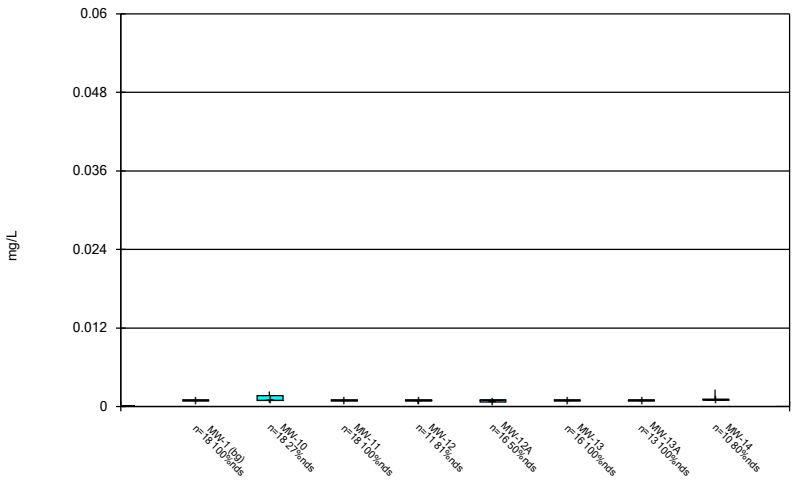
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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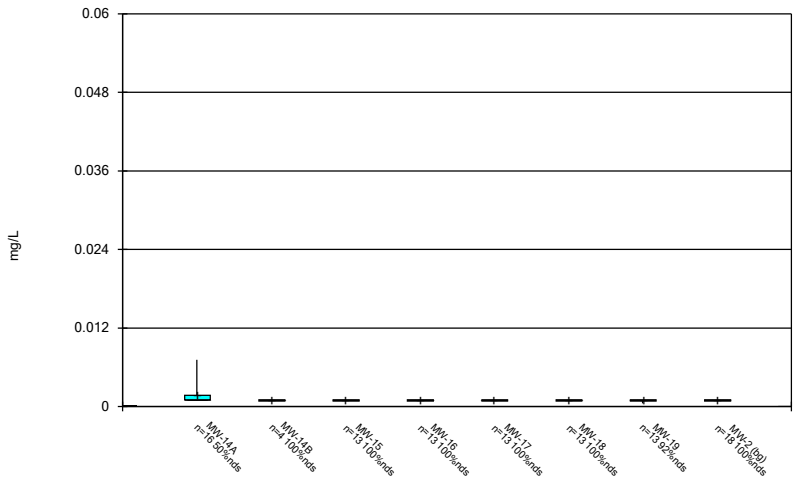
Box & Whiskers Plot



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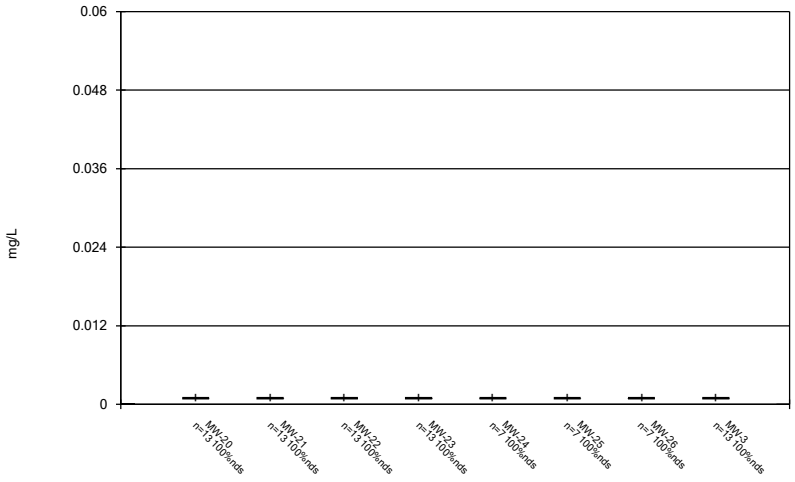
Box & Whiskers Plot



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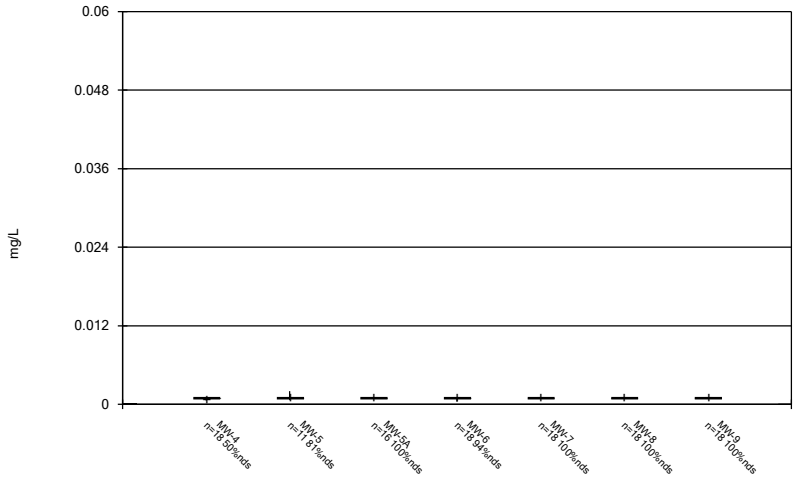
Box & Whiskers Plot



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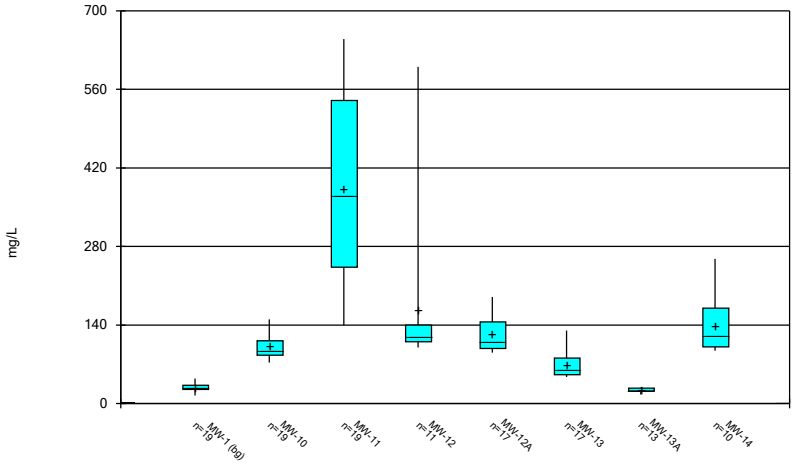
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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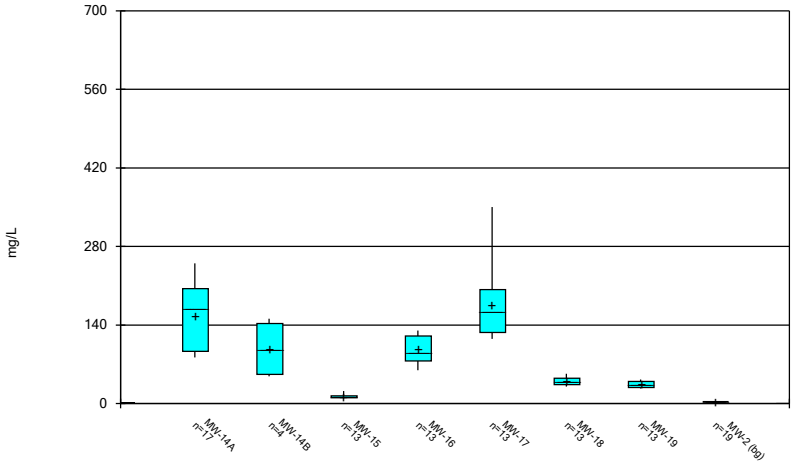
Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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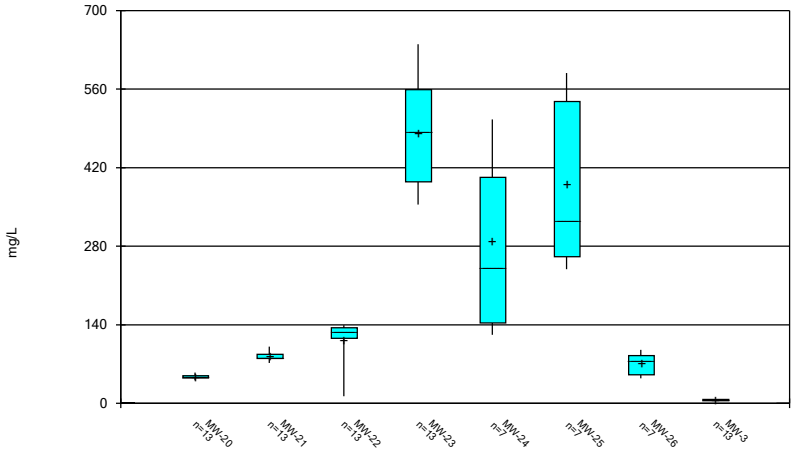
Box & Whiskers Plot



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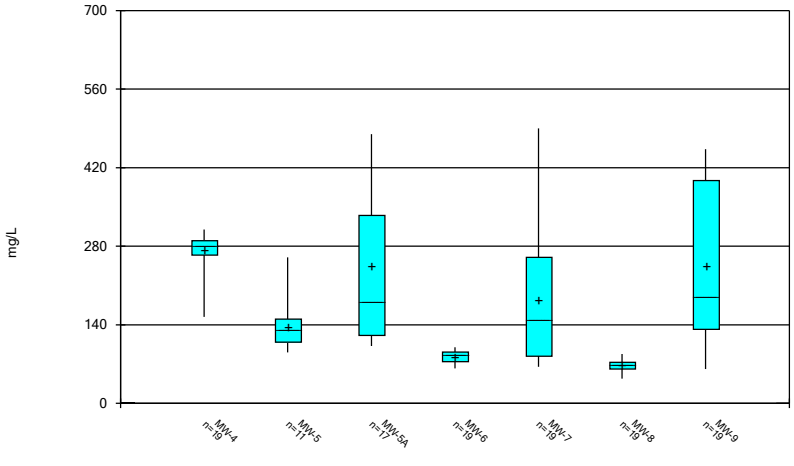
Box & Whiskers Plot



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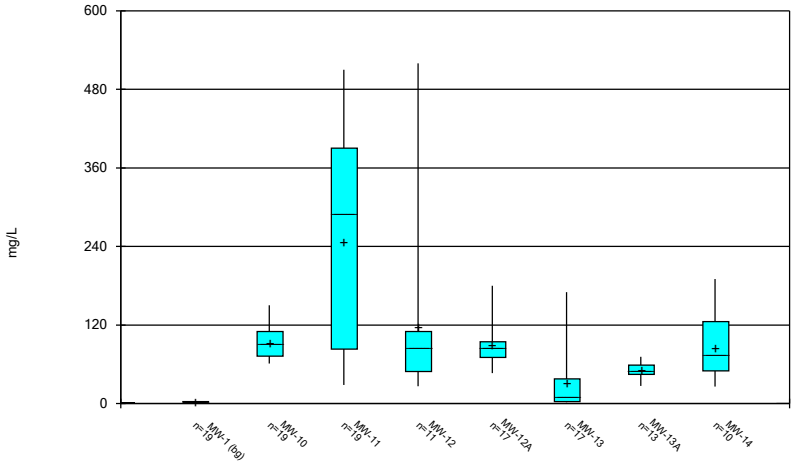
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



Constituent: Chloride, Total Analysis Run 6/6/2023 2:44 PM View: Descriptive
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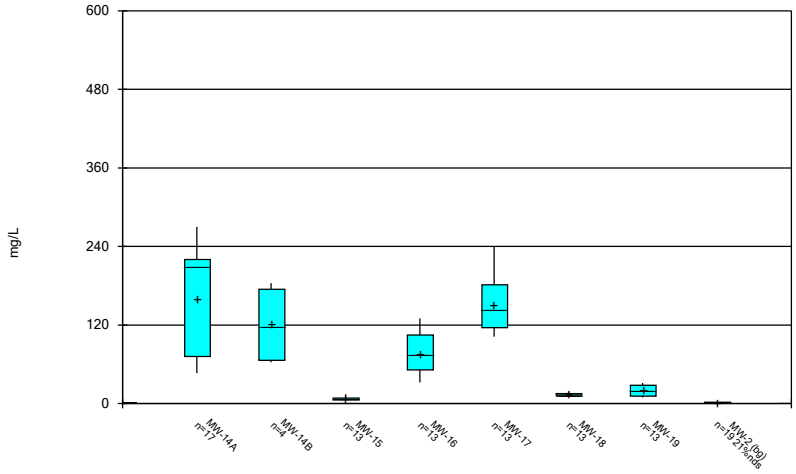
Box & Whiskers Plot



Constituent: Chloride, Total Analysis Run 6/6/2023 2:44 PM View: Descriptive
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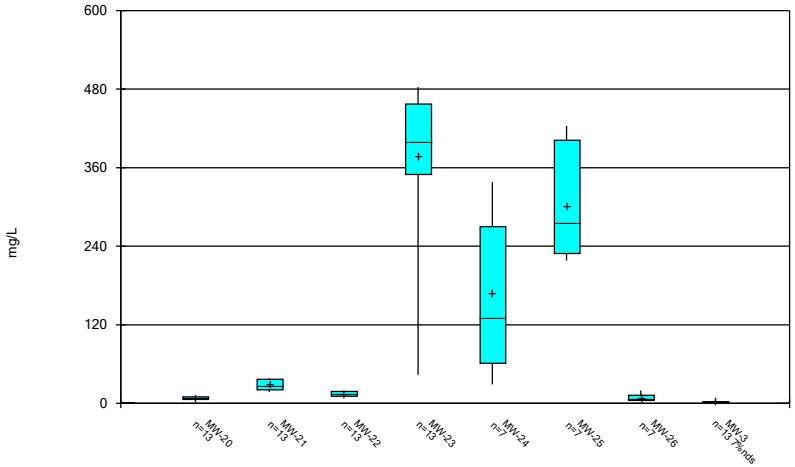
Box & Whiskers Plot



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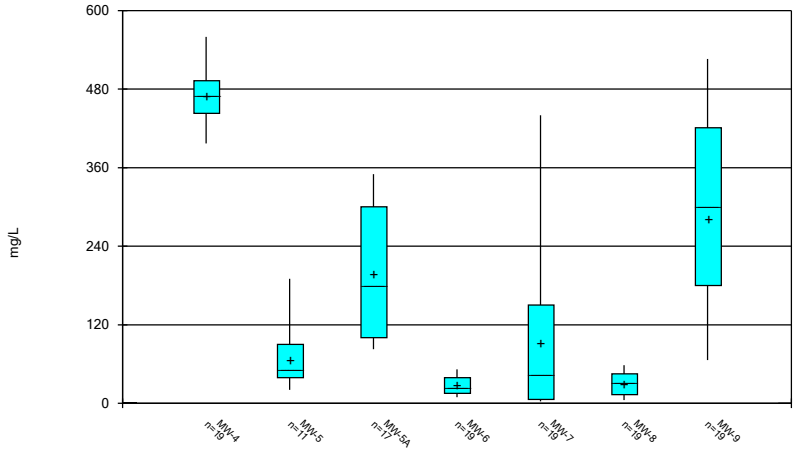
Box & Whiskers Plot



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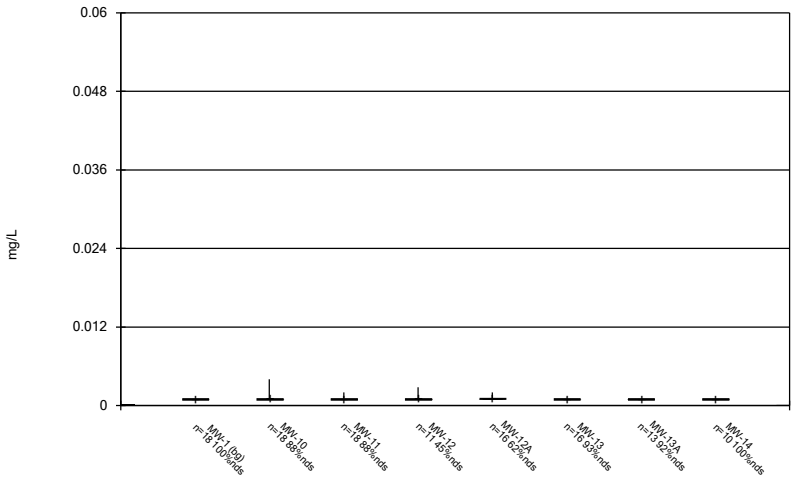
Box & Whiskers Plot



Constituent: Chromium Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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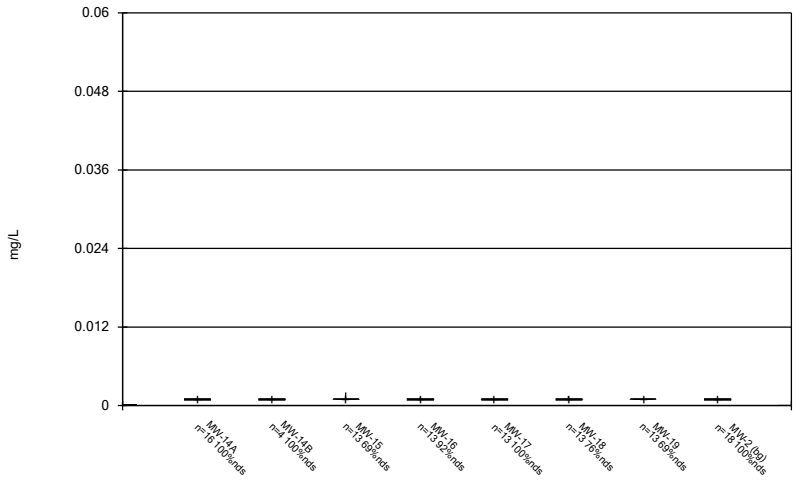
Box & Whiskers Plot



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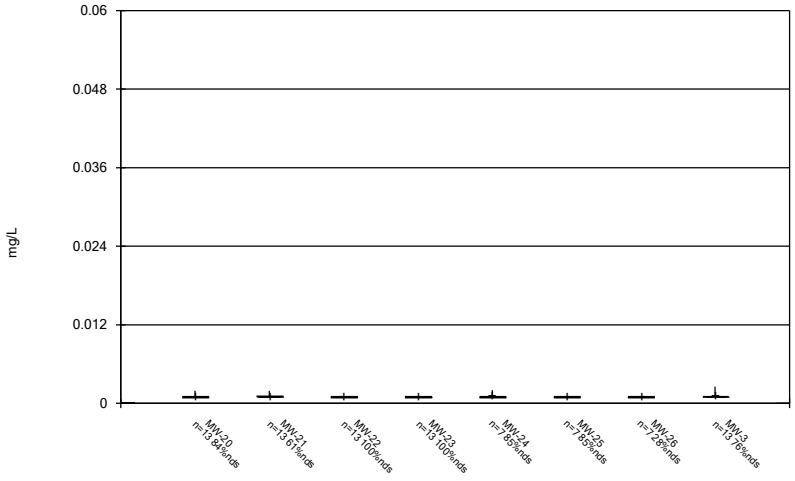
Box & Whiskers Plot



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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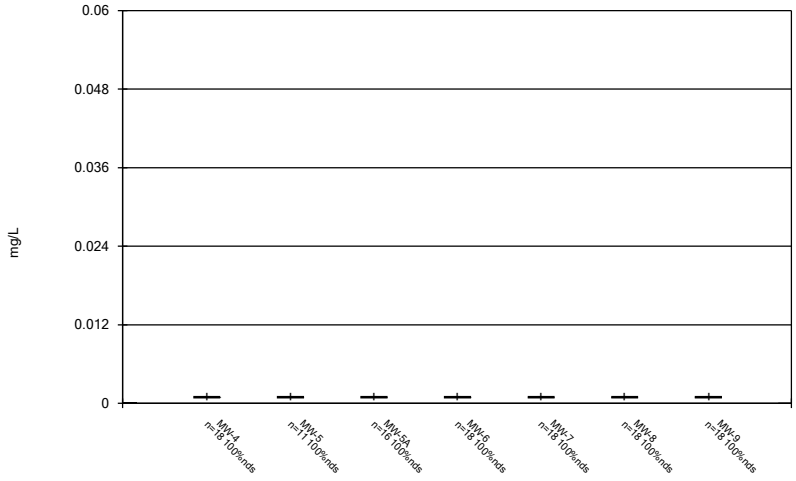
Box & Whiskers Plot



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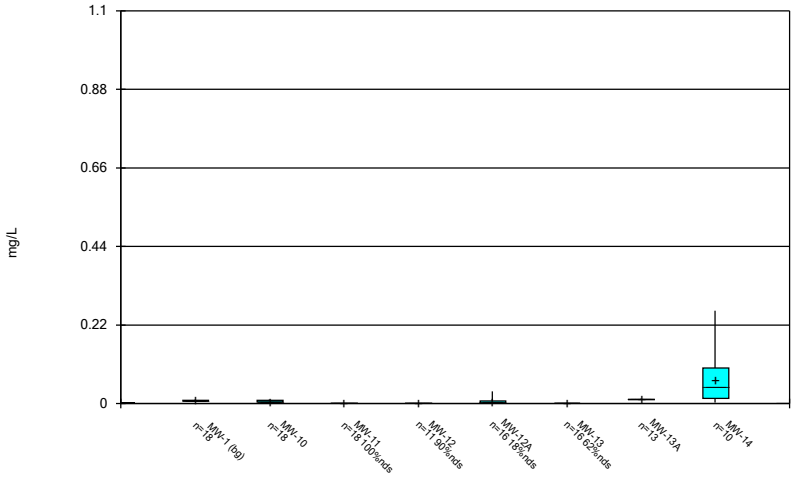
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



Constituent: Cobalt Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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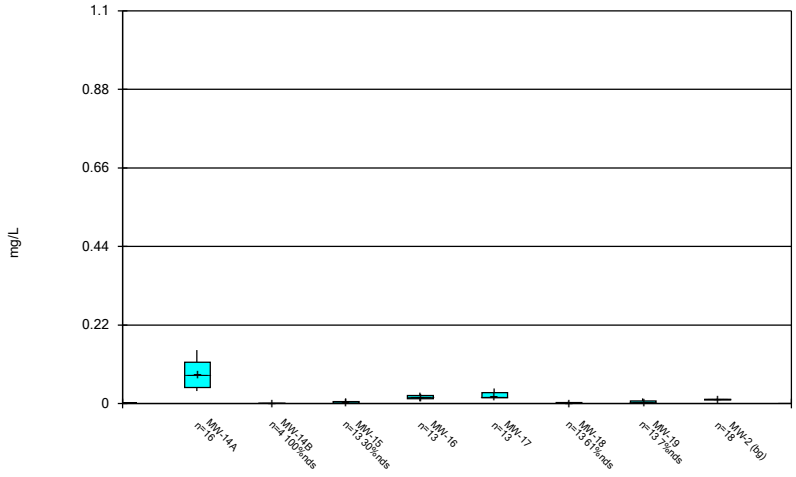
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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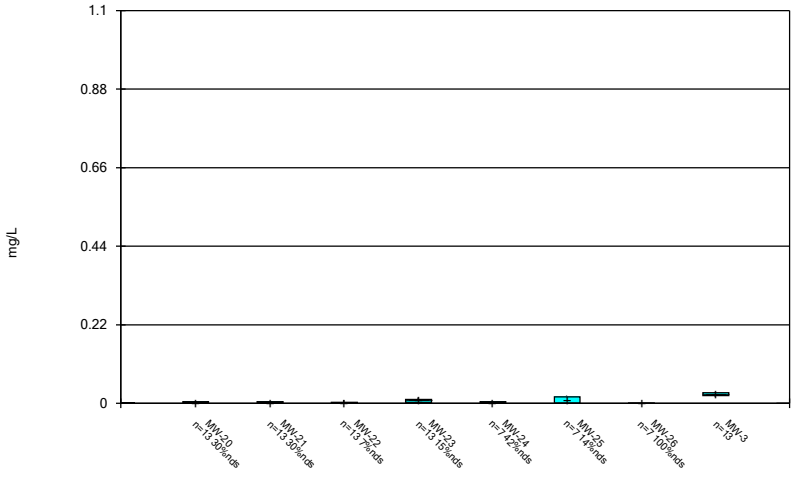
Box & Whiskers Plot



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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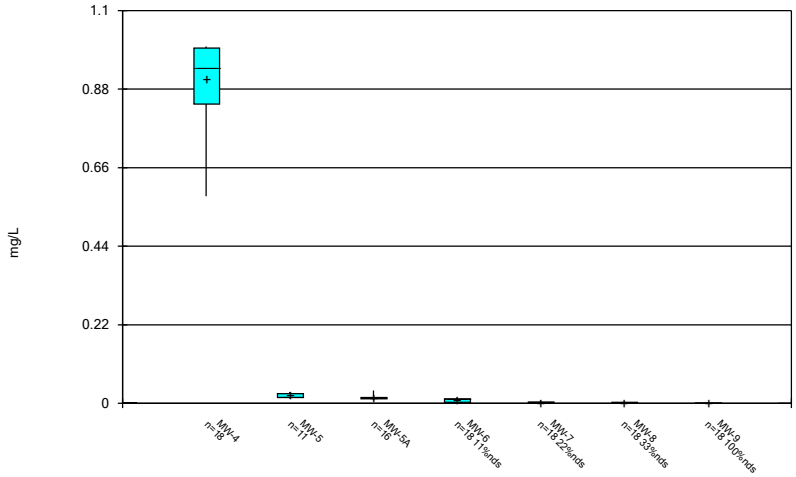
Box & Whiskers Plot



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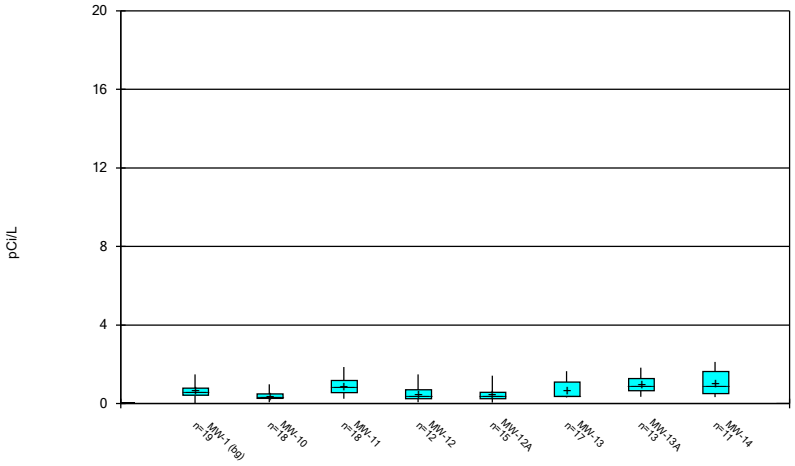
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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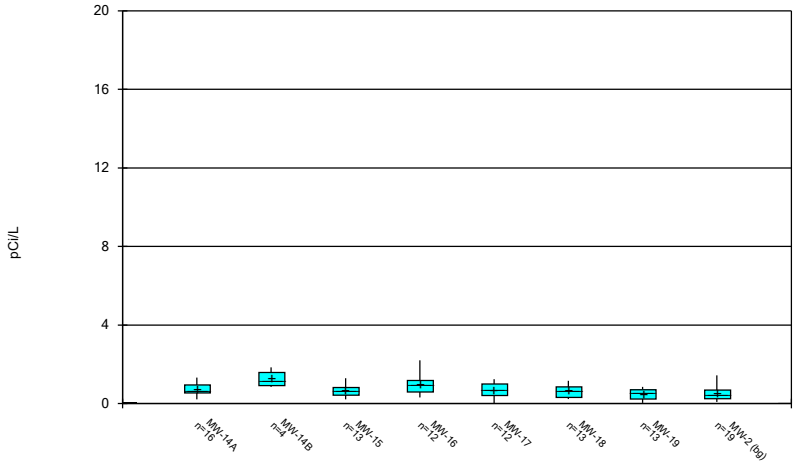
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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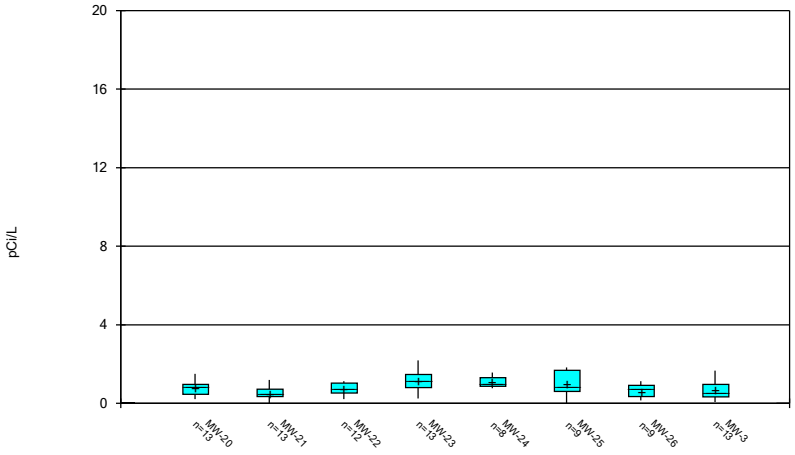
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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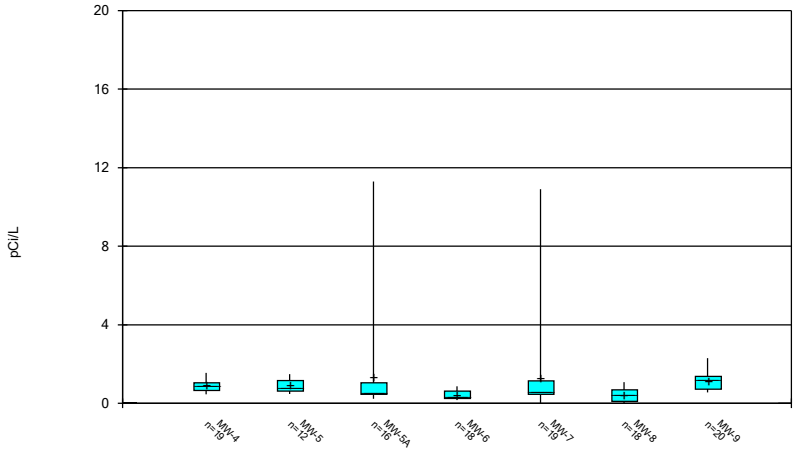
Box & Whiskers Plot



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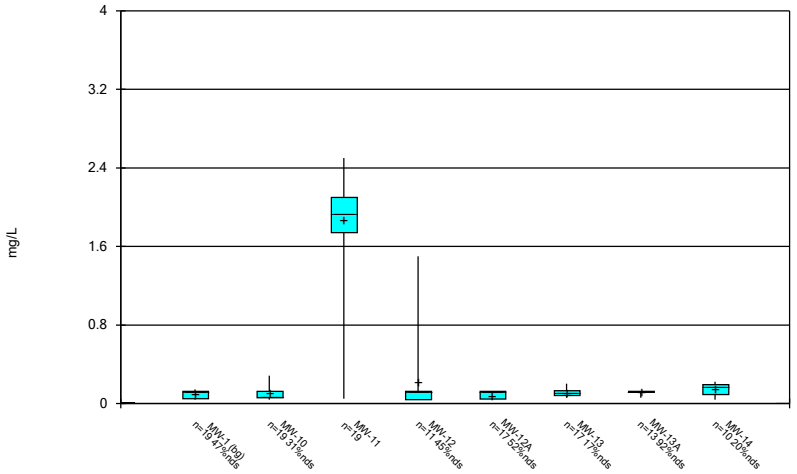
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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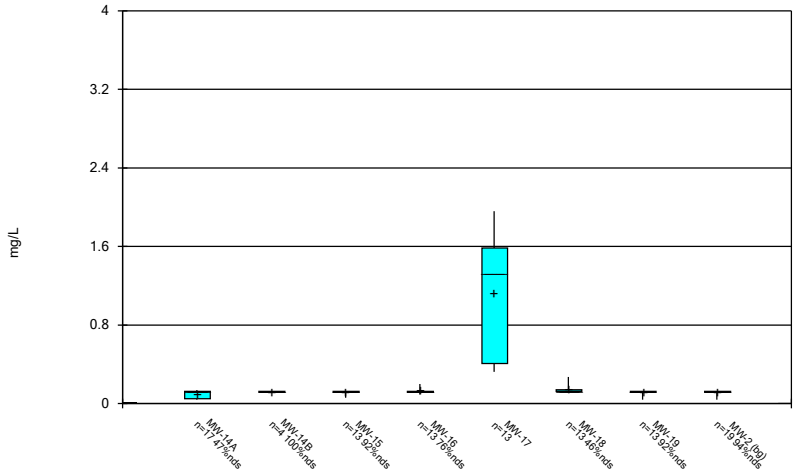
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 6/6/2023 2:44 PM View: Descriptive
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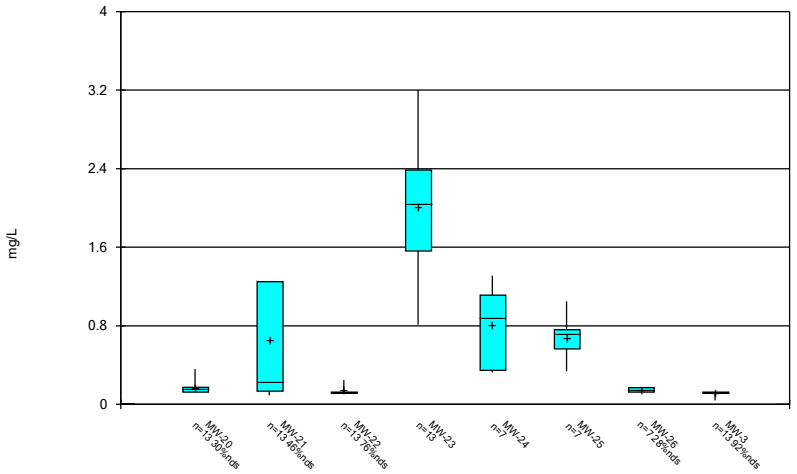
Box & Whiskers Plot



Constituent: Fluoride, total Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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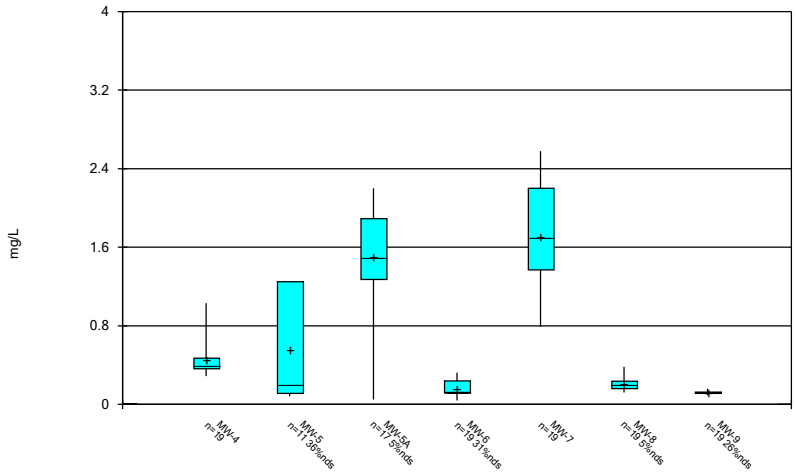
Box & Whiskers Plot



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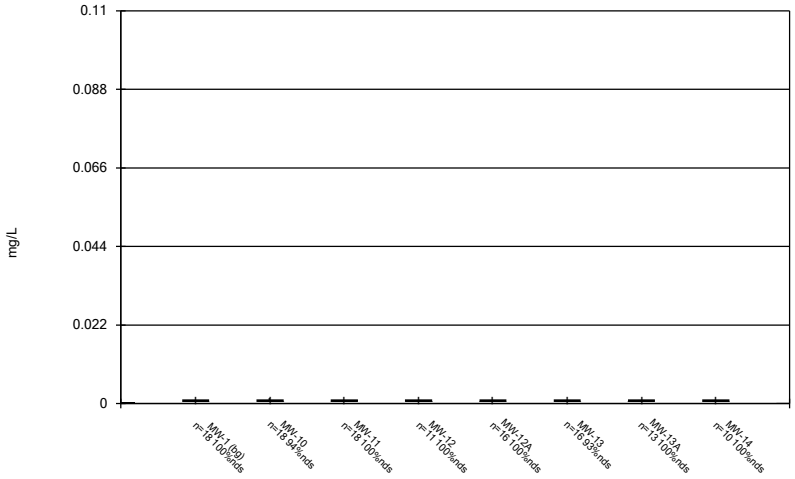
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



Constituent: Lead Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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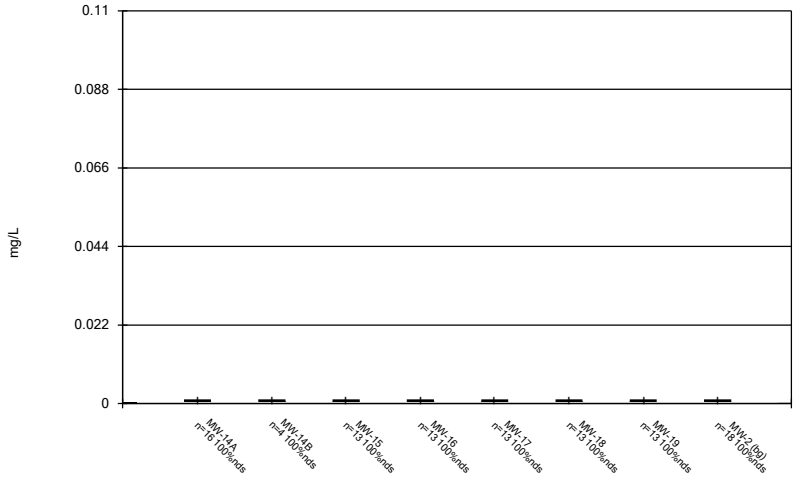
Box & Whiskers Plot



Constituent: Lead Analysis Run 6/6/2023 2:44 PM View: Descriptive
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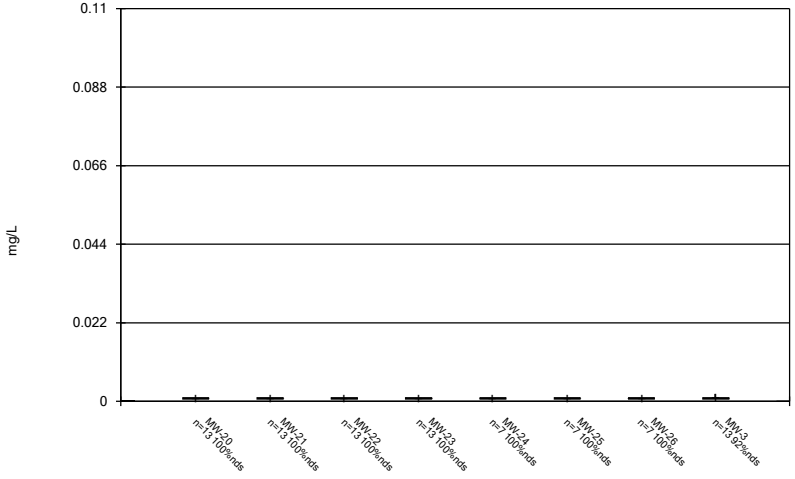
Box & Whiskers Plot



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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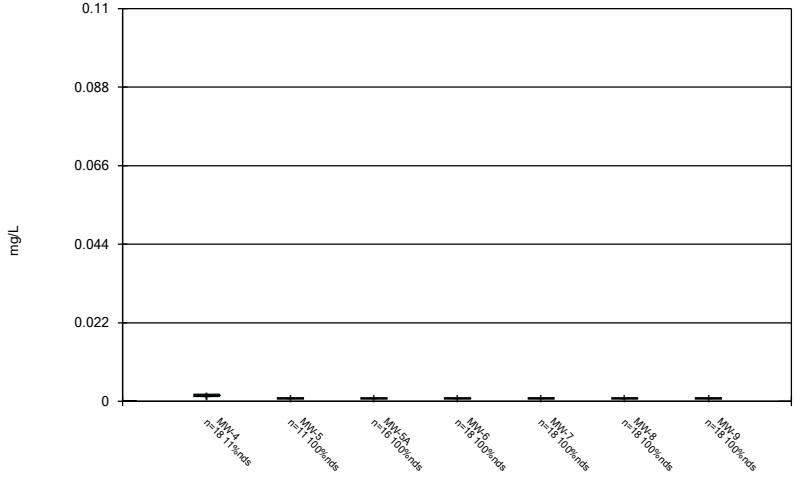
Box & Whiskers Plot



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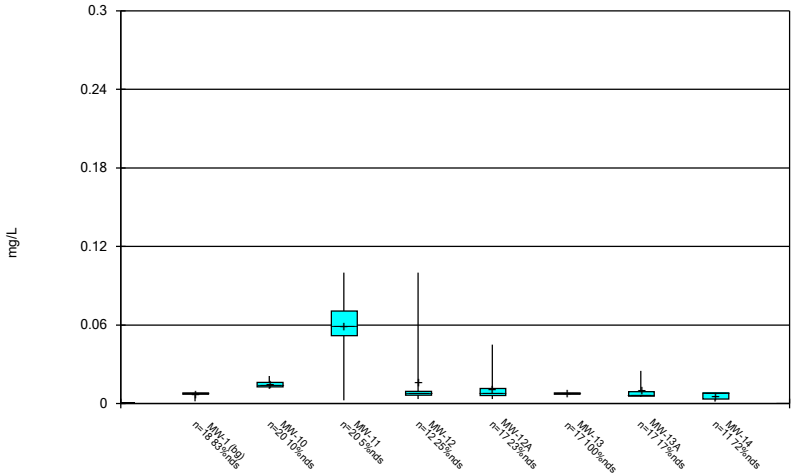
Box & Whiskers Plot



Constituent: Lithium Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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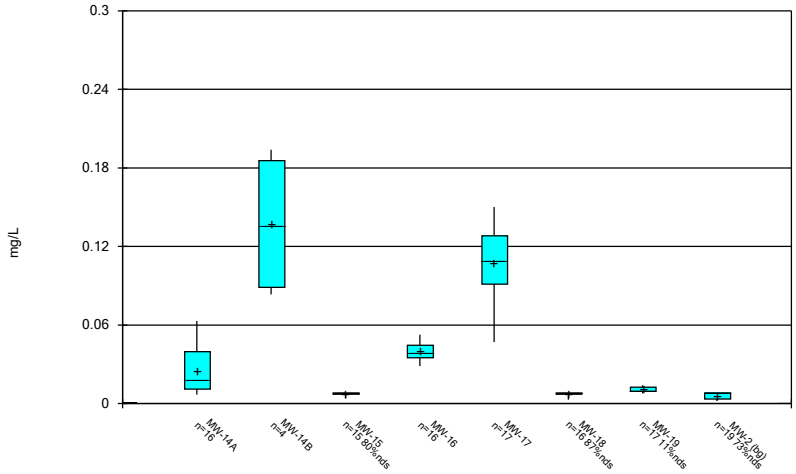
Box & Whiskers Plot



Constituent: Lithium Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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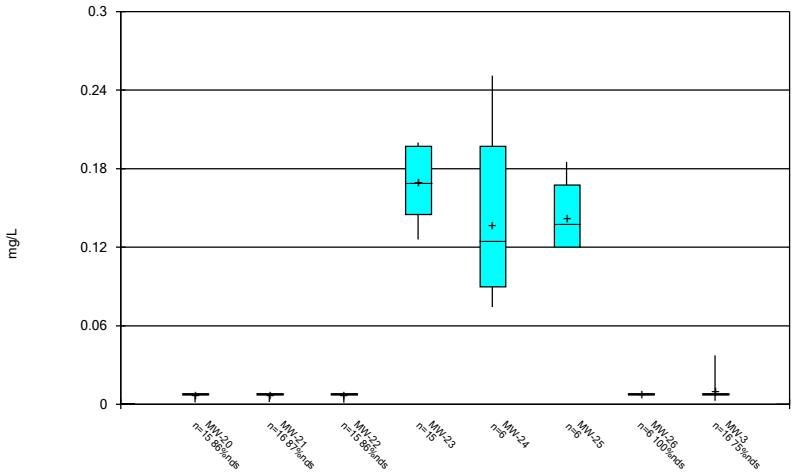
Box & Whiskers Plot



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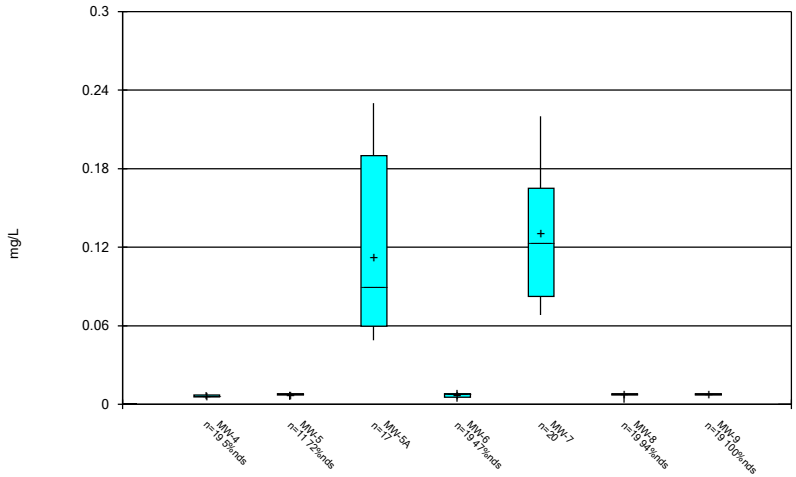
Box & Whiskers Plot



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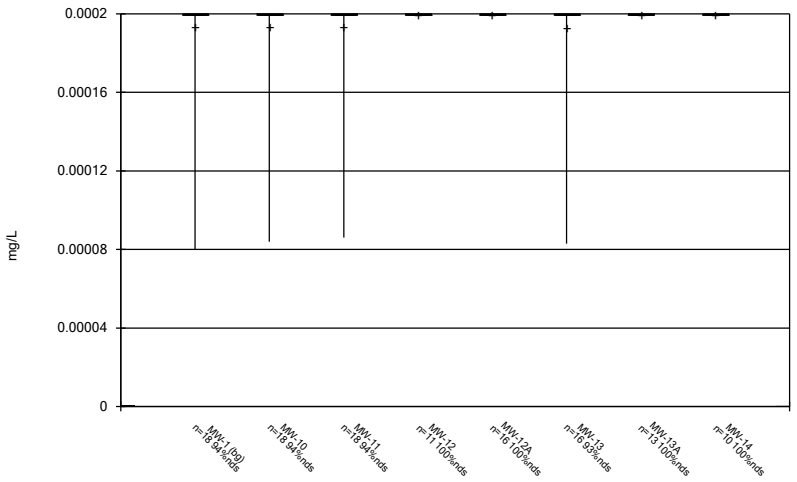
Box & Whiskers Plot



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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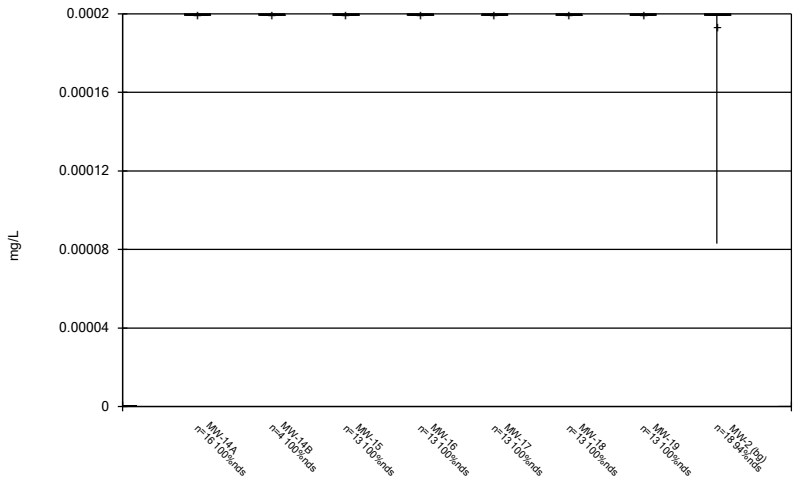
Box & Whiskers Plot



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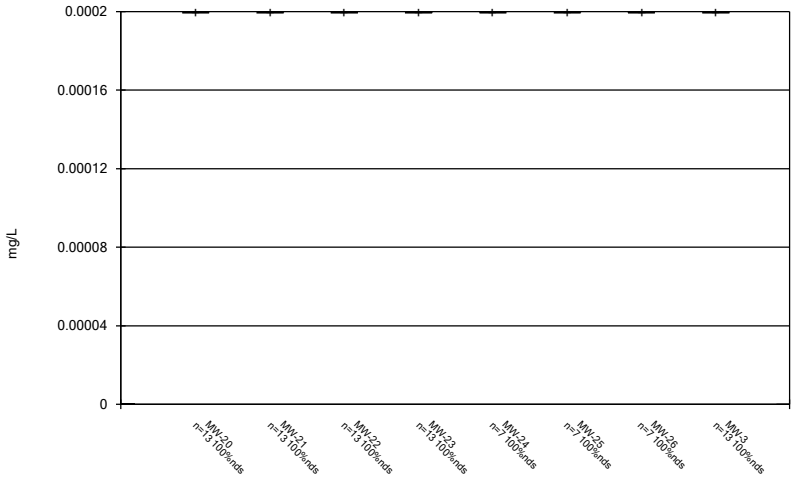
Box & Whiskers Plot



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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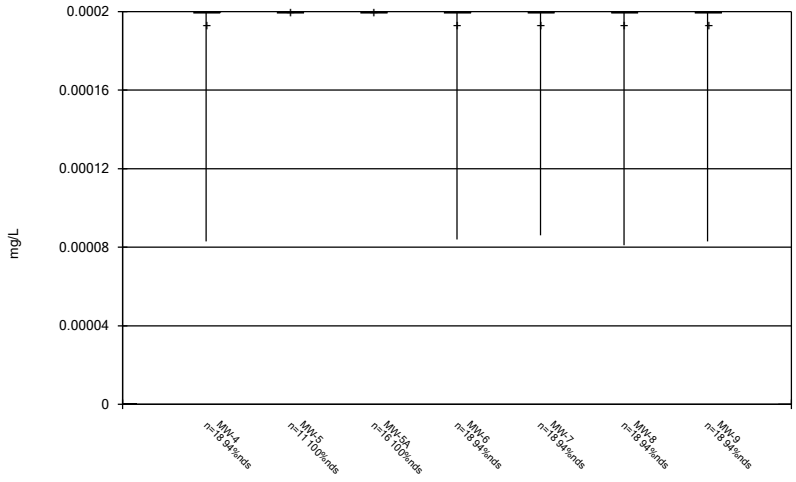
Box & Whiskers Plot



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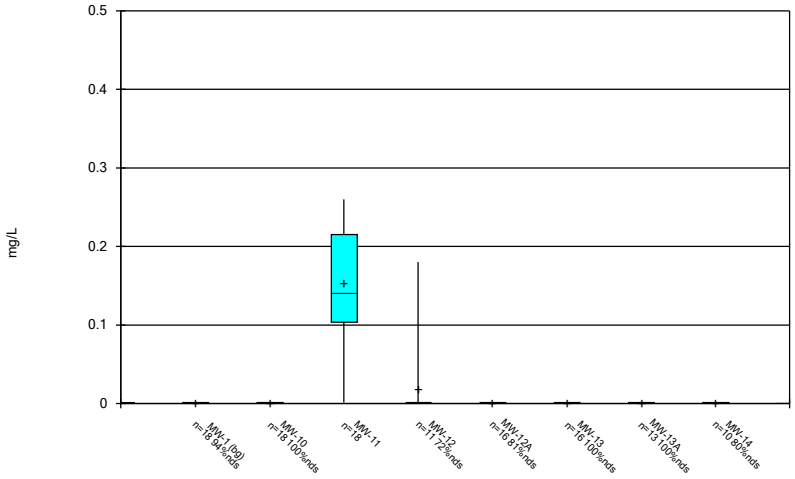
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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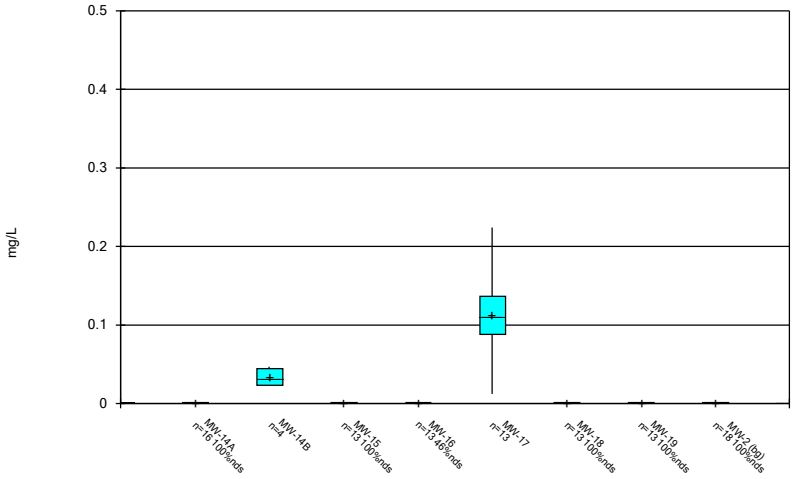
Box & Whiskers Plot



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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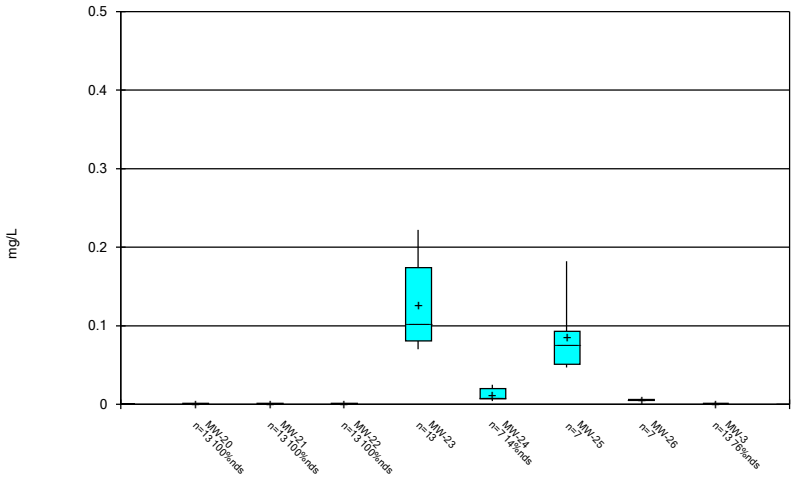
Box & Whiskers Plot



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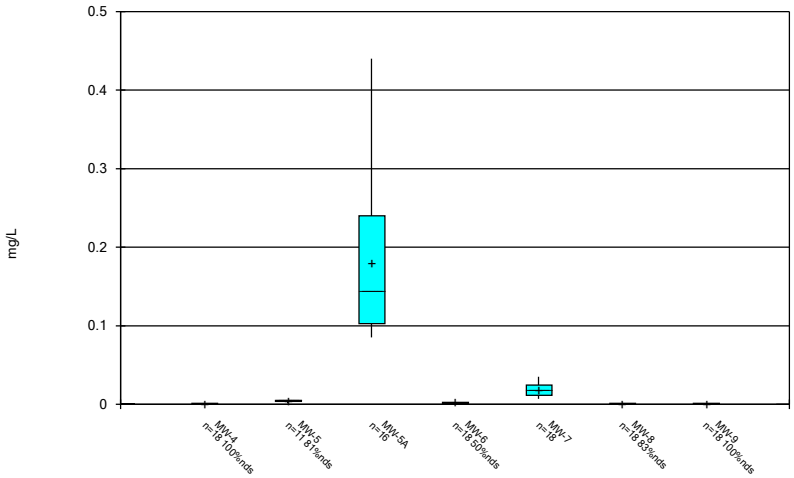
Box & Whiskers Plot



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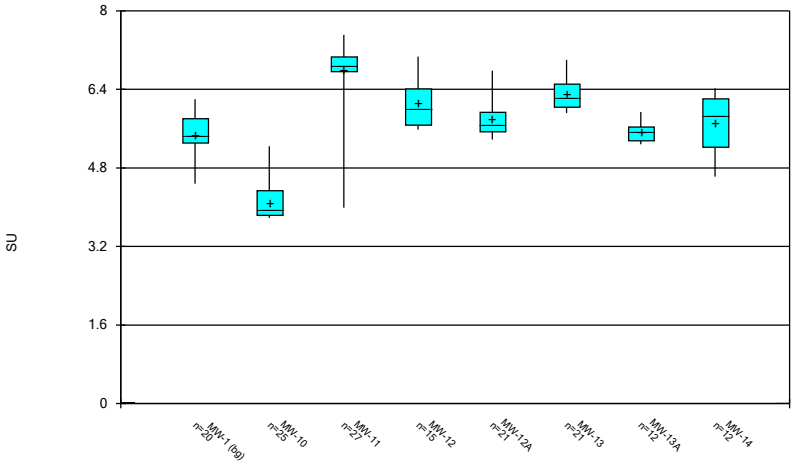
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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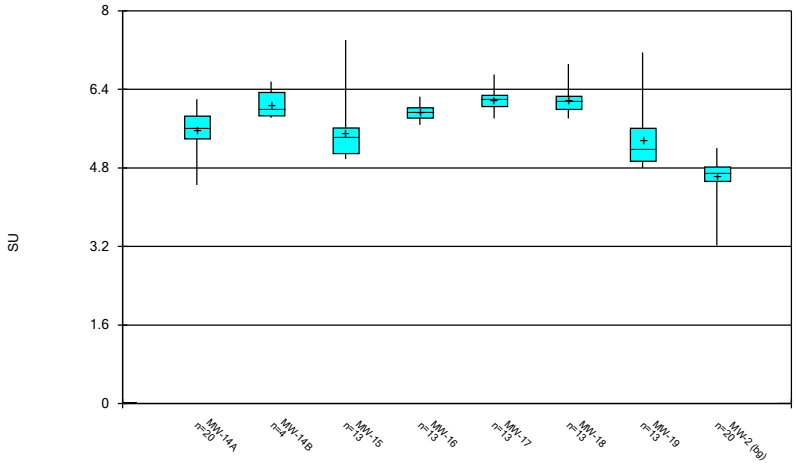
Box & Whiskers Plot



Constituent: pH, Field Analysis Run 6/6/2023 2:44 PM View: Descriptive
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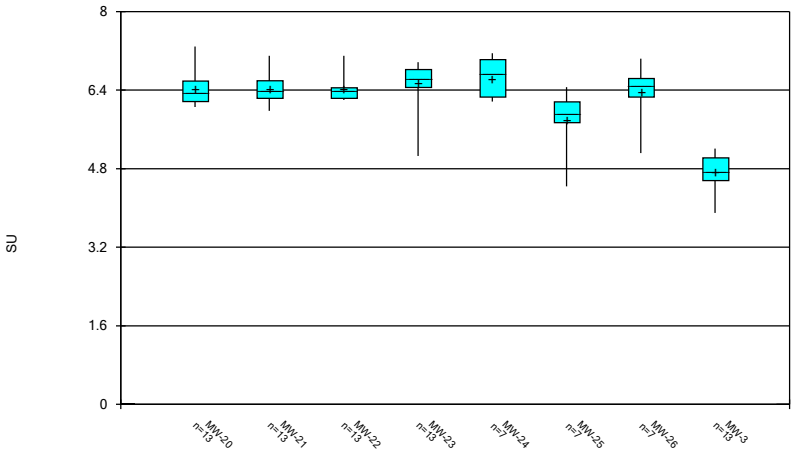
Box & Whiskers Plot



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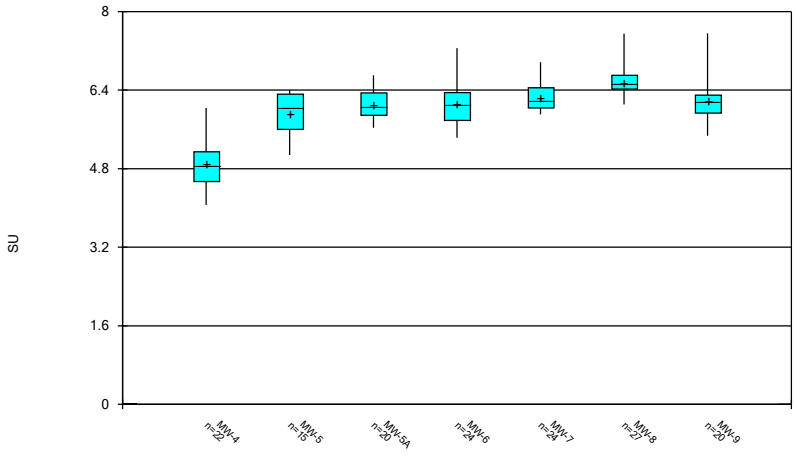
Box & Whiskers Plot



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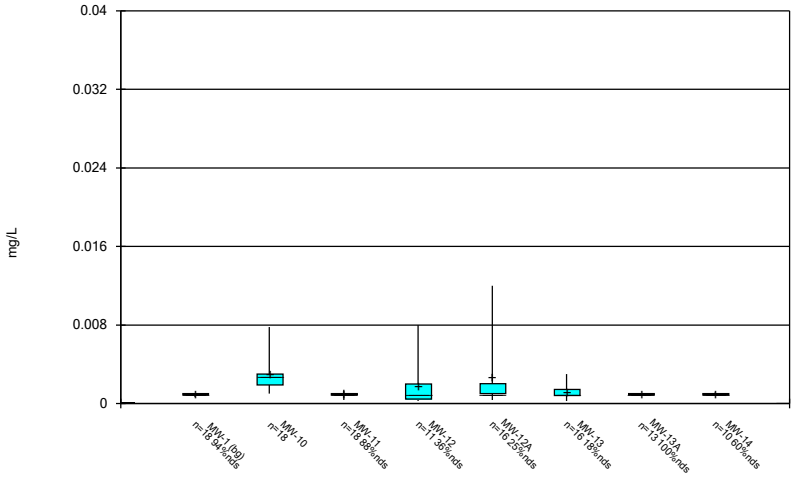
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Box & Whiskers Plot



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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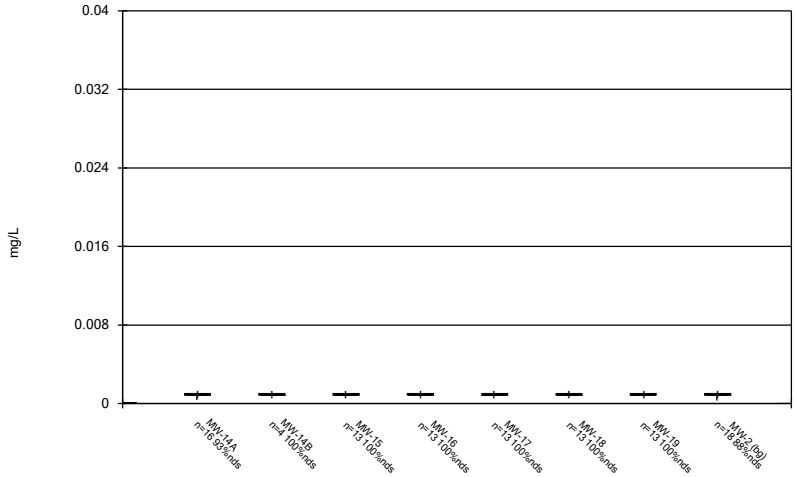
Box & Whiskers Plot



Constituent: Selenium Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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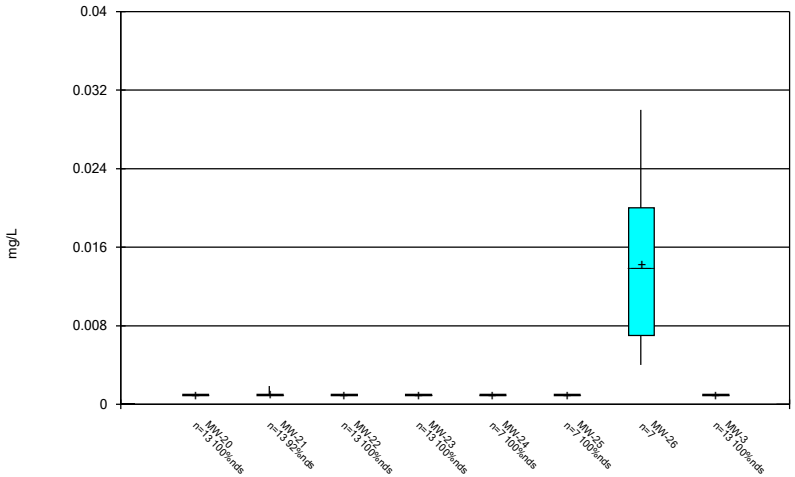
Box & Whiskers Plot



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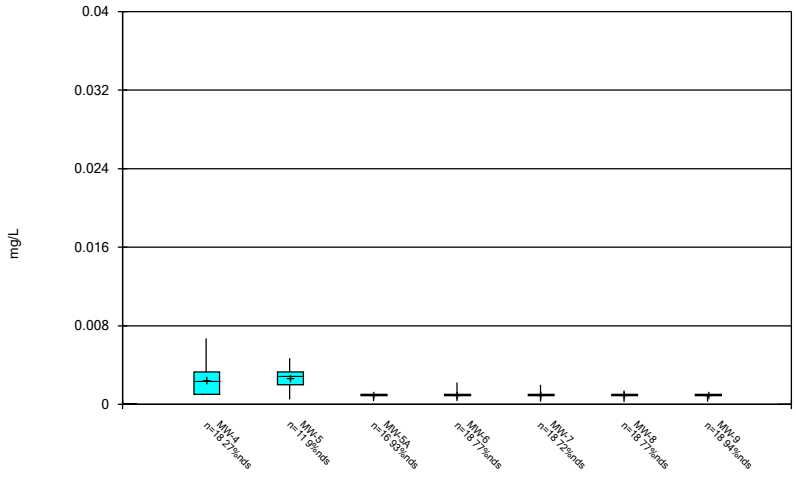
Box & Whiskers Plot



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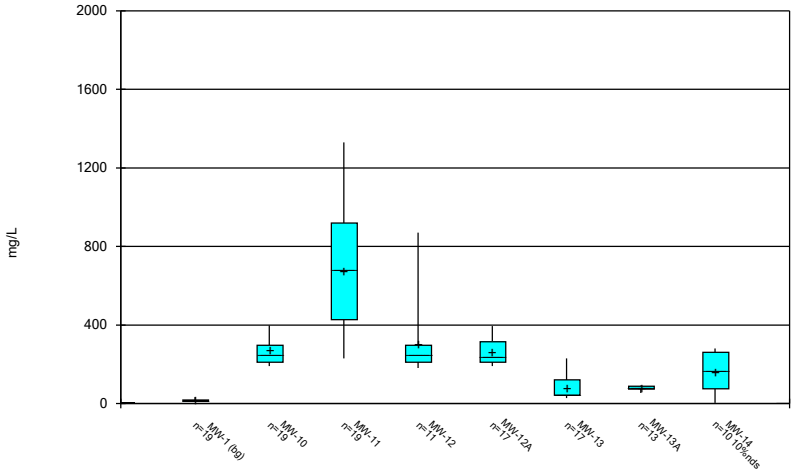
Box & Whiskers Plot



Constituent: Sulfate as SO4 Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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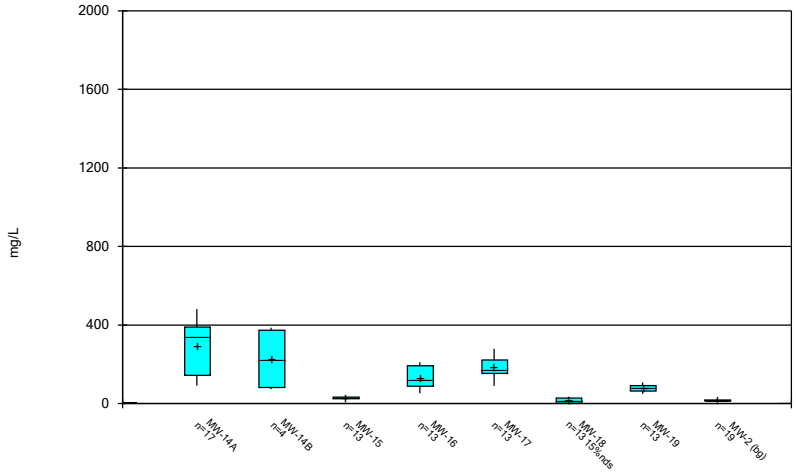
Box & Whiskers Plot



Constituent: Sulfate as SO4 Analysis Run 6/6/2023 2:44 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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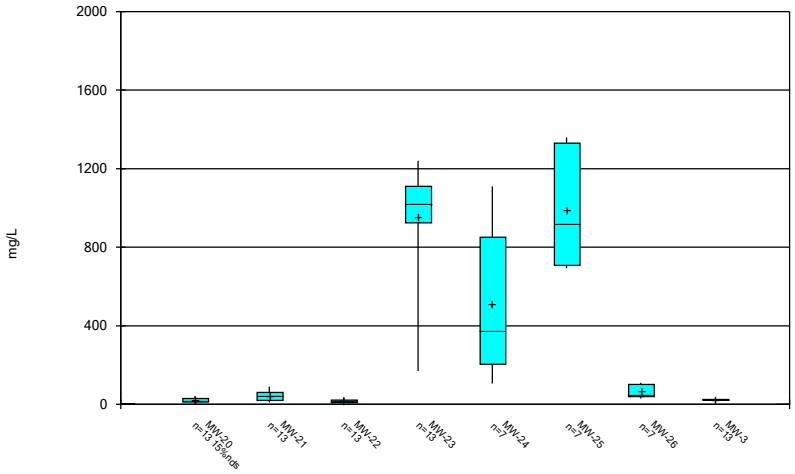
Box & Whiskers Plot



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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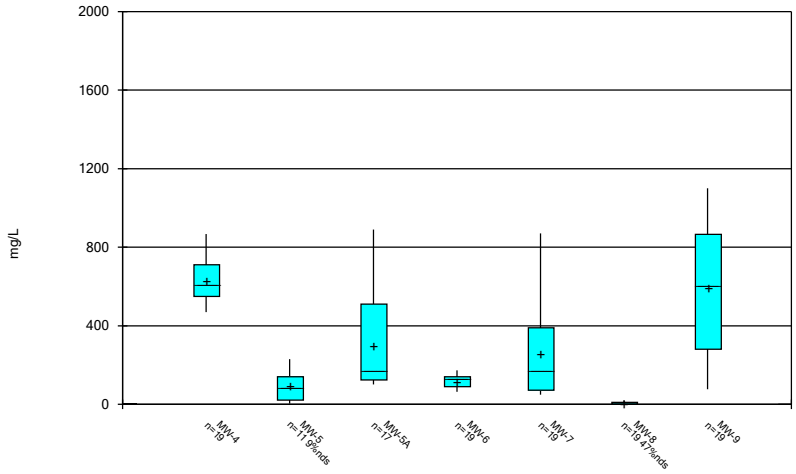
Box & Whiskers Plot



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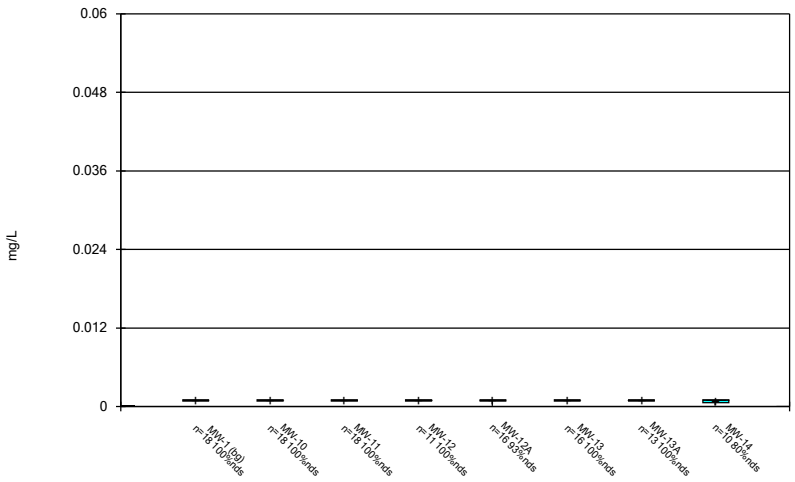
Box & Whiskers Plot



Constituent: Thallium Analysis Run 6/6/2023 2:45 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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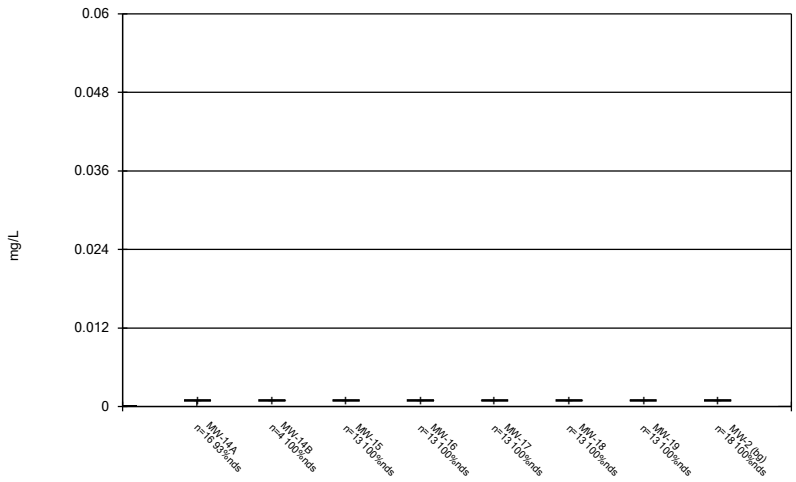
Box & Whiskers Plot



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Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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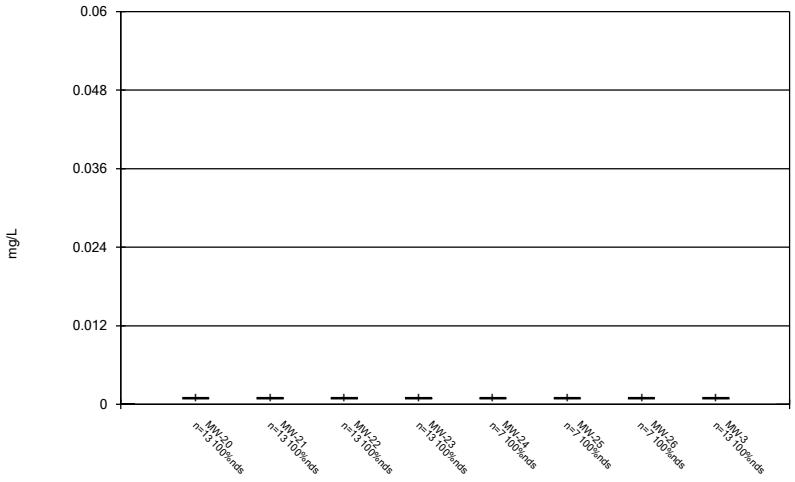
Box & Whiskers Plot



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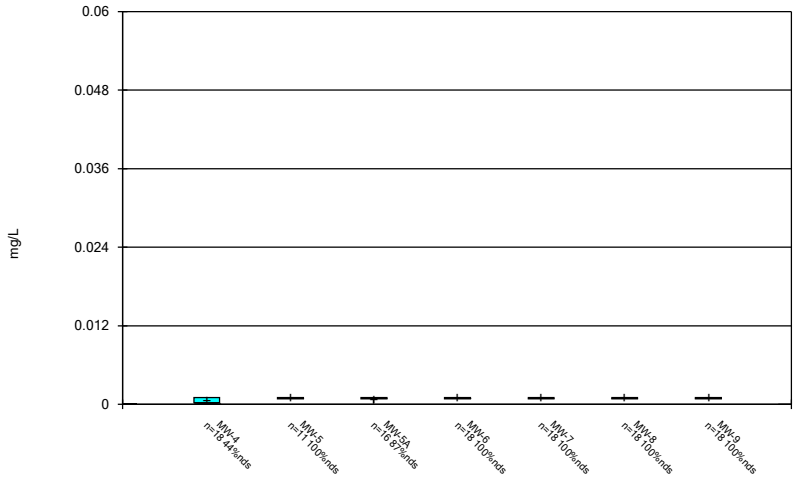
Box & Whiskers Plot



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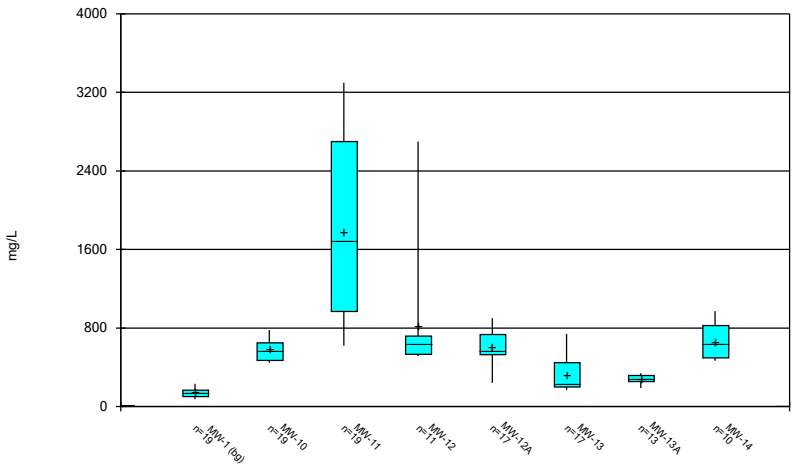

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/6/2023 2:45 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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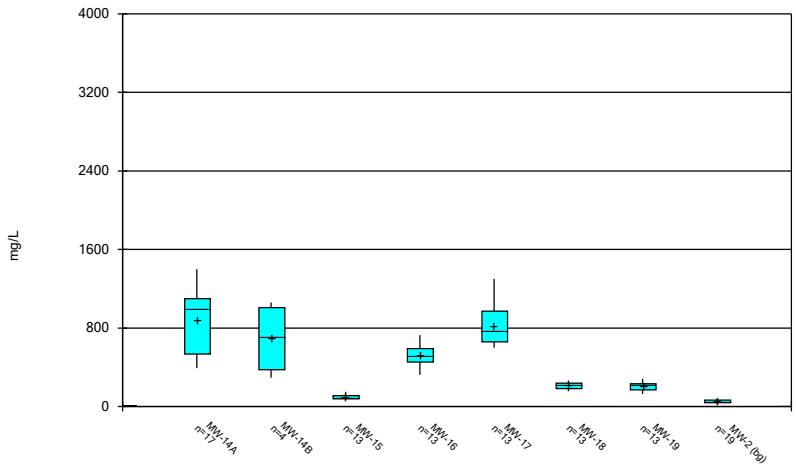
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/6/2023 2:45 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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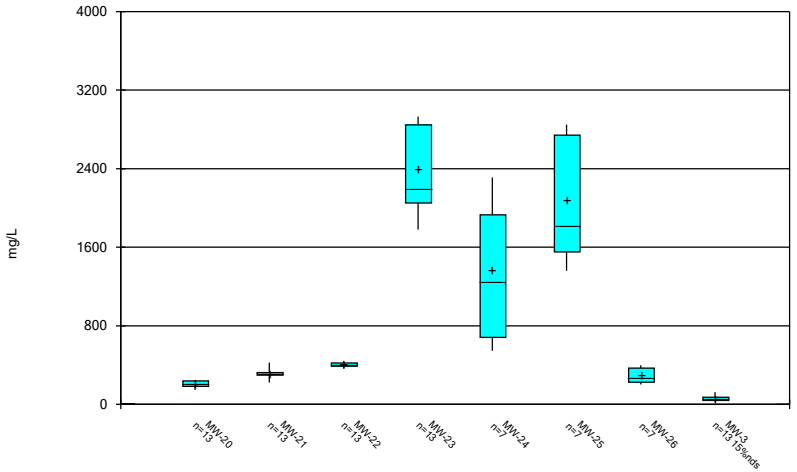
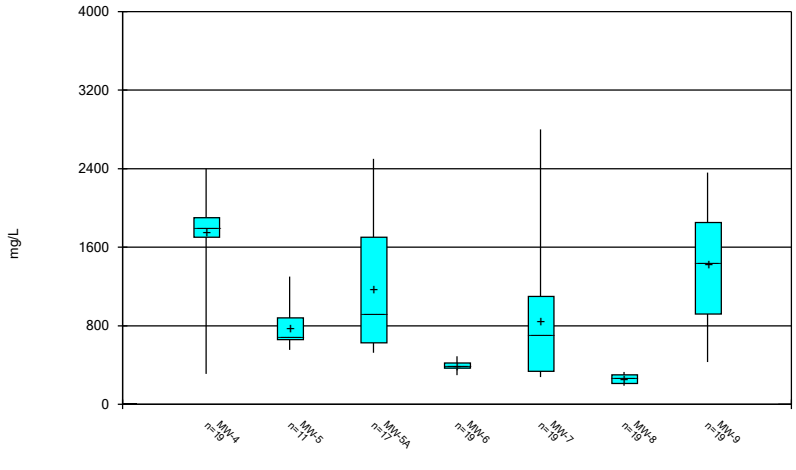
Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/6/2023 2:45 PM View: Descriptive
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 6/6/2023 2:45 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 5/26/2023, 12:01 PM

No outliers identified.

Figure D. Interwell Prediction Limits

Interwell Prediction Limits - Significant Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	MW-10	0.05	n/a	4/12/2023	0.537	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-11	0.05	n/a	4/12/2023	1.05	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-12	0.05	n/a	4/18/2023	0.572	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-12A	0.05	n/a	4/18/2023	0.414	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-13	0.05	n/a	4/10/2023	0.204	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-13A	0.05	n/a	4/11/2023	0.068	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-14	0.05	n/a	4/13/2023	1.12	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-14A	0.05	n/a	4/13/2023	0.851	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-16	0.05	n/a	4/12/2023	0.55	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-17	0.05	n/a	4/12/2023	2.33	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-18	0.05	n/a	4/12/2023	0.098	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-19	0.05	n/a	4/13/2023	0.186	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-20	0.05	n/a	4/11/2023	0.064	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-21	0.05	n/a	4/11/2023	0.276	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-22	0.05	n/a	4/12/2023	0.099	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-23	0.05	n/a	4/18/2023	8.68	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-4	0.05	n/a	4/10/2023	2.04	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-5	0.05	n/a	4/18/2023	0.468	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-5A	0.05	n/a	4/18/2023	1.67	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-6	0.05	n/a	4/12/2023	0.166	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-7	0.05	n/a	4/12/2023	0.83	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-8	0.05	n/a	4/12/2023	0.26	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	MW-9	0.05	n/a	4/11/2023	5.04	Yes	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Calcium, total (mg/L)	MW-10	44.4	n/a	4/12/2023	90.9	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-11	44.4	n/a	4/12/2023	185	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-12	44.4	n/a	4/18/2023	139	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-12A	44.4	n/a	4/18/2023	90.5	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-13	44.4	n/a	4/10/2023	53.8	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-14	44.4	n/a	4/13/2023	102	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-14A	44.4	n/a	4/13/2023	97	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-16	44.4	n/a	4/12/2023	59.3	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-17	44.4	n/a	4/12/2023	115	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-20	44.4	n/a	4/11/2023	47	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-21	44.4	n/a	4/11/2023	80.1	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-22	44.4	n/a	4/12/2023	124	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-23	44.4	n/a	4/18/2023	396	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-4	44.4	n/a	4/10/2023	210	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-5	44.4	n/a	4/18/2023	90.6	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-5A	44.4	n/a	4/18/2023	102	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-6	44.4	n/a	4/12/2023	75.5	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-7	44.4	n/a	4/12/2023	65	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-8	44.4	n/a	4/12/2023	50	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-9	44.4	n/a	4/11/2023	132	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	MW-10	5.382	n/a	4/12/2023	83.4	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-11	5.382	n/a	4/12/2023	33.8	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-12	5.382	n/a	4/18/2023	26.6	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-12A	5.382	n/a	4/18/2023	58	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-13A	5.382	n/a	4/11/2023	71.3	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-14	5.382	n/a	4/13/2023	78.1	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-14A	5.382	n/a	4/13/2023	46.3	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-16	5.382	n/a	4/12/2023	32.2	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-17	5.382	n/a	4/12/2023	102	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-18	5.382	n/a	4/12/2023	12.5	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-19	5.382	n/a	4/13/2023	9.32	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-21	5.382	n/a	4/11/2023	19.9	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2

Interwell Prediction Limits - Significant Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:28 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-22	5.382	n/a	4/12/2023	11.6	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-23	5.382	n/a	4/18/2023	299	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-4	5.382	n/a	4/10/2023	397	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-5	5.382	n/a	4/18/2023	20.4	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-5A	5.382	n/a	4/18/2023	95.5	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-6	5.382	n/a	4/12/2023	9.31	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-8	5.382	n/a	4/12/2023	13.8	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	MW-9	5.382	n/a	4/11/2023	131	Yes	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Fluoride, total (mg/L)	MW-11	0.143	n/a	4/12/2023	1.74	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-17	0.143	n/a	4/12/2023	1.43	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-23	0.143	n/a	4/18/2023	2.02	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-4	0.143	n/a	4/10/2023	0.4	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-5A	0.143	n/a	4/18/2023	1.27	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-7	0.143	n/a	4/12/2023	1.98	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-8	0.143	n/a	4/12/2023	0.225	Yes	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
pH, Field (SU)	MW-11	6.385	3.711	4/12/2023	6.8	Yes	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-13	6.385	3.711	4/10/2023	6.81	Yes	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-23	6.385	3.711	4/18/2023	6.61	Yes	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-8	6.385	3.711	4/12/2023	6.53	Yes	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	MW-10	31.8	n/a	4/12/2023	296	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-11	31.8	n/a	4/12/2023	260	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-12	31.8	n/a	4/18/2023	297	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-12A	31.8	n/a	4/18/2023	211	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-13A	31.8	n/a	4/11/2023	91.3	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-14	31.8	n/a	4/13/2023	214	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-14A	31.8	n/a	4/13/2023	91	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-16	31.8	n/a	4/12/2023	52.1	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-17	31.8	n/a	4/12/2023	157	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-19	31.8	n/a	4/13/2023	63.4	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-21	31.8	n/a	4/11/2023	38.9	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-23	31.8	n/a	4/18/2023	983	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-4	31.8	n/a	4/10/2023	678	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-5	31.8	n/a	4/18/2023	38.4	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-5A	31.8	n/a	4/18/2023	114	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-6	31.8	n/a	4/12/2023	123	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-7	31.8	n/a	4/12/2023	50	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	MW-9	31.8	n/a	4/11/2023	602	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-10	232	n/a	4/12/2023	563	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-11	232	n/a	4/12/2023	634	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-12	232	n/a	4/18/2023	606	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-12A	232	n/a	4/18/2023	447	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-13A	232	n/a	4/11/2023	308	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-14	232	n/a	4/13/2023	466	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-14A	232	n/a	4/13/2023	392	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-16	232	n/a	4/12/2023	322	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-17	232	n/a	4/12/2023	603	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-21	232	n/a	4/11/2023	312	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-22	232	n/a	4/12/2023	402	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-23	232	n/a	4/18/2023	1950	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-4	232	n/a	4/18/2023	1600	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-5	232	n/a	4/18/2023	645	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-5A	232	n/a	4/18/2023	524	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-6	232	n/a	4/12/2023	357	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-7	232	n/a	4/12/2023	278	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-9	232	n/a	4/11/2023	1200	Yes	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2

Interwell Prediction Limits - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	**MW-10**	**0.05**	**n/a**	**4/12/2023**	**0.537**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-11**	**0.05**	**n/a**	**4/12/2023**	**1.05**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-12**	**0.05**	**n/a**	**4/18/2023**	**0.572**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-12A**	**0.05**	**n/a**	**4/18/2023**	**0.414**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-13**	**0.05**	**n/a**	**4/10/2023**	**0.204**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-13A**	**0.05**	**n/a**	**4/11/2023**	**0.068**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-14**	**0.05**	**n/a**	**4/13/2023**	**1.12**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-14A**	**0.05**	**n/a**	**4/13/2023**	**0.851**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	MW-15	0.05	n/a	4/12/2023	0.026	No	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**MW-16**	**0.05**	**n/a**	**4/12/2023**	**0.55**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-17**	**0.05**	**n/a**	**4/12/2023**	**2.33**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-18**	**0.05**	**n/a**	**4/12/2023**	**0.098**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-19**	**0.05**	**n/a**	**4/13/2023**	**0.186**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-20**	**0.05**	**n/a**	**4/11/2023**	**0.064**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-21**	**0.05**	**n/a**	**4/11/2023**	**0.276**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-22**	**0.05**	**n/a**	**4/12/2023**	**0.099**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-23**	**0.05**	**n/a**	**4/18/2023**	**8.68**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	MW-3	0.05	n/a	4/10/2023	0.019	No	38	n/a	n/a	52.63	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Boron, total (mg/L)	**MW-4**	**0.05**	**n/a**	**4/10/2023**	**2.04**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-5**	**0.05**	**n/a**	**4/18/2023**	**0.468**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-5A**	**0.05**	**n/a**	**4/18/2023**	**1.67**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-6**	**0.05**	**n/a**	**4/12/2023**	**0.166**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-7**	**0.05**	**n/a**	**4/12/2023**	**0.83**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-8**	**0.05**	**n/a**	**4/12/2023**	**0.26**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Boron, total (mg/L)	**MW-9**	**0.05**	**n/a**	**4/11/2023**	**5.04**	**Yes**	**38**	**n/a**	**n/a**	**52.63**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Calcium, total (mg/L)	**MW-10**	**44.4**	**n/a**	**4/12/2023**	**90.9**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-11**	**44.4**	**n/a**	**4/12/2023**	**185**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-12**	**44.4**	**n/a**	**4/18/2023**	**139**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-12A**	**44.4**	**n/a**	**4/18/2023**	**90.5**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-13**	**44.4**	**n/a**	**4/10/2023**	**53.8**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	MW-13A	44.4	n/a	4/11/2023	27.6	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**MW-14**	**44.4**	**n/a**	**4/13/2023**	**102**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-14A**	**44.4**	**n/a**	**4/13/2023**	**97**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	MW-15	44.4	n/a	4/12/2023	9.78	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**MW-16**	**44.4**	**n/a**	**4/12/2023**	**59.3**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-17**	**44.4**	**n/a**	**4/12/2023**	**115**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	MW-18	44.4	n/a	4/12/2023	43.9	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	MW-19	44.4	n/a	4/13/2023	26.5	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**MW-20**	**44.4**	**n/a**	**4/11/2023**	**47**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-21**	**44.4**	**n/a**	**4/11/2023**	**80.1**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-22**	**44.4**	**n/a**	**4/12/2023**	**124**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-23**	**44.4**	**n/a**	**4/18/2023**	**396**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	MW-3	44.4	n/a	4/10/2023	6.57	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	**MW-4**	**44.4**	**n/a**	**4/10/2023**	**210**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-5**	**44.4**	**n/a**	**4/18/2023**	**90.6**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-5A**	**44.4**	**n/a**	**4/18/2023**	**102**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-6**	**44.4**	**n/a**	**4/12/2023**	**75.5**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-7**	**44.4**	**n/a**	**4/12/2023**	**65**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-8**	**44.4**	**n/a**	**4/12/2023**	**50**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Calcium, total (mg/L)	**MW-9**	**44.4**	**n/a**	**4/11/2023**	**132**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Chloride, Total (mg/L)	**MW-10**	**5.382**	**n/a**	**4/12/2023**	**83.4**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-11**	**5.382**	**n/a**	**4/12/2023**	**33.8**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-12**	**5.382**	**n/a**	**4/18/2023**	**26.6**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-12A**	**5.382**	**n/a**	**4/18/2023**	**58**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	MW-13	5.382	n/a	4/10/2023	1.94	No	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:28 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-13A**	**5.382**	**n/a**	**4/11/2023**	**71.3**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-14**	**5.382**	**n/a**	**4/13/2023**	**78.1**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-14A**	**5.382**	**n/a**	**4/13/2023**	**46.3**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	MW-15	5.382	n/a	4/12/2023	4.91	No	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	**MW-16**	**5.382**	**n/a**	**4/12/2023**	**32.2**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-17**	**5.382**	**n/a**	**4/12/2023**	**102**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-18**	**5.382**	**n/a**	**4/12/2023**	**12.5**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-19**	**5.382**	**n/a**	**4/13/2023**	**9.32**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	MW-20	5.382	n/a	4/11/2023	5.15	No	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	**MW-21**	**5.382**	**n/a**	**4/11/2023**	**19.9**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-22**	**5.382**	**n/a**	**4/12/2023**	**11.6**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-23**	**5.382**	**n/a**	**4/18/2023**	**299**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	MW-3	5.382	n/a	4/10/2023	1.68	No	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	**MW-4**	**5.382**	**n/a**	**4/10/2023**	**397**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-5**	**5.382**	**n/a**	**4/18/2023**	**20.4**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-5A**	**5.382**	**n/a**	**4/18/2023**	**95.5**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-6**	**5.382**	**n/a**	**4/12/2023**	**9.31**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	MW-7	5.382	n/a	4/12/2023	3.03	No	38	0.5297	0.499	10.53	None	ln(x)	0.000301	Param Inter 1 of 2
Chloride, Total (mg/L)	**MW-8**	**5.382**	**n/a**	**4/12/2023**	**13.8**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Chloride, Total (mg/L)	**MW-9**	**5.382**	**n/a**	**4/11/2023**	**131**	**Yes**	**38**	**0.5297**	**0.499**	**10.53**	**None**	**ln(x)**	**0.000301**	**Param Inter 1 of 2**
Fluoride, total (mg/L)	MW-10	0.143	n/a	4/12/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**MW-11**	**0.143**	**n/a**	**4/12/2023**	**1.74**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	MW-12	0.143	n/a	4/18/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-12A	0.143	n/a	4/18/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-13	0.143	n/a	4/10/2023	0.13	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-13A	0.143	n/a	4/11/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-14	0.143	n/a	4/13/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-14A	0.143	n/a	4/13/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-15	0.143	n/a	4/12/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-16	0.143	n/a	4/12/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**MW-17**	**0.143**	**n/a**	**4/12/2023**	**1.43**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	MW-18	0.143	n/a	4/12/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-19	0.143	n/a	4/13/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-20	0.143	n/a	4/11/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-21	0.143	n/a	4/11/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	MW-22	0.143	n/a	4/12/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**MW-23**	**0.143**	**n/a**	**4/18/2023**	**2.02**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	MW-3	0.143	n/a	4/10/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**MW-4**	**0.143**	**n/a**	**4/10/2023**	**0.4**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	MW-5	0.143	n/a	4/18/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**MW-5A**	**0.143**	**n/a**	**4/18/2023**	**1.27**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	MW-6	0.143	n/a	4/12/2023	0.125ND	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	**MW-7**	**0.143**	**n/a**	**4/12/2023**	**1.98**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	**MW-8**	**0.143**	**n/a**	**4/12/2023**	**0.225**	**Yes**	**38**	**n/a**	**n/a**	**71.05**	**n/a**	**n/a**	**0.001147**	**NP Inter (NDs) 1 of 2**
Fluoride, total (mg/L)	MW-9	0.143	n/a	4/11/2023	0.14	No	38	n/a	n/a	71.05	n/a	n/a	0.001147	NP Inter (NDs) 1 of 2
pH, Field (SU)	MW-10	6.385	3.711	4/12/2023	4.55	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	**MW-11**	**6.385**	**3.711**	**4/12/2023**	**6.8**	**Yes**	**40**	**5.048**	**0.5818**	**0**	**None**	**No**	**0.0001505**	**Param Inter 1 of 2**
pH, Field (SU)	MW-12	6.385	3.711	4/18/2023	6.1	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-12A	6.385	3.711	4/18/2023	5.69	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	**MW-13**	**6.385**	**3.711**	**4/10/2023**	**6.81**	**Yes**	**40**	**5.048**	**0.5818**	**0**	**None**	**No**	**0.0001505**	**Param Inter 1 of 2**
pH, Field (SU)	MW-13A	6.385	3.711	4/11/2023	5.3	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-14	6.385	3.711	4/26/2022	6.35	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-14A	6.385	3.711	4/13/2023	5.62	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-15	6.385	3.711	4/10/2023	5.14	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-16	6.385	3.711	4/12/2023	5.7	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2

Interwell Prediction Limits - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH, Field (SU)	MW-17	6.385	3.711	4/12/2023	6	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-18	6.385	3.711	4/12/2023	6.04	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-19	6.385	3.711	4/13/2023	5.33	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-20	6.385	3.711	4/11/2023	6.06	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-21	6.385	3.711	4/11/2023	6.24	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-22	6.385	3.711	4/12/2023	6.2	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	**MW-23**	**6.385**	**3.711**	**4/18/2023**	**6.61**	**Yes**	**40**	**5.048**	**0.5818**	**0**	**None**	**No**	**0.0001505**	**Param Inter 1 of 2**
pH, Field (SU)	MW-3	6.385	3.711	4/10/2023	4.75	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-4	6.385	3.711	4/10/2023	5.58	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-5	6.385	3.711	4/18/2023	6.1	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-5A	6.385	3.711	4/18/2023	5.93	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-6	6.385	3.711	4/12/2023	5.68	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	MW-7	6.385	3.711	4/12/2023	6.05	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
pH, Field (SU)	**MW-8**	**6.385**	**3.711**	**4/12/2023**	**6.53**	**Yes**	**40**	**5.048**	**0.5818**	**0**	**None**	**No**	**0.0001505**	**Param Inter 1 of 2**
pH, Field (SU)	MW-9	6.385	3.711	4/11/2023	6.08	No	40	5.048	0.5818	0	None	No	0.0001505	Param Inter 1 of 2
Sulfate as SO4 (mg/L)	**MW-10**	**31.8**	**n/a**	**4/12/2023**	**296**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-11**	**31.8**	**n/a**	**4/12/2023**	**260**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-12**	**31.8**	**n/a**	**4/18/2023**	**297**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-12A**	**31.8**	**n/a**	**4/18/2023**	**211**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-13	31.8	n/a	4/10/2023	27.9	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-13A**	**31.8**	**n/a**	**4/11/2023**	**91.3**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-14**	**31.8**	**n/a**	**4/13/2023**	**214**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-14A**	**31.8**	**n/a**	**4/13/2023**	**91**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-15	31.8	n/a	4/12/2023	23.1	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-16**	**31.8**	**n/a**	**4/12/2023**	**52.1**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-17**	**31.8**	**n/a**	**4/12/2023**	**157**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-18	31.8	n/a	4/12/2023	2.04	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-19**	**31.8**	**n/a**	**4/13/2023**	**63.4**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-20	31.8	n/a	4/11/2023	14.5	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-21**	**31.8**	**n/a**	**4/11/2023**	**38.9**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-22	31.8	n/a	4/12/2023	1.42	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-23**	**31.8**	**n/a**	**4/18/2023**	**983**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-3	31.8	n/a	4/10/2023	26.4	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-4**	**31.8**	**n/a**	**4/10/2023**	**678**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-5**	**31.8**	**n/a**	**4/18/2023**	**38.4**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-5A**	**31.8**	**n/a**	**4/18/2023**	**114**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-6**	**31.8**	**n/a**	**4/12/2023**	**123**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	**MW-7**	**31.8**	**n/a**	**4/12/2023**	**50**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Sulfate as SO4 (mg/L)	MW-8	31.8	n/a	4/12/2023	0.5ND	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	**MW-9**	**31.8**	**n/a**	**4/11/2023**	**602**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-10**	**232**	**n/a**	**4/12/2023**	**563**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-11**	**232**	**n/a**	**4/12/2023**	**634**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-12**	**232**	**n/a**	**4/18/2023**	**606**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-12A**	**232**	**n/a**	**4/18/2023**	**447**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	MW-13	232	n/a	4/18/2023	228	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**MW-13A**	**232**	**n/a**	**4/11/2023**	**308**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-14**	**232**	**n/a**	**4/13/2023**	**466**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-14A**	**232**	**n/a**	**4/13/2023**	**392**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	MW-15	232	n/a	4/12/2023	85.7	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**MW-16**	**232**	**n/a**	**4/12/2023**	**322**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-17**	**232**	**n/a**	**4/12/2023**	**603**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	MW-18	232	n/a	4/12/2023	208	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-19	232	n/a	4/13/2023	126	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	MW-20	232	n/a	4/11/2023	210	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**MW-21**	**232**	**n/a**	**4/11/2023**	**312**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**

Interwell Prediction Limits - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:28 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	**MW-22**	**232**	**n/a**	**4/12/2023**	**402**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-23**	**232**	**n/a**	**4/18/2023**	**1950**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	MW-3	232	n/a	4/18/2023	12.6ND	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**MW-4**	**232**	**n/a**	**4/18/2023**	**1600**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-5**	**232**	**n/a**	**4/18/2023**	**645**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-5A**	**232**	**n/a**	**4/18/2023**	**524**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-6**	**232**	**n/a**	**4/12/2023**	**357**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	**MW-7**	**232**	**n/a**	**4/12/2023**	**278**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids [TDS] (mg/L)	MW-8	232	n/a	4/12/2023	198	No	38	n/a	n/a	0	n/a	n/a	0.001147	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	**MW-9**	**232**	**n/a**	**4/11/2023**	**1200**	**Yes**	**38**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.001147**	**NP Inter (normality) 1 of 2**

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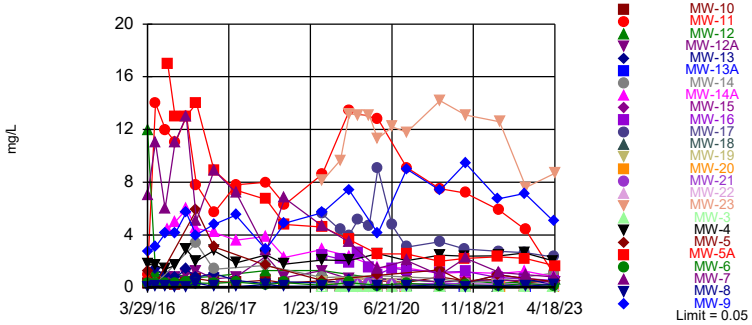
Hollow symbols indicate censored values.

Exceeds Limit: MW-10, MW-11, MW-12, MW-12A, MW-13, MW-13A, MW-14, MW-14A, MW-16, MW-17, MW-18, MW-19,..

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 38 background values. 52.63% NDs. Annual per-constituent alpha = 0.05577. Individual comparison alpha = 0.001147 (1 of 2). Comparing 25 points to limit.

Constituent: Boron, total Analysis Run 6/6/2023 2:57 PM View: Interwell PLs
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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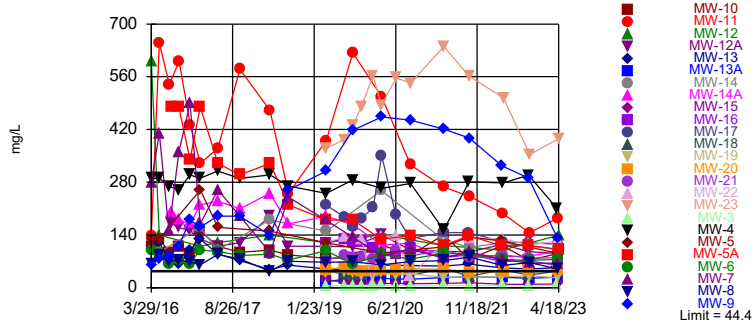
Exceeds Limit: MW-10, MW-11, MW-12, MW-12A, MW-13, MW-14, MW-14A, MW-16, MW-17, MW-20, MW-21, MW-22,..

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 38 background values. Annual per-constituent alpha = 0.05577. Individual comparison alpha = 0.001147 (1 of 2). Comparing 25 points to limit.

Constituent: Calcium, total Analysis Run 6/6/2023 2:57 PM View: Interwell PLs
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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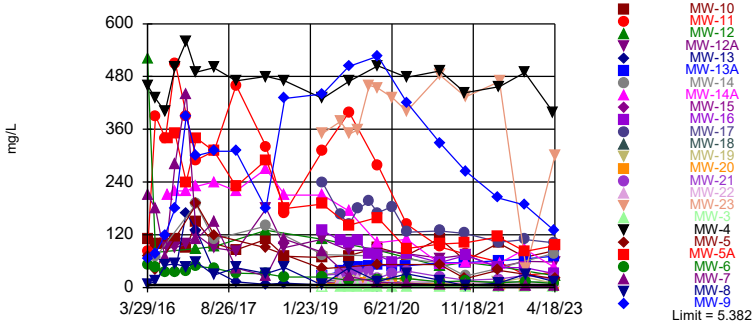
Hollow symbols indicate censored values.

Exceeds Limit: MW-10, MW-11, MW-12, MW-12A, MW-13A, MW-14, MW-14A, MW-16, MW-17, MW-18, MW-19, MW-21,..

Prediction Limit

Interwell Parametric



Background Data Summary (based on natural log transformation): Mean=0.5297, Std. Dev.=0.499, n=38, 10.53% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9172, critical = 0.916. Kappa = 2.312 (c=7, w=25, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.000301. Comparing 25 points to limit.

Constituent: Chloride, Total Analysis Run 6/6/2023 2:57 PM View: Interwell PLs
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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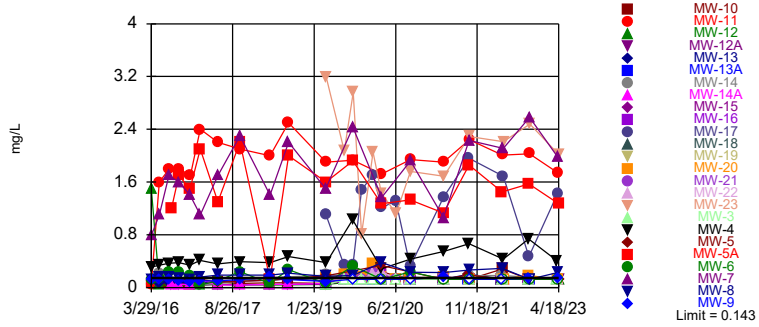
Hollow symbols indicate censored values.

Exceeds Limit: MW-11, MW-17, MW-23, MW-4, 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 38 background values. 71.05% NDs. Annual per-constituent alpha = 0.05577. Individual comparison alpha = 0.001147 (1 of 2). Comparing 25 points to limit.

Constituent: Fluoride, total Analysis Run 6/6/2023 2:58 PM View: Interwell PLs
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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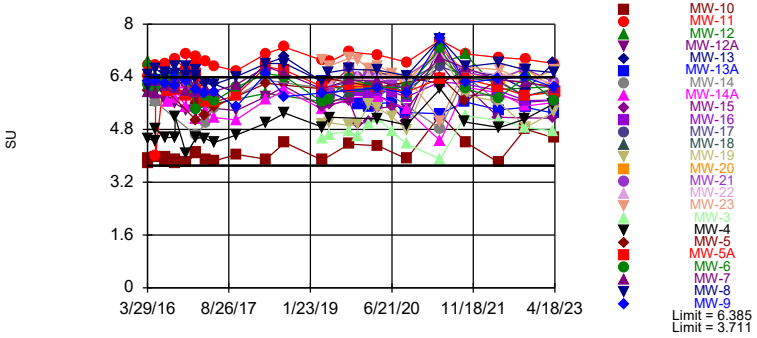
Exceeds Limits: MW-11, MW-13, MW-23, MW-8

Prediction Limit

Interwell Parametric



Background Data Summary: Mean=5.048, Std. Dev.=0.5818, n=40. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9549, critical = 0.919. Kappa = 2.298 (c=7, w=25, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0001505. Comparing 25 points to limit.

Constituent: pH, Field Analysis Run 6/7/2023 2:24 PM View: PLs Interwell Limits

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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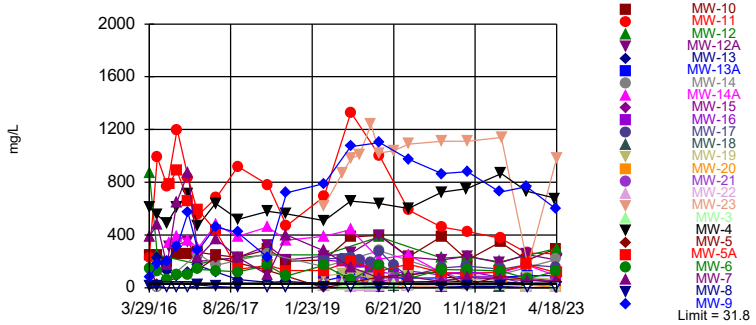
Hollow symbols indicate censored values.

Exceeds Limit: MW-10, MW-11, MW-12, MW-12A, MW-13A, MW-14, MW-14A, MW-16, MW-17, MW-19, MW-21, MW-23,..

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 38 background values. Annual per-constituent alpha = 0.05577. Individual comparison alpha = 0.001147 (1 of 2). Comparing 25 points to limit.

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:25 PM View: PLs Interwell Limits

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

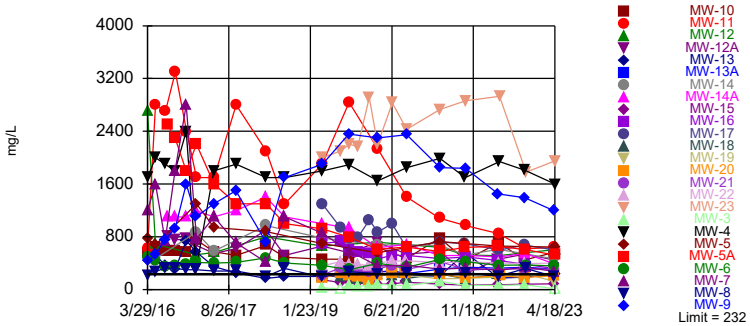
Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Hollow symbols indicate censored values.

Exceeds Limit: MW-10, MW-11, MW-12, MW-12A, MW-13A, MW-14, MW-14A, MW-16, MW-17, MW-21, MW-22, MW-23,..

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 38 background values. Annual per-constituent alpha = 0.05577. Individual comparison alpha = 0.001147 (1 of 2). Comparing 25 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:25 PM View: PLs Interwell Limits

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-7	MW-5	MW-9	MW-6	MW-4	MW-2 (bg)	MW-11	MW-10
3/29/2016	<0.05	7	1.3	2.7	0.3	1.8	0.022 (J)		
3/30/2016								0.95	0.35
5/18/2016	<0.05			3.1			<0.05		0.41
5/19/2016		11	0.29		0.28	1.7		14	
5/20/2016									
7/19/2016	0.024 (J)	6		4.1		1.4	<0.05		
7/20/2016					0.32			12	0.34
8/4/2016									
9/19/2016	<0.05						<0.05		
9/20/2016		11		4.1	0.35	1.7			0.26
9/21/2016								11	
11/29/2016	<0.05			5.7	0.4	2.9	<0.05		
11/30/2016		13							0.39
12/1/2016								13	
1/30/2017									
1/31/2017	<0.05			4	0.35	2	<0.05		
2/1/2017		5.1	5.9						0.69
2/2/2017								7.8	
5/22/2017				4.8					
5/23/2017	<0.05					2.8	<0.05		
5/24/2017		8.9	3.1		0.34			5.7	0.48
5/25/2017									
10/9/2017	<0.05			5.5					
10/10/2017						1.9	<0.05	7.8	
10/11/2017		7.2			0.43				0.4
4/17/2018	<0.05			2.9	0.23		<0.05		
4/18/2018		2.8	1.7			2.5		8	
4/19/2018									0.57
8/13/2018									
8/14/2018	<0.05			4.9		1.8	<0.05		0.36
8/15/2018		6.8			0.38			6.3	
4/6/2019									
4/7/2019		4.7			0.19				
4/8/2019									
4/9/2019			0.55					8.6	0.53
4/10/2019	<0.05			5.7		2.1	<0.05		
7/31/2019									
8/1/2019									
9/23/2019									
9/24/2019	0.0163			7.44		2.07	0.0168		
9/25/2019		3.46			0.385				
9/26/2019								13.4	0.388
9/27/2019									
11/18/2019									
11/19/2019									
11/20/2019									
1/29/2020									
1/30/2020									
3/23/2020			0.953						
3/24/2020									
3/25/2020								12.8	0.539
3/26/2020	0.0169	1.48		4.13	0.179	2.59	0.0183		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-7	MW-5	MW-9	MW-6	MW-4	MW-2 (bg)	MW-11	MW-10
6/22/2020									
6/23/2020									
6/24/2020									
9/21/2020									
9/22/2020									
9/23/2020	0.013	2.05		8.99	0.343	2.05	0.012		0.413
9/24/2020								9.11	
4/19/2021			1.36						
4/20/2021		0.977						7.52	0.81
4/21/2021				7.39	0.186	2.47			
4/22/2021	0.017						0.017		
9/28/2021			0.395			2.41			
9/29/2021		2.25							
9/30/2021	0.023			9.43	0.213		0.019		0.531
10/1/2021								7.19	
10/4/2021									
4/25/2022				6.75					
4/26/2022			0.956						
4/27/2022					0.131			5.92	0.646
5/2/2022	0.015						0.017		
5/3/2022		1.17				2.43			
5/4/2022									
10/11/2022	0.022			7.16		2.65	0.02		
10/12/2022									
10/13/2022									0.392
10/17/2022		0.999			0.325			4.38	
10/18/2022									
4/10/2023						2.04			
4/11/2023	0.019			5.04			0.018		
4/12/2023		0.83			0.166			1.05	0.537
4/13/2023									
4/18/2023			0.468						

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-12	MW-8	MW-13	MW-14	MW-5A	MW-14A	MW-12A	MW-20	MW-3
3/29/2016									
3/30/2016	12	0.051							
5/18/2016									
5/19/2016	1.2	0.16	1.4						
5/20/2016				0.32					
7/19/2016									
7/20/2016		0.13	0.97						
8/4/2016					17	4.4	0.75		
9/19/2016									
9/20/2016		0.049 (J)			13		0.75		
9/21/2016			0.79			5			
11/29/2016			1.4						
11/30/2016		0.071			13		0.97		
12/1/2016						6			
1/30/2017			0.8						
1/31/2017				3.4		4.5			
2/1/2017	0.77	0.37			14		1.3		
2/2/2017									
5/22/2017			1.1						
5/23/2017				1.4		4.2			
5/24/2017		0.097			8.9				
5/25/2017	0.88						0.68		
10/9/2017									
10/10/2017			0.55		7.4	3.6	0.83		
10/11/2017		0.098							
4/17/2018				1.7		3.9			
4/18/2018		0.25	0.31		6.7				
4/19/2018	1.3						2.4		
8/13/2018			0.46						
8/14/2018							0.78		
8/15/2018		0.13			4.8	2.3			
4/6/2019								0.089	<0.05
4/7/2019		0.13							
4/8/2019									
4/9/2019	1.3		0.36		4.6		1.3		
4/10/2019				0.77		2.9			
7/31/2019									
8/1/2019								0.0535	0.0204
9/23/2019			0.58						
9/24/2019									0.0208
9/25/2019								0.0659	
9/26/2019		0.0858			3.65	2.4	0.672		
9/27/2019									
11/18/2019									0.0222
11/19/2019									
11/20/2019								0.0625	
1/29/2020								0.0556	0.018
1/30/2020									
3/23/2020					2.57	1.54			
3/24/2020	0.698			0.92			0.65		
3/25/2020			0.237					0.0554	
3/26/2020		0.133							0.0184

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-12	MW-8	MW-13	MW-14	MW-5A	MW-14A	MW-12A	MW-20	MW-3
6/22/2020									
6/23/2020								0.06	0.022
6/24/2020									
9/21/2020								0.067	
9/22/2020					2.58				0.019
9/23/2020		0.128							
9/24/2020						1.51	0.657		
4/19/2021			0.289		2				
4/20/2021								0.061	
4/21/2021	0.46	0.238					0.434		
4/22/2021				0.7		1.1			0.02
9/28/2021			0.346		2.22				
9/29/2021				0.352		1.19			0.028
9/30/2021		0.093							
10/1/2021	0.566						0.555		
10/4/2021								0.063	
4/25/2022	0.343						0.526		
4/26/2022				0.544	2.36				
4/27/2022		0.165							
5/2/2022			1						
5/3/2022									0.017
5/4/2022						1.1		0.081	
10/11/2022								0.073	0.024
10/12/2022					2.23	1.26			
10/13/2022							0.588		
10/17/2022		0.111							
10/18/2022			0.682						
4/10/2023			0.204						0.019
4/11/2023								0.064	
4/12/2023		0.26							
4/13/2023				1.12		0.851			
4/18/2023	0.572				1.67		0.414		

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-21	MW-18	MW-22	MW-19	MW-15	MW-23	MW-16	MW-17	MW-13A
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
5/20/2016									
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									
1/30/2017									
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									
8/13/2018									
8/14/2018									
8/15/2018									
4/6/2019	0.14								
4/7/2019		0.17	0.12	0.38	0.052				
4/8/2019						8.1	2.5	5.6	
4/9/2019									0.022 (J)
4/10/2019									
7/31/2019			0.0867		0.0517		2.18	4.38	
8/1/2019	0.216	0.132		0.295		9.67			0.0128
9/23/2019									0.0187
9/24/2019		0.145			0.0518				
9/25/2019	0.305			0.328			1.89		
9/26/2019			0.0968					4	
9/27/2019						13.2			
11/18/2019									0.0145
11/19/2019	0.268	0.134	0.102			13.1	2.67	5.12	
11/20/2019				0.309	0.0447				
1/29/2020	0.291		<0.05	0.241					
1/30/2020		0.0726			0.0294	13.1	1.53	4.73	0.0133
3/23/2020			0.0918		0.0349	11.3	1.02		
3/24/2020									
3/25/2020	0.201	0.0784		0.261				9.05	0.0245
3/26/2020									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-21	MW-18	MW-22	MW-19	MW-15	MW-23	MW-16	MW-17	MW-13A
6/22/2020					0.039		1.48		
6/23/2020		0.109	0.101	0.239				4.75	0.023
6/24/2020	0.265					12.2			
9/21/2020			0.116		0.033				0.013
9/22/2020	0.251	0.168		0.33			1.36	3.09	
9/23/2020									
9/24/2020						11.8			
4/19/2021		0.07						3.48	0.023
4/20/2021			0.1	0.172	0.032		1.19		
4/21/2021	0.349								
4/22/2021						14.2			
9/28/2021				0.207				2.93	0.03
9/29/2021		0.108							
9/30/2021			0.107						
10/1/2021						13.1			
10/4/2021	0.277				0.027		1.24		
4/25/2022									
4/26/2022		0.085		0.199	0.037		0.767		
4/27/2022									0.028
5/2/2022			0.106						
5/3/2022	0.282							2.77	
5/4/2022						12.6			
10/11/2022									
10/12/2022		0.145			0.041		0.712	2.66	
10/13/2022	0.273		0.094						
10/17/2022									0.032
10/18/2022				0.243		7.61			
4/10/2023									
4/11/2023	0.276								0.068
4/12/2023		0.098	0.099		0.026		0.55	2.33	
4/13/2023				0.186					
4/18/2023						8.68			

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-7	MW-5	MW-9	MW-6	MW-4	MW-2 (bg)	MW-11	MW-10
3/29/2016	26	280	130	61	99	290	3.6		
3/30/2016								140	110
5/18/2016	25			76			3.6		130
5/19/2016		410	130		90	290		650	
5/20/2016									
7/19/2016	17	150		82		270	3		
7/20/2016					62			540	94
8/4/2016									
9/19/2016	17						3.2		
9/20/2016		360		110	74	260			110
9/21/2016								600	
11/29/2016	14			180	64	300	3		
11/30/2016		490							90
12/1/2016								430	
1/30/2017									
1/31/2017	25			160	100	290	3.5		
2/1/2017		170	260						150
2/2/2017								330	
5/22/2017				190					
5/23/2017	26					310	3.6		
5/24/2017		260	160		97			370	110
5/25/2017									
10/9/2017	29			190					
10/10/2017						290	3.6	580	
10/11/2017		190			86				94
4/17/2018	34			140	89		3.3 (F1)		
4/18/2018		93	150			300		470	
4/19/2018									100
8/13/2018									
8/14/2018	26			260		270	3.2		87
8/15/2018		240			74			250	
4/6/2019									
4/7/2019		180			98				
4/8/2019									
4/9/2019			120					390	78
4/10/2019	28			310		250	3		
7/31/2019									
8/1/2019									
9/23/2019									
9/24/2019	28.1			418		286	3.2		
9/25/2019		134			63.3				
9/26/2019								623	79.4
9/27/2019									
11/18/2019									
11/19/2019									
11/20/2019									
1/29/2020									
1/30/2020									
3/23/2020			92.3						
3/24/2020									
3/25/2020								507	114
3/26/2020	32.7	83.9		453	88.6	264	3.2		

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-7	MW-5	MW-9	MW-6	MW-4	MW-2 (bg)	MW-11	MW-10
6/22/2020									
6/23/2020									
6/24/2020									
9/21/2020									
9/22/2020									
9/23/2020	28.2	102		445	76.4	277	3.32		86.3
9/24/2020								326	
4/19/2021			109						
4/20/2021		78.6						267	140
4/21/2021				421	91.4	154			
4/22/2021	44.4						3.44		
9/28/2021			135			281			
9/29/2021		95							
9/30/2021	32.1			397	90		3.52		76.5
10/1/2021								243	
10/4/2021									
4/25/2022				323					
4/26/2022			124						
4/27/2022					75.3			198	112
5/2/2022	36.3						3.39		
5/3/2022		74.5				278			
5/4/2022									
10/11/2022	27.4			291		299	3.16		
10/12/2022									
10/13/2022									72.9
10/17/2022		65.5			73			146	
10/18/2022									
4/10/2023						210			
4/11/2023	33.2			132			3.41		
4/12/2023		65			75.5			185	90.9
4/13/2023									
4/18/2023			90.6						

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-12	MW-8	MW-13	MW-14	MW-5A	MW-14A	MW-12A	MW-20	MW-3
3/29/2016									
3/30/2016	600	63							
5/18/2016									
5/19/2016	140	85	120						
5/20/2016				94					
7/19/2016									
7/20/2016		70	72						
8/4/2016					480	200	170		
9/19/2016									
9/20/2016		73			480		160		
9/21/2016			63			180			
11/29/2016			100						
11/30/2016		69			340		150		
12/1/2016						170			
1/30/2017			130						
1/31/2017				160		220			
2/1/2017	110	61			480		130		
2/2/2017									
5/22/2017			90						
5/23/2017				100		230			
5/24/2017		88			330				
5/25/2017	120						110		
10/9/2017									
10/10/2017			72		300	210	120		
10/11/2017		76							
4/17/2018				180		250			
4/18/2018		44	48		330				
4/19/2018	140						190		
8/13/2018			60						
8/14/2018							110		
8/15/2018		70			220	170			
4/6/2019								48	5.7
4/7/2019		68							
4/8/2019									
4/9/2019	120		50		180		110		
4/10/2019				150		190			
7/31/2019									
8/1/2019								54.8	4.42
9/23/2019			47.3						
9/24/2019									4.51
9/25/2019								48.1	
9/26/2019		69			180	167	109		
9/27/2019									
11/18/2019									4.63
11/19/2019									
11/20/2019								45.2	
1/29/2020								44.6	5.78
1/30/2020									
3/23/2020					129	114			
3/24/2020	141			258			141		
3/25/2020			60.4					45.8	
3/26/2020		60.7							6.92

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-12	MW-8	MW-13	MW-14	MW-5A	MW-14A	MW-12A	MW-20	MW-3
6/22/2020									
6/23/2020								48.4	5.27
6/24/2020									
9/21/2020								49.9	
9/22/2020					138				5.03
9/23/2020		69.3							
9/24/2020						118	99.7		
4/19/2021			57.9		111				
4/20/2021								49.2	
4/21/2021	112	72.1					96.8		
4/22/2021				126		84.3			7.09
9/28/2021			62.5		138				
9/29/2021				108		88.8			5.81
9/30/2021		81.7							
10/1/2021	107						95.4		
10/4/2021								41.2	
4/25/2022	100						115		
4/26/2022				119	111				
4/27/2022		59.4							
5/2/2022			52.6						
5/3/2022									6.8
5/4/2022						82.3		43.1	
10/11/2022								46	4.33
10/12/2022					113	84.3			
10/13/2022							96.1		
10/17/2022		66.7							
10/18/2022			49.9						
4/10/2023			53.8						6.57
4/11/2023								47	
4/12/2023		50							
4/13/2023				102		97			
4/18/2023	139				102		90.5		

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-21	MW-18	MW-22	MW-19	MW-15	MW-23	MW-16	MW-17	MW-13A
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
5/20/2016									
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									
1/30/2017									
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									
8/13/2018									
8/14/2018									
8/15/2018									
4/6/2019	72								
4/7/2019		45	120	41	22				
4/8/2019						370	120	220	
4/9/2019									16
4/10/2019									
7/31/2019			135		14.7		130	188	
8/1/2019	87.5	36.4		42.7		393			22.9
9/23/2019									20.5
9/24/2019		34.5			14.5				
9/25/2019	81.2			39.3			121		
9/26/2019			134					162	
9/27/2019						433			
11/18/2019									21.9
11/19/2019	83	33.4	127			481	123	185	
11/20/2019				34.5	12.4				
1/29/2020	76.2		12.4	34.2					
1/30/2020		45.5			12.5	563	105	212	22.6
3/23/2020			136		10.7	484	87.7		
3/24/2020									
3/25/2020	84.3	42.7		39.3				350	25.1
3/26/2020									

Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-21	MW-18	MW-22	MW-19	MW-15	MW-23	MW-16	MW-17	MW-13A
6/22/2020					12.1		90.7		
6/23/2020		37.8	139	34.1				194	23.5
6/24/2020	100					557			
9/21/2020			31.7		11.3				22.6
9/22/2020	84.1	32		37.4			106	131	
9/23/2020									
9/24/2020						543			
4/19/2021		52.9						147	26.8
4/20/2021			118	28	11.4		80.3		
4/21/2021	101								
4/22/2021						640			
9/28/2021				28.4				146	28.5
9/29/2021		30.4							
9/30/2021			132						
10/1/2021						561			
10/4/2021	79.9				13.1		87.3		
4/25/2022									
4/26/2022		47.4		28.5	9.38		70.4		
4/27/2022									27.5
5/2/2022			130						
5/3/2022	87							122	
5/4/2022						504			
10/11/2022									
10/12/2022		34.1			9.16		71.4	120	
10/13/2022	79.2		114						
10/17/2022									25
10/18/2022				31.8		354			
4/10/2023									
4/11/2023	80.1								27.6
4/12/2023		43.9	124		9.78		59.3	115	
4/13/2023				26.5					
4/18/2023						396			

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-7	MW-5	MW-9	MW-6	MW-4	MW-2 (bg)	MW-11	MW-10
3/29/2016	2.5	210	71	66	52	460	0.89 (J)		
3/30/2016								83	110
5/18/2016	2.1			78			<2		100
5/19/2016		180	41		45	430		390	
5/20/2016									
7/19/2016	2.2	67		120		400	<2		
7/20/2016					35			340	100
8/4/2016									
9/19/2016	1.4 (J)						<2		
9/20/2016		280		180	34	500			110
9/21/2016								510	
11/29/2016	3.5			390	39	560	2.2		
11/30/2016		440							91
12/1/2016								390	
1/30/2017									
1/31/2017	2.9			300	48	490	1.1 (J)		
2/1/2017		110	190						150
2/2/2017								290	
5/22/2017				310					
5/23/2017	4					500	1.9 (J)		
5/24/2017		150	120		44			310	100
5/25/2017									
10/9/2017	3.8			310					
10/10/2017						470	1.8 (J)	460	
10/11/2017		44			33				86
4/17/2018	2.6			180	31		0.93 (J)		
4/18/2018		26	90			480		320	
4/19/2018									110
8/13/2018									
8/14/2018	2.7			430		470	0.63 (J)		71
8/15/2018		110			24			170	
4/6/2019									
4/7/2019		81			24				
4/8/2019									
4/9/2019			43					310	68
4/10/2019	2.8			440		430	<2		
7/31/2019									
8/1/2019									
9/23/2019									
9/24/2019	2.59			503		469	1.05		
9/25/2019		25.5			16.4				
9/26/2019								399	72.5
9/27/2019									
11/18/2019									
11/19/2019									
11/20/2019									
1/29/2020									
1/30/2020									
3/23/2020			52.3						
3/24/2020									
3/25/2020								278	91
3/26/2020	3.48	11.4		526	19.3	504	0.969		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-7	MW-5	MW-9	MW-6	MW-4	MW-2 (bg)	MW-11	MW-10
6/22/2020									
6/23/2020									
6/24/2020									
9/21/2020									
9/22/2020									
9/23/2020	2.58	10.3		421	20.5	478	1.02		73.5
9/24/2020								144	
4/19/2021			52.2						
4/20/2021		5.61						92.1	111
4/21/2021				329	12.7	493			
4/22/2021	2.47						1.1		
9/28/2021			20.3			443			
9/29/2021		5.63							
9/30/2021	2.27			265	15.1		1.03		60.9
10/1/2021								76	
10/4/2021									
4/25/2022				204					
4/26/2022			39.1						
4/27/2022					10.6			59	101
5/2/2022	2.25						1.2		
5/3/2022		3.61				457			
5/4/2022									
10/11/2022	2.38			188		489	1.24		
10/12/2022									
10/13/2022									69.3
10/17/2022		3.31			13.4			28.2	
10/18/2022									
4/10/2023						397			
4/11/2023	1.87			131			1.14		
4/12/2023		3.03			9.31			33.8	83.4
4/13/2023									
4/18/2023			20.4						

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-12	MW-8	MW-13	MW-14	MW-5A	MW-14A	MW-12A	MW-20	MW-3
3/29/2016									
3/30/2016	520	7.9							
5/18/2016									
5/19/2016	80	14	44						
5/20/2016				70					
7/19/2016									
7/20/2016		51	34						
8/4/2016					340	210	91		
9/19/2016									
9/20/2016		54			350		91		
9/21/2016			36			220			
11/29/2016			170						
11/30/2016		47			240		98		
12/1/2016						220			
1/30/2017			130						
1/31/2017				190		230			
2/1/2017	89	58			340		120		
2/2/2017									
5/22/2017			39						
5/23/2017				110		240			
5/24/2017		28			310				
5/25/2017	93						90		
10/9/2017									
10/10/2017			13		230	220	83		
10/11/2017		45							
4/17/2018				140		270			
4/18/2018		32	7.2		290				
4/19/2018	130						180		
8/13/2018			10						
8/14/2018							91		
8/15/2018		45			180	210			
4/6/2019								9.4	<2
4/7/2019		6							
4/8/2019									
4/9/2019	110		5.6		190		110		
4/10/2019				75		210			
7/31/2019									
8/1/2019								9.17	1.85
9/23/2019			15						
9/24/2019									2.16
9/25/2019								8.12	
9/26/2019		44.8			142	174	84.3		
9/27/2019									
11/18/2019									2.16
11/19/2019									
11/20/2019								10.1	
1/29/2020								9.51	2.46
1/30/2020									
3/23/2020					159	102			
3/24/2020	84.9			72.2			85.2		
3/25/2020			2.49					9.86	
3/26/2020		13.4							2.62

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-12	MW-8	MW-13	MW-14	MW-5A	MW-14A	MW-12A	MW-20	MW-3
6/22/2020									
6/23/2020								9.81	1.81
6/24/2020									
9/21/2020								10.4	
9/22/2020					88.7				1.97
9/23/2020		31.5							
9/24/2020						110	76.8		
4/19/2021			4.5		98.7				
4/20/2021								7.83	
4/21/2021	48.7	16.4					66.9		
4/22/2021				56.5		54			2.33
9/28/2021			1.82		102				
9/29/2021				26.1		56.3			1.75
9/30/2021		4.61							
10/1/2021	57.3						73.9		
10/4/2021								4.98	
4/25/2022	47.8						46.4		
4/26/2022				43.5	115				
4/27/2022		10.3							
5/2/2022			2.18						
5/3/2022									2.01
5/4/2022						55.5		5.99	
10/11/2022								5.36	1.85
10/12/2022					82.5	87.6			
10/13/2022							59.9		
10/17/2022		30.2							
10/18/2022			2.82						
4/10/2023			1.94						1.68
4/11/2023								5.15	
4/12/2023		13.8							
4/13/2023				78.1		46.3			
4/18/2023	26.6				95.5		58		

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-21	MW-18	MW-22	MW-19	MW-15	MW-23	MW-16	MW-17	MW-13A
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
5/20/2016									
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									
1/30/2017									
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									
8/13/2018									
8/14/2018									
8/15/2018									
4/6/2019	28								
4/7/2019		16	19	31	14				
4/8/2019						350	130	240	
4/9/2019									27
4/10/2019									
7/31/2019			17.2		8.91		107	166	
8/1/2019	30.8	14.9		31.2		378			36.6
9/23/2019									41.7
9/24/2019		15.5			8.58				
9/25/2019	36.6			30.1			102		
9/26/2019			17.3					143	
9/27/2019						349			
11/18/2019									47.4
11/19/2019	36.5	17.3	18.5			359	107	179	
11/20/2019				25.1	8.43				
1/29/2020	38		17.8	12.6					
1/30/2020		12.3			7.65	460	76	196	47.6
3/23/2020			19.7		5.96	454	73.3		
3/24/2020									
3/25/2020	21.1	12.6		19.1				170	50.4
3/26/2020									

Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-21	MW-18	MW-22	MW-19	MW-15	MW-23	MW-16	MW-17	MW-13A
6/22/2020					5.34		58.5		
6/23/2020		12.8	10.5	17.5				184	50.2
6/24/2020	33.2					432			
9/21/2020			13.6		5.56				49.6
9/22/2020	37.6	13.7		23.4			77.2	126	
9/23/2020									
9/24/2020						401			
4/19/2021		12.1						129	55.8
4/20/2021			13	9.31	6.65		56.7		
4/21/2021	25								
4/22/2021						483			
9/28/2021				11.2				123	56.5
9/29/2021		13.1							
9/30/2021			10.6						
10/1/2021						434			
10/4/2021	16.9				5.7		73.6		
4/25/2022									
4/26/2022		12.4		11.2	5.46		45.9		
4/27/2022									60.9
5/2/2022			10.8						
5/3/2022	19.2							103	
5/4/2022						469			
10/11/2022									
10/12/2022		12.5			4.78		45.3	109	
10/13/2022	27.5		11						
10/17/2022									65.4
10/18/2022				22.9		43.4			
4/10/2023									
4/11/2023	19.9								71.3
4/12/2023		12.5	11.6		4.91		32.2	102	
4/13/2023				9.32					
4/18/2023						299			

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-7	MW-5	MW-9	MW-6	MW-4	MW-2 (bg)	MW-11	MW-10
3/29/2016	0.04 (J)	0.79	0.1	0.12	0.12	0.31	<0.125		
3/30/2016								0.05 (J)	0.06 (J)
5/18/2016	0.04 (J)			0.12			<0.125		0.06 (J)
5/19/2016		1.1	0.15		0.14	0.34		1.6	
5/20/2016									
7/19/2016	0.04 (J)	1.7		0.12		0.37	<0.125		
7/20/2016					0.24			1.8	0.07 (J)
8/4/2016									
9/19/2016	<0.125						<0.125		
9/20/2016		1.6		0.11	0.23	0.38			0.06 (J)
9/21/2016								1.8	
11/29/2016	<0.125			0.09 (J)	0.17	0.34	<0.125		
11/30/2016		1.4							0.04 (J)
12/1/2016								1.7	
1/30/2017									
1/31/2017	0.04 (J)			0.1	0.04 (J)	0.41	<0.125		
2/1/2017		1.1	<0.125						0.06 (J)
2/2/2017								2.4	
5/22/2017				0.1					
5/23/2017	0.05 (J)					0.36	<0.125		
5/24/2017		1.7	0.08 (J)		0.1			2.2	0.08 (J)
5/25/2017									
10/9/2017	0.06 (J)			0.12					
10/10/2017						0.39	<0.125	2.1	
10/11/2017		2.3			0.24				0.06 (J)
4/17/2018	0.07 (J)			0.15	0.06 (J)		<0.125		
4/18/2018		1.4	0.11			0.38		2	
4/19/2018									0.07 (J)
8/13/2018									
8/14/2018	0.07 (J)			0.12		0.47	0.04 (J)		0.07 (J)
8/15/2018		2.2			0.27			2.5	
4/6/2019									
4/7/2019		1.5			0.06 (J)				
4/8/2019									
4/9/2019			0.18					1.9	0.06 (J)
4/10/2019	0.08 (J)			0.09 (J)		0.38	<0.125		
7/31/2019									
8/1/2019									
9/23/2019									
9/24/2019	<0.125			<0.125		1.03	<0.125		
9/25/2019		2.43			0.324				
9/26/2019								1.93	<0.125
9/27/2019									
11/18/2019									
11/19/2019									
11/20/2019									
1/29/2020									
1/30/2020									
3/23/2020			0.336						
3/24/2020									
3/25/2020								1.72	0.236
3/26/2020	<0.125	1.37		<0.125	<0.125	0.288	<0.125		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-7	MW-5	MW-9	MW-6	MW-4	MW-2 (bg)	MW-11	MW-10
6/22/2020									
6/23/2020									
6/24/2020									
9/21/2020									
9/22/2020									
9/23/2020	<0.125	1.92		<0.125	0.237	0.43	<0.125		<0.125
9/24/2020								1.94	
4/19/2021			<0.125						
4/20/2021		1.06						1.9	<0.125
4/21/2021				0.158	<0.125	0.549			
4/22/2021	<0.125						<0.125		
9/28/2021			0.193			0.665			
9/29/2021		2.23							
9/30/2021	0.143			<0.125	<0.125		<0.125		<0.125
10/1/2021								2.24	
10/4/2021									
4/25/2022				<0.125					
4/26/2022			<0.125						
4/27/2022					<0.125			2.01	0.282
5/2/2022	<0.125						<0.125		
5/3/2022		2.11				0.43			
5/4/2022									
10/11/2022	<0.125			0.139		0.738	<0.125		
10/12/2022									
10/13/2022									<0.125
10/17/2022		2.58			<0.125			2.03	
10/18/2022									
4/10/2023						0.4			
4/11/2023	<0.125			0.14			<0.125		
4/12/2023		1.98			<0.125			1.74	<0.125
4/13/2023									
4/18/2023			<0.125						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-12	MW-8	MW-13	MW-14	MW-5A	MW-14A	MW-12A	MW-20	MW-3
3/29/2016									
3/30/2016	1.5	0.13							
5/18/2016									
5/19/2016	0.04 (J)	0.16	0.07 (J)						
5/20/2016				0.22					
7/19/2016									
7/20/2016		0.16	0.08 (J)						
8/4/2016					1.2	0.05 (J)	0.04 (J)		
9/19/2016									
9/20/2016		0.14			1.7		0.04 (J)		
9/21/2016			0.08 (J)			0.05 (J)			
11/29/2016			0.06 (J)						
11/30/2016		0.12			1.5		<0.125		
12/1/2016						0.05 (J)			
1/30/2017			0.06 (J)						
1/31/2017				0.04 (J)		<0.125			
2/1/2017	0.04 (J)	0.16			2.1		0.04 (J)		
2/2/2017									
5/22/2017			0.09 (J)						
5/23/2017				0.06 (J)		0.04 (J)			
5/24/2017		0.19			1.3				
5/25/2017	0.05 (J)						0.05 (J)		
10/9/2017									
10/10/2017			0.1		2.2	0.04 (J)	0.04 (J)		
10/11/2017		0.19							
4/17/2018				0.15		0.05 (J)			
4/18/2018		0.19	0.11		<0.125				
4/19/2018	0.04 (J)						0.05 (J)		
8/13/2018			0.13						
8/14/2018							0.05 (J)		
8/15/2018		0.22			2	0.05 (J)			
4/6/2019								0.14	0.04 (J)
4/7/2019		0.17							
4/8/2019									
4/9/2019	0.05 (J)		0.1		1.6		0.05 (J)		
4/10/2019				0.19		0.06 (J)			
7/31/2019									
8/1/2019								0.203	<0.125
9/23/2019			0.132						
9/24/2019									<0.125
9/25/2019								0.16	
9/26/2019		0.183			1.92	<0.125	<0.125		
9/27/2019									
11/18/2019									<0.125
11/19/2019									
11/20/2019								0.155	
1/29/2020								0.357	<0.125
1/30/2020									
3/23/2020					1.27	<0.125			
3/24/2020	<0.125			0.194			<0.125		
3/25/2020			0.152					0.158	
3/26/2020		0.38							<0.125

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-12	MW-8	MW-13	MW-14	MW-5A	MW-14A	MW-12A	MW-20	MW-3
6/22/2020									
6/23/2020								<0.125	<0.125
6/24/2020									
9/21/2020								0.147	
9/22/2020					1.33				<0.125
9/23/2020		0.233							
9/24/2020						<0.125	<0.125		
4/19/2021			<0.125		1.13				
4/20/2021								0.164	
4/21/2021	<0.125	0.229					<0.125		
4/22/2021				<0.125		<0.125			<0.125
9/28/2021			0.203		1.86				
9/29/2021				0.178		0.136			<0.125
9/30/2021		0.267							
10/1/2021	<0.125						<0.125		
10/4/2021								<0.125	
4/25/2022	<0.125						<0.125		
4/26/2022				0.186	1.45				
4/27/2022		0.291							
5/2/2022			<0.125						
5/3/2022									<0.125
5/4/2022						<0.125		<0.125	
10/11/2022								0.182	<0.125
10/12/2022					1.57	<0.125			
10/13/2022							<0.125		
10/17/2022		<0.125							
10/18/2022			<0.125						
4/10/2023			0.13						<0.125
4/11/2023								<0.125	
4/12/2023		0.225							
4/13/2023				<0.125		<0.125			
4/18/2023	<0.125				1.27		<0.125		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-21	MW-18	MW-22	MW-19	MW-15	MW-23	MW-16	MW-17	MW-13A
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
5/20/2016									
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									
1/30/2017									
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									
8/13/2018									
8/14/2018									
8/15/2018									
4/6/2019	0.09 (J)								
4/7/2019		0.11	0.11	0.04 (J)	0.06 (J)				
4/8/2019						3.2	0.09 (J)	1.1	
4/9/2019									0.06 (J)
4/10/2019									
7/31/2019			<0.125		<0.125		<0.125	0.342	
8/1/2019	0.138	<0.125		<0.125		2.07			<0.125
9/23/2019									<0.125
9/24/2019		<0.125			<0.125				
9/25/2019	0.125			<0.125			<0.125		
9/26/2019			<0.125					0.339	
9/27/2019						2.96			
11/18/2019									<0.125
11/19/2019	<0.125	0.135	<0.125			0.812	<0.125	1.48	
11/20/2019				<0.125	<0.125				
1/29/2020	0.229		0.206	<0.125					
1/30/2020		0.271			<0.125	2.05	0.192	1.71	<0.125
3/23/2020			0.246		<0.125	1.43	0.199		
3/24/2020									
3/25/2020	0.169	0.129		<0.125				1.21	<0.125
3/26/2020									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-21	MW-18	MW-22	MW-19	MW-15	MW-23	MW-16	MW-17	MW-13A
6/22/2020					<0.125		<0.125		
6/23/2020		<0.125	<0.125	<0.125				1.32	<0.125
6/24/2020	<0.125					1.12			
9/21/2020			<0.125		<0.125				<0.125
9/22/2020	0.127	<0.125		<0.125			<0.125	0.322	
9/23/2020									
9/24/2020						1.76			
4/19/2021		0.138						1.37	<0.125
4/20/2021			<0.125	<0.125	<0.125		<0.125		
4/21/2021	0.163								
4/22/2021						1.69			
9/28/2021				<0.125				1.96	<0.125
9/29/2021		0.143							
9/30/2021			<0.125						
10/1/2021						2.29			
10/4/2021	<0.125				<0.125		<0.125		
4/25/2022									
4/26/2022		0.146		<0.125	<0.125		<0.125		
4/27/2022									<0.125
5/2/2022			<0.125						
5/3/2022	<0.125							1.69	
5/4/2022						2.21			
10/11/2022									
10/12/2022		<0.125			<0.125		<0.125	0.472	
10/13/2022	<0.125		<0.125						
10/17/2022									<0.125
10/18/2022				<0.125		2.48			
4/10/2023									
4/11/2023	<0.125								<0.125
4/12/2023		<0.125	<0.125		<0.125		<0.125	1.43	
4/13/2023				<0.125					
4/18/2023						2.02			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-4	MW-5	MW-6	MW-9	MW-7	MW-12	MW-8	MW-11
3/29/2016	5.46	4.52	5.96	6.15	6.26	5.94	6.13	6.11	6.76
3/30/2016							6.87	6.44	6.43
5/18/2016	5.52	4.45	6.03	6.04	6.26	5.91	5.67	6.29	6.76
5/19/2016		4.81	6.32	6.29		6.27	6.41	6.65	3.99
5/20/2016									
7/19/2016	5.31	4.55		6.2	6.2	6.13		6.43	6.75
7/20/2016				6.33				6.54	6.79
8/4/2016									
9/19/2016	5.21	4.57		6.31	6.13	6.03		6.48	6.93
9/20/2016		5.2		6.4	6.4	6.4		6.7	
9/21/2016									6.9
11/29/2016	5.3	4.06		6.35	6.26	5.99		6.43	6.65
11/30/2016						6.6		6.7	
12/1/2016									7.1
1/30/2017									
1/31/2017	5.34	4.55	5.08	5.43	6	5.93	5.71	6.42	6.8
2/1/2017			5.6			6.5	6.2	6.6	
2/2/2017									7
3/27/2017									
3/28/2017	5.35	4.53	5.23		5.9				
3/29/2017				5.82		6.05		6.19	6.88
3/30/2017							5.59		
5/22/2017					5.95				
5/23/2017	5.28	4.4							
5/24/2017			5.5	5.66		5.96		6.17	6.73
5/25/2017							5.58		
10/9/2017	4.7				5.47				
10/10/2017		4.63							6.58
10/11/2017				6.07		6.16		6.4	
4/17/2018	6.2 (HF)			6.5 (HF)	6.5 (HF)				
4/18/2018		5 (HF)	6.2 (HF)			6.7 (HF)		6.8 (HF)	7.1 (HF)
4/19/2018							5.9 (HF)		
8/13/2018									
8/14/2018	6 (HF)	5.3 (HF)			5.8 (HF)				
8/15/2018				6.4 (HF)		6.5 (HF)		6.8 (HF)	7.3 (HF)
4/6/2019									
4/7/2019				5.65		6.04		6.26	
4/8/2019									
4/9/2019			6.04				5.65		6.9
4/10/2019	5.46	4.87			5.91				
5/21/2019	5.66		6.34	5.73				6.53	
5/22/2019		5.17							
5/23/2019									6.85
9/24/2019									
9/25/2019				6.35		6.3			
9/26/2019								6.63	7.15
9/27/2019									
11/18/2019									
11/19/2019									
11/20/2019									
1/29/2020									
1/30/2020									

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-4	MW-5	MW-6	MW-9	MW-7	MW-12	MW-8	MW-11
3/23/2020									
3/24/2020			6.08				5.82		
3/25/2020									7.06
3/26/2020	5.8	5.12		6.08	6.06	6.27		6.6	
6/22/2020									
6/23/2020									
6/24/2020									
9/21/2020									
9/22/2020									
9/23/2020	5.33	4.94		6.07	5.9	6.04		6.43	
9/24/2020									6.84
4/23/2021	4.48	6.04	6.4	7.26	7.56	6.97	6.81	7.55	7.51
9/28/2021		5.03	5.66						
9/29/2021						6.67			
9/30/2021	5.8			6.04	6.22			6.7	
10/1/2021							7.07		7.09
10/4/2021									
4/13/2022									
4/25/2022					6.34		6.02		
4/26/2022			6.32						
4/27/2022				5.75				6.82	6.99
5/2/2022	5.82								
5/3/2022		4.86				6.31			
5/4/2022									
10/11/2022	5.81	5.11			6.39				
10/12/2022									
10/13/2022									
10/17/2022				6.39		6.24		6.61	6.93
10/18/2022									
4/10/2023		5.58							
4/11/2023	5.56				6.08				
4/12/2023				5.68		6.05		6.53	6.8
4/13/2023									
4/18/2023			6.1				6.1		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-2 (bg)	MW-13	MW-14	MW-12A	MW-14A	MW-5A	MW-3	MW-21
3/29/2016	3.78	4.7							
3/30/2016	3.94								
5/18/2016	3.95	4.74	6.05	6.09					
5/19/2016			6.02						
5/20/2016				5.63					
7/19/2016	3.81	4.71	5.97		5.67				
7/20/2016	3.96		6.42						
8/4/2016					6	5.63	5.97		
9/19/2016	3.79	4.59	6.18			5.75			
9/20/2016	3.9				5.59		6.01		
9/21/2016			6.5			6			
11/29/2016	3.83	4.82	6.19		5.39	5.48	5.81		
11/30/2016	3.8				6.2		6.5		
12/1/2016						6.2			
1/30/2017			6.4						
1/31/2017	4.06	4.51	6.01	4.62	5.69	5.11	5.98		
2/1/2017	4.1				6.3		6.5		
2/2/2017									
3/27/2017			6.23						
3/28/2017		4.54					5.64		
3/29/2017	3.9			4.99		5.38			
3/30/2017					5.57				
5/22/2017									
5/23/2017		4.45		5.46		5.16			
5/24/2017	3.84						5.63		
5/25/2017			6.18		5.44				
10/9/2017									
10/10/2017		4.33	5.92		5.38	5.09	5.84		
10/11/2017	4.05								
4/17/2018		5.1 (HF)		6.3 (HF)		5.7 (HF)			
4/18/2018			6.8 (HF)				6.7 (HF)		
4/19/2018	3.9 (HF)				5.8 (HF)				
8/13/2018			7 (HF)						
8/14/2018	4.4 (HF)	5.2 (HF)			6.1 (HF)				
8/15/2018						6 (HF)	6.6 (HF)		
4/6/2019								4.53	5.98
4/7/2019									
4/8/2019									
4/9/2019	3.87		6.25		5.5		6.1		
4/10/2019		4.54		6.05		5.41			
5/21/2019		4.71							
5/22/2019								4.65	6.07
5/23/2019									
9/24/2019								4.75	
9/25/2019									6.68
9/26/2019	4.36				5.85	5.76	6.1		
9/27/2019									
11/18/2019								4.59	
11/19/2019									6.4
11/20/2019									
1/29/2020								4.96	
1/30/2020									6.42

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-2 (bg)	MW-13	MW-14	MW-12A	MW-14A	MW-5A	MW-3	MW-21
3/23/2020							6.1		
3/24/2020				6.11	5.84	5.8			
3/25/2020	4.31		6.52						6.34
3/26/2020		4.81						5.14	
6/22/2020									
6/23/2020								4.73	
6/24/2020									6.23
9/21/2020									
9/22/2020							5.94	4.37	6.42
9/23/2020	3.91	4.42							
9/24/2020					5.41	5.4			
4/23/2021	5.24	3.22	6.2	4.83	6.78	4.45	6.35	3.9	7.1
9/28/2021			6.61				6.34		
9/29/2021				6.42		6.08		5.21	
9/30/2021	4.41	4.82							
10/1/2021					5.83				
10/4/2021									6.53
4/13/2022				5.7					
4/25/2022					5.86				
4/26/2022				6.35			6.09		
4/27/2022	3.8								
5/2/2022		4.83	6.41						
5/3/2022								5.08	6.35
5/4/2022						5.91			
10/11/2022		4.91						4.87	
10/12/2022						5.51	5.83		
10/13/2022	4.81				5.63				6.65
10/17/2022									
10/18/2022			6.02						
4/10/2023			6.81					4.75	
4/11/2023		4.57							6.24
4/12/2023	4.55								
4/13/2023						5.62			
4/18/2023					5.69		5.93		

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-15	MW-18	MW-19	MW-22	MW-17	MW-16	MW-23	MW-13A
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
5/20/2016									
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									
1/30/2017									
1/31/2017									
2/1/2017									
2/2/2017									
3/27/2017									
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									
8/13/2018									
8/14/2018									
8/15/2018									
4/6/2019	6.1								
4/7/2019		5.49	6.24	4.95	6.24				
4/8/2019						6.12	5.9	6.91	
4/9/2019									5.78
4/10/2019									
5/21/2019									
5/22/2019	6.16	5.55	6.15	5.01	6.23	6.09	5.86	6.72	5.94
5/23/2019									
9/24/2019		5.68	5.94						
9/25/2019	6.64			4.92			6.06		
9/26/2019					6.39	6.24			
9/27/2019								6.97	
11/18/2019									5.56
11/19/2019			6.08		6.37	6.27	5.99	6.92	
11/20/2019	6.18	4.98		4.97					
1/29/2020									
1/30/2020	6.44	5.03	6.19	5.57	6.41	6.11	5.85	6.63	5.5

Prediction Limit

Constituent: pH, Field (SU) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-20	MW-15	MW-18	MW-19	MW-22	MW-17	MW-16	MW-23	MW-13A
3/23/2020					6.41			6.73	
3/24/2020		5.44					5.97		
3/25/2020	6.39		6.27	5.44		6.22			5.59
3/26/2020									
6/22/2020		5.49					5.95		
6/23/2020	6.33		6.16	5.19	6.44	6.29			5.62
6/24/2020								6.51	
9/21/2020	6.26	5.04			6.23				5.32
9/22/2020			5.87	4.8		6.01	5.78		
9/23/2020									
9/24/2020								6.4	
4/23/2021	7.29	7.41	6.92	7.15	7.1	6.7	6.25	5.06	5.28
9/28/2021						6.45			5.64
9/29/2021			6.37	5.84					
9/30/2021					6.6				
10/1/2021								6.69	
10/4/2021	6.53	6.11					6.17		
4/13/2022									
4/25/2022									
4/26/2022		5.17	6.25	5.65			5.99		
4/27/2022									5.39
5/2/2022					6.46				
5/3/2022						6.26			
5/4/2022	6.29							6.62	
10/11/2022	6.66								
10/12/2022		5.15	5.81			5.81	5.68		
10/13/2022					6.4				
10/17/2022									5.47
10/18/2022				4.87				6.26	
4/10/2023		5.14							
4/11/2023	6.06								5.3
4/12/2023			6.04		6.2	6	5.7		
4/13/2023				5.33					
4/18/2023								6.61	

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-7	MW-5	MW-9	MW-6	MW-4	MW-2 (bg)	MW-11	MW-10
3/29/2016	15	390	150	77	140	610	14		
3/30/2016								230	250
5/18/2016	14			180			14		250
5/19/2016		480	20		130	550		990	
5/20/2016									
7/19/2016	12	170 (J)		200		490	14		
7/20/2016					64			770	190 (J)
8/4/2016									
9/19/2016	14						16		
9/20/2016		650		310	94	610			260
9/21/2016								1200	
11/29/2016	18			570	100	710	17		
11/30/2016		870							260
12/1/2016								830	
1/30/2017									
1/31/2017	20			280	140	470	15		
2/1/2017		230	140						270
2/2/2017								550	
5/22/2017				460					
5/23/2017	16					640	16		
5/24/2017		370	230		130			680	250
5/25/2017									
10/9/2017	12			420					
10/10/2017						520	15	920	
10/11/2017		230			120				230
4/17/2018	12			230	170		15		
4/18/2018		96	130			580		780	
4/19/2018									290
8/13/2018									
8/14/2018	11			720		560	15		200
8/15/2018		400			89			470	
4/6/2019									
4/7/2019		280			170				
4/8/2019									
4/9/2019			<1					690	210
4/10/2019	10			790		510	14		
7/31/2019									
8/1/2019									
9/23/2019									
9/24/2019	14.3			1070		656	20.4		
9/25/2019		158			62.8				
9/26/2019								1330	386
9/27/2019									
11/18/2019									
11/19/2019									
11/20/2019									
1/29/2020									
1/30/2020									
3/23/2020			81.3						
3/24/2020									
3/25/2020								1000	397
3/26/2020	30	72.1		1100	173	637	17.9		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-7	MW-5	MW-9	MW-6	MW-4	MW-2 (bg)	MW-11	MW-10
6/22/2020									
6/23/2020									
6/24/2020									
9/21/2020									
9/22/2020									
9/23/2020	13	84.7		975	69.1	602	15.4		234
9/24/2020								590	
4/19/2021			121						
4/20/2021		48.7						460	389
4/21/2021				865	137	725			
4/22/2021	31.8						15.4		
9/28/2021			20.8			751			
9/29/2021		80.1							
9/30/2021	13.7			881	135		16.2		210
10/1/2021								427	
10/4/2021									
4/25/2022				726					
4/26/2022			86.5						
4/27/2022					129			375	346
5/2/2022	15.4						21.9		
5/3/2022		64.3				867			
5/4/2022									
10/11/2022	11.5			767		732	20.7		
10/12/2022									
10/13/2022									208
10/17/2022		55.4			69.9			262	
10/18/2022									
4/10/2023						678			
4/11/2023	29.9			602			20.9		
4/12/2023		50			123			260	296
4/13/2023									
4/18/2023			38.4						

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-12	MW-8	MW-13	MW-14	MW-5A	MW-14A	MW-12A	MW-20	MW-3
3/29/2016									
3/30/2016	870	12							
5/18/2016									
5/19/2016	250	12	230						
5/20/2016				<1					
7/19/2016									
7/20/2016		<1	130						
8/4/2016					790	340	310		
9/19/2016									
9/20/2016		<1			890		330		
9/21/2016			90			390			
11/29/2016			120						
11/30/2016		<1			660		350		
12/1/2016						360			
1/30/2017			170						
1/31/2017				260		300			
2/1/2017	180	21			590		200		
2/2/2017									
5/22/2017			120						
5/23/2017				170		480			
5/24/2017		9.6			430				
5/25/2017	210						210		
10/9/2017									
10/10/2017			63		140	390	230		
10/11/2017		2.9 (J)							
4/17/2018				260		460			
4/18/2018		<1	41 (F1)		170				
4/19/2018	250						320		
8/13/2018			49						
8/14/2018							210		
8/15/2018		<1			130	360			
4/6/2019								26	21
4/7/2019		3.4 (J)							
4/8/2019									
4/9/2019	250		32		130		240		
4/10/2019				160		390			
7/31/2019									
8/1/2019								22.8	23.1
9/23/2019			42.3						
9/24/2019									26
9/25/2019								<1	
9/26/2019		<1			204	442	261		
9/27/2019									
11/18/2019									21.1
11/19/2019									
11/20/2019								13.4	
1/29/2020								11.1	20.6
1/30/2020									
3/23/2020					126	217			
3/24/2020	385			281			395		
3/25/2020			42.1					28.4	
3/26/2020		6.32							27.8

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-12	MW-8	MW-13	MW-14	MW-5A	MW-14A	MW-12A	MW-20	MW-3
6/22/2020									
6/23/2020								41.9	20.6
6/24/2020									
9/21/2020								11.1	
9/22/2020					178				19.7
9/23/2020		<1							
9/24/2020						249	232		
4/19/2021			48.1		116				
4/20/2021								11.5	
4/21/2021	225	3.25					211		
4/22/2021				123		113			22.5
9/28/2021			47		101				
9/29/2021				51.1		117			20.8
9/30/2021		11							
10/1/2021	236						241		
10/4/2021								32.5	
4/25/2022	197						190		
4/26/2022				98.9	122				
4/27/2022		10.2							
5/2/2022			46.9						
5/3/2022									23.7
5/4/2022						116		28.7	
10/11/2022								<1	19.9
10/12/2022					177	171			
10/13/2022							253		
10/17/2022		<1							
10/18/2022			30.9						
4/10/2023			27.9						26.4
4/11/2023								14.5	
4/12/2023		<1							
4/13/2023				214		91			
4/18/2023	297				114		211		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-21	MW-18	MW-22	MW-19	MW-15	MW-23	MW-16	MW-17	MW-13A
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
5/20/2016									
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									
1/30/2017									
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									
8/13/2018									
8/14/2018									
8/15/2018									
4/6/2019	25								
4/7/2019		17	12	90	34				
4/8/2019						620	210	220	
4/9/2019									54
4/10/2019									
7/31/2019			21.4		32.8		198	223	
8/1/2019	27.3	34.8		107		868			83.3
9/23/2019									76
9/24/2019		27.8			29.6				
9/25/2019	18.4			94.1			190		
9/26/2019			8.64					232	
9/27/2019						981			
11/18/2019									81.2
11/19/2019	46	26.6	13.2			1010	193	207	
11/20/2019				90.7	32.1				
1/29/2020	18.4		5.75	73.7					
1/30/2020		<1			36.3	1240	129	192	85.7
3/23/2020			16.2		27.3	1020	119		
3/24/2020									
3/25/2020	49.3	3.65		84.7				278	89.6
3/26/2020									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 6/6/2023 2:59 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-21	MW-18	MW-22	MW-19	MW-15	MW-23	MW-16	MW-17	MW-13A
6/22/2020					26.8		106		
6/23/2020		12.8	36.3	72.5				168	72.6
6/24/2020	67.6					1040			
9/21/2020			15.5		28.4				72.8
9/22/2020	9.34	25.2		84.3			129	88.7	
9/23/2020									
9/24/2020						1090			
4/19/2021		<1						149	75
4/20/2021			11.7	49.1	27		95.8		
4/21/2021	51.8								
4/22/2021						1110			
9/28/2021				61.9				164	86.5
9/29/2021		30.6							
9/30/2021			20.6						
10/1/2021						1110			
10/4/2021	89.5				27.6		123		
4/25/2022									
4/26/2022		1.15		57.3	20.3		79.2		
4/27/2022									80.7
5/2/2022			20.8						
5/3/2022	81.7							141	
5/4/2022						1140			
10/11/2022									
10/12/2022		28.4			20.2		72.5	174	
10/13/2022	21.2		2.89						
10/17/2022									91
10/18/2022				79.8		169			
4/10/2023									
4/11/2023	38.9								91.3
4/12/2023		2.04	1.42		23.1		52.1	157	
4/13/2023				63.4					
4/18/2023						983			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/6/2023 3:00 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)	MW-9	MW-4	MW-5	MW-6	MW-7	MW-11	MW-10
3/29/2016	100	46	430	1700	770	490	1200		
3/30/2016								620	550
5/18/2016	150	56	530						650
5/19/2016				2000	680	430	1600	2800	
5/20/2016									
7/19/2016	90	42	760	1900			740		
7/20/2016						340		2700	590
8/4/2016									
9/19/2016	80	30							
9/20/2016			920	1800		370	1800		590
9/21/2016								3300	
11/29/2016	110	76	1600	2400		380			
11/30/2016							2800		570
12/1/2016								2400	
1/30/2017									
1/31/2017	98	32	1100	310		410			
2/1/2017					1300		770		750
2/2/2017								1700	
5/22/2017			1300						
5/23/2017	74	26		1800					
5/24/2017					940	400	1100	1700	570
5/25/2017									
10/9/2017	150		1500						
10/10/2017		46		1900				2800	
10/11/2017						410	710		520
4/17/2018	140	38	720			480			
4/18/2018				1700	880		410	2100	
4/19/2018									670
8/13/2018									
8/14/2018	110	50	1700	1700					490
8/15/2018						400	1100	1300	
4/6/2019									
4/7/2019						370	860		
4/8/2019									
4/9/2019					700			1900	460
4/10/2019	150	44	1900	1800					
7/31/2019									
8/1/2019									
9/23/2019									
9/24/2019	160	66.2	2360	1890					
9/25/2019						298	580		
9/26/2019								2840	458
9/27/2019									
11/18/2019									
11/19/2019									
11/20/2019									
1/29/2020									
1/30/2020									
3/23/2020					555				
3/24/2020									
3/25/2020								2130	642
3/26/2020	172	69.3	2300	1650		398	356		

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/6/2023 3:00 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-1 (bg)	MW-2 (bg)	MW-9	MW-4	MW-5	MW-6	MW-7	MW-11	MW-10
6/22/2020									
6/23/2020									
6/24/2020									
9/21/2020									
9/22/2020									
9/23/2020	118	64.5	2350	1850		337	366		469
9/24/2020								1400	
4/19/2021					725				
4/20/2021							310	1080	779
4/21/2021			1850	1990		455			
4/22/2021	220	56							
9/28/2021				1700	698				
9/29/2021							323		
9/30/2021	232	70.5	1840			421			445
10/1/2021								968	
10/4/2021									
4/25/2022			1450						
4/26/2022					658				
4/27/2022						368		848	708
5/2/2022	143	37.8							
5/3/2022				1940			295		
5/4/2022									
10/11/2022	167	51.5	1390	1810					
10/12/2022									
10/13/2022									452
10/17/2022						372	337	622	
10/18/2022									
4/11/2023	188	58.4	1200						
4/12/2023						357	278	634	563
4/13/2023									
4/18/2023				1600	645				

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/6/2023 3:00 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-12	MW-8	MW-13	MW-14	MW-12A	MW-5A	MW-14A	MW-20	MW-21
3/29/2016									
3/30/2016	2700	210							
5/18/2016									
5/19/2016	690	270	520						
5/20/2016				470					
7/19/2016									
7/20/2016		330	370						
8/4/2016					810	2500	1100		
9/19/2016									
9/20/2016		320			750	2300			
9/21/2016			310				1100		
11/29/2016			740						
11/30/2016		300			770	1800			
12/1/2016							1100		
1/30/2017			570						
1/31/2017				870			1200		
2/1/2017	530	300			670	2200			
2/2/2017									
5/22/2017			350						
5/23/2017				580			1100		
5/24/2017		280				1600			
5/25/2017	560				550				
10/9/2017									
10/10/2017			250		620	1300	1200		
10/11/2017		280							
4/17/2018				970			1400		
4/18/2018		200	170			1300			
4/19/2018	800				900				
8/13/2018			200						
8/14/2018					520				
8/15/2018		320				1000	1100		
4/6/2019								170	220
4/7/2019		190							
4/8/2019									
4/9/2019	660		200		660	920			
4/10/2019				780			1000		
7/31/2019									
8/1/2019								245	330
9/23/2019			210						
9/24/2019									
9/25/2019								212	300
9/26/2019		270			557	794	933		
9/27/2019									
11/18/2019									
11/19/2019									296
11/20/2019								202	
1/29/2020								146	265
1/30/2020									
3/23/2020						612	636		
3/24/2020	716			678	717				
3/25/2020			222					208	314
3/26/2020		241							

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/6/2023 3:00 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-12	MW-8	MW-13	MW-14	MW-12A	MW-5A	MW-14A	MW-20	MW-21
6/22/2020									
6/23/2020								246	
6/24/2020									369
9/21/2020								242	
9/22/2020						646			298
9/23/2020		250							
9/24/2020					538		684		
4/19/2021			204			579			
4/20/2021								233	
4/21/2021	640	229			575				424
4/22/2021				667			512		
9/28/2021			559			640			
9/29/2021				522			518		
9/30/2021		256							
10/1/2021	524				242				
10/4/2021								180	294
4/25/2022	516				460				
4/26/2022				613		652			
4/27/2022		202							
5/2/2022			174						
5/3/2022									313
5/4/2022							492	206	
10/11/2022								185	
10/12/2022						608	548		
10/13/2022					537				312
10/17/2022		320							
10/18/2022			187						
4/11/2023								210	312
4/12/2023		198							
4/13/2023				466			392		
4/18/2023	606		228		447	524			

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/6/2023 3:00 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-3	MW-18	MW-19	MW-22	MW-15	MW-17	MW-23	MW-16	MW-13A
3/29/2016									
3/30/2016									
5/18/2016									
5/19/2016									
5/20/2016									
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									
1/30/2017									
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									
8/13/2018									
8/14/2018									
8/15/2018									
4/6/2019	24								
4/7/2019		260	210	360	150				
4/8/2019						1300	2000	700	
4/9/2019									190
4/10/2019									
7/31/2019				420	104	945		726	
8/1/2019	<25.2	196	258				2100		264
9/23/2019									289
9/24/2019	70.7	220			128				
9/25/2019			283					602	
9/26/2019				390		765			
9/27/2019							2200		
11/18/2019	52.5								236
11/19/2019		157		383		792	2170	576	
11/20/2019			229		98.9				
1/29/2020	52.6		145	364					
1/30/2020		263			106	1050	2910	555	278
3/23/2020				402	76		2200	463	
3/24/2020									
3/25/2020		227	220			872			266
3/26/2020	80								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 6/6/2023 3:00 PM View: Interwell PLs

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-3	MW-18	MW-19	MW-22	MW-15	MW-17	MW-23	MW-16	MW-13A
6/22/2020					87.7			520	
6/23/2020	66.6	208	220	429		998			287
6/24/2020							2830		
9/21/2020				434	112				242
9/22/2020	56	170	217			642		517	
9/23/2020									
9/24/2020							2430		
4/19/2021		238				724			312
4/20/2021			166	406	83.3			469	
4/21/2021									
4/22/2021	125						2730		
9/28/2021			170			695			340
9/29/2021	61.3	163							
9/30/2021				420					
10/1/2021							2860		
10/4/2021					66			492	
4/25/2022									
4/26/2022		234	188		70			440	
4/27/2022									323
5/2/2022				404					
5/3/2022	61.4					600			
5/4/2022							2930		
10/11/2022	73.6								
10/12/2022		239			79.5	672		385	
10/13/2022				393					
10/17/2022									339
10/18/2022			235				1780		
4/11/2023									308
4/12/2023		208		402	85.7	603		322	
4/13/2023			126						
4/18/2023	<25.2						1950		

ND substitution: RL or RL/2 if <15% NDs.

Figure E. Trend Tests

Trend Tests - Prediction Limit Exceedances - Significant Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:43 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	MW-12A	-0.06264	-76	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-13	-0.1129	-65	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-13A	0.005648	45	43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-14A	-0.6908	-113	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-16	-0.4373	-62	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-17	-0.7581	-52	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-19	-0.03938	-44	-43	Yes	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-5A	-1.884	-119	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-7	-1.322	-122	-74	Yes	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-9	0.6332	91	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-1 (bg)	1.677	94	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-11	-52.24	-75	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-12A	-7.594	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-13	-5.281	-67	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-14A	-20.49	-82	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-16	-17.6	-58	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-17	-23.88	-50	-43	Yes	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-5A	-54.01	-115	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-7	-33.59	-121	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-9	57.06	94	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-11	-49.7	-95	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-12A	-5.747	-83	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-13A	7.879	72	43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-14A	-29.05	-86	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-16	-21.49	-63	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-17	-24.59	-52	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-19	-5.611	-47	-43	Yes	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-5A	-38.78	-105	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-6	-5.259	-140	-74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-1 (bg)	0.01339	98	74	Yes	19	47.37	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-4	0.02939	86	74	Yes	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-8	0.01938	109	74	Yes	19	5.263	n/a	n/a	0.01	NP
pH, Field (SU)	MW-11	0.05508	126	124	Yes	27	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-14A	-44	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-16	-39.15	-65	-43	Yes	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-19	-9.25	-46	-43	Yes	13	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	-75.69	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-7	-53.41	-112	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-9	113.5	93	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-1 (bg)	14.35	91	74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-11	-296.1	-79	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-12A	-45.23	-78	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-13A	25.76	44	43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-14A	-117	-89	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-16	-83.43	-66	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-17	-118.2	-48	-43	Yes	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-5A	-269.9	-117	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-7	-141.2	-120	-74	Yes	19	0	n/a	n/a	0.01	NP

Trend Tests - Prediction Limit Exceedances - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:43 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	MW-1 (bg)	-0.0033	-72	-74	No	19	52.63	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-10	0.02514	61	74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-11	-0.8781	-54	-74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-12	-0.1304	-32	-34	No	11	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**MW-12A**	**-0.06264**	**-76**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**MW-13**	**-0.1129**	**-65**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**MW-13A**	**0.005648**	**45**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	MW-14	-0.169	-11	-30	No	10	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**MW-14A**	**-0.6908**	**-113**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**MW-16**	**-0.4373**	**-62**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	**MW-17**	**-0.7581**	**-52**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	MW-18	-0.01084	-19	-43	No	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**MW-19**	**-0.03938**	**-44**	**-43**	**Yes**	**13**	**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	0.002482	18	43	No	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-21	0.00959	20	43	No	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-22	0.001246	4	43	No	13	7.692	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-23	-0.09421	-5	-43	No	13	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-4	0.09892	53	74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	MW-5	-0.1644	-15	-34	No	11	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**MW-5A**	**-1.884**	**-119**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	MW-6	-0.01908	-52	-74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**MW-7**	**-1.322**	**-122**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron, total (mg/L)	MW-8	0.009456	40	74	No	19	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	**MW-9**	**0.6332**	**91**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**MW-1 (bg)**	**1.677**	**94**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	MW-10	-3.384	-51	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**MW-11**	**-52.24**	**-75**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	MW-12	-5.237	-21	-34	No	11	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**MW-12A**	**-7.594**	**-91**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**MW-13**	**-5.281**	**-67**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	MW-14	-4.568	-3	-30	No	10	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**MW-14A**	**-20.49**	**-82**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**MW-16**	**-17.6**	**-58**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	**MW-17**	**-23.88**	**-50**	**-43**	**Yes**	**13**	**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-20	-0.7724	-12	-43	No	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-21	1.216	6	43	No	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-22	-1.621	-10	-43	No	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-23	33.76	16	43	No	13	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-4	-2.629	-41	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	MW-5	-5.746	-24	-34	No	11	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**MW-5A**	**-54.01**	**-115**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	MW-6	-0.9171	-21	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**MW-7**	**-33.59**	**-121**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium, total (mg/L)	MW-8	-0.9225	-39	-74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	**MW-9**	**57.06**	**94**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	MW-1 (bg)	-0.07604	-35	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-10	-4.763	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**MW-11**	**-49.7**	**-95**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	MW-12	-16.83	-33	-34	No	11	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**MW-12A**	**-5.747**	**-83**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**MW-13A**	**7.879**	**72**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	MW-14	-13.32	-19	-30	No	10	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**MW-14A**	**-29.05**	**-86**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Tests - Prediction Limit Exceedances - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:43 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride, Total (mg/L)	**MW-16**	**-21.49**	**-63**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**MW-17**	**-24.59**	**-52**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	MW-18	-0.8242	-33	-43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**MW-19**	**-5.611**	**-47**	**-43**	**Yes**	**13**	**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-21	-2.965	-26	-43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-22	-2.297	-34	-43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-23	16.67	8	43	No	13	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-4	-1.788	-18	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-5	-10.39	-29	-34	No	11	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	**MW-5A**	**-38.78**	**-105**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	**MW-6**	**-5.259**	**-140**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride, Total (mg/L)	MW-8	-3.591	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	MW-9	21.17	39	74	No	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	**MW-1 (bg)**	**0.01339**	**98**	**74**	**Yes**	**19**	**47.37**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	MW-11	0.03638	39	74	No	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-17	0.0998	18	43	No	13	0	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
Fluoride, total (mg/L)	MW-23	-0.01139	-2	-43	No	13	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	**MW-4**	**0.02939**	**86**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Fluoride, total (mg/L)	MW-5A	-0.03295	-17	-63	No	17	5.882	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	MW-7	0.1363	62	74	No	19	0	n/a	n/a	0.01	NP
Fluoride, total (mg/L)	**MW-8**	**0.01938**	**109**	**74**	**Yes**	**19**	**5.263**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MW-1 (bg)	0.05273	44	81	No	20	0	n/a	n/a	0.01	NP
pH, Field (SU)	**MW-11**	**0.05508**	**126**	**124**	**Yes**	**27**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH, Field (SU)	MW-13	0.05875	62	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
pH, Field (SU)	MW-23	-0.1322	-42	-43	No	13	0	n/a	n/a	0.01	NP
pH, Field (SU)	MW-8	0.04371	92	124	No	27	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-1 (bg)	0.08946	7	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-10	5.486	24	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-11	-81.32	-65	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-12	-2.606	-4	-34	No	11	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-12A	-7.695	-20	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-13A	3.593	32	43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-14	-7.419	-4	-30	No	10	10	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**MW-14A**	**-44**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**MW-16**	**-39.15**	**-65**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	MW-17	-22.86	-38	-43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**MW-19**	**-9.25**	**-46**	**-43**	**Yes**	**13**	**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-21	7.383	21	43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-23	55.9	27	43	No	13	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-4	26.77	74	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	MW-5	-10.81	-17	-34	No	11	9.091	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**MW-5A**	**-75.69**	**-91**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	MW-6	-0.2029	-6	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	**MW-7**	**-53.41**	**-112**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate as SO4 (mg/L)	**MW-9**	**113.5**	**93**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**MW-1 (bg)**	**14.35**	**91**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	MW-10	-14.98	-39	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**MW-11**	**-296.1**	**-79**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	MW-12	-29.31	-23	-34	No	11	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**MW-12A**	**-45.23**	**-78**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**MW-13A**	**25.76**	**44**	**43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Trend Tests - Prediction Limit Exceedances - All Results

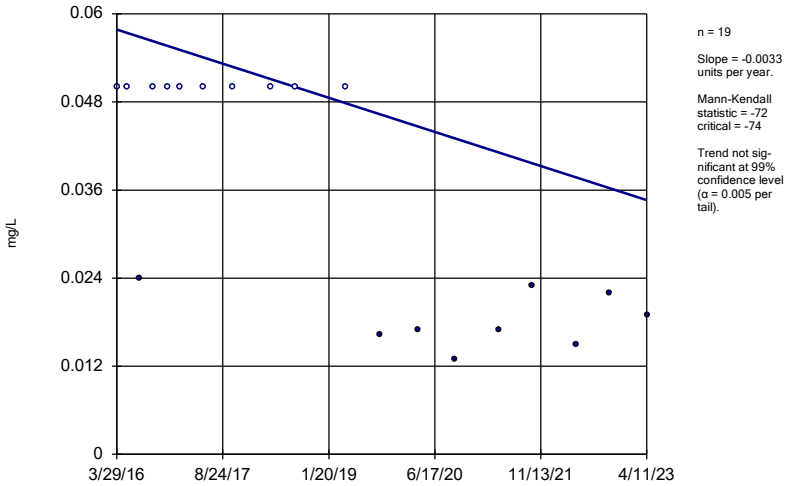
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/7/2023, 2:43 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Total Dissolved Solids [TDS] (mg/L)	MW-14	-48.05	-15	-30	No	10	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**MW-14A**	**-117**	**-89**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**MW-16**	**-83.43**	**-66**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	**MW-17**	**-118.2**	**-48**	**-43**	**Yes**	**13**	**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	5.502	13	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-22	5.489	16	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-23	219.9	17	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-4	-10.07	-17	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	MW-5	-40.05	-27	-34	No	11	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**MW-5A**	**-269.9**	**-117**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	MW-6	-6.506	-38	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	**MW-7**	**-141.2**	**-120**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids [TDS] (mg/L)	MW-9	181.4	69	74	No	19	0	n/a	n/a	0.01	NP

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-1 (bg)



Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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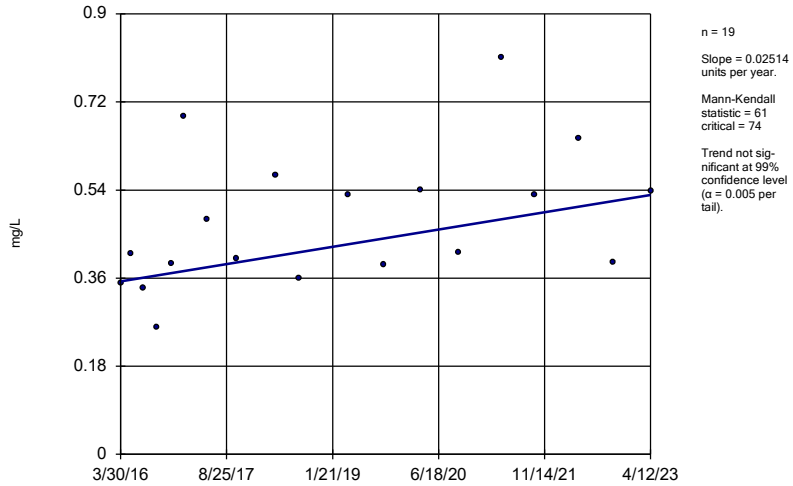
Sen's Slope Estimator

MW-10

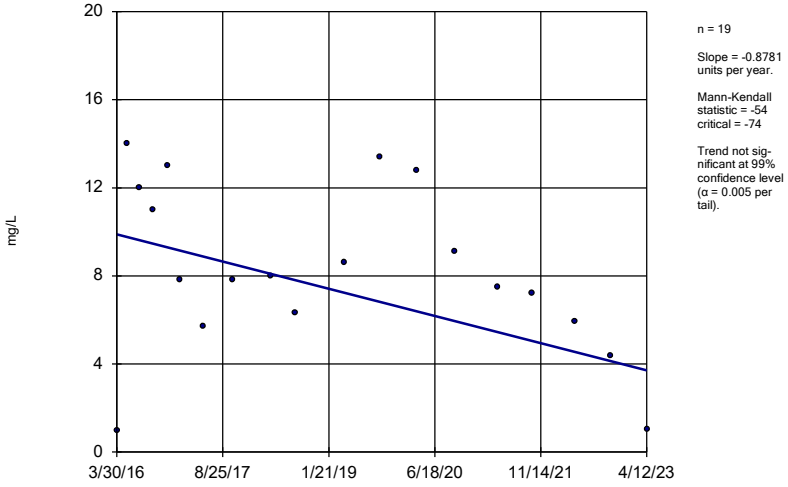


Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-11



Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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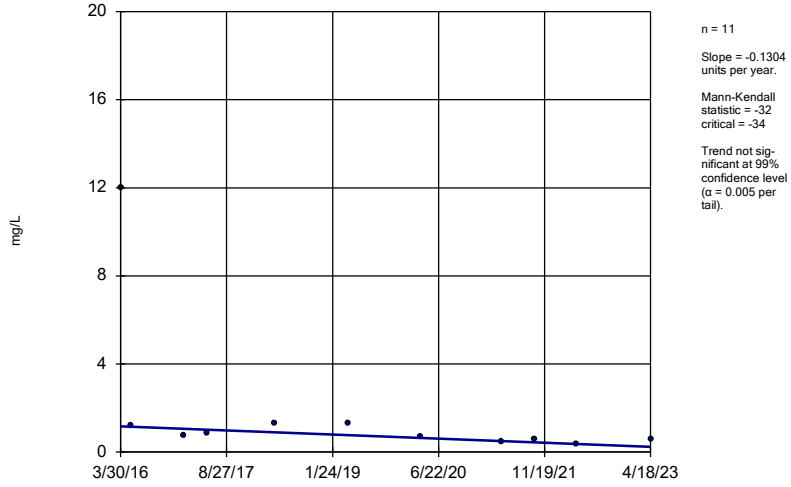
Sen's Slope Estimator

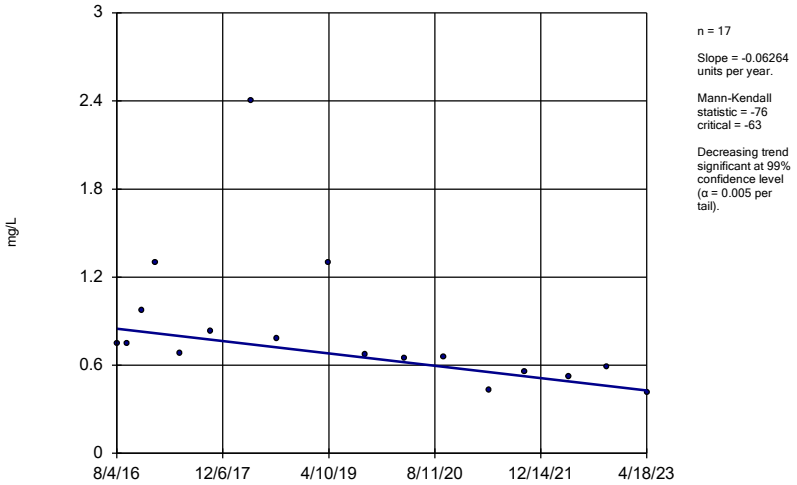
MW-12



Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-12A



n = 17

Slope = -0.06264 units per year.

Mann-Kendall statistic = -76
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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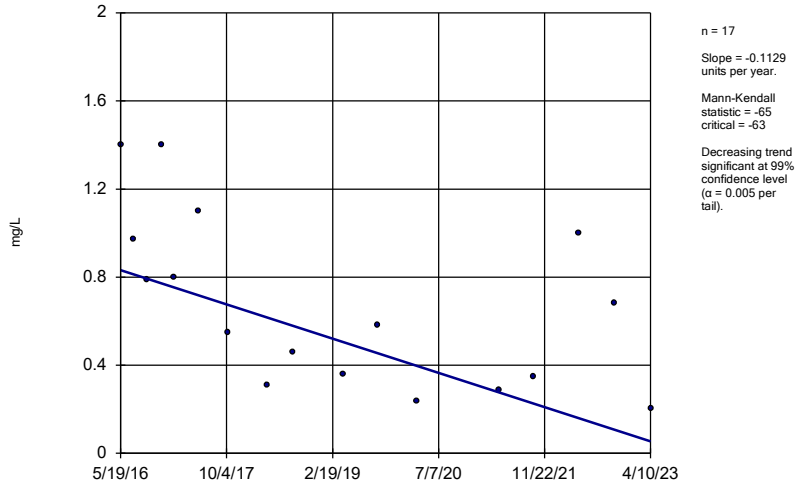
Sen's Slope Estimator

MW-13



n = 17

Slope = -0.1129 units per year.

Mann-Kendall statistic = -65
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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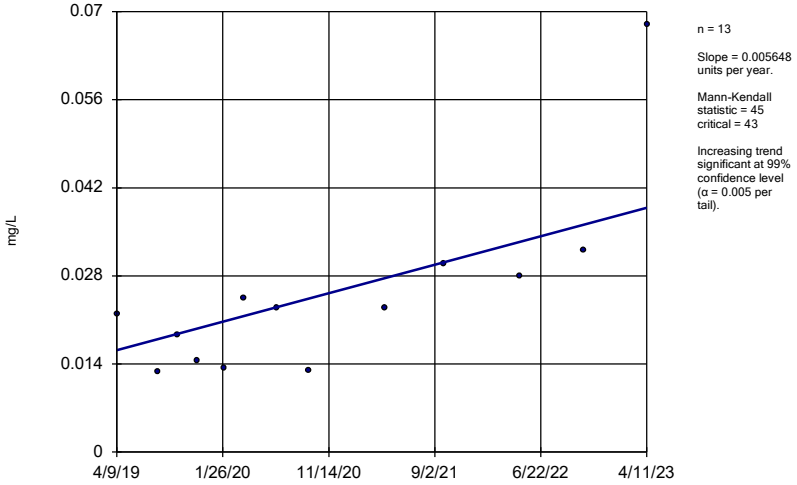
Sen's Slope Estimator

MW-13A



n = 13

Slope = 0.005648 units per year.

Mann-Kendall statistic = 45
critical = 43

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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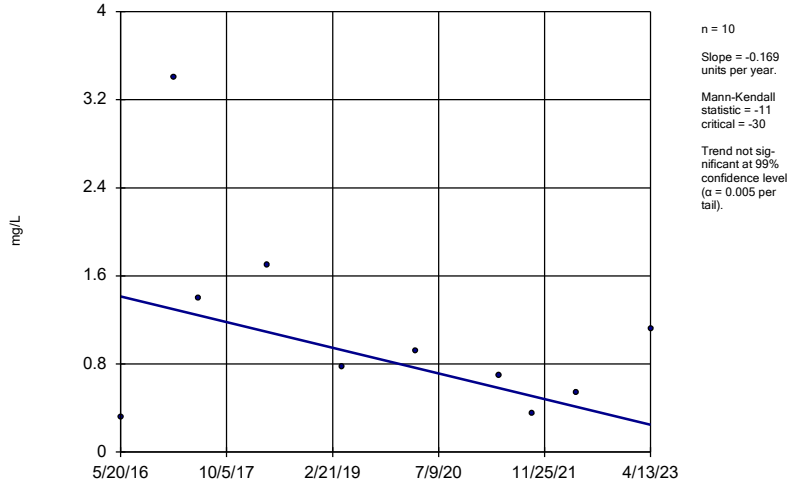
Sen's Slope Estimator

MW-14



n = 10

Slope = -0.169 units per year.

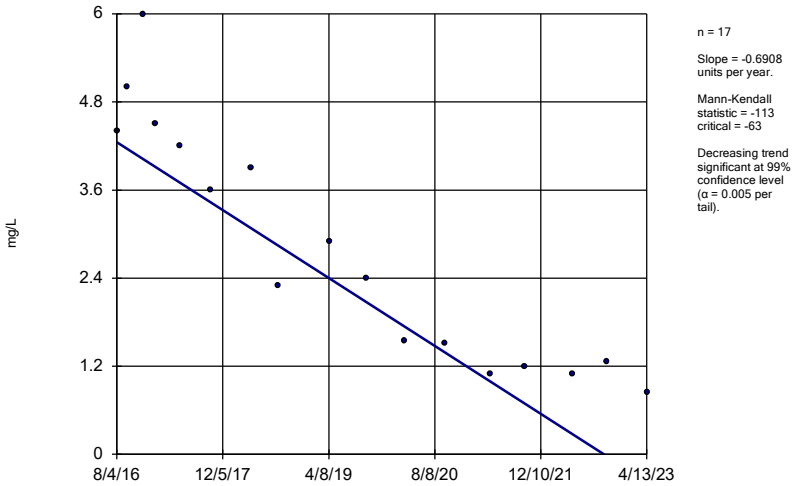
Mann-Kendall statistic = -11
critical = -30

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-14A



n = 17

Slope = -0.6908 units per year.

Mann-Kendall statistic = -113
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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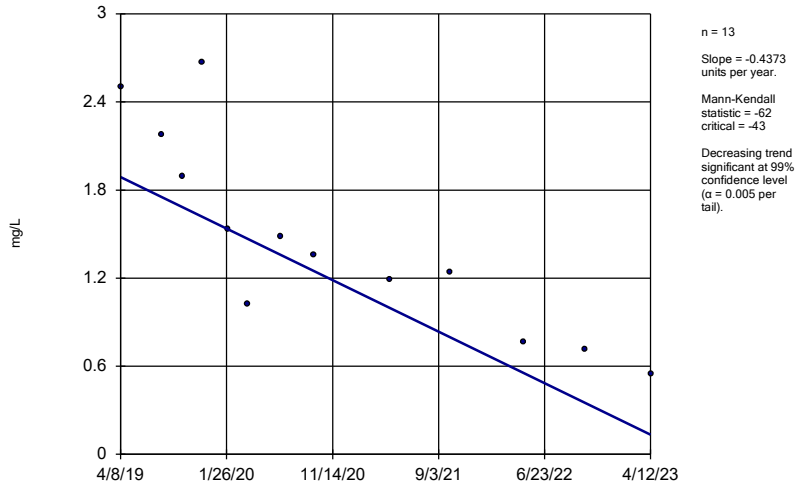
Sen's Slope Estimator

MW-16



n = 13

Slope = -0.4373 units per year.

Mann-Kendall statistic = -62
critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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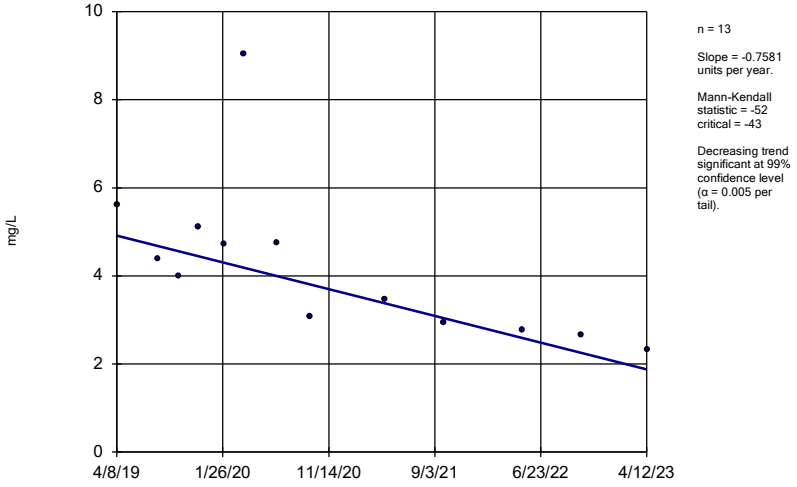
Sen's Slope Estimator

MW-17



n = 13

Slope = -0.7581 units per year.

Mann-Kendall statistic = -52
critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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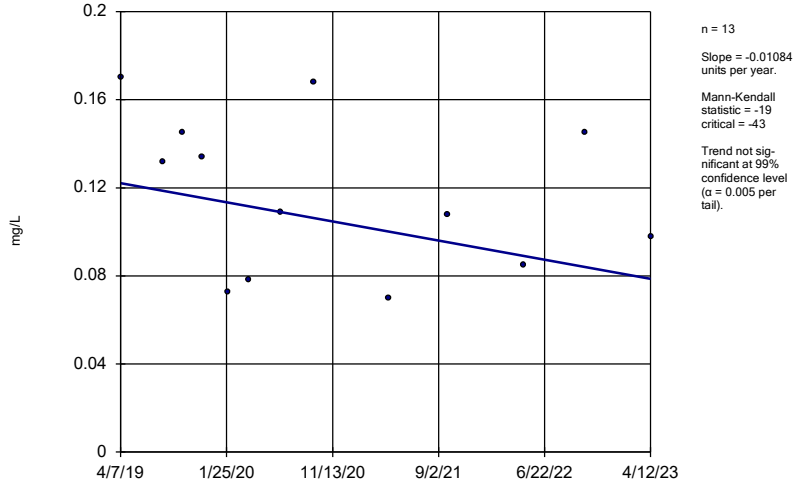
Sen's Slope Estimator

MW-18



n = 13

Slope = -0.01084 units per year.

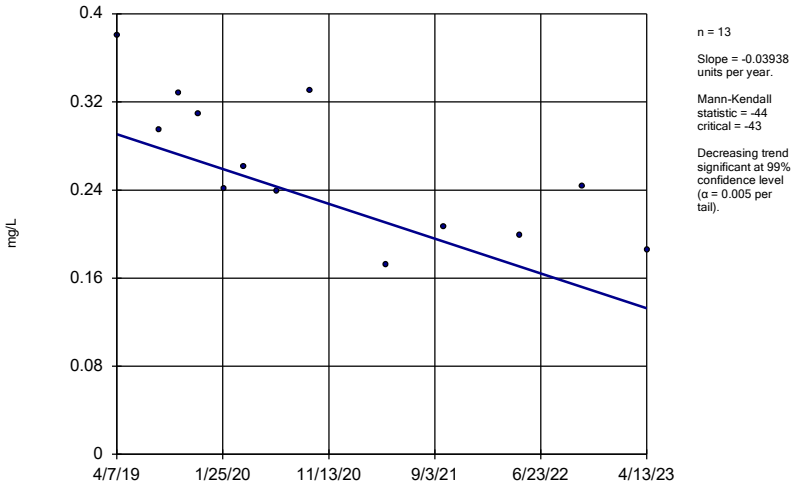
Mann-Kendall statistic = -19
critical = -43

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-19



n = 13

Slope = -0.03938 units per year.

Mann-Kendall statistic = -44
critical = -43

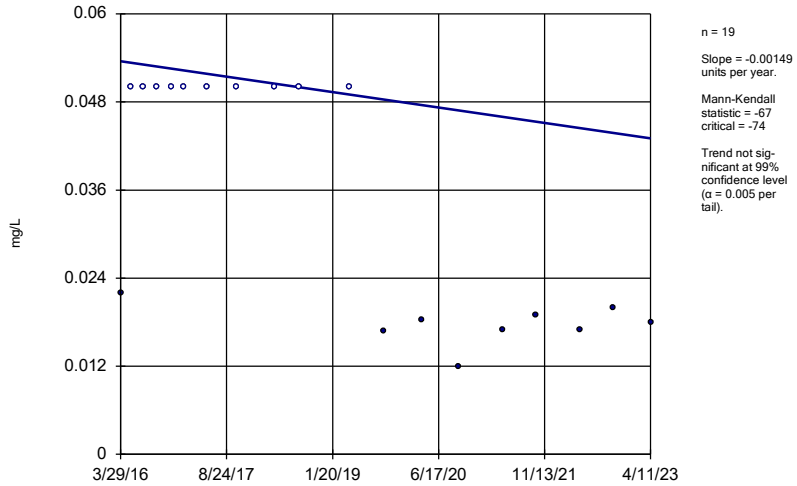
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-2 (bg)



n = 19

Slope = -0.00149 units per year.

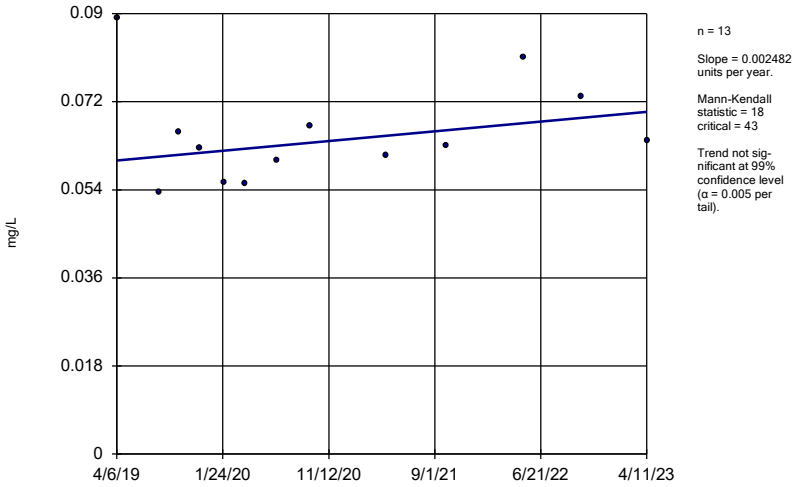
Mann-Kendall statistic = -67
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-20



n = 13

Slope = 0.002482 units per year.

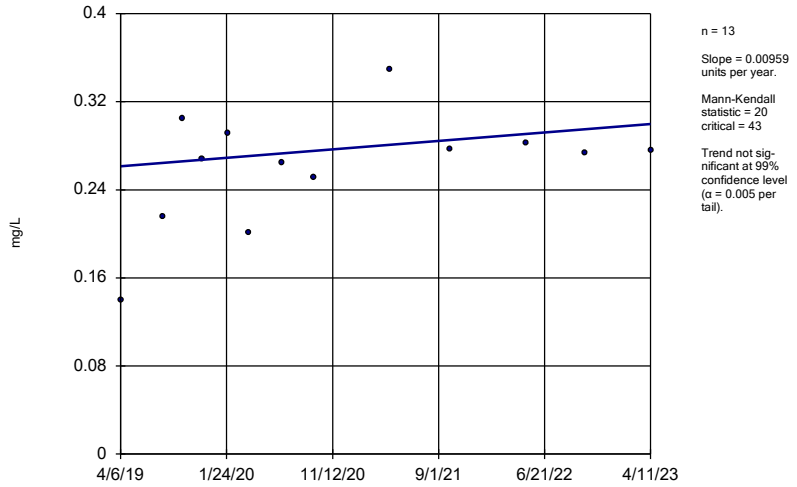
Mann-Kendall statistic = 18
critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-21



n = 13

Slope = 0.00959 units per year.

Mann-Kendall statistic = 20
critical = 43

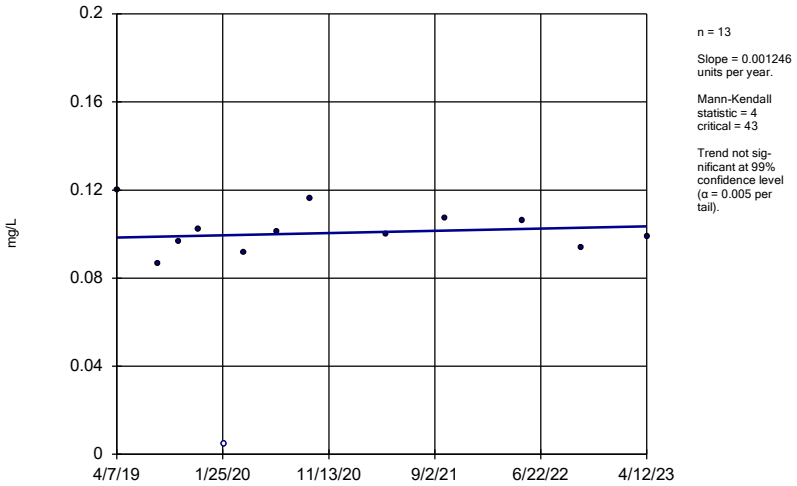
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-22



Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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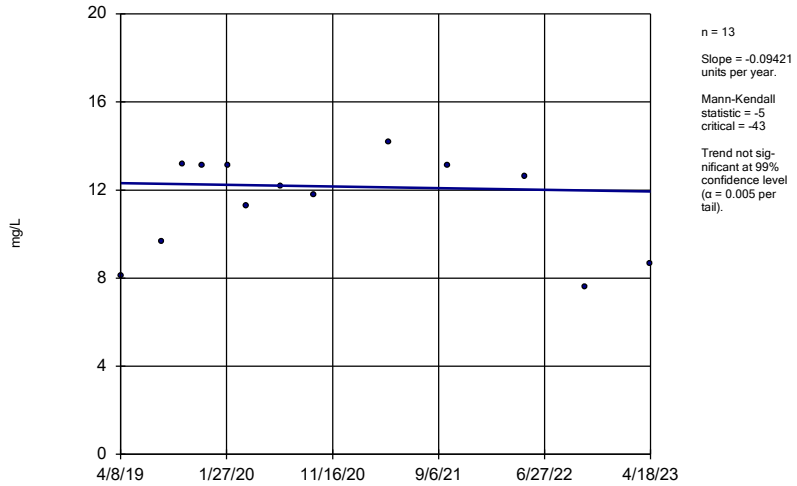
Sen's Slope Estimator

MW-23



Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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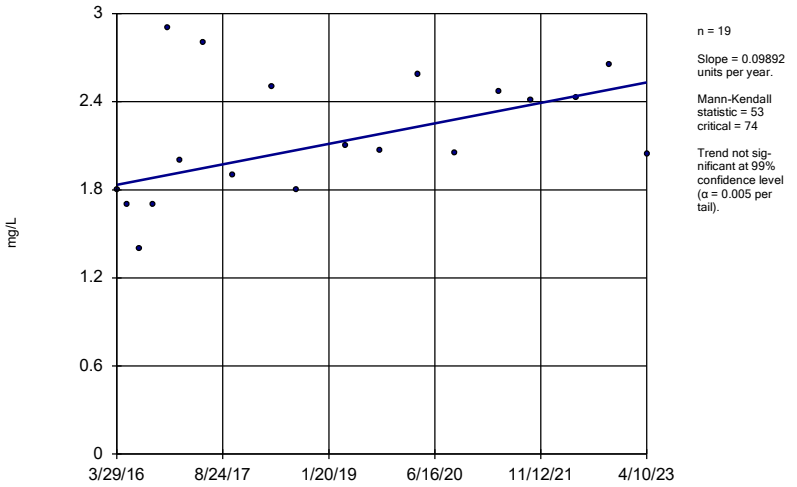
Sen's Slope Estimator

MW-4



Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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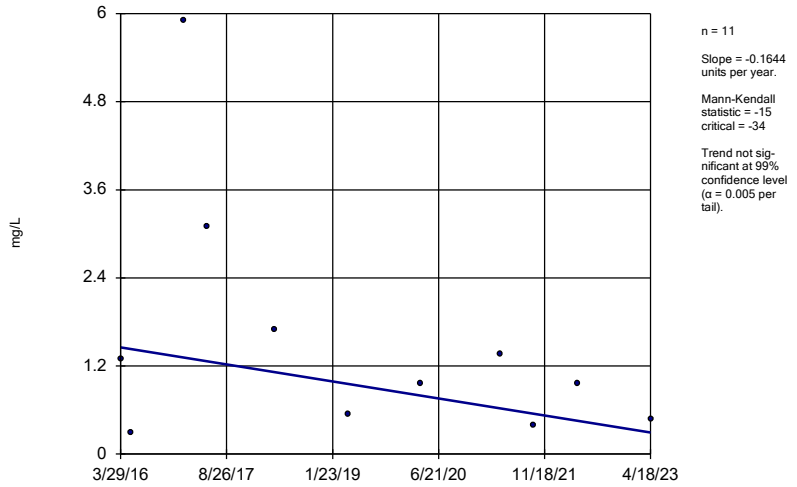
Sen's Slope Estimator

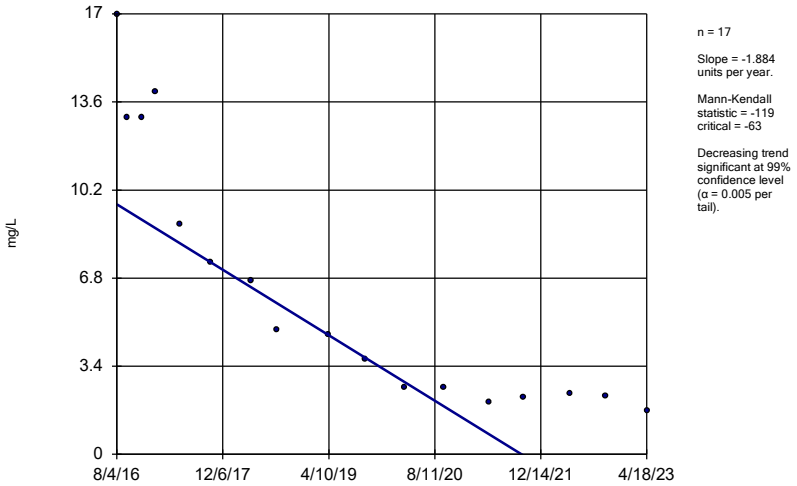
MW-5



Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-5A



n = 17

Slope = -1.884 units per year.

Mann-Kendall statistic = -119
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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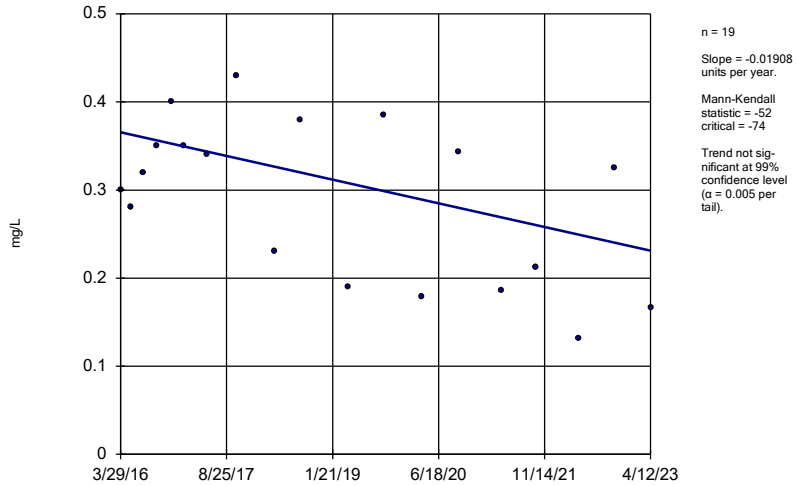
Sen's Slope Estimator

MW-6



n = 19

Slope = -0.01908 units per year.

Mann-Kendall statistic = -52
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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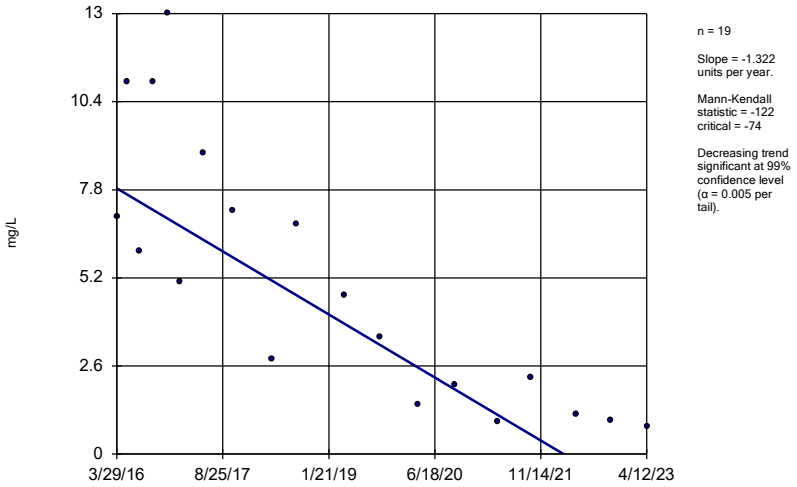
Sen's Slope Estimator

MW-7



n = 19

Slope = -1.322 units per year.

Mann-Kendall statistic = -122
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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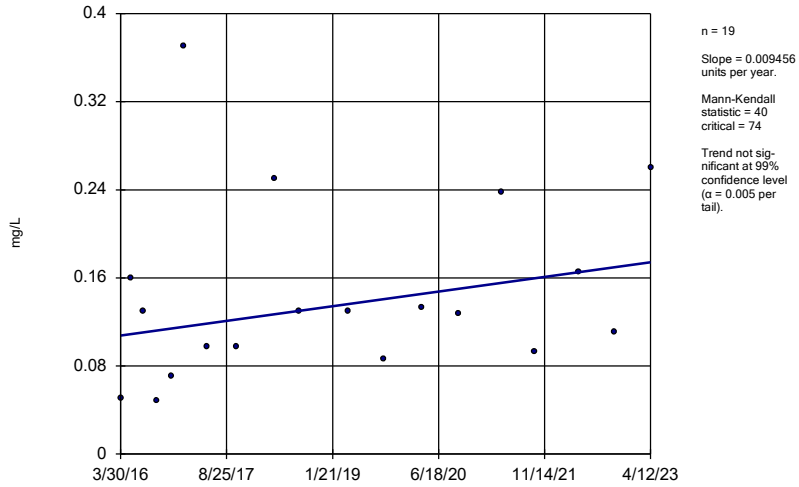
Sen's Slope Estimator

MW-8



n = 19

Slope = 0.009456 units per year.

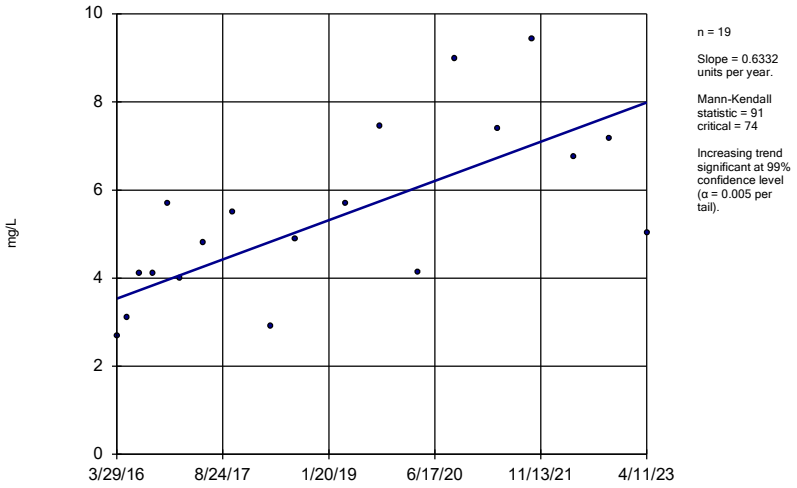
Mann-Kendall statistic = 40
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-9



n = 19

Slope = 0.6332 units per year.

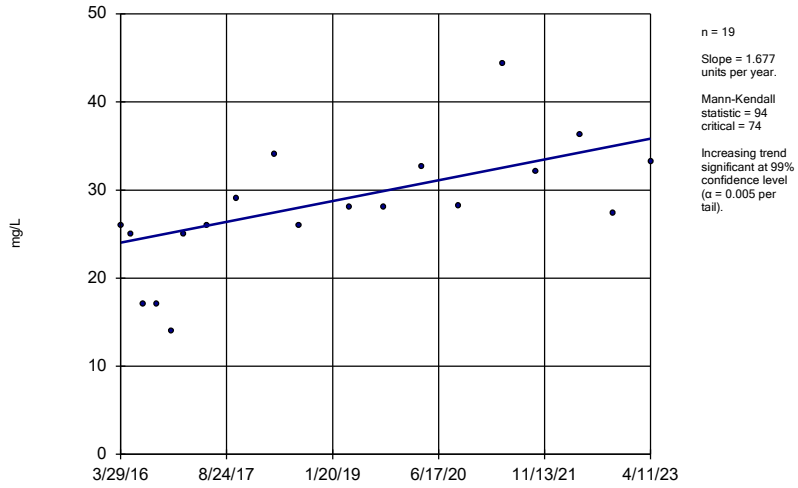
Mann-Kendall statistic = 91
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-1 (bg)



n = 19

Slope = 1.677 units per year.

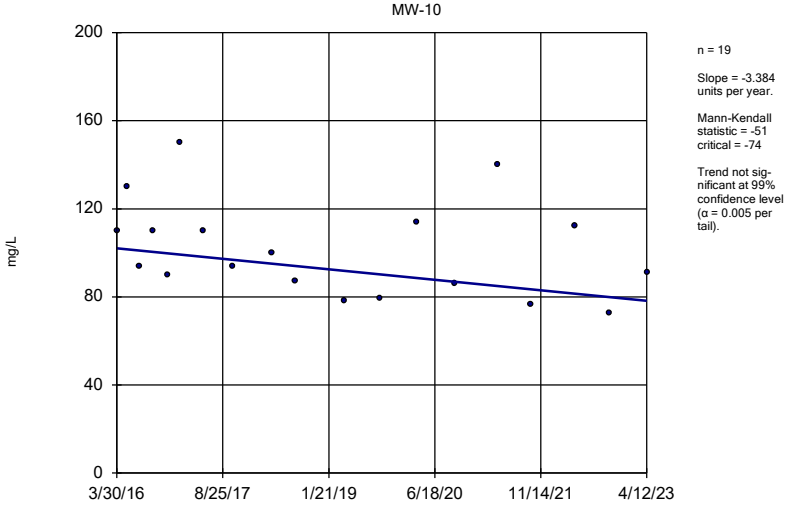
Mann-Kendall statistic = 94
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-10



n = 19

Slope = -3.384 units per year.

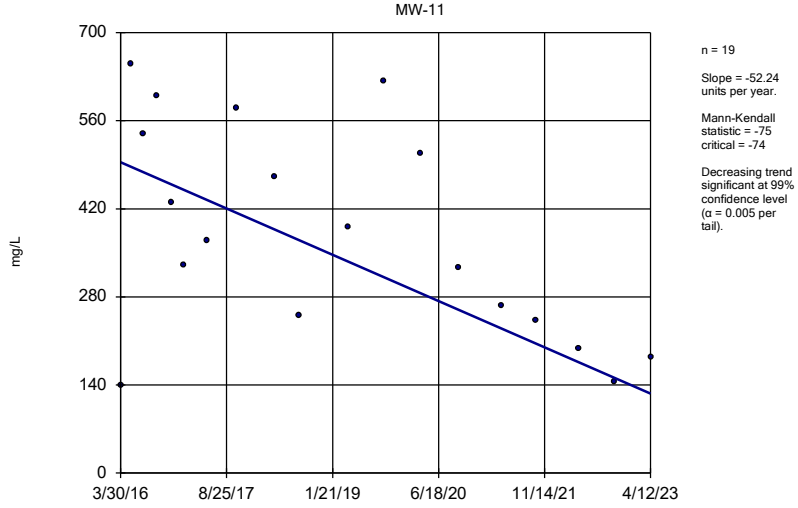
Mann-Kendall statistic = -51
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-11



n = 19

Slope = -52.24 units per year.

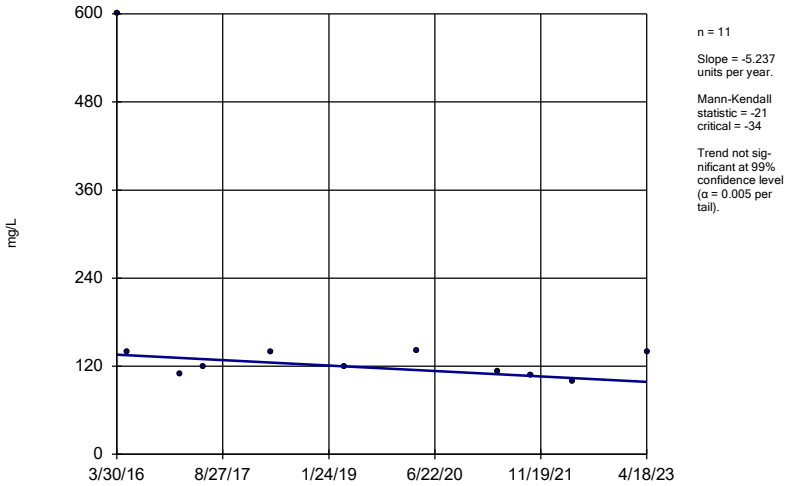
Mann-Kendall statistic = -75
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-12



n = 11

Slope = -5.237 units per year.

Mann-Kendall statistic = -21
critical = -34

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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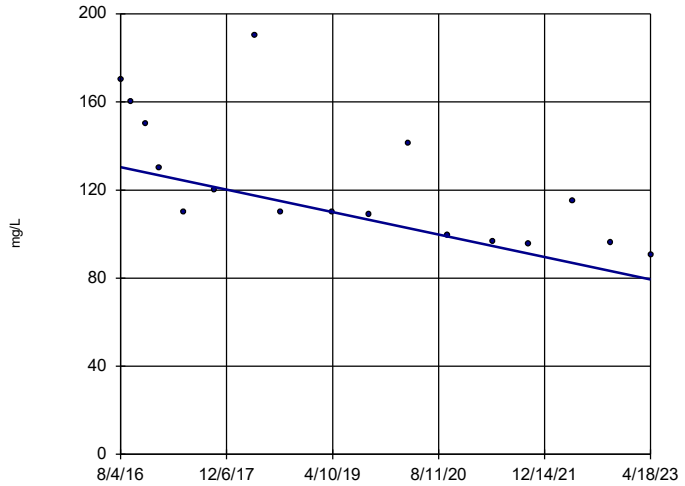
Sen's Slope Estimator

MW-12A



n = 17

Slope = -7.594 units per year.

Mann-Kendall statistic = -91
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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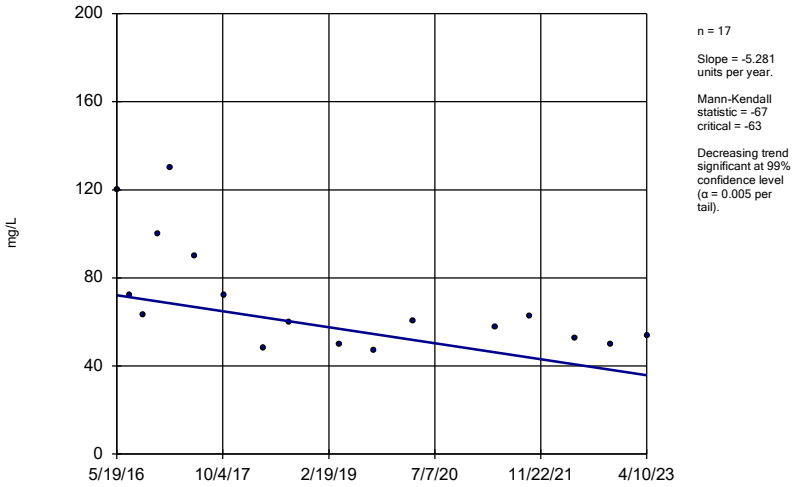
Sen's Slope Estimator

MW-13



n = 17

Slope = -5.281 units per year.

Mann-Kendall statistic = -67
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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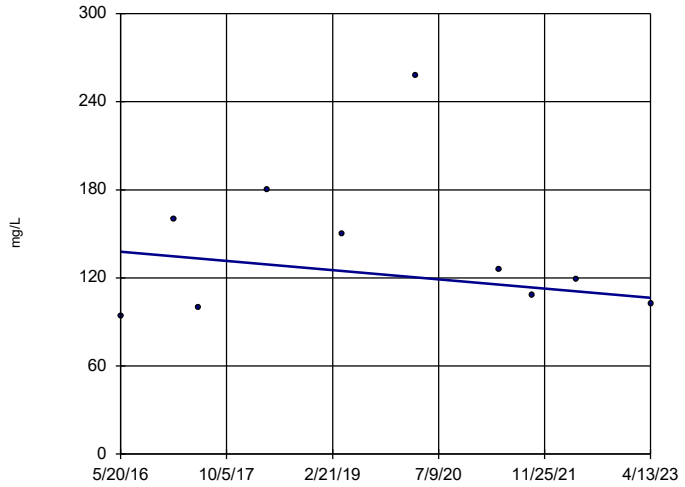
Sen's Slope Estimator

MW-14



n = 10

Slope = -4.568 units per year.

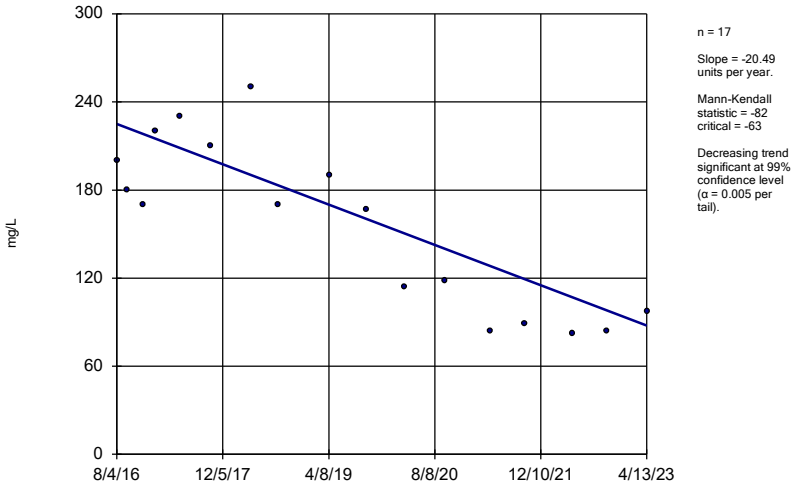
Mann-Kendall statistic = -3
critical = -30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-14A



n = 17

Slope = -20.49 units per year.

Mann-Kendall statistic = -82 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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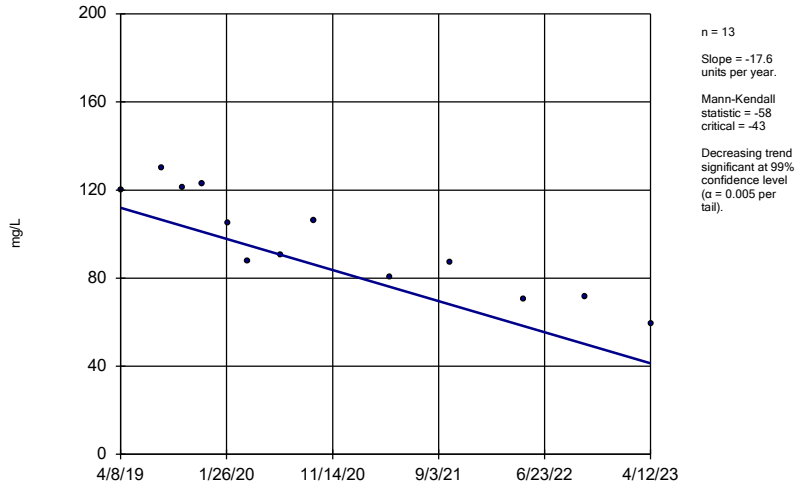
Sen's Slope Estimator

MW-16



n = 13

Slope = -17.6 units per year.

Mann-Kendall statistic = -58 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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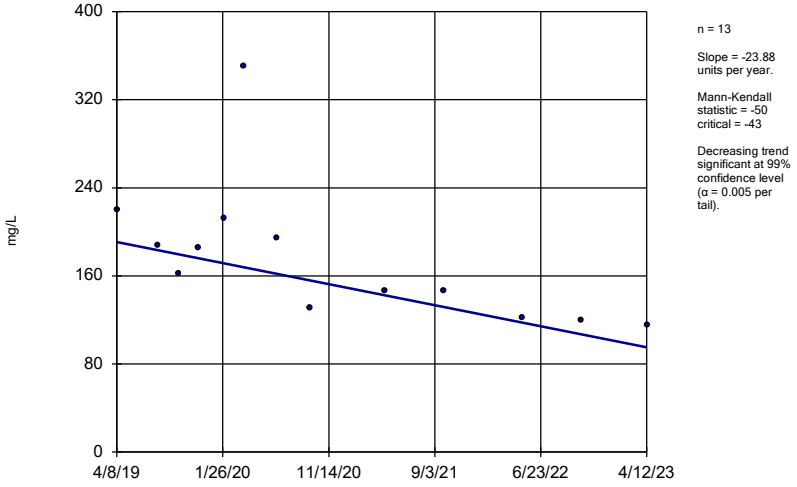
Sen's Slope Estimator

MW-17



n = 13

Slope = -23.88 units per year.

Mann-Kendall statistic = -50 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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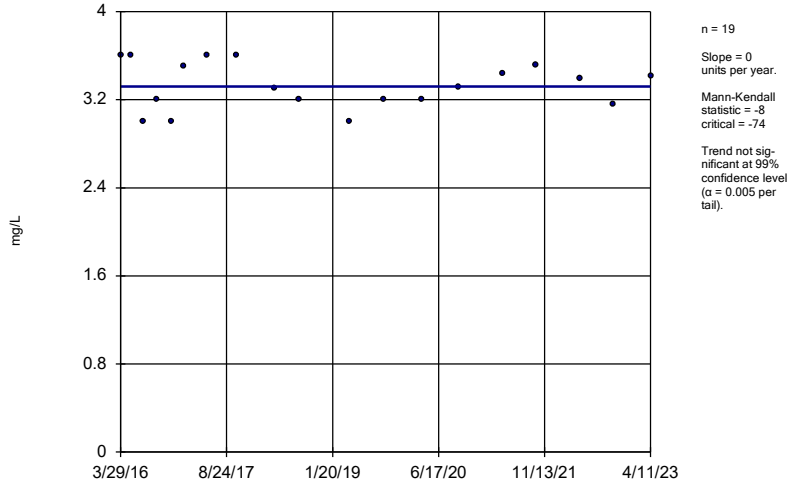
Sen's Slope Estimator

MW-2 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -8 critical = -74

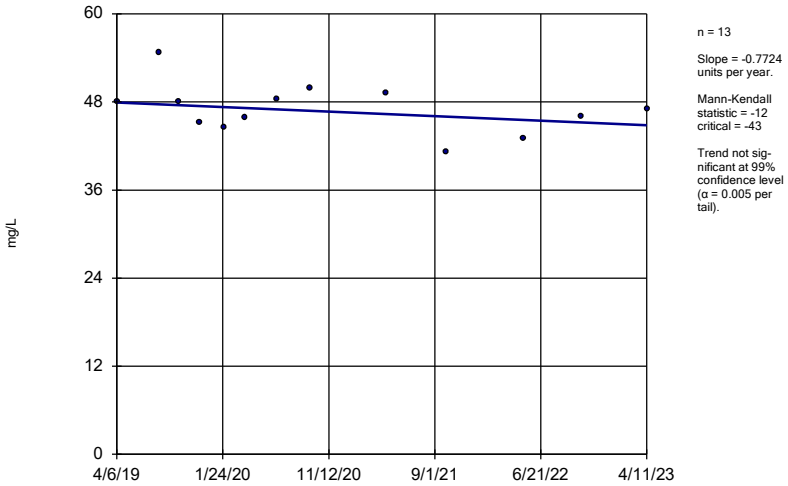
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-20



Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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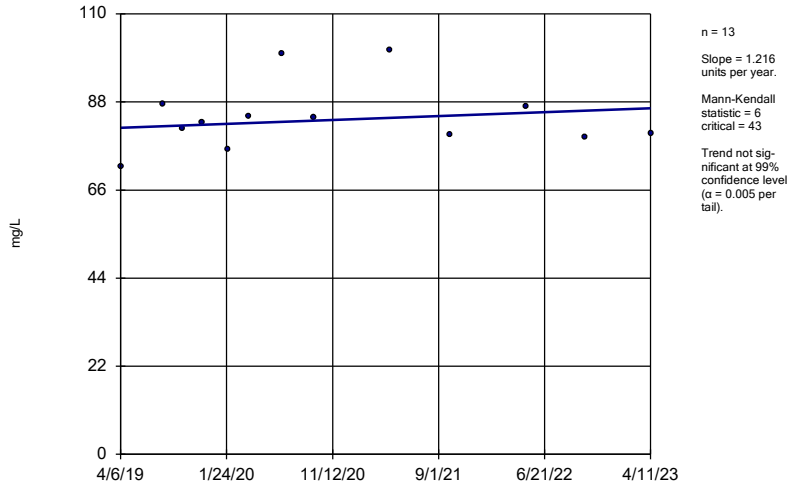
Sen's Slope Estimator

MW-21



Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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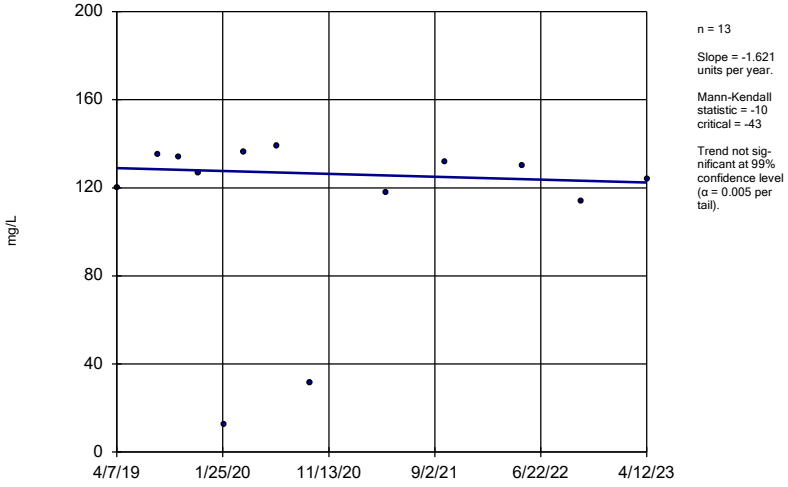
Sen's Slope Estimator

MW-22



Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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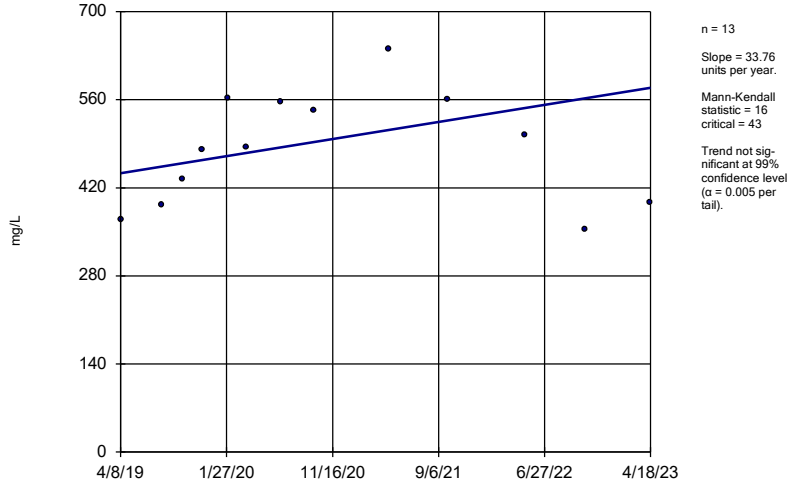
Sen's Slope Estimator

MW-23

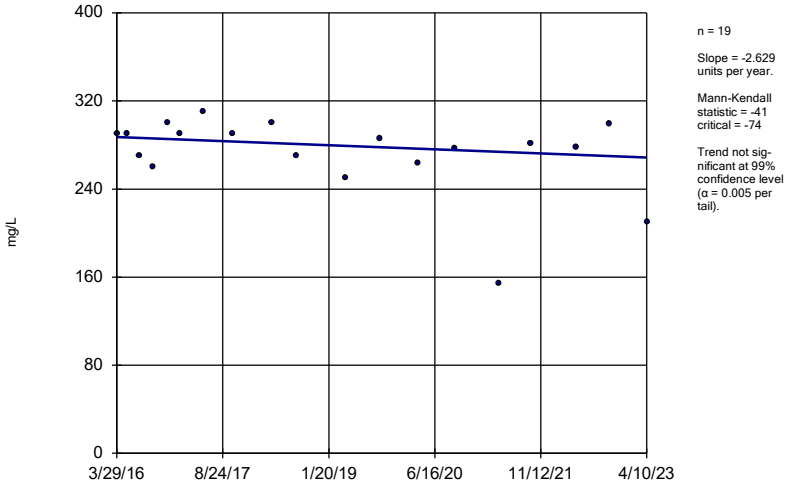


Constituent: Calcium, total Analysis Run 6/7/2023 2:39 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-4



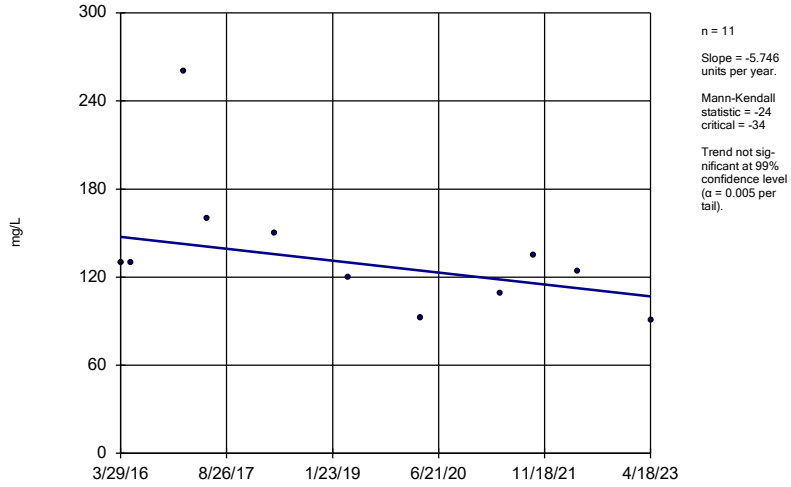
Constituent: Calcium, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-5



Constituent: Calcium, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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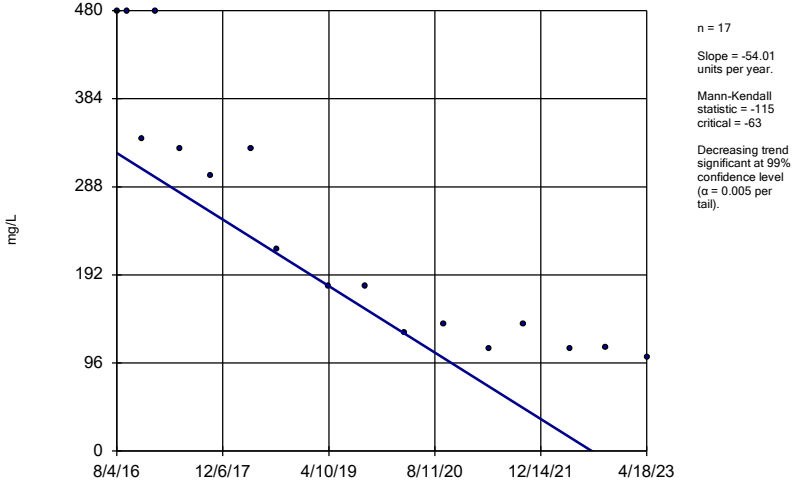
Sen's Slope Estimator

MW-5A



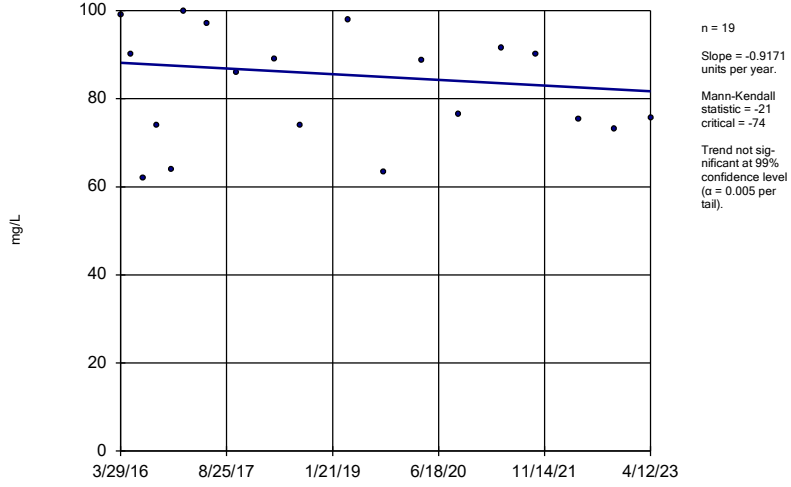
Constituent: Calcium, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-6

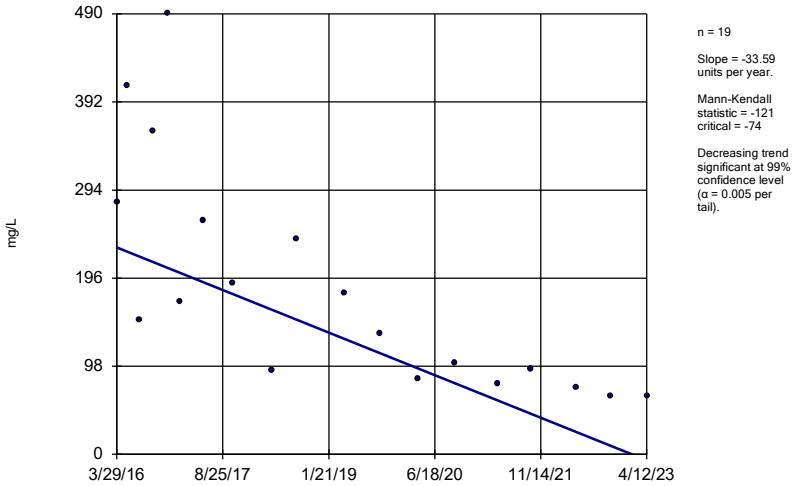


Constituent: Calcium, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-7



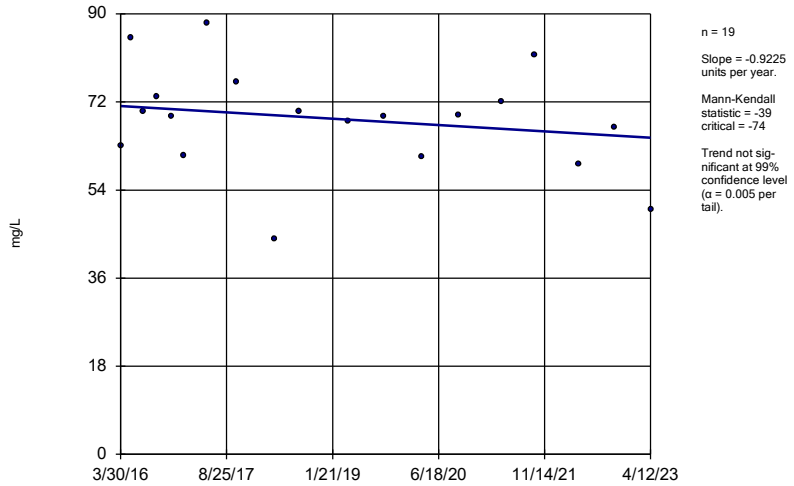
Constituent: Calcium, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-8



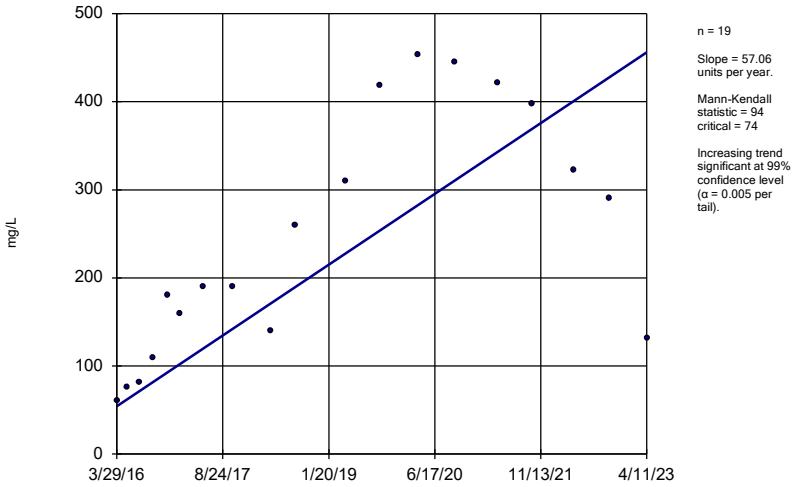
Constituent: Calcium, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-9



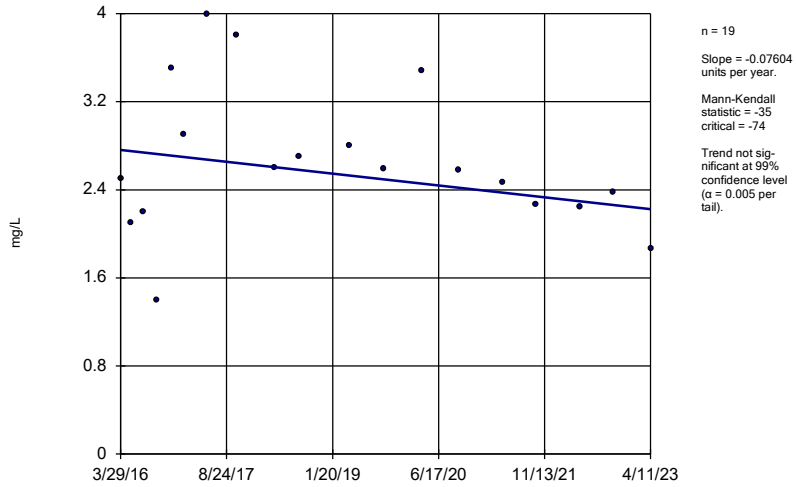
Constituent: Calcium, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-1 (bg)

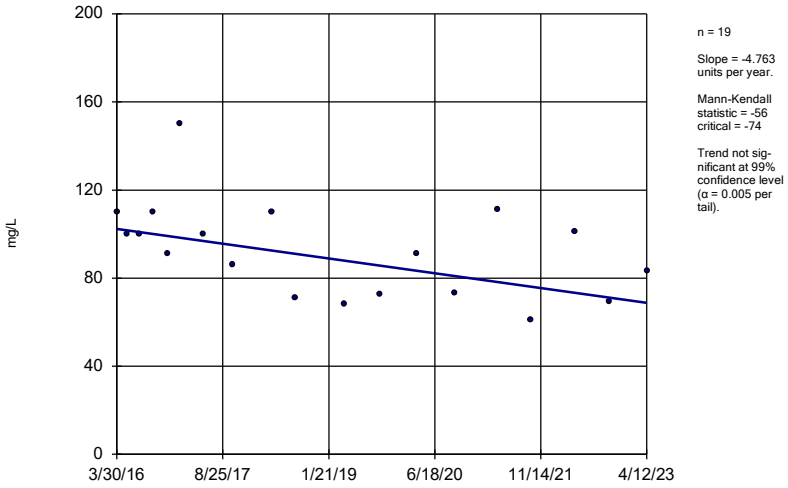


Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-10



n = 19

Slope = -4.763 units per year.

Mann-Kendall statistic = -56 critical = -74

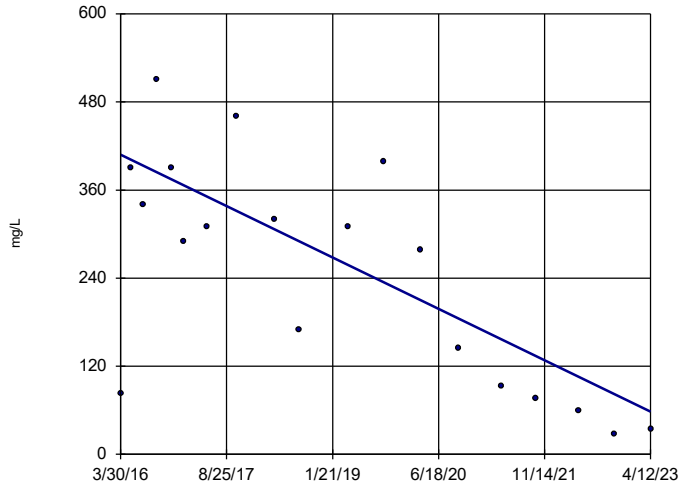
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-11



n = 19

Slope = -49.7 units per year.

Mann-Kendall statistic = -95 critical = -74

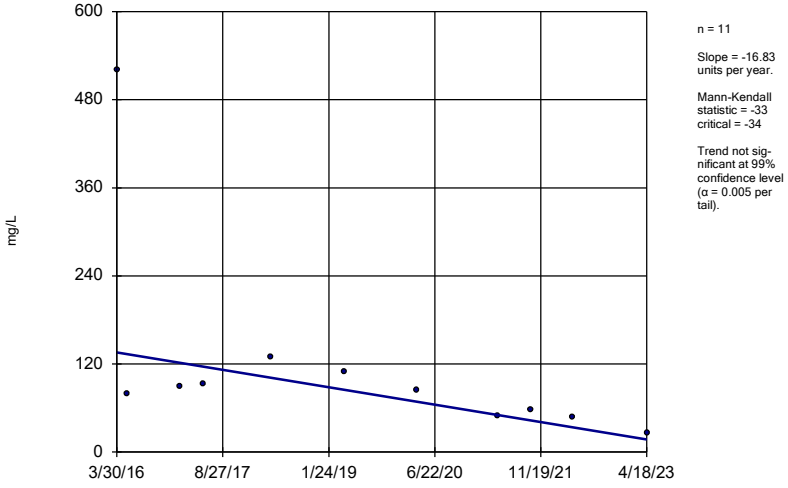
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-12



n = 11

Slope = -16.83 units per year.

Mann-Kendall statistic = -33 critical = -34

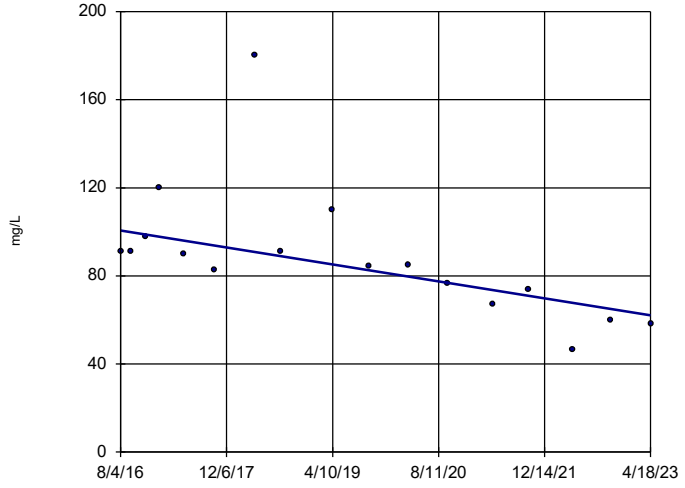
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-12A



n = 17

Slope = -5.747 units per year.

Mann-Kendall statistic = -83 critical = -63

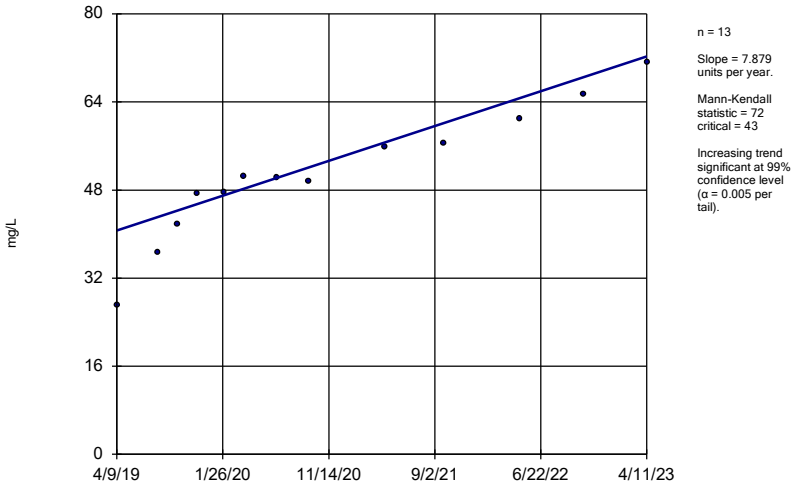
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-13A



n = 13

Slope = 7.879 units per year.

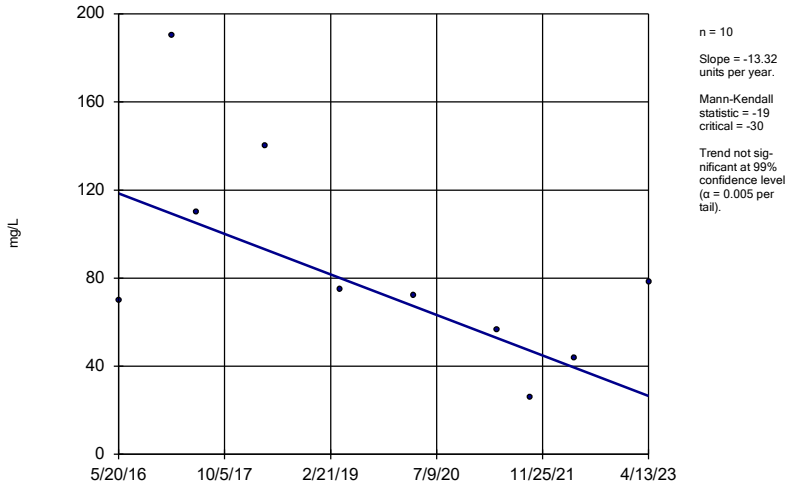
Mann-Kendall statistic = 72
critical = 43

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-14



n = 10

Slope = -13.32 units per year.

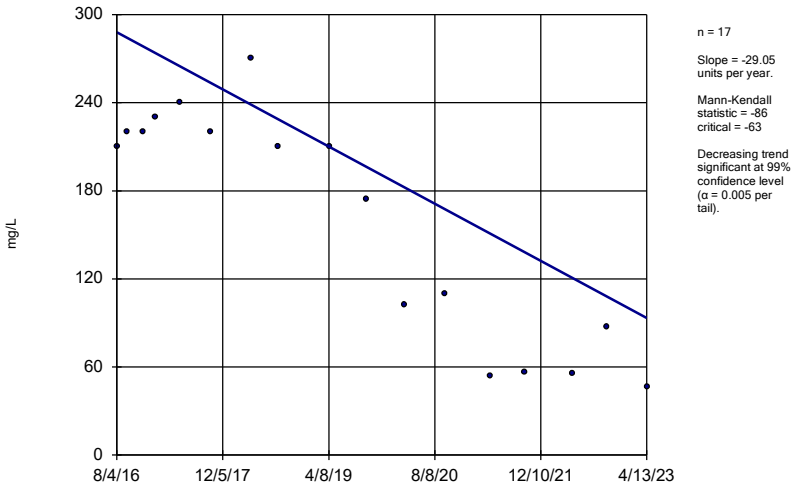
Mann-Kendall statistic = -19
critical = -30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-14A



n = 17

Slope = -29.05 units per year.

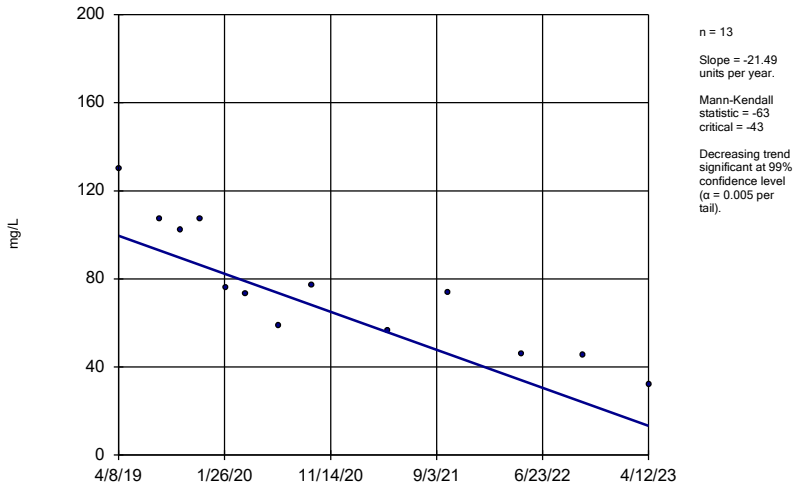
Mann-Kendall statistic = -86
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-16



n = 13

Slope = -21.49 units per year.

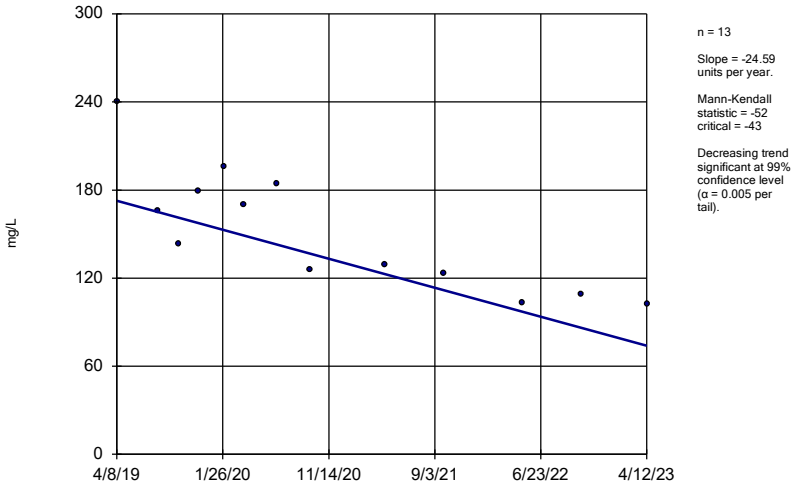
Mann-Kendall statistic = -63
critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-17



n = 13

Slope = -24.59 units per year.

Mann-Kendall statistic = -52 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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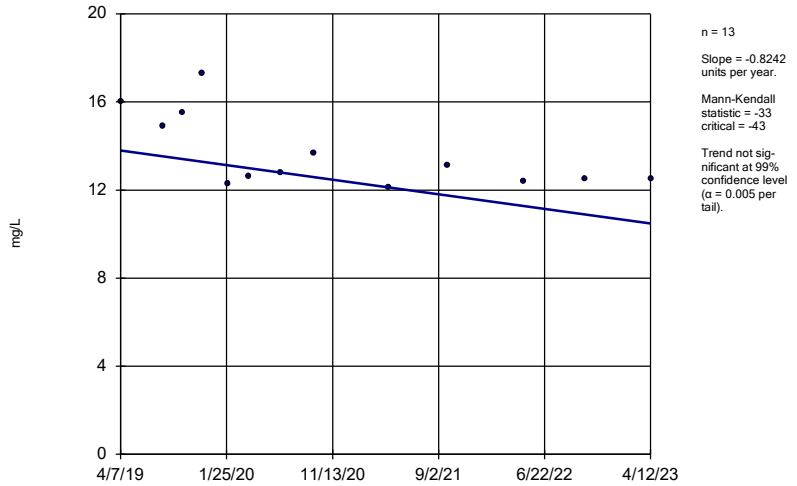
Sen's Slope Estimator

MW-18



n = 13

Slope = -0.8242 units per year.

Mann-Kendall statistic = -33 critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

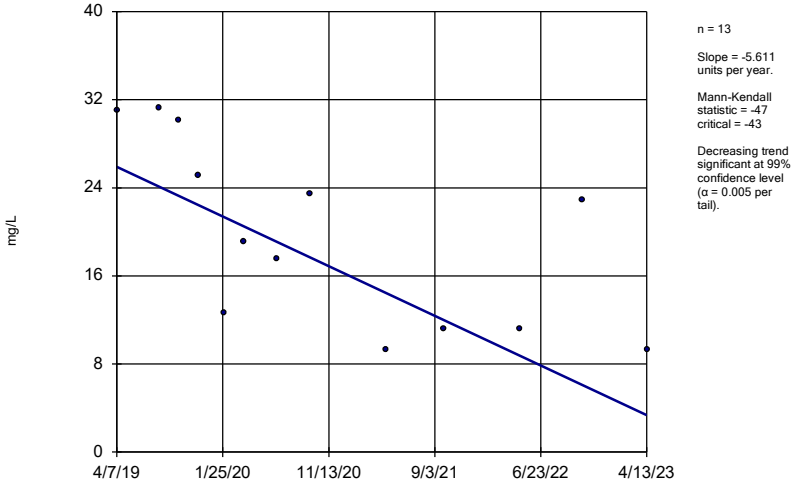
Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-19



n = 13

Slope = -5.611 units per year.

Mann-Kendall statistic = -47 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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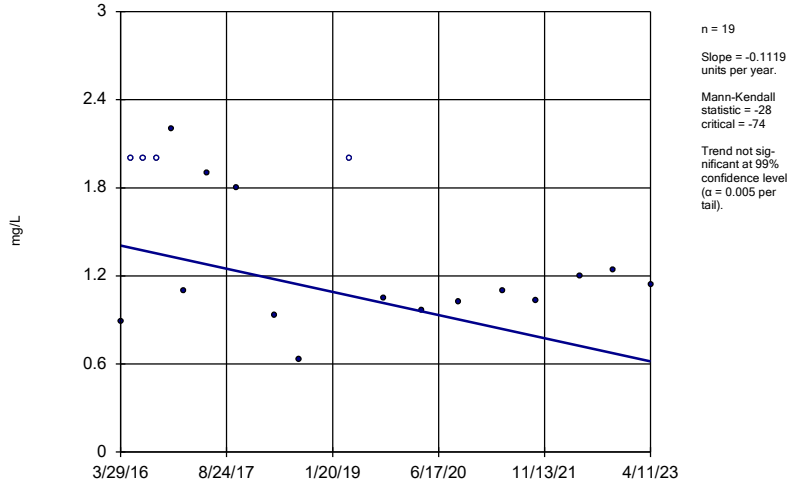
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-2 (bg)



n = 19

Slope = -0.1119 units per year.

Mann-Kendall statistic = -28 critical = -74

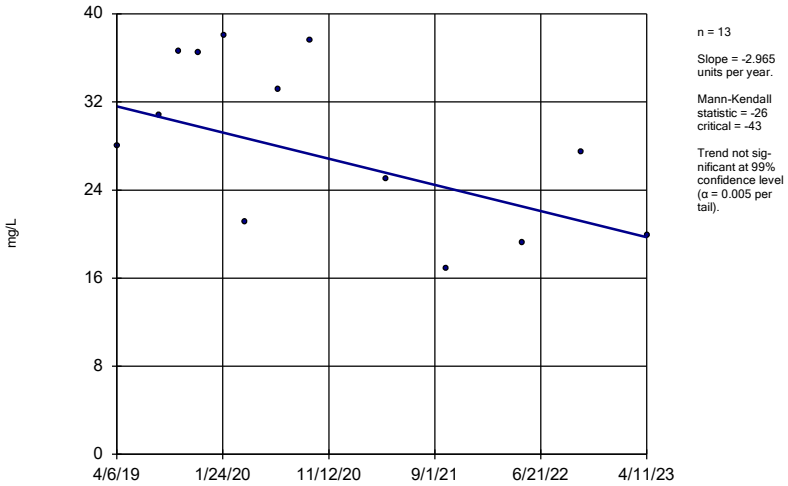
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-21



n = 13

Slope = -2.965 units per year.

Mann-Kendall statistic = -26 critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

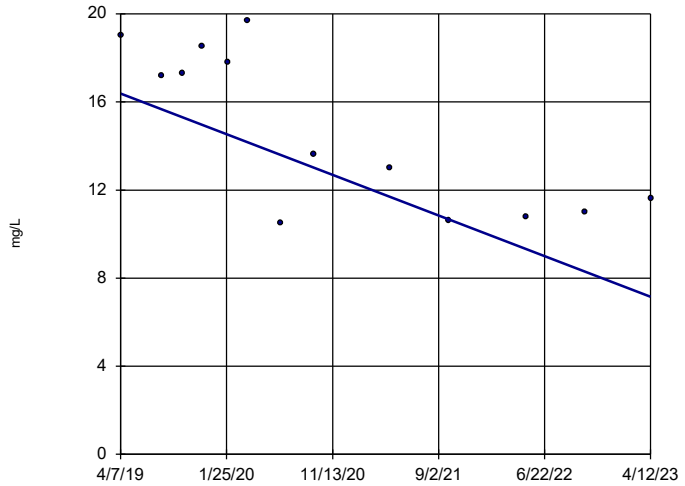
Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-22



n = 13

Slope = -2.297 units per year.

Mann-Kendall statistic = -34 critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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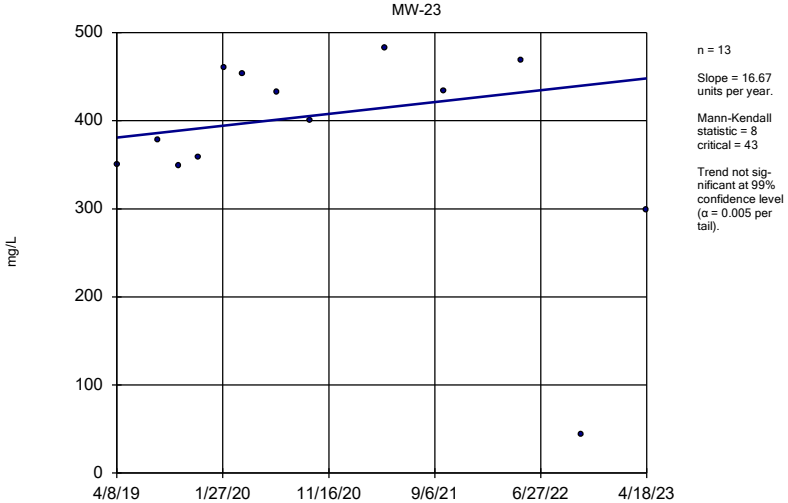
Sen's Slope Estimator

MW-23



n = 13

Slope = 16.67 units per year.

Mann-Kendall statistic = 8 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

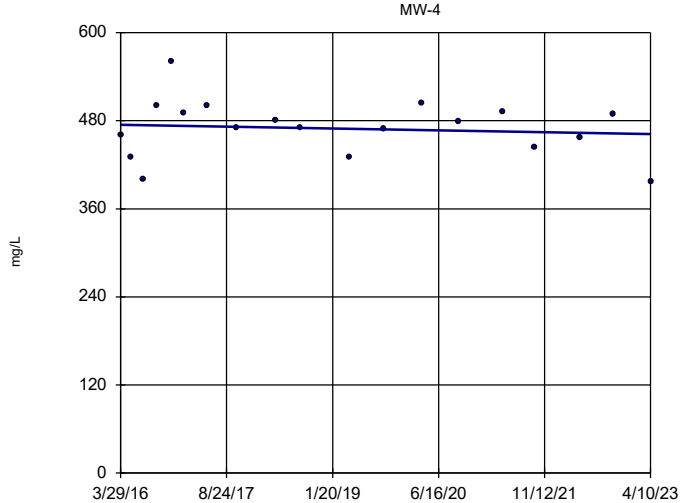
Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-4



n = 19

Slope = -1.788 units per year.

Mann-Kendall statistic = -18 critical = -74

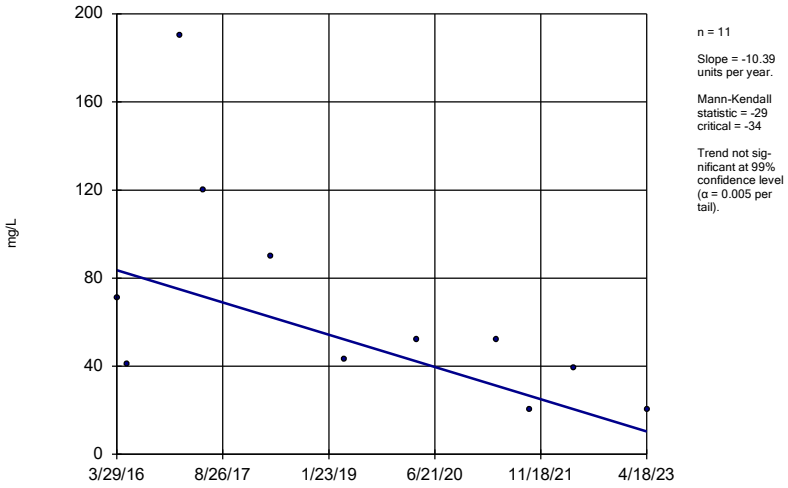
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-5



n = 11

Slope = -10.39 units per year.

Mann-Kendall statistic = -29 critical = -34

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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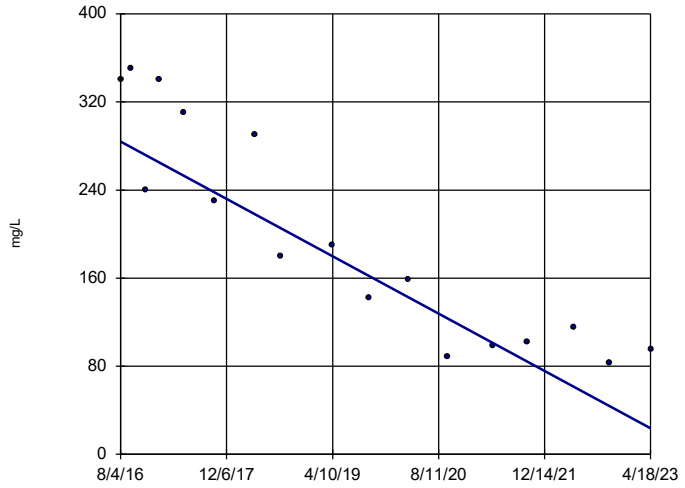
Sen's Slope Estimator

MW-5A



n = 17

Slope = -38.78 units per year.

Mann-Kendall statistic = -105 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

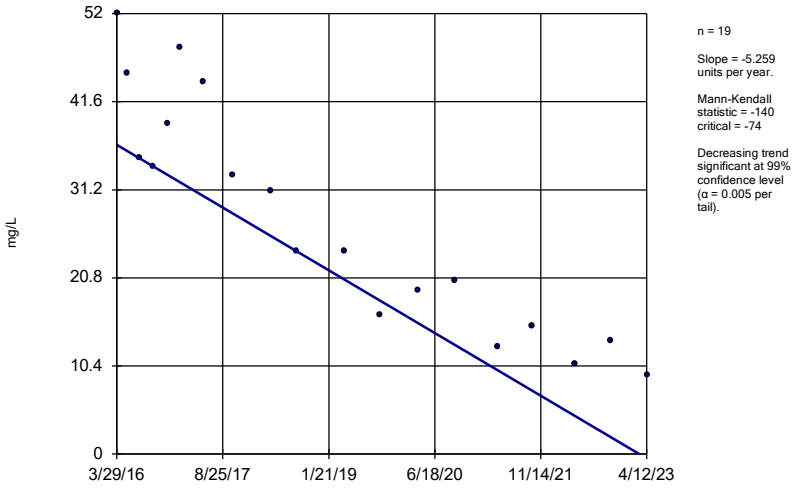
Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-6



n = 19

Slope = -5.259 units per year.

Mann-Kendall statistic = -140 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

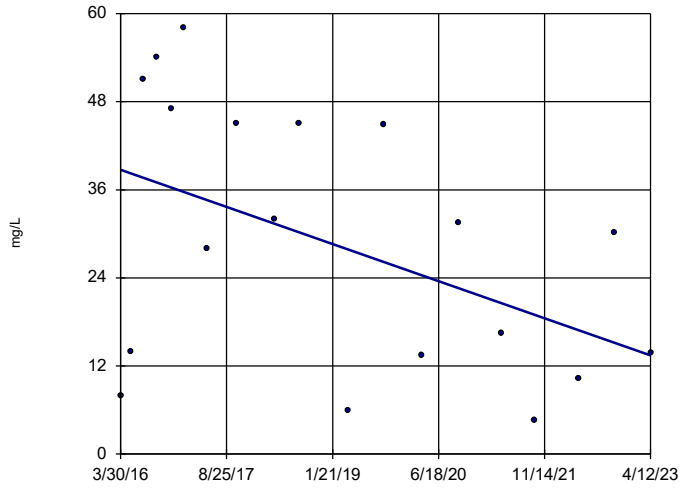
Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-8



n = 19

Slope = -3.591 units per year.

Mann-Kendall statistic = -56 critical = -74

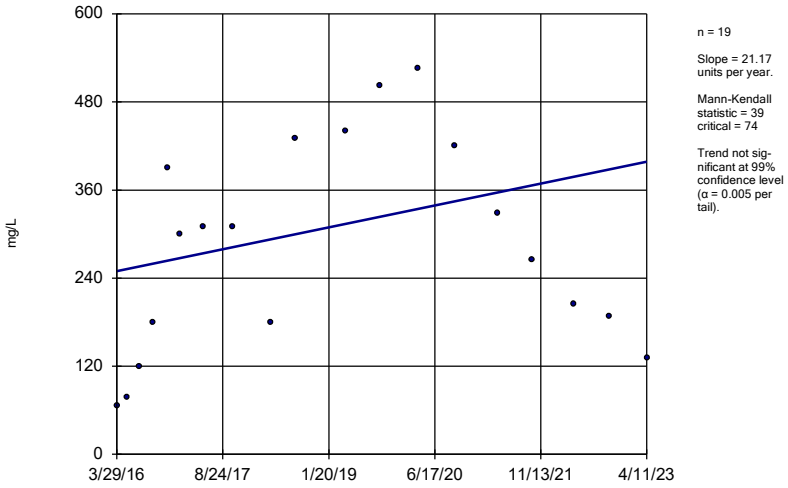
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-9



n = 19

Slope = 21.17 units per year.

Mann-Kendall statistic = 39
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

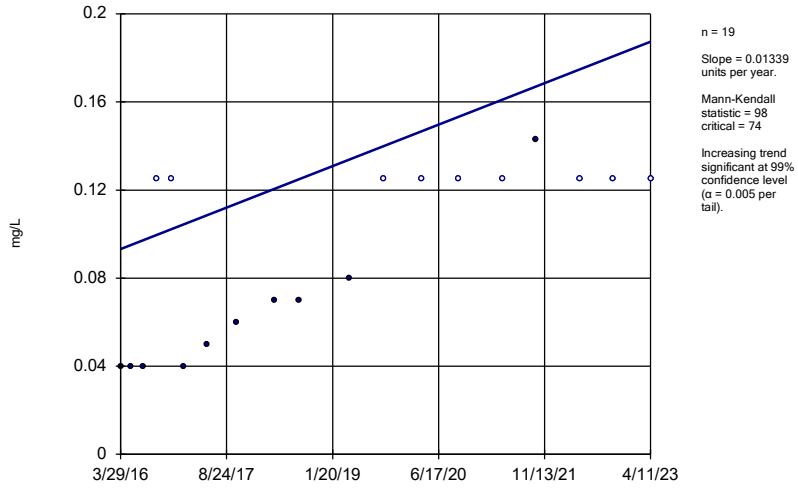
Constituent: Chloride, Total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-1 (bg)



n = 19

Slope = 0.01339 units per year.

Mann-Kendall statistic = 98
critical = 74

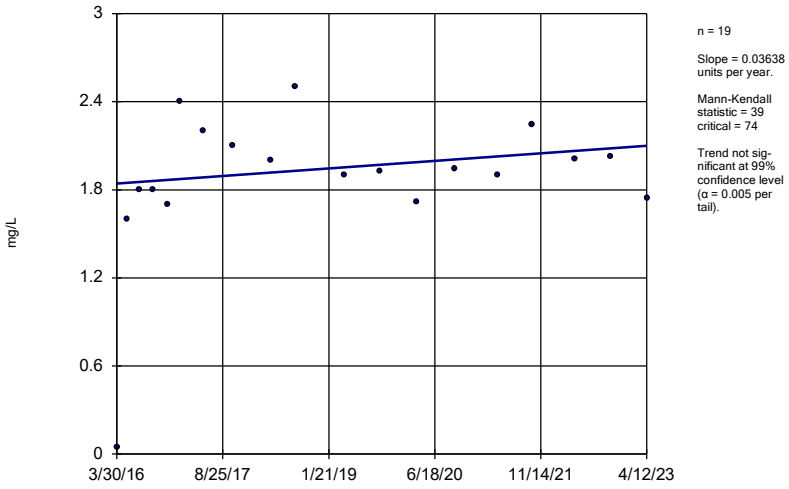
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-11



n = 19

Slope = 0.03638 units per year.

Mann-Kendall statistic = 39
critical = 74

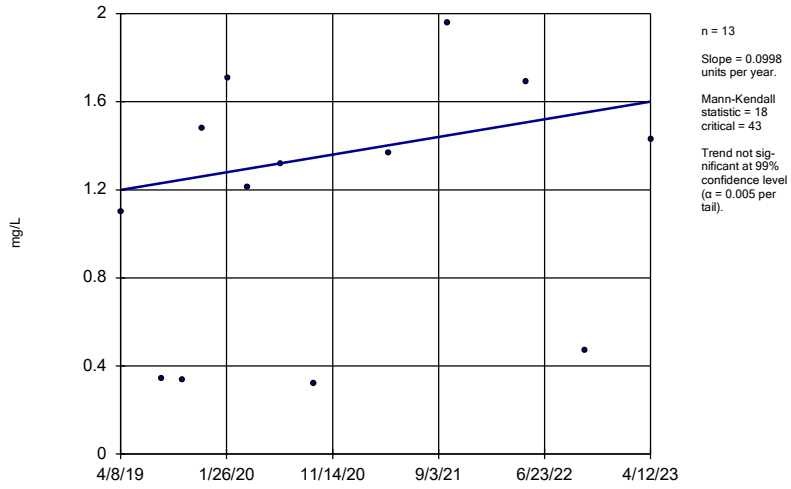
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-17



n = 13

Slope = 0.0998 units per year.

Mann-Kendall statistic = 18
critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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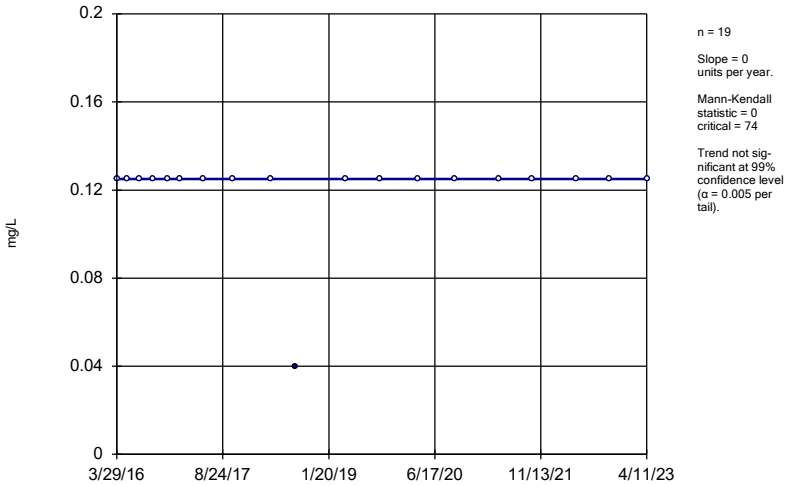
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-2 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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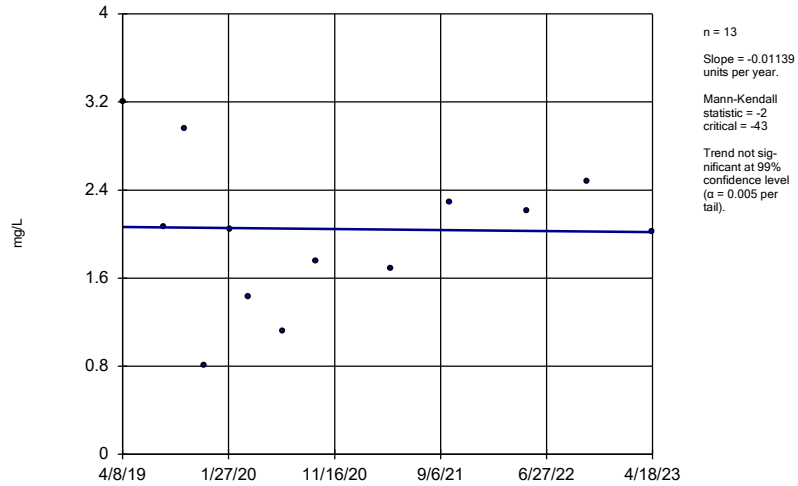
Sen's Slope Estimator

MW-23



n = 13

Slope = -0.01139 units per year.

Mann-Kendall statistic = -2
critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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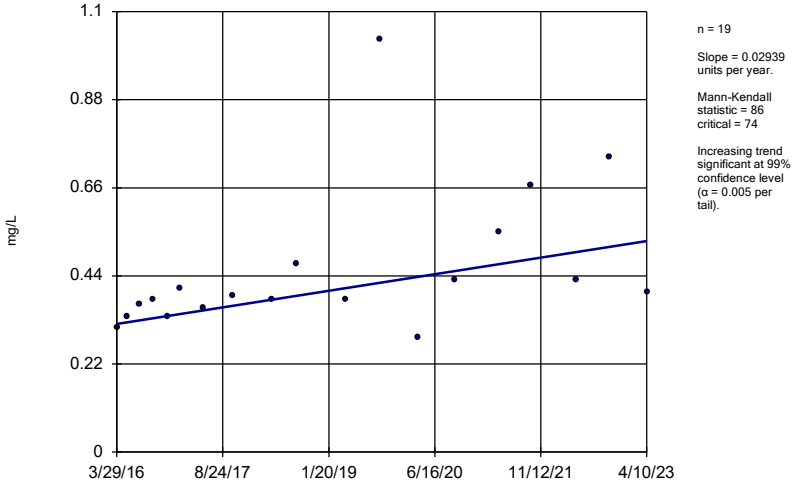
Sen's Slope Estimator

MW-4



n = 19

Slope = 0.02939 units per year.

Mann-Kendall statistic = 86
critical = 74

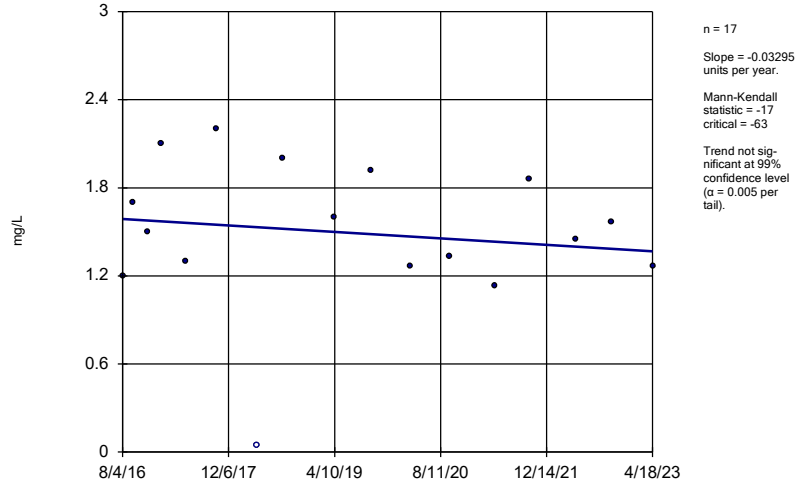
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5A



n = 17

Slope = -0.03295 units per year.

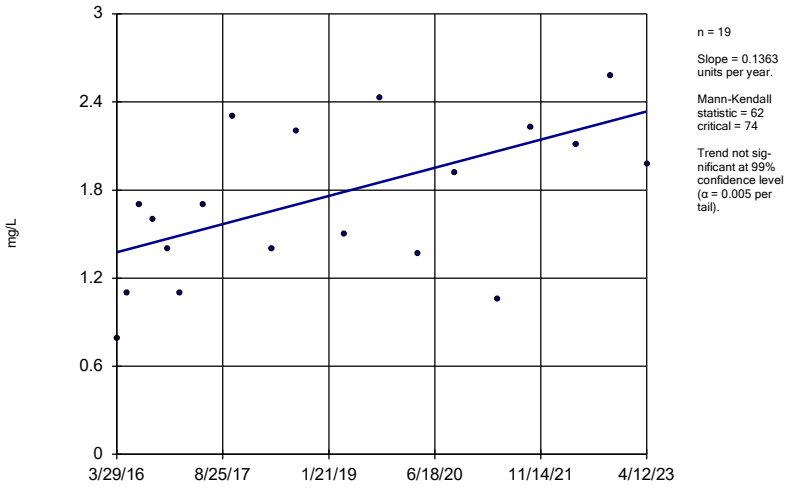
Mann-Kendall statistic = -17
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-7



n = 19

Slope = 0.1363 units per year.

Mann-Kendall statistic = 62
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

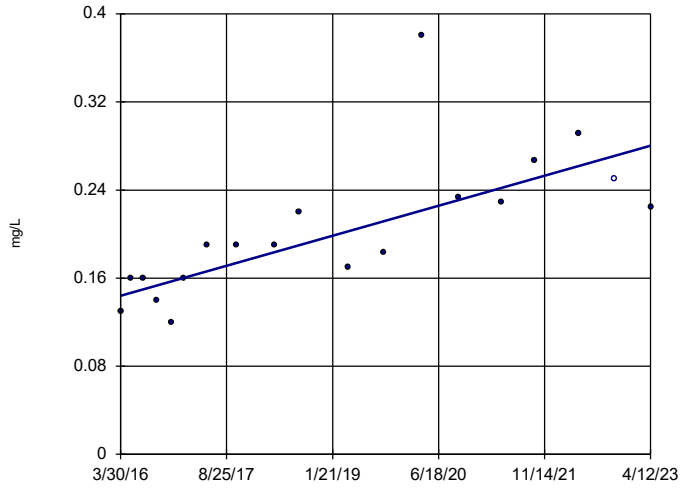
Constituent: Fluoride, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-8



n = 19

Slope = 0.01938 units per year.

Mann-Kendall statistic = 109
critical = 74

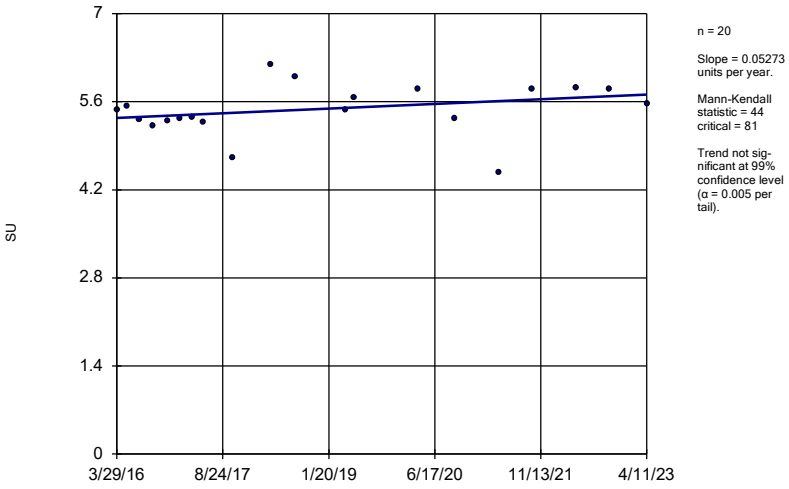
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride, total Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-1 (bg)



n = 20

Slope = 0.05273 units per year.

Mann-Kendall statistic = 44
critical = 81

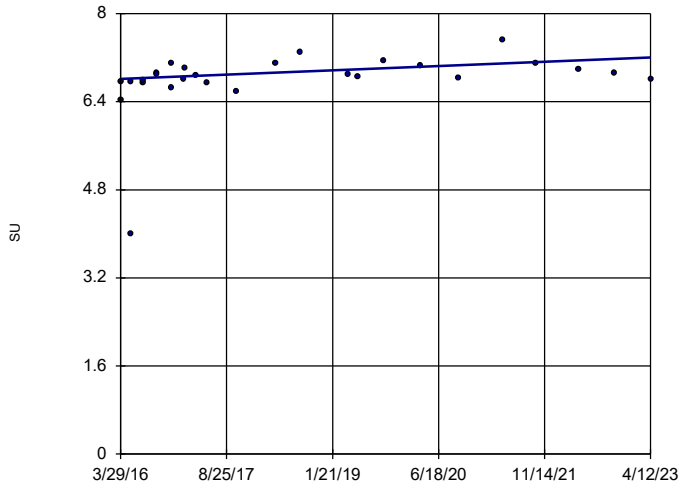
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-11



n = 27

Slope = 0.05508 units per year.

Mann-Kendall statistic = 126
critical = 124

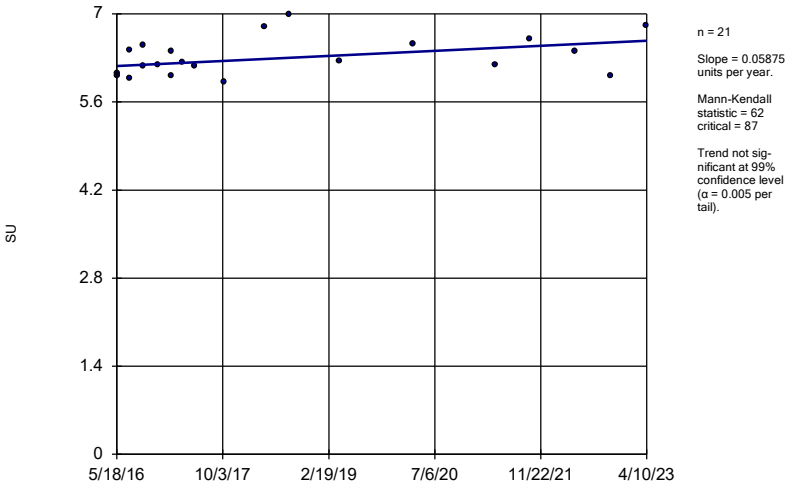
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-13



n = 21

Slope = 0.05875 units per year.

Mann-Kendall statistic = 62
critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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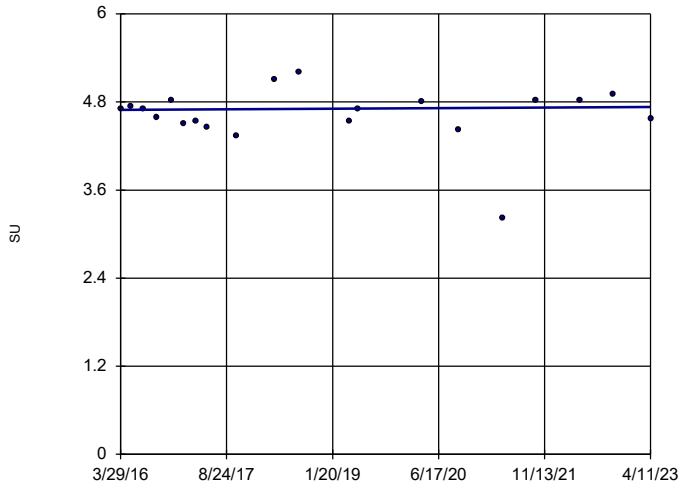
Sen's Slope Estimator

MW-2 (bg)



n = 20

Slope = 0.005783 units per year.

Mann-Kendall statistic = 9
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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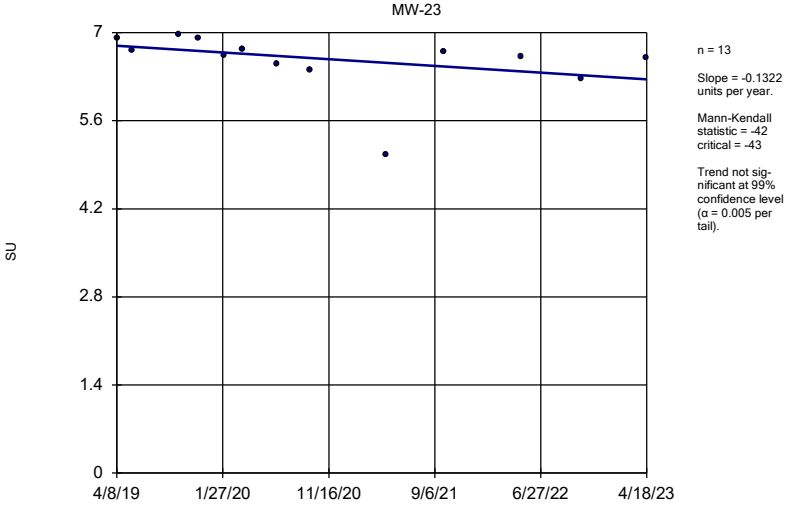
Sen's Slope Estimator

MW-23



n = 13

Slope = -0.1322 units per year.

Mann-Kendall statistic = -42
critical = -43

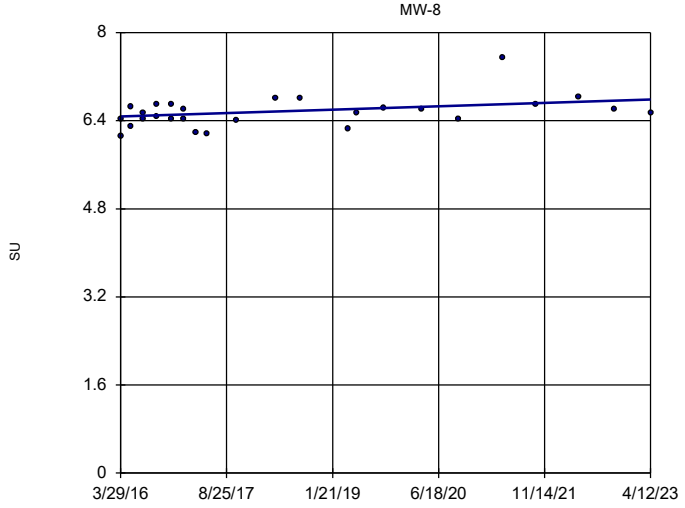
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-8



n = 27

Slope = 0.04371 units per year.

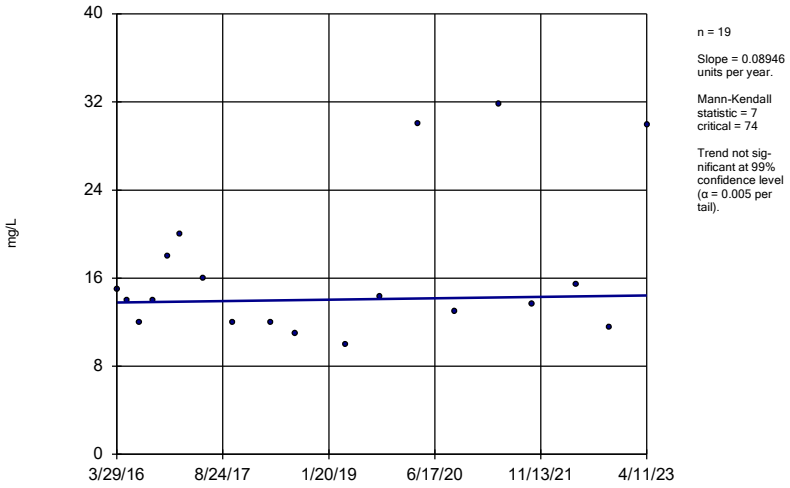
Mann-Kendall statistic = 92
critical = 124

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH, Field Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-1 (bg)



n = 19

Slope = 0.08946 units per year.

Mann-Kendall statistic = 7
critical = 74

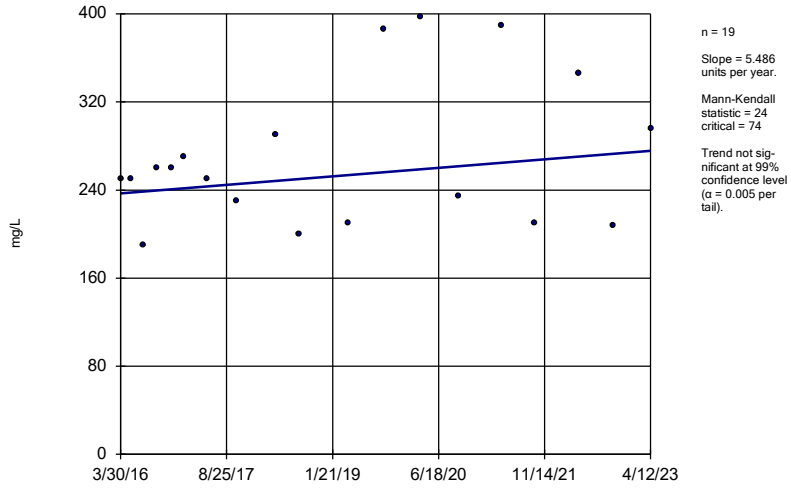
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-10



n = 19

Slope = 5.486 units per year.

Mann-Kendall statistic = 24
critical = 74

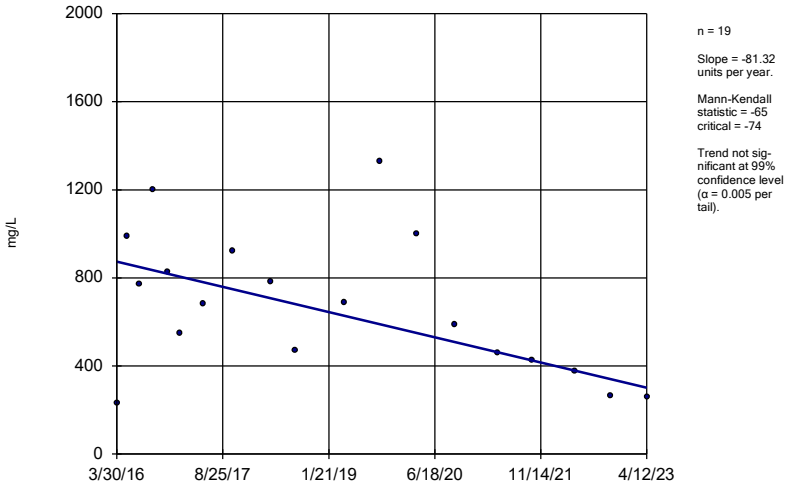
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-11



n = 19

Slope = -81.32 units per year.

Mann-Kendall statistic = -65
critical = -74

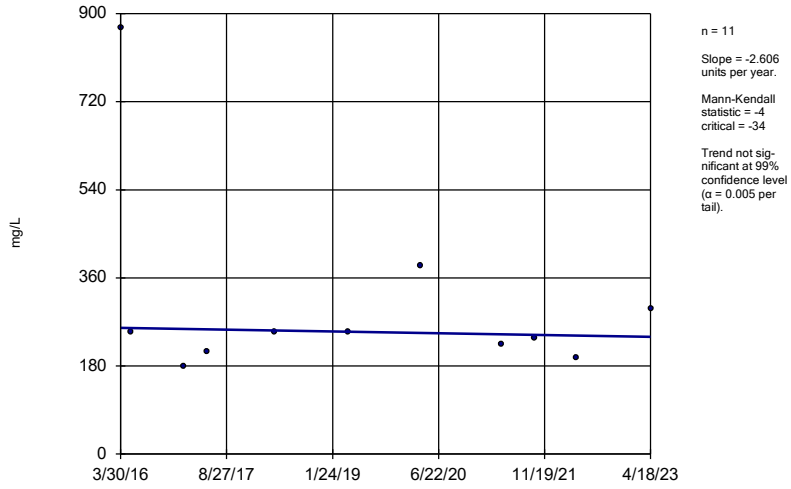
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-12



n = 11

Slope = -2.606 units per year.

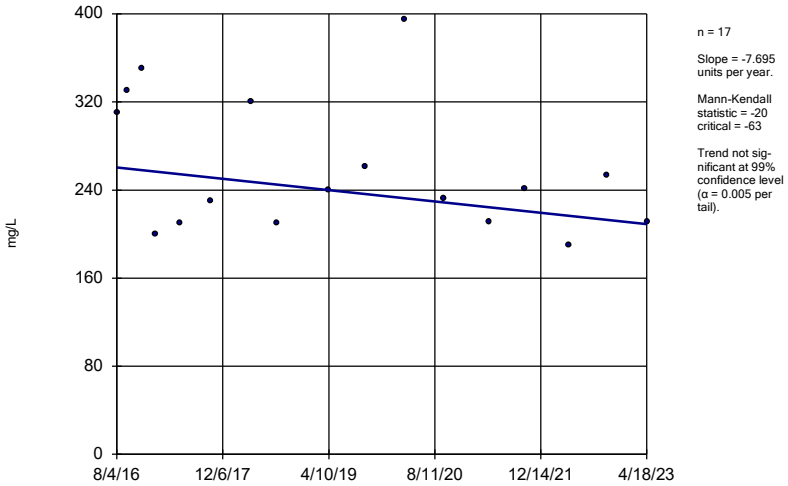
Mann-Kendall statistic = -4
critical = -34

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-12A



n = 17

Slope = -7.695 units per year.

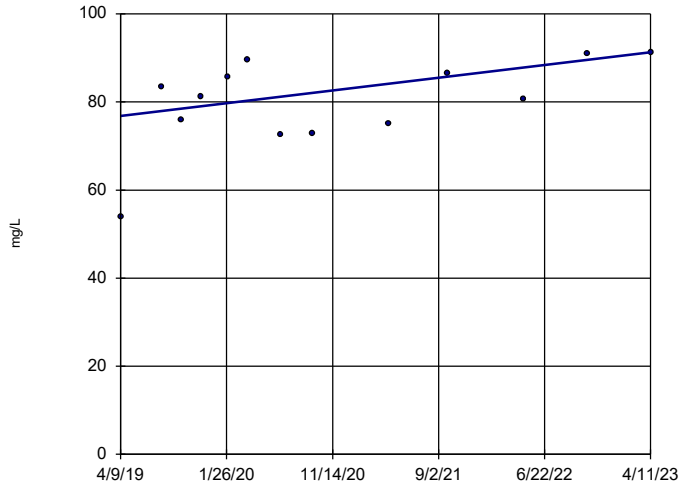
Mann-Kendall statistic = -20
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-13A



n = 13

Slope = 3.593 units per year.

Mann-Kendall statistic = 32
critical = 43

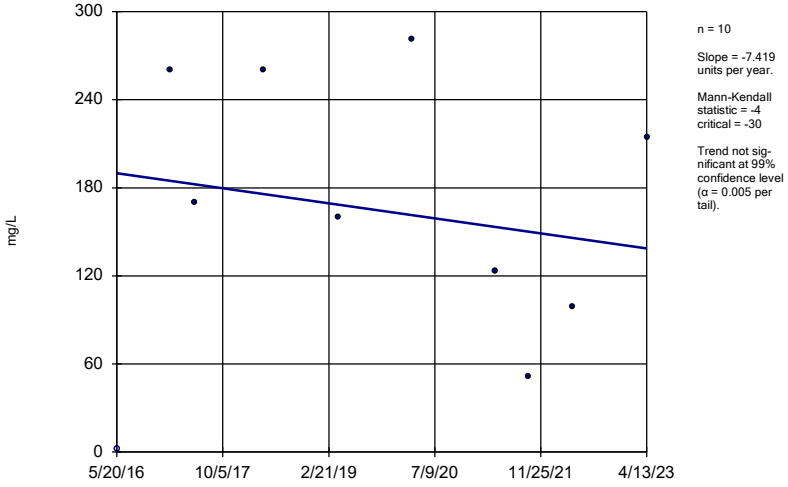
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-14



n = 10

Slope = -7.419 units per year.

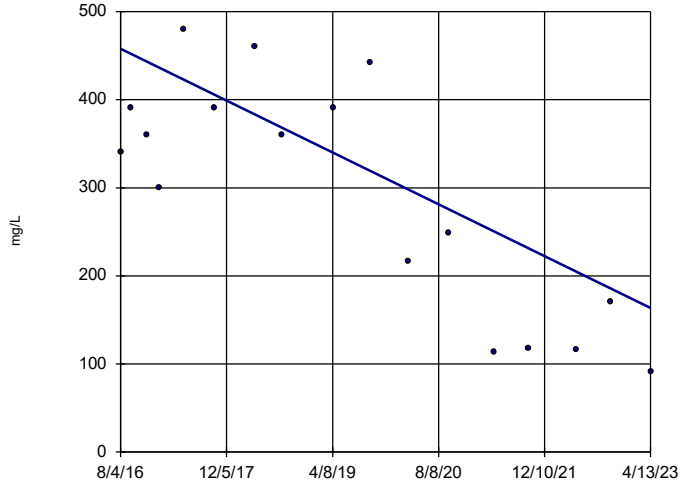
Mann-Kendall statistic = -4
critical = -30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-14A



n = 17

Slope = -44 units per year.

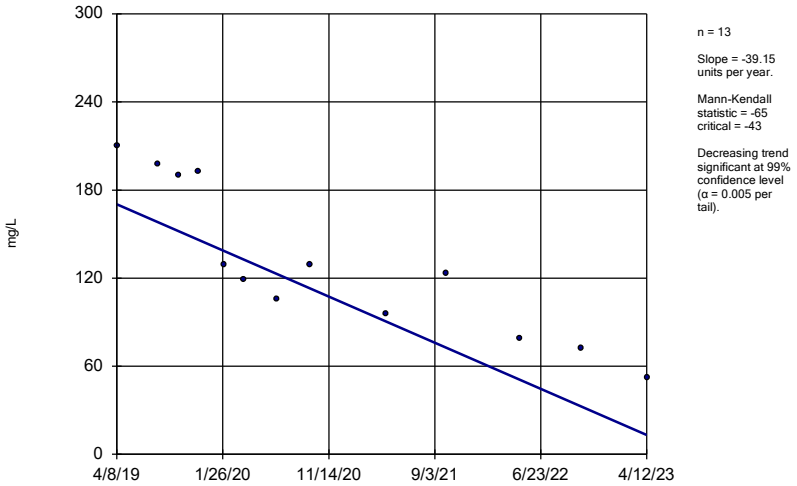
Mann-Kendall statistic = -66
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-16



n = 13

Slope = -39.15 units per year.

Mann-Kendall statistic = -65 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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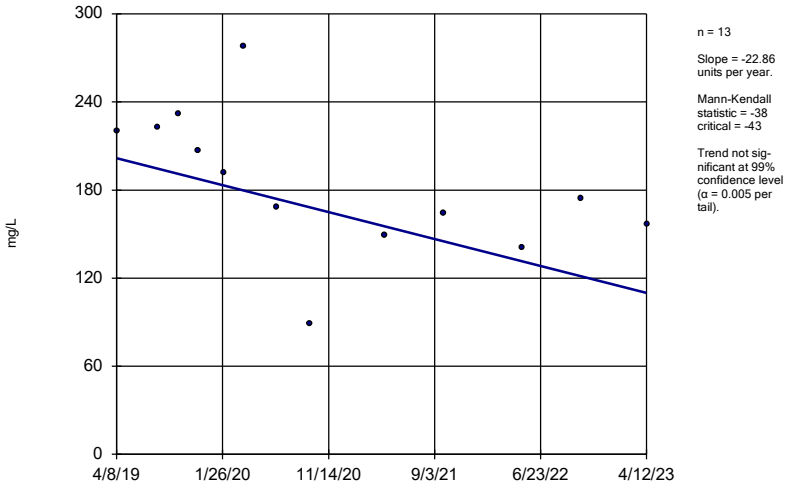
Sen's Slope Estimator

MW-17



n = 13

Slope = -22.86 units per year.

Mann-Kendall statistic = -38 critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

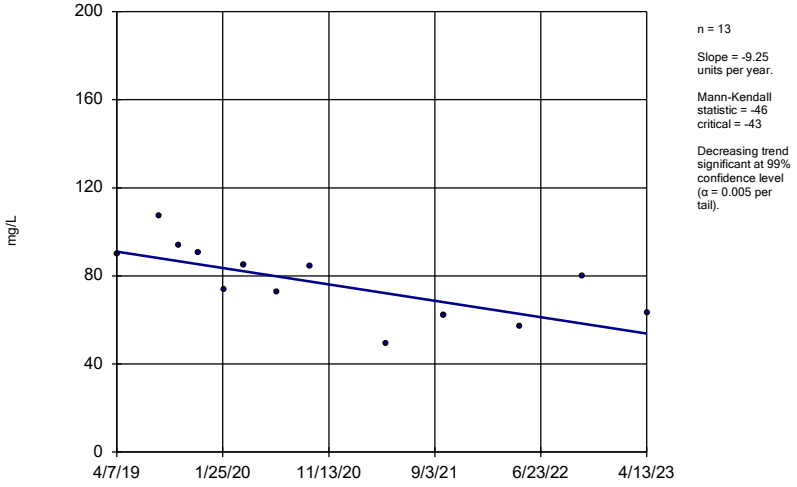
Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-19



n = 13

Slope = -9.25 units per year.

Mann-Kendall statistic = -46 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

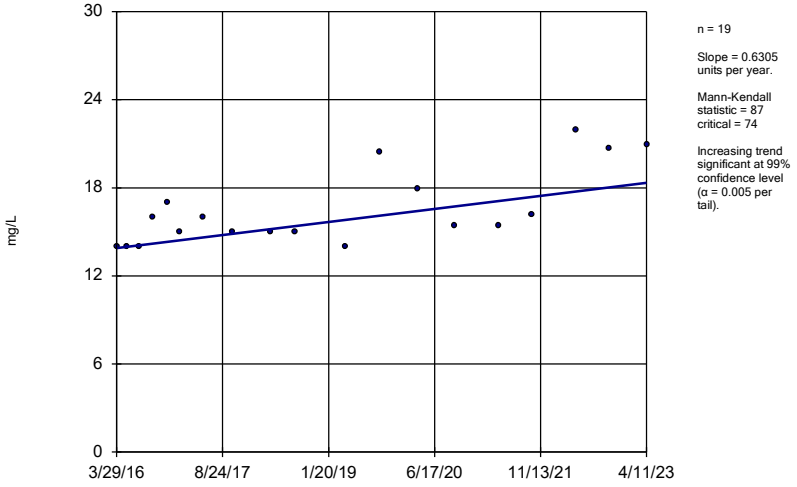
Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-2 (bg)



n = 19

Slope = 0.6305 units per year.

Mann-Kendall statistic = 87 critical = 74

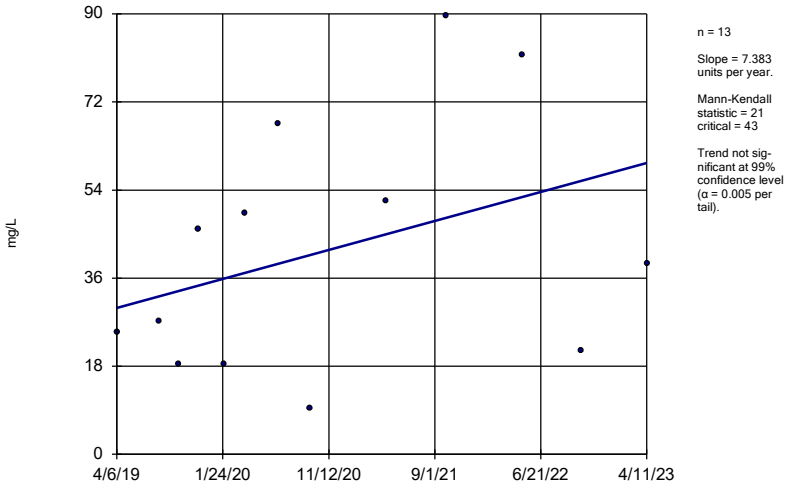
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-21



n = 13

Slope = 7.383 units per year.

Mann-Kendall statistic = 21
critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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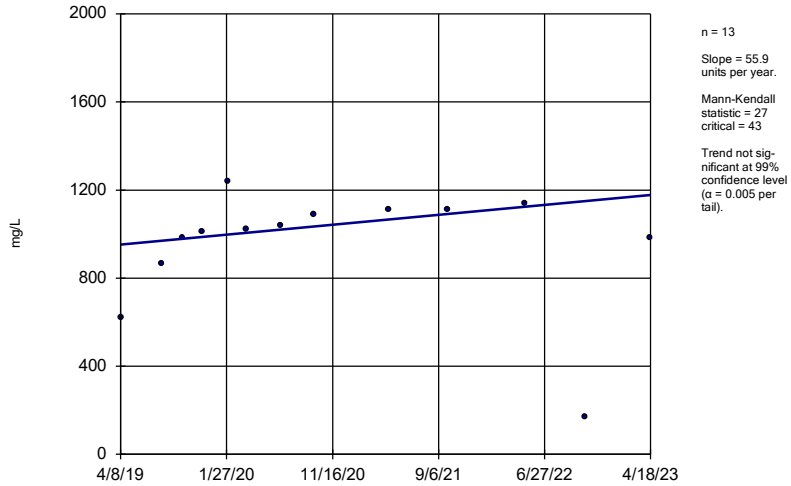
Sen's Slope Estimator

MW-23



n = 13

Slope = 55.9 units per year.

Mann-Kendall statistic = 27
critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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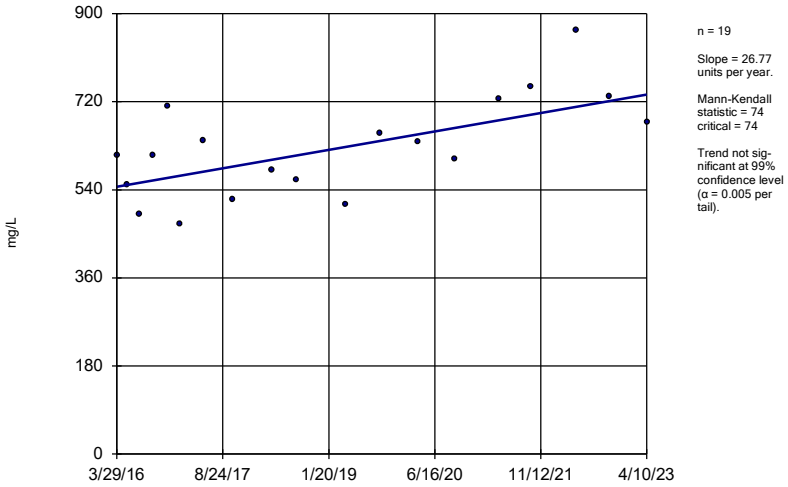
Sen's Slope Estimator

MW-4



n = 19

Slope = 26.77 units per year.

Mann-Kendall statistic = 74
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:40 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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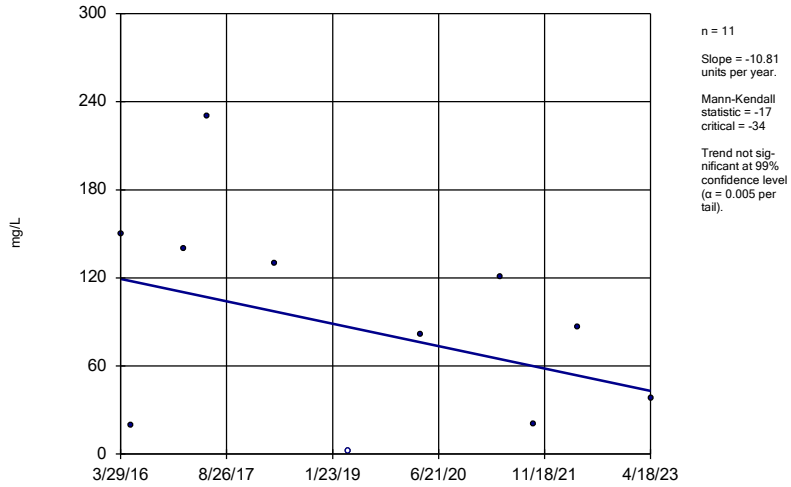
Hollow symbols indicate censored values.

Sen's Slope Estimator

MW-5



n = 11

Slope = -10.81 units per year.

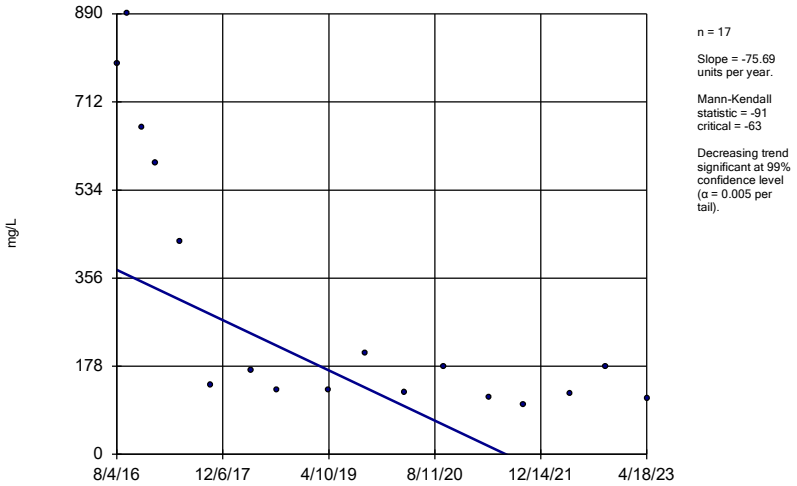
Mann-Kendall statistic = -17
critical = -34

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:41 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-5A



n = 17

Slope = -75.69 units per year.

Mann-Kendall statistic = -91 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:41 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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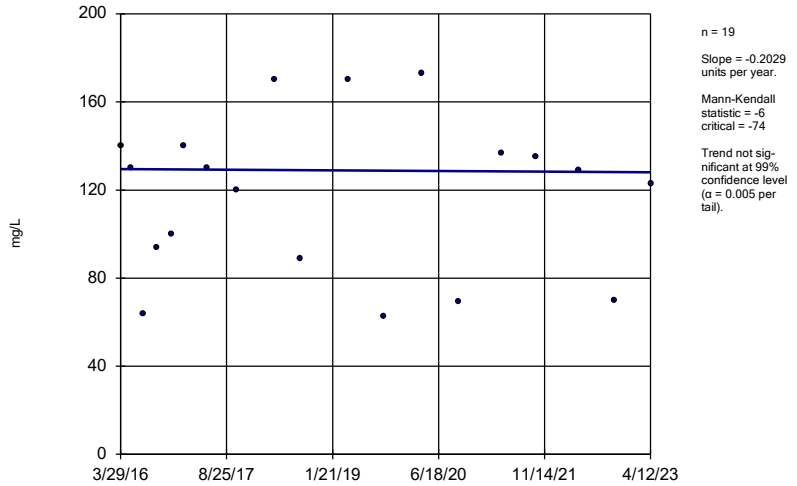
Sen's Slope Estimator

MW-6



n = 19

Slope = -0.2029 units per year.

Mann-Kendall statistic = -6 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:41 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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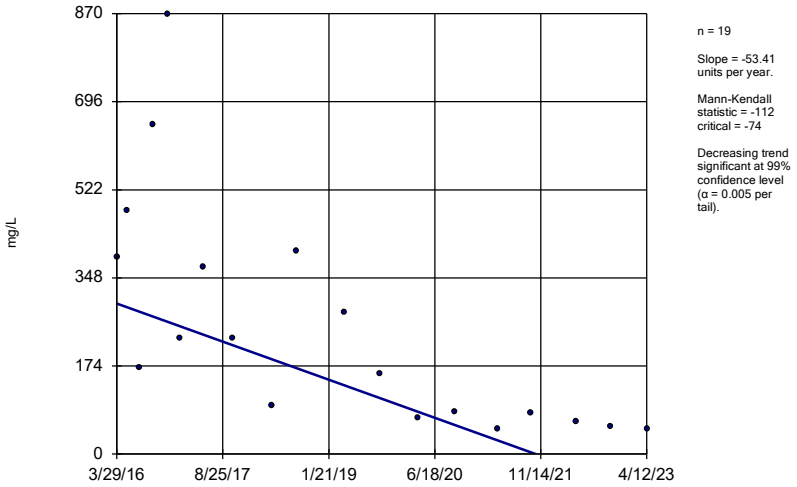
Sen's Slope Estimator

MW-7



n = 19

Slope = -53.41 units per year.

Mann-Kendall statistic = -112 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:41 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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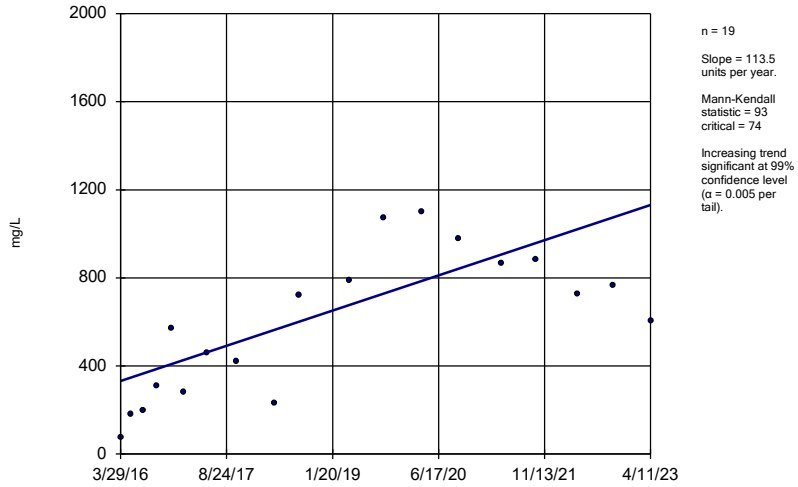
Sen's Slope Estimator

MW-9



n = 19

Slope = 113.5 units per year.

Mann-Kendall statistic = 93 critical = 74

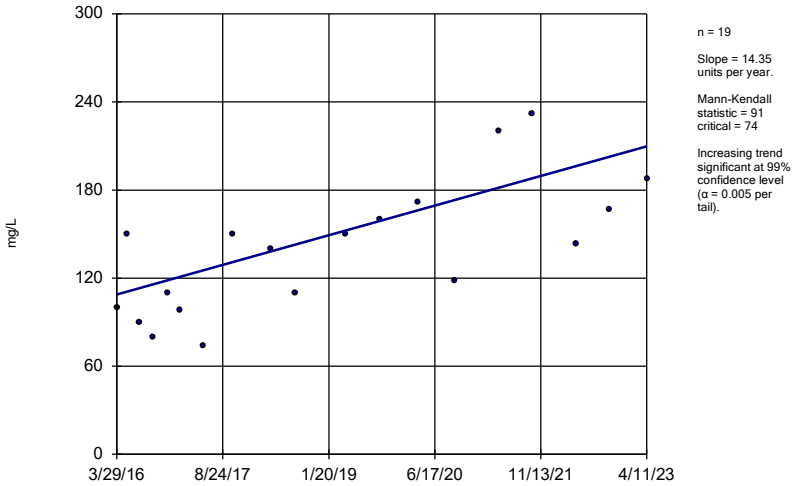
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate as SO4 Analysis Run 6/7/2023 2:41 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-1 (bg)



n = 19

Slope = 14.35 units per year.

Mann-Kendall statistic = 91
critical = 74

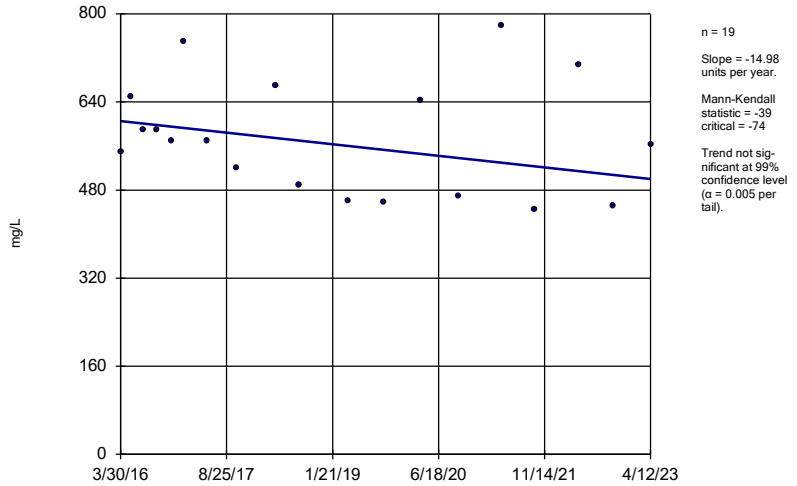
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-10



n = 19

Slope = -14.98 units per year.

Mann-Kendall statistic = -39
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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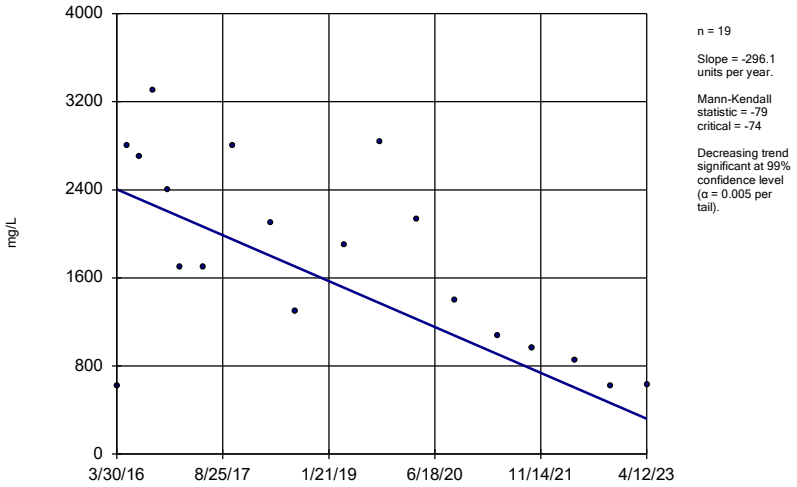
Sen's Slope Estimator

MW-11



n = 19

Slope = -296.1 units per year.

Mann-Kendall statistic = -79
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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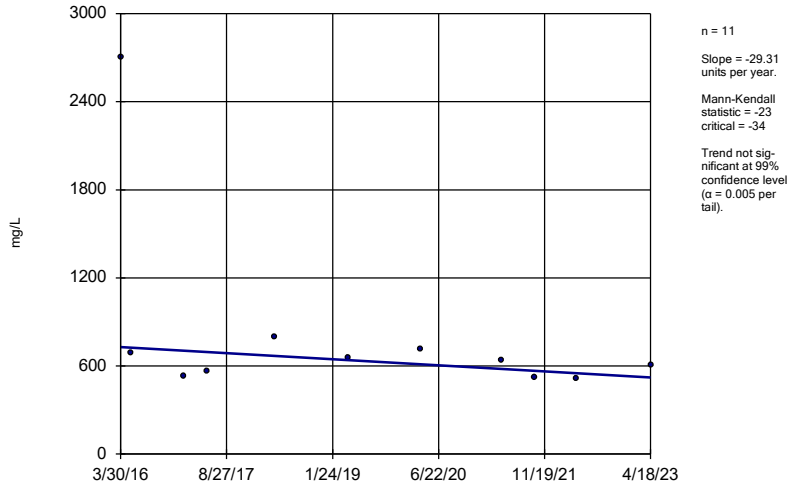
Sen's Slope Estimator

MW-12



n = 11

Slope = -29.31 units per year.

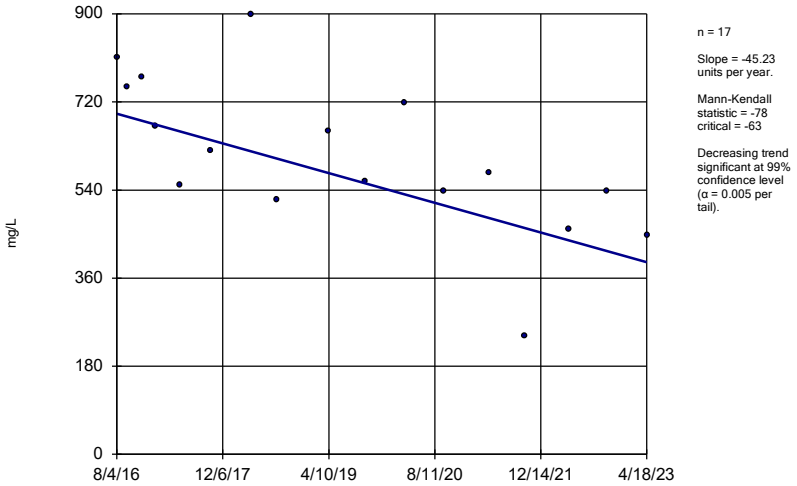
Mann-Kendall statistic = -23
critical = -34

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-12A



n = 17

Slope = -45.23 units per year.

Mann-Kendall statistic = -78
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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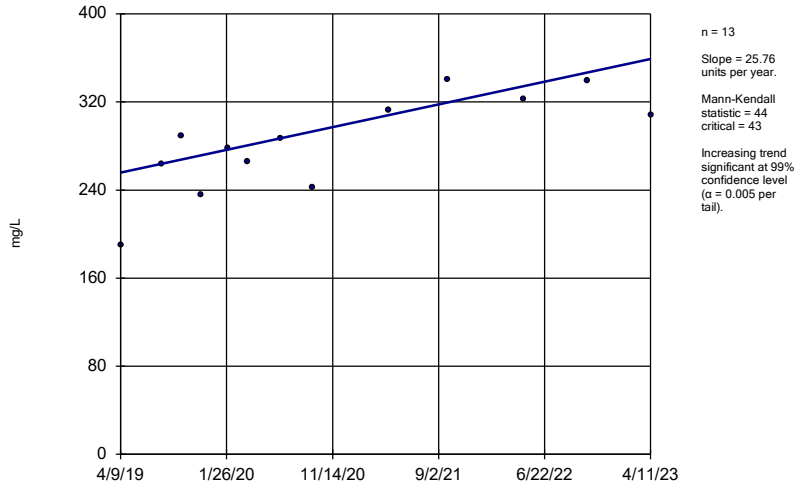
Sen's Slope Estimator

MW-13A



n = 13

Slope = 25.76 units per year.

Mann-Kendall statistic = 44
critical = 43

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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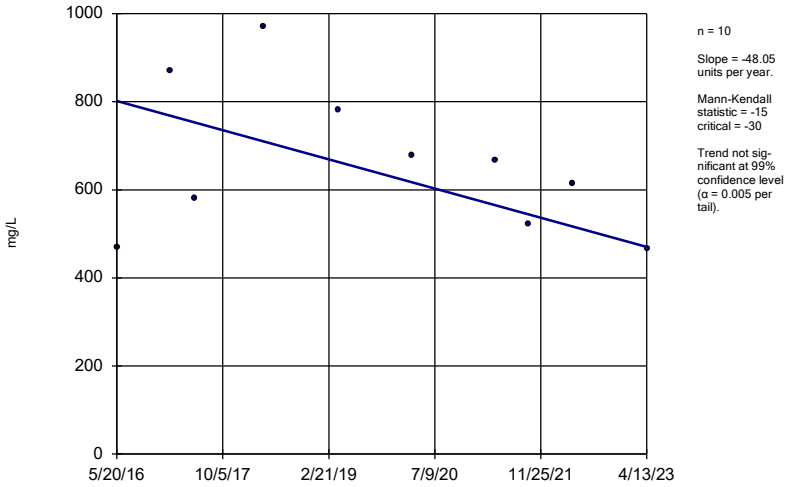
Sen's Slope Estimator

MW-14



n = 10

Slope = -48.05 units per year.

Mann-Kendall statistic = -15
critical = -30

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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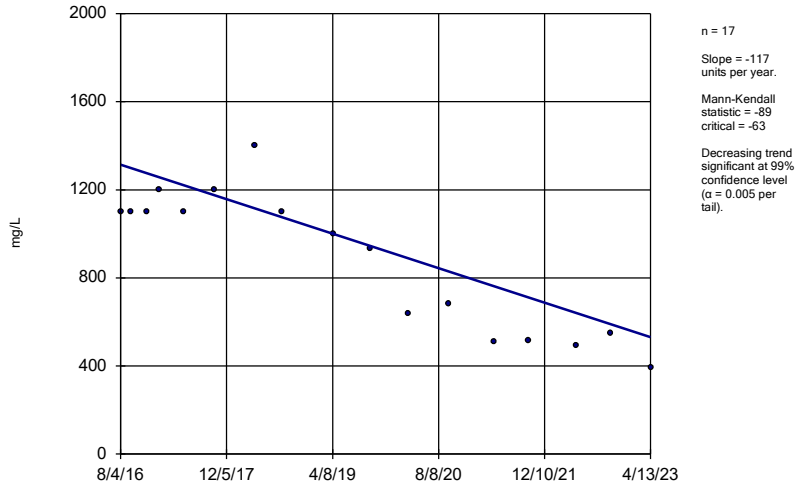
Sen's Slope Estimator

MW-14A



n = 17

Slope = -117 units per year.

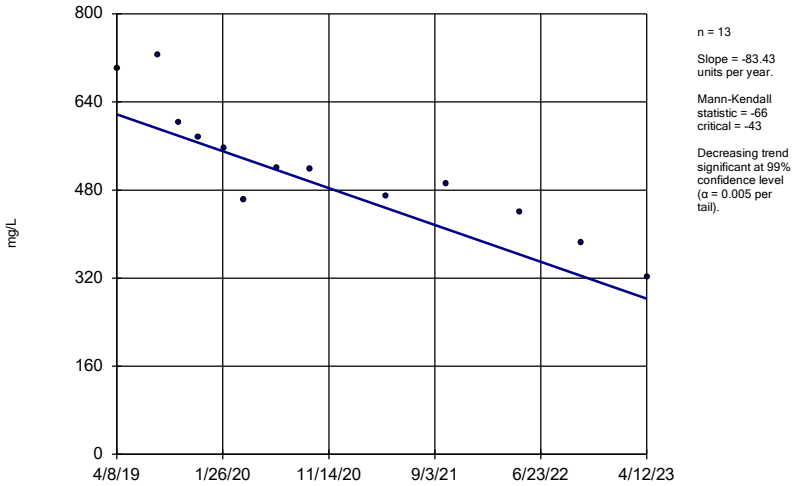
Mann-Kendall statistic = -89
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-16



n = 13

Slope = -83.43 units per year.

Mann-Kendall statistic = -66 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

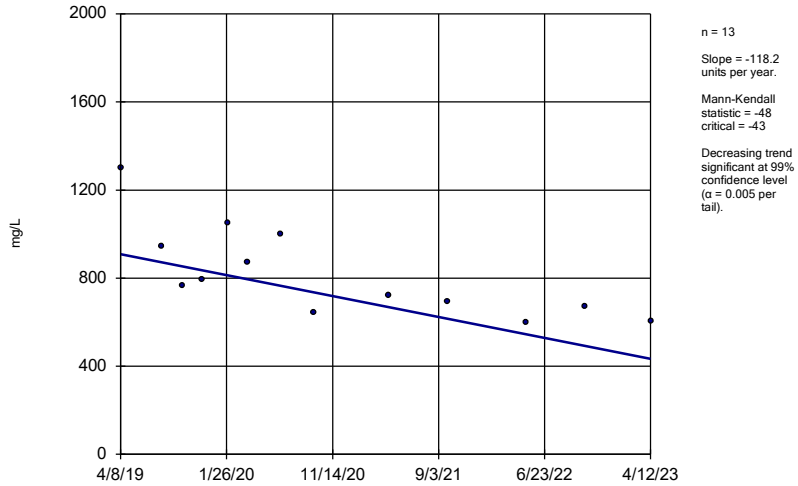
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-17



n = 13

Slope = -118.2 units per year.

Mann-Kendall statistic = -48 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

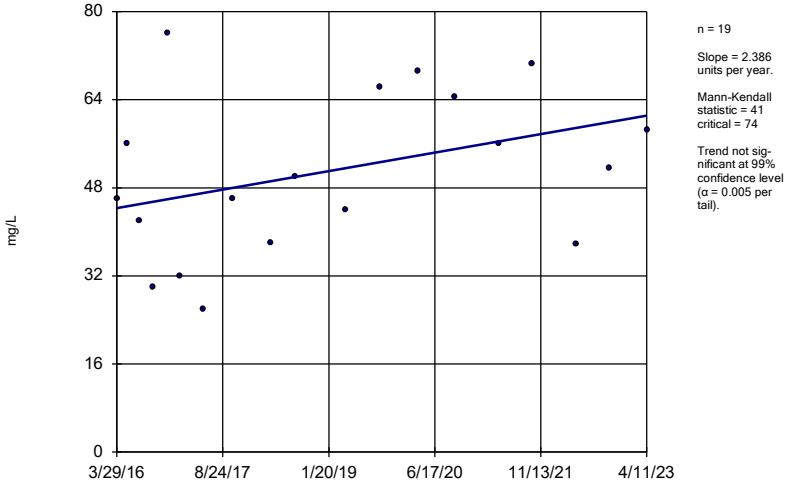
Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

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 (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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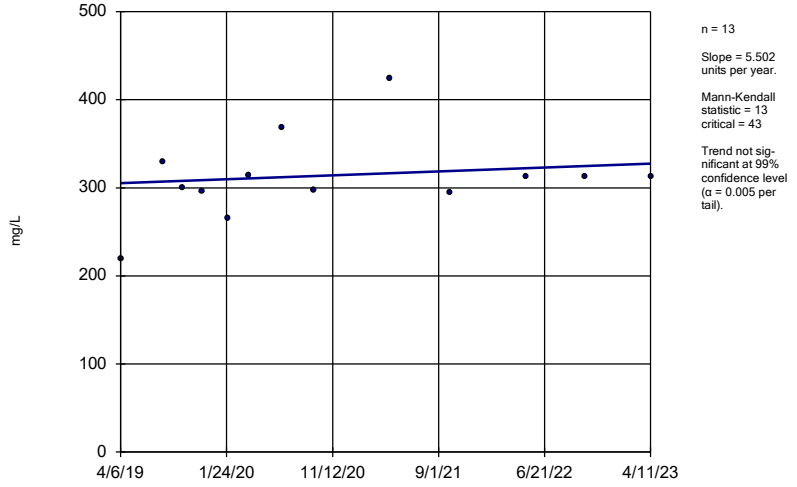
Sen's Slope Estimator

MW-21



n = 13

Slope = 5.502 units per year.

Mann-Kendall statistic = 13 critical = 43

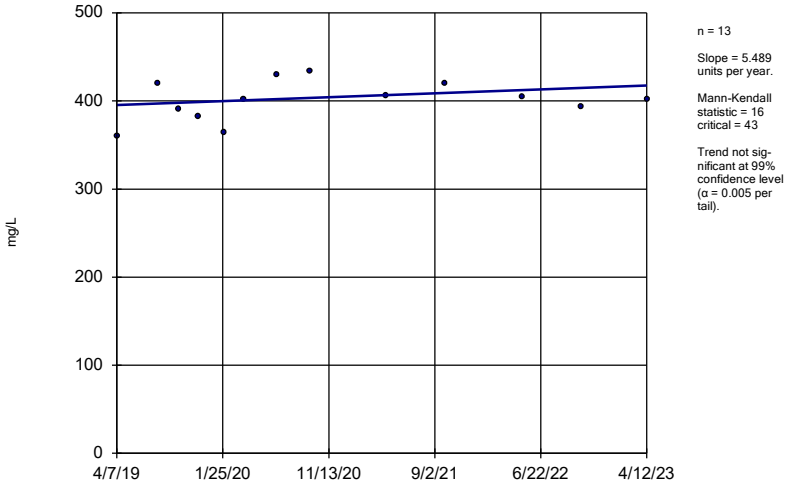
Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-22



n = 13

Slope = 5.489 units per year.

Mann-Kendall statistic = 16 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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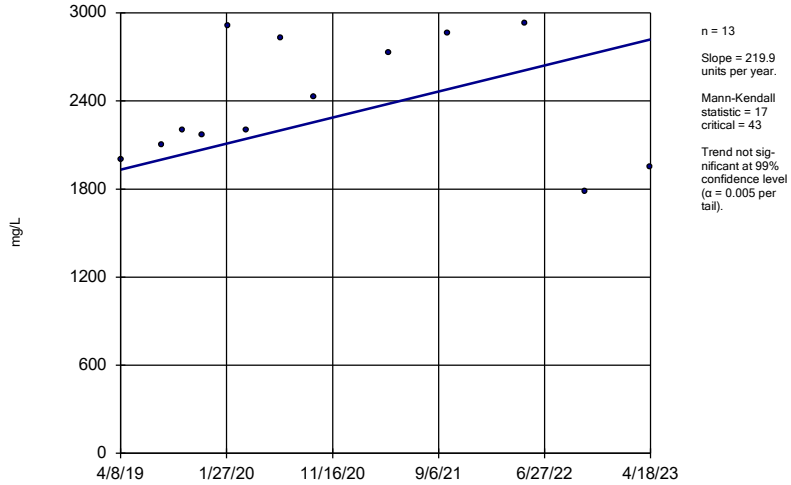
Sen's Slope Estimator

MW-23



n = 13

Slope = 219.9 units per year.

Mann-Kendall statistic = 17 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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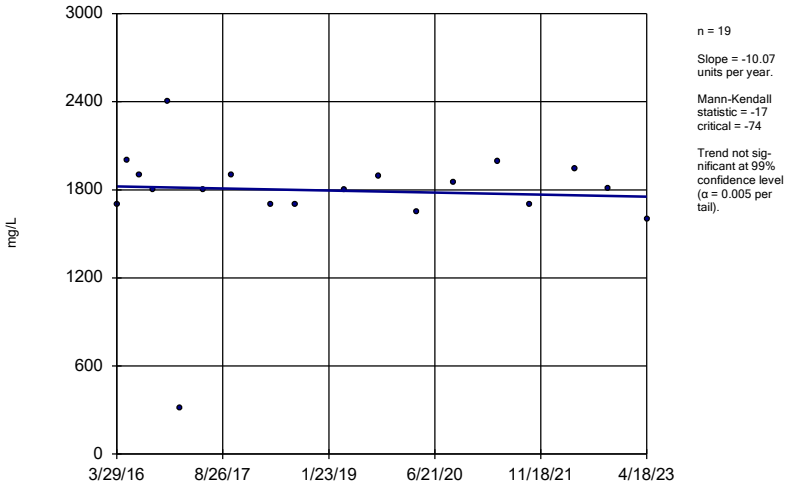
Sen's Slope Estimator

MW-4



n = 19

Slope = -10.07 units per year.

Mann-Kendall statistic = -17 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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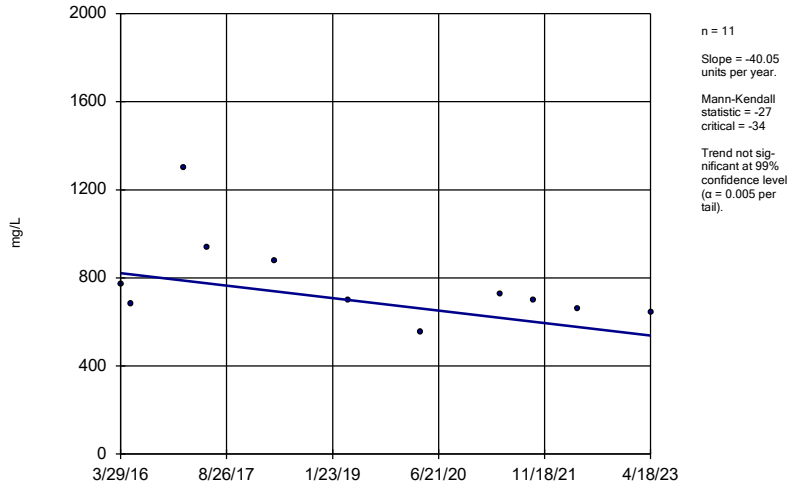
Sen's Slope Estimator

MW-5



n = 11

Slope = -40.05 units per year.

Mann-Kendall statistic = -27 critical = -34

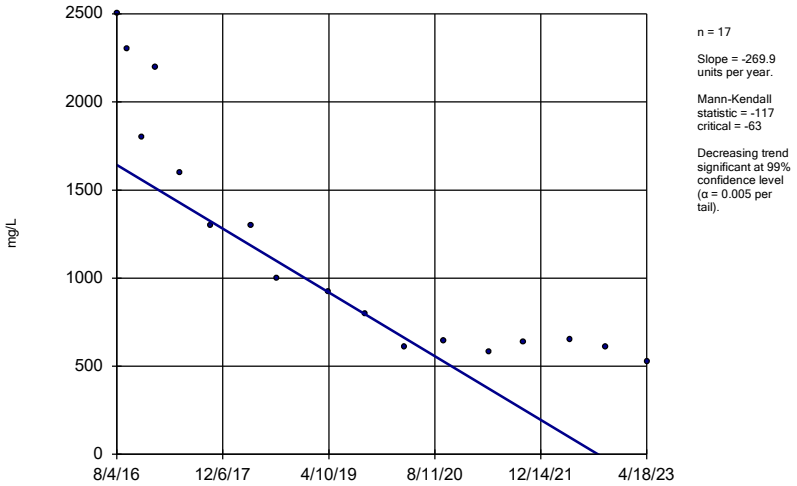
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sen's Slope Estimator

MW-5A



n = 17

Slope = -269.9 units per year.

Mann-Kendall statistic = -117
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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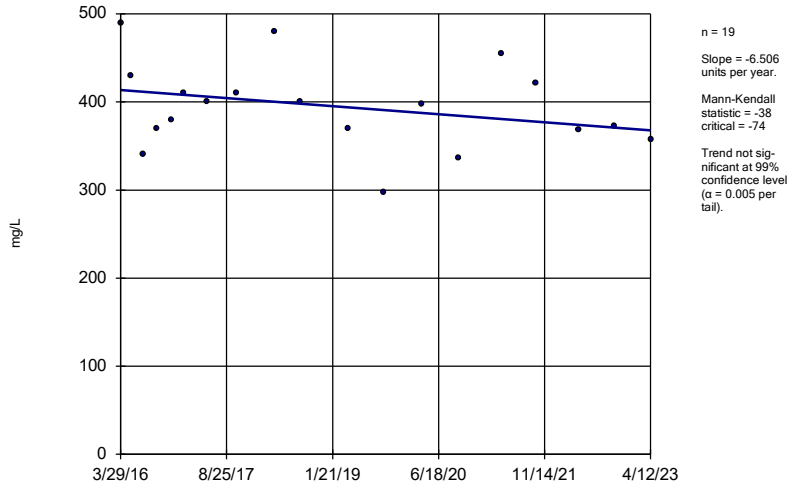
Sen's Slope Estimator

MW-6



n = 19

Slope = -6.506 units per year.

Mann-Kendall statistic = -38
critical = -74

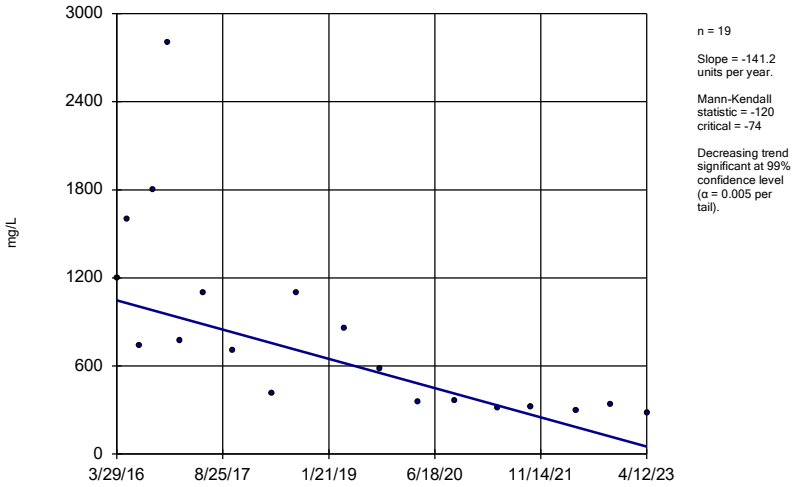
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-7



n = 19

Slope = -141.2 units per year.

Mann-Kendall statistic = -120
critical = -74

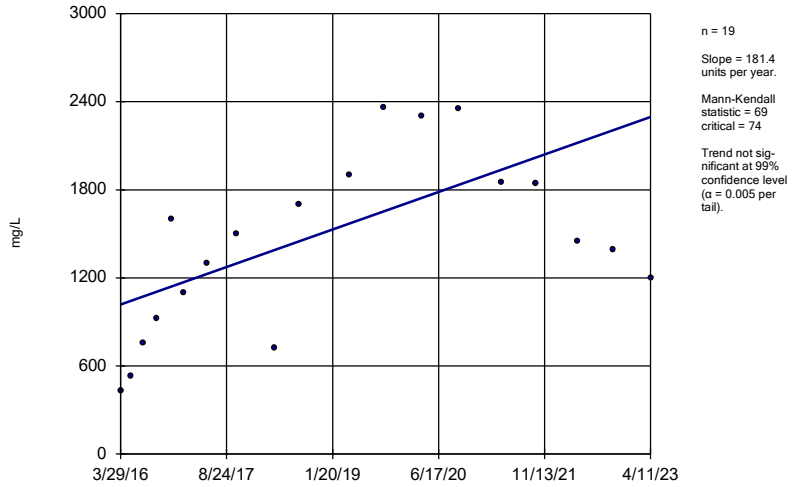
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Sanitas™ v.10.0.01 Sanitas software licensed to AEP. UG

Sen's Slope Estimator

MW-9



n = 19

Slope = 181.4 units per year.

Mann-Kendall statistic = 69
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 6/7/2023 2:41 PM View: Trend Tests
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Figure F. Upper Tolerance Limits

Upper Tolerance Limits Summary Table

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 12/16/2021, 12:23 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.001	30	n/a	n/a	100	n/a	n/a	0.2146	NP Inter
Arsenic (mg/L)	0.00235	30	n/a	n/a	56.67	n/a	n/a	0.2146	NP Inter
Barium (mg/L)	0.14	30	n/a	n/a	0	n/a	n/a	0.2146	NP Inter
Beryllium (mg/L)	0.001	30	n/a	n/a	90	n/a	n/a	0.2146	NP Inter
Cadmium (mg/L)	0.001	30	n/a	n/a	100	n/a	n/a	0.2146	NP Inter
Chromium (mg/L)	0.001	30	n/a	n/a	100	n/a	n/a	0.2146	NP Inter
Cobalt (mg/L)	0.013	30	n/a	n/a	0	n/a	n/a	0.2146	NP Inter
Combined Radium 226 + 228 (pCi/L)	1.49	32	n/a	n/a	0	n/a	n/a	0.1937	NP Inter
Fluoride (mg/L)	0.143	32	n/a	n/a	65.63	n/a	n/a	0.1937	NP Inter
Lead (mg/L)	0.001	30	n/a	n/a	100	n/a	n/a	0.2146	NP Inter
Lithium (mg/L)	0.005	31	n/a	n/a	74.19	n/a	n/a	0.2039	NP Inter
Mercury (mg/L)	0.0002	30	n/a	n/a	93.33	n/a	n/a	0.2146	NP Inter
Molybdenum (mg/L)	0.001	30	n/a	n/a	96.67	n/a	n/a	0.2146	NP Inter
Selenium (mg/L)	0.001	30	n/a	n/a	90	n/a	n/a	0.2146	NP Inter
Thallium (mg/L)	0.001	30	n/a	n/a	100	n/a	n/a	0.2146	NP Inter

Figure G. GWPS

LOWMAN POWER PLANT GWPS			
Analyte	**Units**	**Background**	**GWPS**
Antimony	mg/L	0.001	0.006
Arsenic	mg/L	0.0024	0.01
Barium	mg/L	0.14	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	1.49	5
Fluoride	mg/L	0.14	4
Lead	mg/L	0.001	0.015
Lithium	mg/L	0.005	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 H. Confidence Intervals - Appendix IV

Confidence Interval Summary Table - Significant Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/6/2023, 2:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**MW-17**	**0.06018**	**0.02847**	**0.01**	**Yes**	**8**	**0.04433**	**0.01496**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**MW-20**	**0.03969**	**0.02461**	**0.01**	**Yes**	**8**	**0.03215**	**0.007112**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	**MW-23**	**0.3038**	**0.1612**	**0.01**	**Yes**	**8**	**0.2325**	**0.06728**	**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**	**0.08221**	**0.03199**	**0.013**	**Yes**	**8**	**0.05638**	**0.02711**	**0**	**None**	**x^(1/3)**	**0.01**	**Param.**
Cobalt (mg/L)	**MW-17**	**0.03**	**0.015**	**0.013**	**Yes**	**8**	**0.01896**	**0.004998**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Cobalt (mg/L)	**MW-3**	**0.02972**	**0.0206**	**0.013**	**Yes**	**8**	**0.02516**	**0.004301**	**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**	**0.06325**	**0.04335**	**0.04**	**Yes**	**8**	**0.0533**	**0.009392**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**MW-17**	**0.113**	**0.06744**	**0.04**	**Yes**	**8**	**0.08935**	**0.02735**	**0**	**None**	**x^3**	**0.01**	**Param.**
Lithium (mg/L)	**MW-23**	**0.174**	**0.135**	**0.04**	**Yes**	**8**	**0.1581**	**0.01662**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Lithium (mg/L)	**MW-24**	**0.2208**	**0.05366**	**0.04**	**Yes**	**6**	**0.1372**	**0.06083**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**MW-25**	**0.1763**	**0.1073**	**0.04**	**Yes**	**6**	**0.1418**	**0.02512**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**MW-5A**	**0.07235**	**0.05068**	**0.04**	**Yes**	**8**	**0.06151**	**0.01022**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**MW-7**	**0.09089**	**0.06928**	**0.04**	**Yes**	**8**	**0.08009**	**0.01019**	**0**	**None**	**No**	**0.01**	**Param.**

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/6/2023, 2:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	MW-11	0.003307	0.002445	0.01	No	8	0.002876	0.0004067	12.5	None	No	0.01	Param.
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	0.01251	0.007744	0.01	No	8	0.01013	0.002246	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	0.01045	0.004877	0.01	No	8	0.007661	0.002627	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-14B	0.0017	0.001	0.01	No	4	0.001175	0.00035	25	None	No	0.0625	NP (normality)
Arsenic (mg/L)	MW-16	0.005275	0.001548	0.01	No	8	0.003411	0.001758	0	None	No	0.01	Param.
Arsenic (mg/L)	**MW-17**	**0.06018**	**0.02847**	**0.01**	**Yes**	**8**	**0.04433**	**0.01496**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MW-18	0.006771	0.0007975	0.01	No	8	0.003704	0.003555	37.5	Kaplan-Meier	sqrt(x)	0.01	Param.
Arsenic (mg/L)	**MW-20**	**0.03969**	**0.02461**	**0.01**	**Yes**	**8**	**0.03215**	**0.007112**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MW-21	0.0145	0.0051	0.01	No	8	0.008143	0.003745	0	None	No	0.004	NP (normality)
Arsenic (mg/L)	MW-22	0.005866	0.003472	0.01	No	8	0.004669	0.001129	0	None	No	0.01	Param.
Arsenic (mg/L)	**MW-23**	**0.3038**	**0.1612**	**0.01**	**Yes**	**8**	**0.2325**	**0.06728**	**0**	**None**	**No**	**0.01**	**Param.**
Arsenic (mg/L)	MW-24	0.004085	0.0009438	0.01	No	7	0.002514	0.001322	14.29	None	No	0.01	Param.
Arsenic (mg/L)	MW-25	0.01735	0.001874	0.01	No	7	0.01113	0.006078	28.57	Kaplan-Meier	No	0.01	Param.
Arsenic (mg/L)	MW-26	0.0014	0.001	0.01	No	7	0.0011	0.0001528	57.14	None	No	0.008	NP (normality)
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	0.004122	0.002114	0.01	No	8	0.003145	0.0009777	0	None	x^2	0.01	Param.
Arsenic (mg/L)	MW-6	0.0229	0.001	0.01	No	8	0.008833	0.01068	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	0.03728	0.007854	0.01	No	8	0.02257	0.01388	0	None	No	0.01	Param.
Arsenic (mg/L)	MW-9	0.01	0.0011	0.01	No	8	0.005667	0.004635	50	None	No	0.004	NP (normality)
Barium, Total (mg/L)	MW-10	0.03121	0.02449	2	No	8	0.02785	0.003172	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-11	0.04196	0.02531	2	No	8	0.03364	0.007852	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	0.06249	0.08556	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	0.1953	0.1617	2	No	8	0.1785	0.01582	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	0.07672	0.05275	2	No	8	0.06474	0.01131	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-15	0.06416	0.05057	2	No	8	0.05736	0.006412	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-16	0.1899	0.1051	2	No	8	0.1475	0.03997	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-17	0.158	0.054	2	No	8	0.08845	0.04322	0	None	No	0.004	NP (normality)
Barium, Total (mg/L)	MW-18	0.2572	0.1258	2	No	8	0.1915	0.06195	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-19	0.06894	0.05349	2	No	8	0.06121	0.007289	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-20	0.1537	0.1051	2	No	8	0.1294	0.0229	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-21	0.1217	0.08981	2	No	8	0.1058	0.01504	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-22	0.1542	0.134	2	No	8	0.1441	0.009523	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-23	0.07019	0.04539	2	No	8	0.05779	0.0117	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-24	0.1549	0.05511	2	No	7	0.105	0.042	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-25	0.05498	0.03873	2	No	7	0.04686	0.006842	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-26	0.1429	0.08713	2	No	7	0.115	0.02347	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-3	0.1239	0.09147	2	No	8	0.1077	0.0153	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	0.1052	0.08354	2	No	8	0.09438	0.01023	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-6	0.099	0.041	2	No	8	0.0661	0.02497	0	None	No	0.004	NP (normality)
Barium, Total (mg/L)	MW-7	0.09297	0.07641	2	No	8	0.08469	0.007812	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-14B	0.179	0.069	2	No	4	0.1273	0.05638	0	None	No	0.0625	NP (selected)
Barium, Total (mg/L)	MW-8	0.1116	0.07312	2	No	8	0.09236	0.01816	0	None	No	0.01	Param.
Barium, Total (mg/L)	MW-9	0.08372	0.05485	2	No	8	0.06929	0.01362	0	None	No	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-4	0.005581	0.003977	0.004	No	8	0.004779	0.0007568	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/6/2023, 2:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
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-14A	0.00715	0.001	0.005	No	8	0.001769	0.002174	87.5	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	0.001146	0.0003501	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	0.001164	0.0003549	62.5	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-16	0.00123	0.001	0.1	No	8	0.001029	0.00008132	87.5	None	No	0.004	NP (NDs)
Chromium (mg/L)	MW-18	0.00107	0.001	0.1	No	8	0.001009	0.00002475	75	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-19	0.0011	0.001	0.1	No	8	0.001013	0.00003536	75	None	No	0.004	NP (normality)
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	0.0013	0.001	0.1	No	8	0.001038	0.0001061	62.5	None	No	0.004	NP (normality)
Chromium (mg/L)	MW-24	0.002	0.001	0.1	No	7	0.001143	0.000378	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	MW-25	0.001	0.001	0.1	No	7	0.001	1.8e-11	85.71	None	No	0.008	NP (NDs)
Chromium (mg/L)	MW-26	0.001	0.001	0.1	No	7	0.001	2.3e-11	28.57	None	No	0.008	NP (normality)
Chromium (mg/L)	MW-3	0.00111	0.001	0.1	No	8	0.001014	0.00003889	87.5	None	No	0.004	NP (NDs)
Cobalt (mg/L)	MW-10	0.006113	0.003014	0.013	No	8	0.004564	0.001462	0	None	No	0.01	Param.
Cobalt (mg/L)	MW-12A	0.013	0.001	0.013	No	8	0.003213	0.004174	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-13A	0.01246	0.01011	0.013	No	8	0.01129	0.00111	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**	**0.08221**	**0.03199**	**0.013**	**Yes**	**8**	**0.05638**	**0.02711**	**0**	**None**	**x^(1/3)**	**0.01**	**Param.**
Cobalt (mg/L)	MW-15	0.004	0.001	0.013	No	8	0.001465	0.001055	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-16	0.01947	0.009352	0.013	No	8	0.01441	0.004774	0	None	No	0.01	Param.
Cobalt (mg/L)	**MW-17**	**0.03**	**0.015**	**0.013**	**Yes**	**8**	**0.01896**	**0.004998**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Cobalt (mg/L)	MW-18	0.00407	0.001	0.013	No	8	0.001509	0.001092	62.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-19	0.006	0.0005	0.013	No	8	0.002566	0.002326	12.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-20	0.006	0.001	0.013	No	8	0.003355	0.002194	37.5	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-21	0.005	0.001	0.013	No	8	0.00308	0.001838	25	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-22	0.00311	0.001102	0.013	No	8	0.002106	0.0009473	12.5	None	No	0.01	Param.
Cobalt (mg/L)	MW-23	0.01429	0.002431	0.013	No	8	0.009275	0.005532	25	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	MW-24	0.004208	0.0006489	0.013	No	7	0.002429	0.001618	42.86	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	MW-25	0.01868	0.0001726	0.013	No	7	0.007929	0.008729	14.29	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	**MW-3**	**0.02972**	**0.0206**	**0.013**	**Yes**	**8**	**0.02516**	**0.004301**	**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	0.0275	0.012	0.013	No	8	0.01523	0.005039	0	None	No	0.004	NP (normality)
Cobalt (mg/L)	MW-6	0.01013	0.000853	0.013	No	8	0.005255	0.005584	25	Kaplan-Meier	x^(1/3)	0.01	Param.
Cobalt (mg/L)	MW-7	0.00317	0.001	0.013	No	8	0.001271	0.0007672	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	0.7118	0.1313	5	No	8	0.4216	0.2738	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-11	1.553	0.2587	5	No	8	0.906	0.6107	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	1.1	0.09618	5	No	8	0.5679	0.542	0	None	sqrt(x)	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	1.454	0.5994	5	No	8	1.027	0.403	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	1.121	0.3205	5	No	8	0.7205	0.3774	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-14B	2.255	0.2481	5	No	4	1.252	0.4421	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-15	1.023	0.4307	5	No	8	0.7266	0.2792	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-16	1.596	0.3261	5	No	8	0.9611	0.5991	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-17	1.111	0.05693	5	No	8	0.584	0.4973	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-18	0.918	0.228	5	No	8	0.5468	0.294	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-19	0.7508	0.0718	5	No	8	0.4113	0.3203	0	None	No	0.01	Param.

Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/6/2023, 2:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	MW-20	1.318	0.3338	5	No	8	0.8259	0.4643	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-21	0.7211	0.2897	5	No	8	0.4814	0.2834	0	None	x^2	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-22	1.111	0.3145	5	No	8	0.7128	0.3758	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-23	1.737	0.4084	5	No	8	1.073	0.6266	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-24	1.383	0.7809	5	No	8	1.082	0.2842	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-25	1.702	0.3122	5	No	8	1.007	0.6557	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-26	1.017	0.2991	5	No	8	0.6581	0.3387	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-3	1.014	0.3196	5	No	8	0.6668	0.3276	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	3.377	0.3011	5	No	8	2.136	3.723	0	None	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-6	0.6425	0.2577	5	No	8	0.4501	0.1815	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-7	10.9	0.447	5	No	8	2.082	3.579	0	None	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	MW-8	0.9343	0.2225	5	No	8	0.5784	0.3358	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	MW-9	1.821	0.7082	5	No	8	1.265	0.5251	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-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-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	0.136	0.125	4	No	8	0.1264	0.003889	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-16	0.199	0.125	4	No	8	0.1343	0.02616	87.5	Kaplan-Meier	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-17	1.817	0.626	4	No	8	1.222	0.562	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-18	0.146	0.125	4	No	8	0.132	0.008928	50	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-20	0.182	0.125	4	No	8	0.1439	0.02234	50	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-21	1.25	0.127	4	No	8	0.8386	0.5679	62.5	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-22	0.246	0.125	4	No	8	0.1401	0.04278	87.5	None	No	0.004	NP (NDs)
Fluoride, total (mg/L)	MW-23	2.364	1.386	4	No	8	1.875	0.4609	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-24	1.251	0.3642	4	No	7	0.8074	0.3732	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-25	0.9352	0.4145	4	No	7	0.6749	0.2192	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-26	0.1666	0.1219	4	No	7	0.1461	0.0192	28.57	Kaplan-Meier	No	0.01	Param.
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	1.78	1.17	4	No	8	1.475	0.2878	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-6	0.324	0.125	4	No	8	0.1639	0.07564	75	None	No	0.004	NP (normality)
Fluoride, total (mg/L)	MW-7	2.506	1.414	4	No	8	1.96	0.5156	0	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-8	0.3197	0.1948	4	No	8	0.2573	0.05891	12.5	None	No	0.01	Param.
Fluoride, total (mg/L)	MW-9	0.158	0.125	4	No	8	0.1328	0.01213	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-4	0.001811	0.001059	0.015	No	8	0.00131	0.0005669	25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	MW-10	0.01766	0.01291	0.04	No	8	0.01459	0.002443	25	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	**MW-11**	**0.06325**	**0.04335**	**0.04**	**Yes**	**8**	**0.0533**	**0.009392**	**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	0.007863	0.006051	0.04	No	8	0.007441	0.0009281	37.5	Kaplan-Meier	No	0.01	Param.
Lithium (mg/L)	MW-13	0.008	0.008	0.04	No	8	0.008	0	100	Kaplan-Meier	No	0.004	NP (NDs)
Lithium (mg/L)	MW-13A	0.025	0.0062	0.04	No	8	0.009289	0.006442	12.5	None	No	0.004	NP (normality)
Lithium (mg/L)	MW-14A	0.0196	0.005895	0.04	No	8	0.01275	0.006463	0	None	No	0.01	Param.
Lithium (mg/L)	MW-14B	0.2654	0.008781	0.04	No	4	0.1371	0.05651	0	None	No	0.01	Param.
Lithium (mg/L)	MW-15	0.008	0.00756	0.04	No	8	0.007945	0.0001556	87.5	None	No	0.004	NP (NDs)
Lithium (mg/L)	MW-16	0.04932	0.03105	0.04	No	8	0.04019	0.008617	0	None	No	0.01	Param.
Lithium (mg/L)	**MW-17**	**0.113**	**0.06744**	**0.04**	**Yes**	**8**	**0.08935**	**0.02735**	**0**	**None**	**x^3**	**0.01**	**Param.**
Lithium (mg/L)	MW-19	0.01221	0.008435	0.04	No	8	0.01032	0.00178	12.5	None	No	0.01	Param.
Lithium (mg/L)	**MW-23**	**0.174**	**0.135**	**0.04**	**Yes**	**8**	**0.1581**	**0.01662**	**0**	**None**	**No**	**0.004**	**NP (normality)**
Lithium (mg/L)	**MW-24**	**0.2208**	**0.05366**	**0.04**	**Yes**	**6**	**0.1372**	**0.06083**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	**MW-25**	**0.1763**	**0.1073**	**0.04**	**Yes**	**6**	**0.1418**	**0.02512**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	MW-4	0.006922	0.004803	0.04	No	8	0.005863	0.0009993	12.5	None	No	0.01	Param.

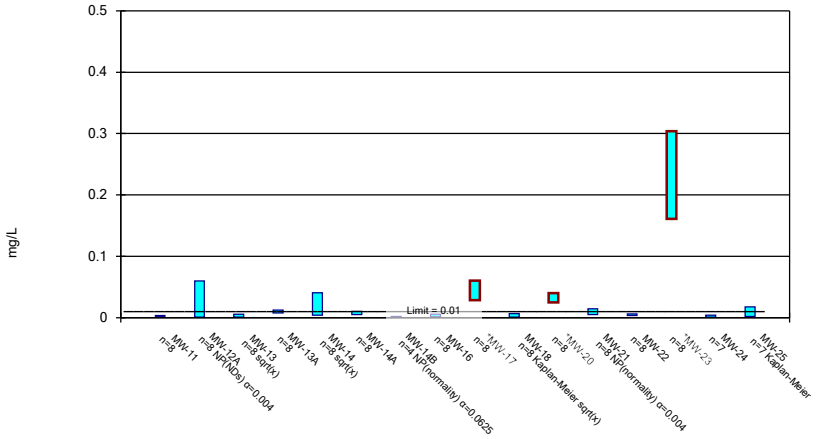
Confidence Interval Summary Table - All Results

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant Printed 6/6/2023, 2:55 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	**MW-5A**	**0.07235**	**0.05068**	**0.04**	**Yes**	**8**	**0.06151**	**0.01022**	**0**	**None**	**No**	**0.01**	**Param.**
Lithium (mg/L)	MW-6	0.00832	0.00603	0.04	No	8	0.007561	0.0009183	62.5	None	No	0.004	NP (normality)
Lithium (mg/L)	**MW-7**	**0.09089**	**0.06928**	**0.04**	**Yes**	**8**	**0.08009**	**0.01019**	**0**	**None**	**No**	**0.01**	**Param.**
Molybdenum (mg/L)	MW-11	0.1394	0.09412	0.1	No	8	0.1168	0.02135	0	None	No	0.01	Param.
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	0.06231	0.00519	0.1	No	4	0.03375	0.01258	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-16	0.00113	0.001	0.1	No	8	0.001016	0.00004596	37.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-17	0.1383	0.03494	0.1	No	8	0.08664	0.04878	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-23	0.1188	0.07411	0.1	No	8	0.09644	0.02106	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-24	0.02105	0.002954	0.1	No	7	0.012	0.007616	14.29	None	No	0.01	Param.
Molybdenum (mg/L)	MW-25	0.1356	0.0414	0.1	No	7	0.08586	0.04531	0	None	sqrt(x)	0.01	Param.
Molybdenum (mg/L)	MW-26	0.006677	0.005037	0.1	No	7	0.005857	0.0006901	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-3	0.002	0.001	0.1	No	8	0.001174	0.0003607	75	None	No	0.004	NP (normality)
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	0.1396	0.0844	0.1	No	8	0.112	0.02604	0	None	No	0.01	Param.
Molybdenum (mg/L)	MW-6	0.00252	0.001	0.1	No	8	0.00144	0.0006281	62.5	None	No	0.004	NP (normality)
Molybdenum (mg/L)	MW-7	0.02156	0.01011	0.1	No	8	0.01584	0.005399	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	0.00224	0.0008914	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	0.00206	0.001	0.05	No	8	0.001383	0.0005282	37.5	None	No	0.004	NP (normality)
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-26	0.02497	0.003602	0.05	No	7	0.01429	0.008995	0	None	No	0.01	Param.
Selenium (mg/L)	MW-4	0.005	0.001	0.05	No	8	0.00175	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-7	0.002	0.001	0.05	No	8	0.001125	0.0003536	87.5	None	No	0.004	NP (NDs)

Parametric and Non-Parametric (NP) Confidence Interval

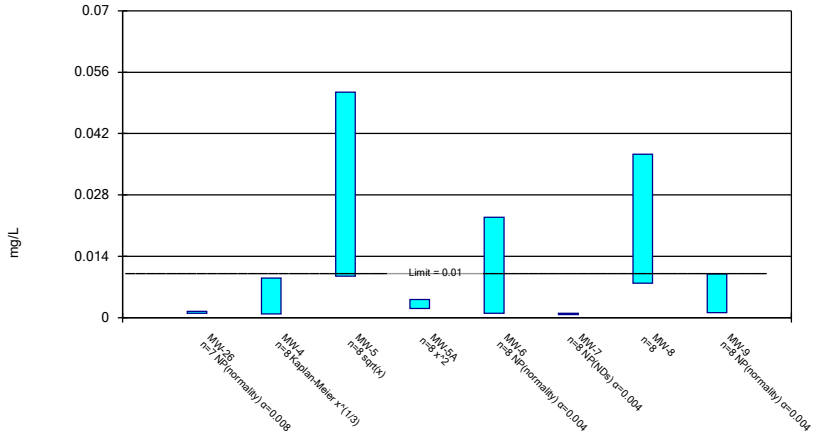
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/6/2023 2:52 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

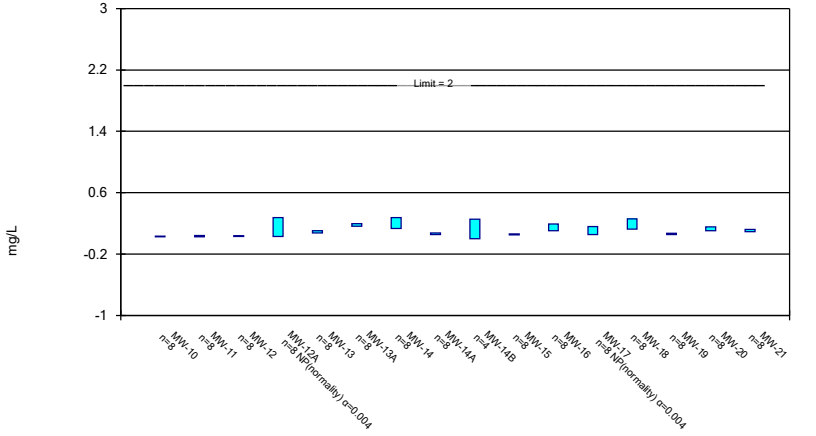
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Arsenic Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

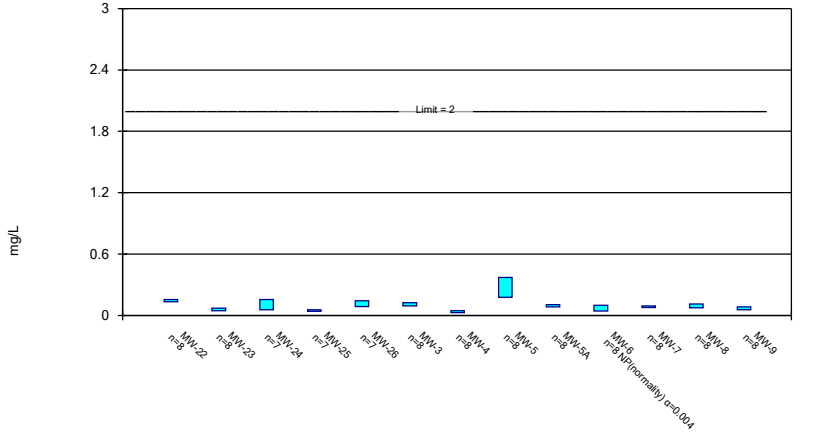
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, Total Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

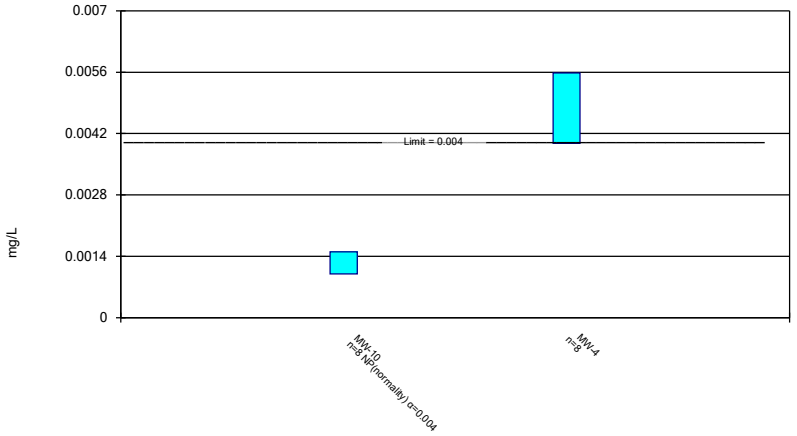
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium, Total Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

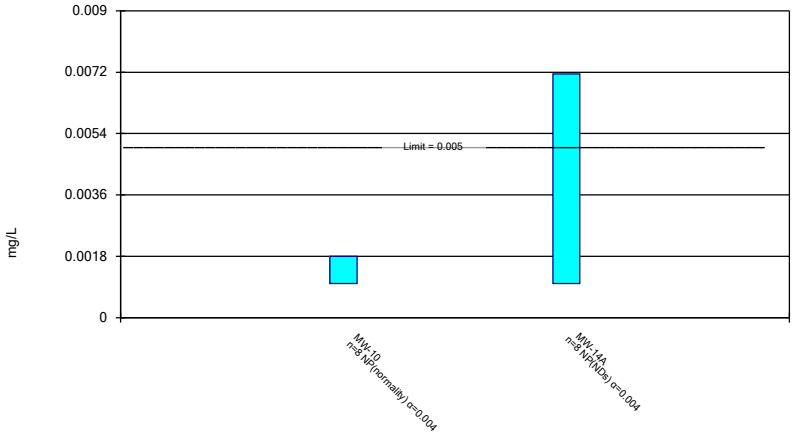
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Non-Parametric Confidence Interval

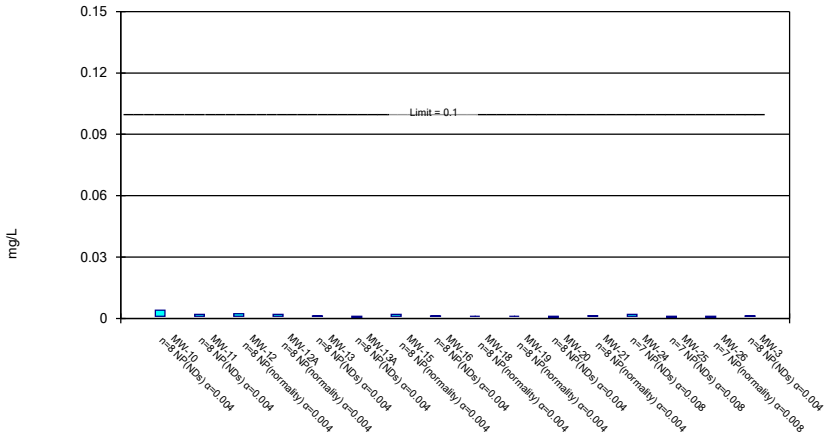
Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Non-Parametric Confidence Interval

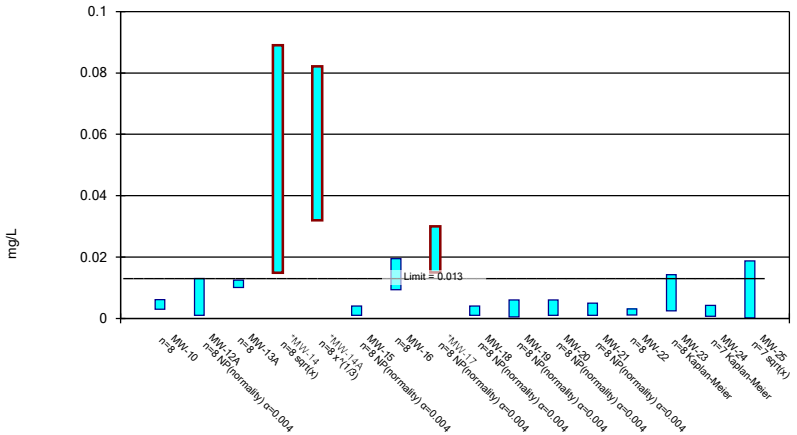
Compliance Limit is not exceeded.



Constituent: Chromium Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

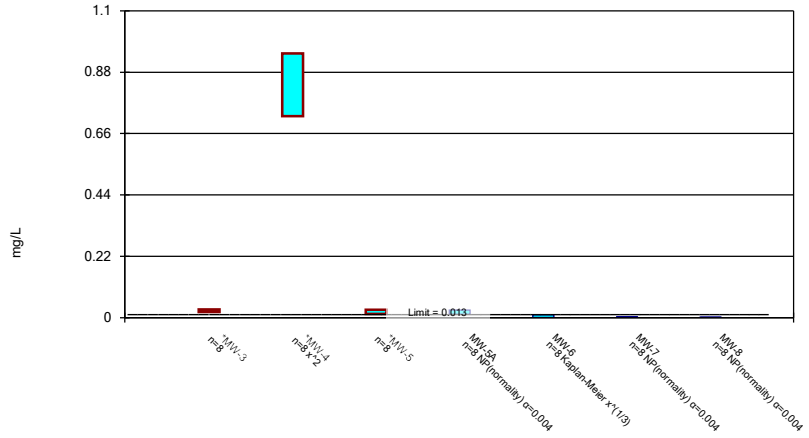
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

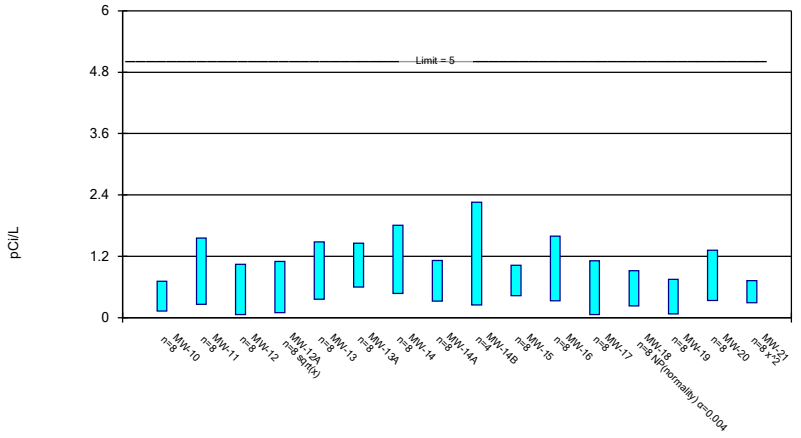
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

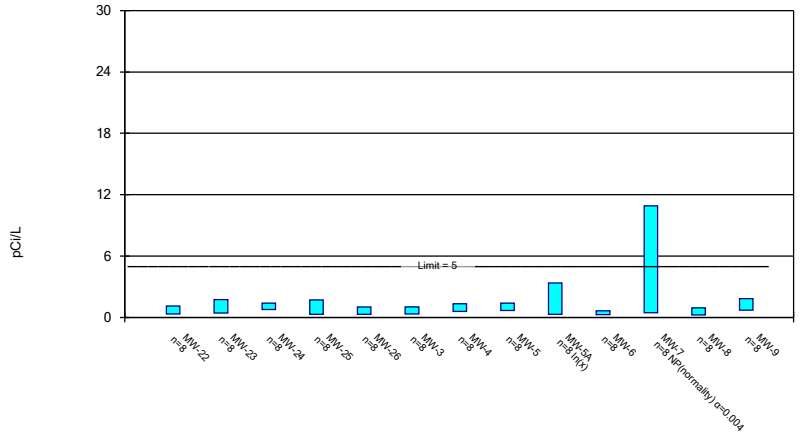
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals AP
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

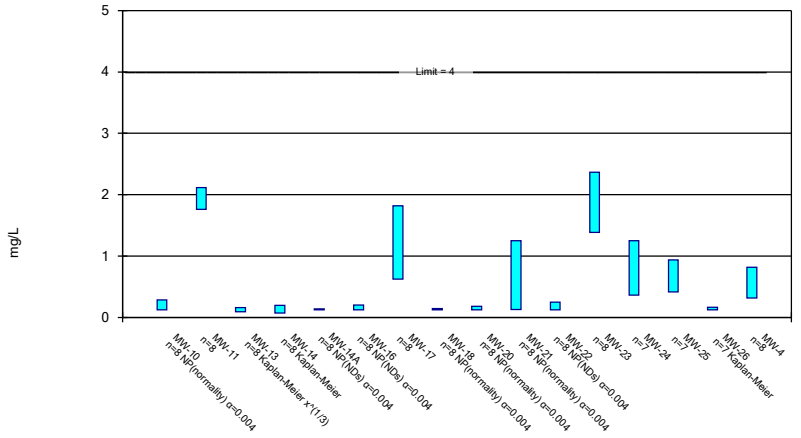
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals AP
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

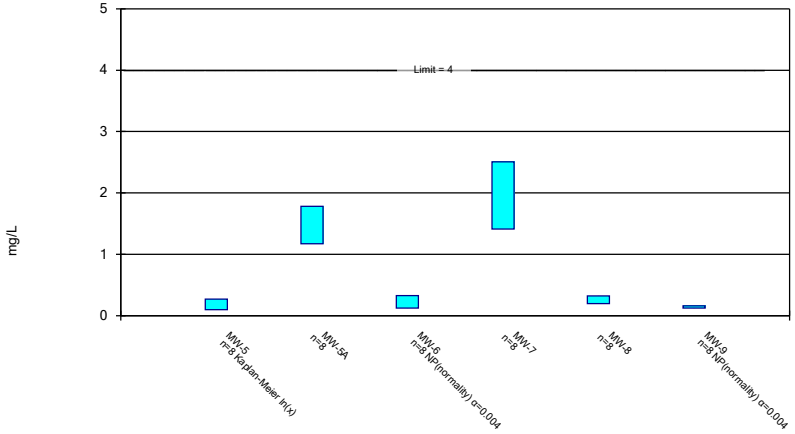
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

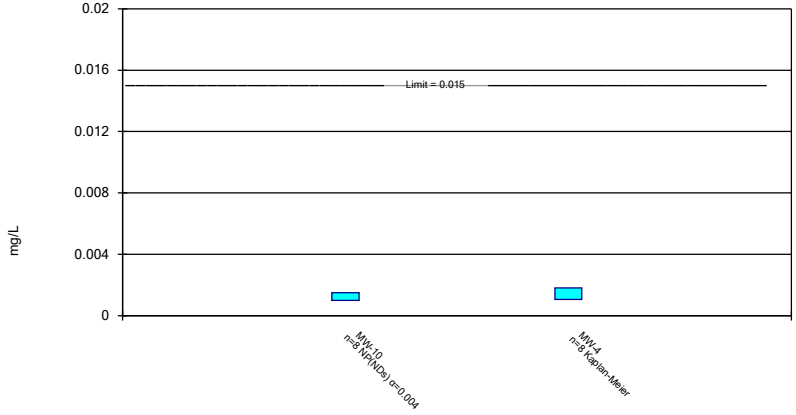
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride, total Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

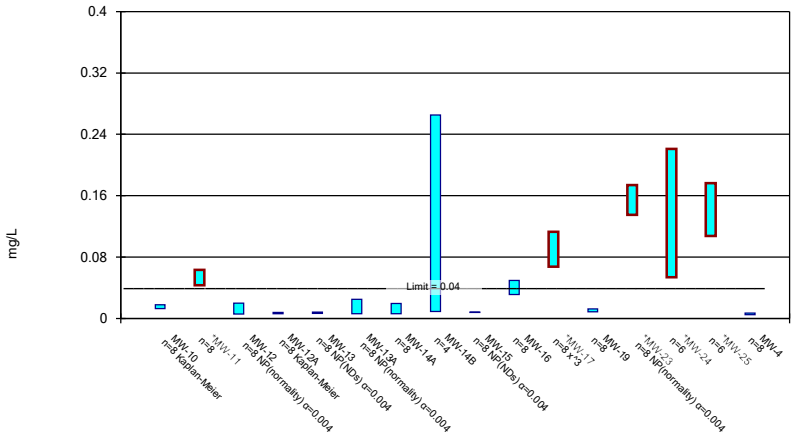
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lead Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

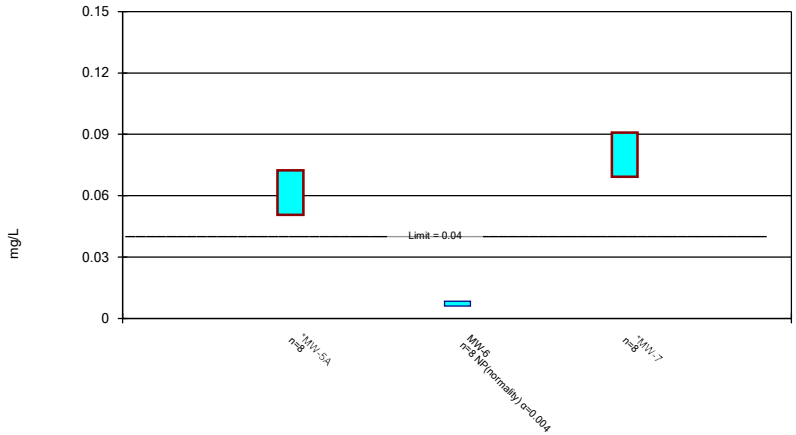
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Parametric and Non-Parametric (NP) Confidence Interval

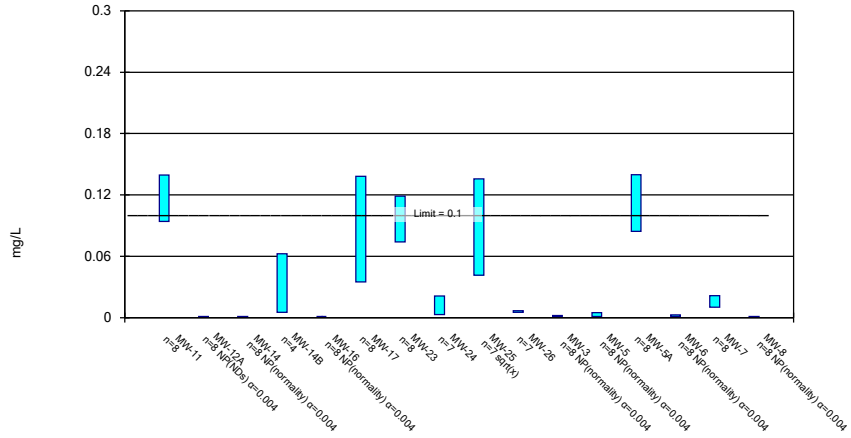
Compliance limit is exceeded.* Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/6/2023 2:53 PM 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 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

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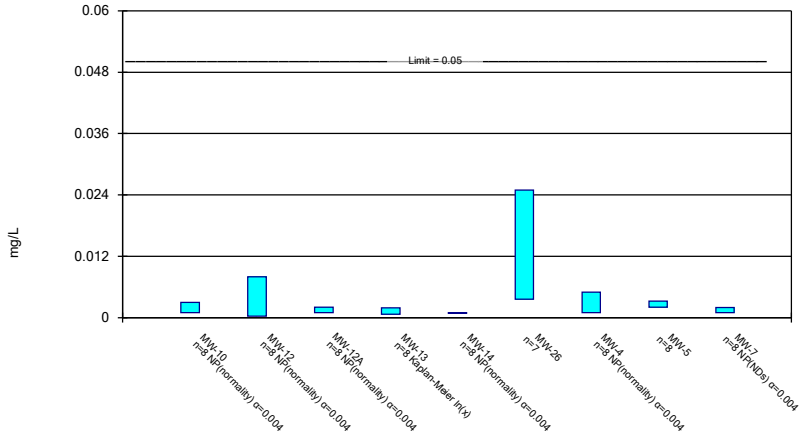
Parametric and Non-Parametric (NP) Confidence Interval

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 6/6/2023 2:53 PM View: Confidence Intervals APP IV
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/6/2023 2:55 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-11	MW-12A	MW-13	MW-13A	MW-14	MW-14A	MW-14B	MW-16	MW-17
5/23/2017					0.0013				
4/17/2018					0.017				
4/9/2019			0.00082 (J)						
4/10/2019					0.017				
9/23/2019			<0.001						
9/26/2019	<0.005	<0.001				0.00416			
3/23/2020						0.00593		0.00379	
3/24/2020		<0.001			0.00726				
3/25/2020	0.00301		0.00271	0.0132					0.0542
6/22/2020								0.0037	
6/23/2020				0.0134					0.0426
6/24/2020									
9/21/2020				0.0105					
9/22/2020								0.0071	0.0241
9/23/2020									
9/24/2020	0.0036	<0.001				0.0077			
4/19/2021			0.0021	0.0092					0.0448
4/20/2021	0.0028							0.0025	
4/21/2021		<0.001							
4/22/2021					0.0132	0.0106			
9/28/2021			0.0018	0.0103					0.0634
9/29/2021					0.0368	0.0117	0.001		
9/30/2021									
10/1/2021	0.0033	<0.001							
10/4/2021								0.0031	
10/5/2021									
4/25/2022		0.0597							
4/26/2022					0.0635		<0.001	0.0018	
4/27/2022	0.0025			0.0092					
5/2/2022			0.0017						
5/3/2022									0.0472
5/4/2022						0.0091			
10/11/2022									
10/12/2022						0.0054	0.0017	0.0039	0.0214
10/13/2022		<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	0.0028							0.0014	0.0569
4/13/2023					0.014	0.0067	0.001		
4/18/2023		<0.001							
Mean	0.002876	0.008338	0.002804	0.01013	0.02126	0.007661	0.001175	0.003411	0.04433
Std. Dev.	0.0004067	0.02075	0.002951	0.002246	0.01991	0.002627	0.00035	0.001758	0.01496
Upper Lim.	0.003307	0.0597	0.005315	0.01251	0.04065	0.01045	0.0017	0.005275	0.06018
Lower Lim.	0.002445	0.001	0.0005603	0.007744	0.003989	0.004877	0.001	0.001548	0.02847

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/6/2023 2:55 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-18	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25
5/23/2017							
4/17/2018							
4/9/2019							
4/10/2019							
9/23/2019							
9/26/2019							
3/23/2020				0.00515	0.305		
3/24/2020							
3/25/2020	0.00443	0.0377	0.00574				
6/22/2020							
6/23/2020	0.0015	0.0381		0.0046			
6/24/2020			0.0051		0.244	0.0017	0.0023
9/21/2020		0.0446		0.0051			
9/22/2020	<0.001		0.0071			0.0027	
9/23/2020							<0.01
9/24/2020					0.189		
4/19/2021	0.0067						
4/20/2021		0.0289		0.0044			
4/21/2021			0.0145			0.0013	
4/22/2021					0.324		0.0217
9/28/2021						0.0013	
9/29/2021	<0.001						
9/30/2021				0.006			
10/1/2021					0.254		
10/4/2021		0.0294	0.0083				
10/5/2021							0.0071
4/25/2022							
4/26/2022	0.0031						
4/27/2022							
5/2/2022				0.0057			
5/3/2022			0.0134			0.0023	
5/4/2022		0.0282			0.241		0.0122
10/11/2022		0.0244					
10/12/2022	<0.001						
10/13/2022			0.0055	0.004			<0.01
10/17/2022							
10/18/2022					0.117	<0.01	
4/10/2023							
4/11/2023		0.0259	0.0055				
4/12/2023	0.0109			0.0024			
4/13/2023						0.0033	0.0146
4/18/2023					0.186		
Mean	0.003704	0.03215	0.008143	0.004669	0.2325	0.002514	0.01113
Std. Dev.	0.003555	0.007112	0.003745	0.001129	0.06728	0.001322	0.006078
Upper Lim.	0.006771	0.03969	0.0145	0.005866	0.3038	0.004085	0.01735
Lower Lim.	0.0007975	0.02461	0.0051	0.003472	0.1612	0.0009438	0.001874

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/6/2023 2:55 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-26	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
5/24/2017			0.0082					
4/18/2018			0.013					
4/9/2019			0.022					
9/24/2019		<0.005						<0.01
9/25/2019					0.0229	<0.001		
9/26/2019				0.00212			0.0437	
3/23/2020			0.0242	0.00384				
3/26/2020		0.00612			0.00156	<0.001	0.00815	0.00114
6/24/2020	<0.001							
9/22/2020				0.0019				
9/23/2020		0.0017			0.0205	<0.001	0.0396	0.0016
9/24/2020	<0.001							
4/19/2021			0.0205	0.0036				
4/20/2021						<0.001		
4/21/2021		<0.005			<0.001		0.0157	<0.01
4/22/2021	<0.001							
9/28/2021		0.0034	0.0779	0.0044				
9/29/2021						<0.001		
9/30/2021					<0.001		0.0097	0.0015
10/5/2021	0.0012							
4/25/2022								<0.01
4/26/2022			0.0508	0.0036				
4/27/2022					<0.001		0.0196	
5/3/2022		<0.005				<0.001		
5/4/2022	0.0014							
10/11/2022		0.0012						<0.01
10/12/2022				0.002				
10/17/2022					0.0217	0.001	0.0316	
10/18/2022	<0.001							
4/10/2023		0.0212						
4/11/2023								0.0011
4/12/2023					<0.001	<0.001	0.0125	
4/18/2023	0.0011		0.0197	0.0037				
Mean	0.0011	0.006077	0.02954	0.003145	0.008833	0.001	0.02257	0.005667
Std. Dev.	0.0001528	0.00635	0.02325	0.0009777	0.01068	1.7E-11	0.01388	0.004635
Upper Lim.	0.0014	0.009011	0.05148	0.004122	0.0229	0.001	0.03728	0.01
Lower Lim.	0.001	0.0008525	0.009453	0.002114	0.001	0.001	0.007854	0.0011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium, Total (mg/L) Analysis Run 6/6/2023 2:55 PM 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	MW-14B
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				
9/26/2019	0.0289	0.0494		0.0283				0.0527	
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			
6/22/2020									
6/23/2020						0.187			
6/24/2020									
9/21/2020						0.191			
9/22/2020									
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	0.172
9/30/2021	0.024								
10/1/2021		0.028	0.026	0.027					
10/4/2021									
4/25/2022			0.029	0.274					
4/26/2022							0.282		0.089
4/27/2022	0.023	0.027				0.182			
5/2/2022					0.095				
5/3/2022									
5/4/2022								0.075	
10/11/2022									
10/12/2022								0.061	0.179
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	0.069
4/18/2023			0.035	0.028					
Mean	0.02785	0.03364	0.03178	0.06249	0.08994	0.1785	0.204	0.06474	0.1273
Std. Dev.	0.003172	0.007852	0.004029	0.08556	0.01361	0.01582	0.06844	0.01131	0.05638
Upper Lim.	0.03121	0.04196	0.03605	0.274	0.1044	0.1953	0.2765	0.07672	0.2553
Lower Lim.	0.02449	0.02531	0.0275	0.027	0.07551	0.1617	0.1315	0.05275	-0.0007566

Confidence Interval

Constituent: Barium, Total (mg/L) Analysis Run 6/6/2023 2:55 PM 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
5/23/2017							
5/25/2017							
4/17/2018							
4/19/2018							
4/9/2019							
4/10/2019							
9/23/2019							
9/26/2019							
3/23/2020	0.0579	0.129					
3/24/2020							
3/25/2020			0.0716	0.271	0.0637	0.14	0.111
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
9/23/2020							
9/24/2020							
4/19/2021			0.057	0.273			
4/20/2021	0.066	0.136			0.05	0.133	
4/21/2021							0.13
4/22/2021							
9/28/2021			0.061		0.063		
9/29/2021				0.115			
9/30/2021							
10/1/2021							
10/4/2021	0.059	0.158				0.12	0.08
4/25/2022							
4/26/2022	0.061	0.13		0.228	0.066		
4/27/2022							
5/2/2022							
5/3/2022			0.058				0.109
5/4/2022						0.13	
10/11/2022						0.085	
10/12/2022	0.048	0.156	0.158	0.14			
10/13/2022							0.11
10/17/2022							
10/18/2022					0.072		
4/10/2023							
4/11/2023						0.122	0.09
4/12/2023	0.048	0.092	0.054	0.186			
4/13/2023					0.052		
4/18/2023							
Mean	0.05736	0.1475	0.08845	0.1915	0.06121	0.1294	0.1058
Std. Dev.	0.006412	0.03997	0.04322	0.06195	0.007289	0.0229	0.01504
Upper Lim.	0.06416	0.1899	0.158	0.2572	0.06894	0.1537	0.1217
Lower Lim.	0.05057	0.1051	0.054	0.1258	0.05349	0.1051	0.08981

Confidence Interval

Constituent: Barium, Total (mg/L) Analysis Run 6/6/2023 2:56 PM 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	MW-5A
5/24/2017								0.22	
4/18/2018								0.26	
4/9/2019								0.36	
9/24/2019							0.0444		
9/25/2019									
9/26/2019									0.111
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				
4/25/2022									
4/26/2022								0.309	0.096
4/27/2022									
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					
10/17/2022									
10/18/2022		0.041	0.162		0.116				
4/10/2023						0.092	0.05		
4/11/2023									
4/12/2023	0.139								
4/13/2023			0.121	0.036					
4/18/2023		0.042			0.096			0.172	0.078
Mean	0.1441	0.05779	0.105	0.04686	0.115	0.1077	0.03631	0.2745	0.09438
Std. Dev.	0.009523	0.0117	0.042	0.006842	0.02347	0.0153	0.008294	0.09093	0.01023
Upper Lim.	0.1542	0.07019	0.1549	0.05498	0.1429	0.1239	0.0451	0.3709	0.1052
Lower Lim.	0.134	0.04539	0.05511	0.03873	0.08713	0.09147	0.02752	0.1781	0.08354

Confidence Interval

Constituent: Barium, Total (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9
5/24/2017				
4/18/2018				
4/9/2019				
9/24/2019				0.0881
9/25/2019	0.0962	0.0748		
9/26/2019			0.0856	
3/23/2020				
3/26/2020	0.0536	0.0917	0.0703	0.0712
6/23/2020				
6/24/2020				
9/21/2020				
9/22/2020				
9/23/2020	0.092	0.093	0.093	0.081
9/24/2020				
4/19/2021				
4/20/2021		0.093		
4/21/2021	0.048		0.095	0.081
4/22/2021				
9/28/2021				
9/29/2021		0.08		
9/30/2021	0.054		0.089	0.063
10/1/2021				
10/5/2021				
4/25/2022				0.066
4/26/2022				
4/27/2022	0.041		0.125	
5/2/2022				
5/3/2022		0.087		
5/4/2022				
10/11/2022				0.055
10/12/2022				
10/13/2022				
10/17/2022	0.099	0.074	0.109	
10/18/2022				
4/10/2023				
4/11/2023				0.049
4/12/2023	0.045	0.084	0.072	
4/13/2023				
4/18/2023				
Mean	0.0661	0.08469	0.09236	0.06929
Std. Dev.	0.02497	0.007812	0.01816	0.01362
Upper Lim.	0.099	0.09297	0.1116	0.08372
Lower Lim.	0.041	0.07641	0.07312	0.05485

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-4
9/24/2019		0.00555
9/26/2019	<0.001	
3/25/2020	0.00107	
3/26/2020		0.00528
9/23/2020	<0.001	0.0053
4/20/2021	0.0015	
4/21/2021		0.0044
9/28/2021		0.0044
9/30/2021	<0.001	
4/27/2022	<0.001	
5/3/2022		0.0046
10/11/2022		0.0054
10/13/2022	<0.001	
4/10/2023		0.0033
4/12/2023	<0.001	
Mean	0.001071	0.004779
Std. Dev.	0.000175	0.0007568
Upper Lim.	0.0015	0.005581
Lower Lim.	0.001	0.003977

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-14A
9/26/2019	<0.001	0.00715
3/23/2020		<0.001
3/25/2020	0.00149	
9/23/2020	<0.001	
9/24/2020		<0.001
4/20/2021	0.0018	
4/22/2021		<0.001
9/29/2021		<0.001
9/30/2021	<0.001	
4/27/2022	0.0015	
5/4/2022		<0.001
10/12/2022		<0.001
10/13/2022	<0.001	
4/12/2023	<0.001	
4/13/2023		<0.001
Mean	0.001224	0.001769
Std. Dev.	0.0003228	0.002174
Upper Lim.	0.0018	0.00715
Lower Lim.	0.001	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/6/2023 2:56 PM 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	MW-18
5/25/2017			0.0023 (J)						
4/19/2018			<0.001						
4/9/2019			<0.001		<0.001				
9/23/2019					<0.001				
9/26/2019	<0.001	<0.001		0.00117					
3/23/2020							0.00131	0.00123	
3/24/2020			<0.001	<0.001					
3/25/2020	<0.001	<0.001			0.00116	<0.001			0.00107
3/26/2020									
6/22/2020							<0.001	<0.001	
6/23/2020						<0.001			0.001
6/24/2020									
9/21/2020						<0.001	0.002		
9/22/2020								<0.001	<0.001
9/23/2020	0.004								
9/24/2020		0.002		0.002					
4/19/2021					<0.001	<0.001			<0.001
4/20/2021	<0.001	<0.001					0.001	<0.001	
4/21/2021			0.001	<0.001					
4/22/2021									
9/28/2021					<0.001	<0.001			
9/29/2021									<0.001
9/30/2021	<0.001								
10/1/2021		<0.001	0.001	0.001					
10/4/2021							<0.001	<0.001	
10/5/2021									
4/25/2022			0.001	<0.001					
4/26/2022							<0.001	<0.001	<0.001
4/27/2022	<0.001	<0.001				0.001			
5/2/2022					<0.001				
5/3/2022									
5/4/2022									
10/11/2022									
10/12/2022							<0.001	<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	<0.001
4/13/2023									
4/18/2023			0.001	<0.001					
Mean	0.001375	0.001125	0.001163	0.001146	0.00102	0.001	0.001164	0.001029	0.001009
Std. Dev.	0.001061	0.0003536	0.0004596	0.0003501	5.657E-05	1.7E-11	0.0003549	8.132E-05	2.475E-05
Upper Lim.	0.004	0.002	0.0023	0.002	0.00116	0.001	0.002	0.00123	0.00107
Lower Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-19	MW-20	MW-21	MW-24	MW-25	MW-26	MW-3
5/25/2017							
4/19/2018							
4/9/2019							
9/23/2019							
9/26/2019							
3/23/2020							
3/24/2020							
3/25/2020	0.0011	<0.001	0.0013				
3/26/2020							0.00111
6/22/2020							
6/23/2020	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
9/23/2020					<0.001		
9/24/2020						<0.001	
4/19/2021							
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
9/30/2021							
10/1/2021							
10/4/2021		<0.001	0.001				
10/5/2021					<0.001	0.001	
4/25/2022							
4/26/2022	<0.001						
4/27/2022							
5/2/2022							
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							
10/13/2022			0.001		<0.001		
10/17/2022							
10/18/2022	<0.001			<0.001		<0.001	
4/10/2023							<0.001
4/11/2023		<0.001	<0.001				
4/12/2023							
4/13/2023	<0.001			<0.001	<0.001		
4/18/2023						0.001	
Mean	0.001013	0.001	0.001038	0.001143	0.001	0.001	0.001014
Std. Dev.	3.536E-05	1.7E-11	0.0001061	0.000378	1.8E-11	2.3E-11	3.889E-05
Upper Lim.	0.0011	0.001	0.0013	0.002	0.001	0.001	0.00111
Lower Lim.	0.001	0.001	0.001	0.001	0.001	0.001	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-12A	MW-13A	MW-14	MW-14A	MW-15	MW-16	MW-17	MW-18
5/23/2017				0.14					
4/17/2018				0.055					
4/10/2019				0.043					
9/26/2019	0.00378	0.00319			0.111				
3/23/2020					0.057	0.00172	0.0173		
3/24/2020		0.00451		0.0522					
3/25/2020	0.00673		0.0133					0.0207	0.00407
6/22/2020						0.004	0.015		
6/23/2020			0.012					0.016	<0.001
6/24/2020									
9/21/2020			0.01			<0.001			
9/22/2020							0.022	0.021	<0.001
9/23/2020	0.004								
9/24/2020		<0.001			0.083				
4/19/2021			0.01					0.016	0.002
4/20/2021	0.006					<0.001	0.012		
4/21/2021		0.001							
4/22/2021				0.025	0.036				
9/28/2021			0.011					0.015	
9/29/2021				0.014	0.039				<0.001
9/30/2021	0.003								
10/1/2021		<0.001							
10/4/2021						0.001	0.016		
10/5/2021									
4/25/2022		0.013							
4/26/2022				0.014		<0.001	0.011		0.001
4/27/2022	0.006		0.011						
5/2/2022									
5/3/2022								0.017	
5/4/2022					0.048				
10/11/2022									
10/12/2022					0.042	0.001	0.016	0.03	<0.001
10/13/2022	0.003	0.001							
10/17/2022			0.012						
10/18/2022									
4/11/2023			0.011						
4/12/2023	0.004					<0.001	0.006	0.016	<0.001
4/13/2023				0.059	0.035				
4/18/2023		<0.001							
Mean	0.004564	0.003213	0.01129	0.05028	0.05638	0.001465	0.01441	0.01896	0.001509
Std. Dev.	0.001462	0.004174	0.00111	0.04049	0.02711	0.001055	0.004774	0.004998	0.001092
Upper Lim.	0.006113	0.013	0.01246	0.08909	0.08221	0.004	0.01947	0.03	0.00407
Lower Lim.	0.003014	0.001	0.01011	0.0149	0.03199	0.001	0.009352	0.015	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-19	MW-20	MW-21	MW-22	MW-23	MW-24	MW-25
5/23/2017							
4/17/2018							
4/10/2019							
9/26/2019							
3/23/2020				0.00235	0.0112		
3/24/2020							
3/25/2020	0.00503	0.00384	0.00464				
6/22/2020							
6/23/2020	0.005	0.006		0.003			
6/24/2020			0.005		0.011	<0.001	0.021
9/21/2020		<0.001		0.002			
9/22/2020	0.006		<0.001			0.003	
9/23/2020							0.018
9/24/2020					0.009		
4/19/2021							
4/20/2021	0.001	<0.001		0.003			
4/21/2021			0.003			0.005	
4/22/2021					0.014		<0.001
9/28/2021	0.001					<0.001	
9/29/2021							
9/30/2021				0.003			
10/1/2021					0.011		
10/4/2021		0.006	0.005				
10/5/2021							0.003
4/25/2022							
4/26/2022	0.001						
4/27/2022							
5/2/2022				0.002			
5/3/2022			0.004			0.002	
5/4/2022		0.005			0.016		0.001
10/11/2022		<0.001					
10/12/2022							
10/13/2022			<0.001	0.001			0.011
10/17/2022							
10/18/2022	<0.001				<0.001	<0.001	
4/11/2023		0.003	0.001				
4/12/2023				<0.001			
4/13/2023	0.001					0.004	0.001
4/18/2023					<0.001		
Mean	0.002566	0.003355	0.00308	0.002106	0.009275	0.002429	0.007929
Std. Dev.	0.002326	0.002194	0.001838	0.0009473	0.005532	0.001618	0.008729
Upper Lim.	0.006	0.006	0.005	0.00311	0.01429	0.004208	0.01868
Lower Lim.	0.0005	0.001	0.001	0.001102	0.002431	0.0006489	0.0001726

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-3	MW-4	MW-5	MW-5A	MW-6	MW-7	MW-8
5/24/2017			0.031				
4/18/2018			0.03				
4/9/2019			0.016				
9/24/2019		0.856					
9/25/2019					0.0105	0.00317	
9/26/2019				0.0275			<0.001
3/23/2020			0.0154	0.0133			
3/26/2020	0.0263	0.819			0.00254	<0.001	0.00223
6/23/2020	0.028						
9/22/2020	0.03			0.013			
9/23/2020		0.868			0.011	0.001	<0.001
4/19/2021			0.017	0.012			
4/20/2021						<0.001	
4/21/2021		0.892			<0.001		0.002
4/22/2021	0.019						
9/28/2021		0.816	0.018	0.013			
9/29/2021	0.026					0.001	
9/30/2021					0.002		0.002
4/26/2022			0.023	0.015			
4/27/2022					<0.001		0.001
5/3/2022	0.021	0.87				0.001	
10/11/2022	0.03	0.982					
10/12/2022				0.014			
10/17/2022					0.014	<0.001	<0.001
4/10/2023	0.021	0.58					
4/12/2023					0.001	<0.001	<0.001
4/18/2023			0.013	0.014			
Mean	0.02516	0.8354	0.02043	0.01523	0.005255	0.001271	0.001404
Std. Dev.	0.004301	0.1154	0.006842	0.005039	0.005584	0.0007672	0.0005617
Upper Lim.	0.02972	0.9472	0.02768	0.0275	0.01013	0.00317	0.00223
Lower Lim.	0.0206	0.7223	0.01317	0.012	0.000853	0.001	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/6/2023 2:56 PM 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	MW-14B
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				
4/16/2020								1.19	
4/17/2020	0.275	1.19	0.0635	0.565	0.478		1.02		
7/20/2020						0.866 (U)			
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	
5/20/2021									
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	
10/27/2021									0.996
10/28/2021									
4/25/2022			0.604 (U)	0.258 (U)			0.559 (U)		
4/26/2022									0.841 (U)
4/27/2022	0.526 (U)	0.313 (U)				0.701 (U)			
5/2/2022					1.15				
5/3/2022									
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)	1.84
5/3/2023									
5/4/2023	0.983 (U)	1.86			1.24	1.23 (U)	0.331 (U)	1.32	1.33 (U)
5/11/2023			0.405 (U)	1.42 (U)					
Mean	0.4216	0.906	0.5506	0.5679	0.9214	1.027	1.138	0.7205	1.252
Std. Dev.	0.2738	0.6107	0.4628	0.542	0.5275	0.403	0.63	0.3774	0.4421
Upper Lim.	0.7118	1.553	1.041	1.1	1.481	1.454	1.806	1.121	2.255
Lower Lim.	0.1313	0.2587	0.05997	0.09618	0.3623	0.5994	0.4704	0.3205	0.2481

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/6/2023 2:56 PM 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
4/17/2018							
4/19/2018							
4/9/2019							
4/10/2019							
10/15/2019							
4/16/2020							
4/17/2020							
7/20/2020	0.623 (U)	1.2 (U)	1.24 (U)	0.918 (U)	0.771 (U)	1.33 (U)	
10/19/2020	1.28 (U)	2.2	1.01 (U)	0.228 (U)	0.523 (U)	1.03 (U)	0.476 (U)
5/17/2021							
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)	
10/22/2021							
10/27/2021			0.668	0.85	0.849		
10/28/2021	0.401	0.585				0.89	0.414
4/25/2022							
4/26/2022	0.445 (U)	0.923 (U)		0.676 (U)	0.323 (U)		
4/27/2022							
5/2/2022							
5/3/2022			0.678 (U)			0.85 (U)	0.696 (U)
5/4/2022							
11/10/2022					0.0626 (U)		
11/11/2022	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	0.691 (U)	0.986 (U)	0.0709 (U)	0.809 (U)	0.597 (U)		
5/11/2023							
Mean	0.7266	0.9611	0.584	0.5468	0.4113	0.8259	0.4814
Std. Dev.	0.2792	0.5991	0.4973	0.294	0.3203	0.4643	0.2834
Upper Lim.	1.023	1.596	1.111	0.918	0.7508	1.318	0.7211
Lower Lim.	0.4307	0.3261	0.05693	0.228	0.0718	0.3338	0.2897

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/6/2023 2:56 PM 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	MW-5A
4/18/2018								0.652	
4/9/2019								1.02	
4/16/2020								0.756	1.04
4/17/2020							0.901		
7/20/2020	0.591 (U)		1.03 (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)
4/27/2022									
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)
11/15/2022									
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
Mean	0.7128	1.073	1.082	1.007	0.6581	0.6668	0.968	1.032	2.136
Std. Dev.	0.3758	0.6266	0.2842	0.6557	0.3387	0.3276	0.3569	0.345	3.723
Upper Lim.	1.111	1.737	1.383	1.702	1.017	1.014	1.346	1.397	3.377
Lower Lim.	0.3145	0.4084	0.7809	0.3122	0.2991	0.3196	0.5897	0.666	0.3011

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-6	MW-7	MW-8	MW-9
4/18/2018				
4/9/2019				
4/16/2020				
4/17/2020	0.236	1.12	0.732	
7/20/2020				
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
5/24/2021				
10/22/2021	0.584	10.9	0.92	2.3
10/27/2021				
10/28/2021				
4/26/2022				
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)	
5/3/2023				
5/4/2023	0.707 (U)	1.31 (U)	0.31 (U)	1.36 (U)
5/11/2023				
Mean	0.4501	2.082	0.5784	1.265
Std. Dev.	0.1815	3.579	0.3358	0.5251
Upper Lim.	0.6425	10.9	0.9343	1.821
Lower Lim.	0.2577	0.447	0.2225	0.7082

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-11	MW-13	MW-14	MW-14A	MW-16	MW-17	MW-18	MW-20
5/23/2017				0.06 (J)					
4/17/2018				0.15					
4/9/2019			0.1						
4/10/2019				0.19					
9/23/2019			0.132						
9/24/2019									
9/26/2019	<0.125	1.93			<0.125				
3/23/2020					<0.125	0.199			
3/24/2020				0.194					
3/25/2020	0.236	1.72	0.152				1.21	0.129	0.158
3/26/2020									
6/22/2020						<0.125			
6/23/2020							1.32	<0.125	<0.125
6/24/2020									
9/21/2020									0.147
9/22/2020						<0.125	0.322	<0.125	
9/23/2020	<0.125								
9/24/2020		1.94			<0.125				
4/19/2021			<0.125				1.37	0.138	
4/20/2021	<0.125	1.9				<0.125			0.164
4/21/2021									
4/22/2021				<0.125	<0.125				
9/28/2021			0.203				1.96		
9/29/2021				0.178	0.136			0.143	
9/30/2021	<0.125								
10/1/2021		2.24							
10/4/2021						<0.125			<0.125
10/5/2021									
4/26/2022				0.186		<0.125		0.146	
4/27/2022	0.282	2.01							
5/2/2022			<0.125						
5/3/2022							1.69		
5/4/2022					<0.125				<0.125
10/11/2022									0.182
10/12/2022					<0.125	<0.125	0.472	<0.125	
10/13/2022	<0.125								
10/17/2022		2.03							
10/18/2022			<0.125						
4/10/2023			0.13						
4/11/2023									<0.125
4/12/2023	<0.125	1.74				<0.125	1.43	<0.125	
4/13/2023				<0.125	<0.125				
4/18/2023									
Mean	0.1585	1.939	0.1365	0.151	0.1264	0.1343	1.222	0.132	0.1439
Std. Dev.	0.06324	0.1661	0.03036	0.04623	0.003889	0.02616	0.562	0.008928	0.02234
Upper Lim.	0.282	2.115	0.1607	0.1975	0.136	0.199	1.817	0.146	0.182
Lower Lim.	0.125	1.763	0.09404	0.07198	0.125	0.125	0.626	0.125	0.125

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-21	MW-22	MW-23	MW-24	MW-25	MW-26	MW-4
5/23/2017							
4/17/2018							
4/9/2019							
4/10/2019							
9/23/2019							
9/24/2019							1.03
9/26/2019							
3/23/2020		0.246	1.43				
3/24/2020							
3/25/2020	0.169						
3/26/2020							0.288
6/22/2020							
6/23/2020		<0.125					
6/24/2020	<1.25		1.12	0.345	0.576	0.144	
9/21/2020		<0.125					
9/22/2020	0.127			0.969			
9/23/2020					0.72		0.43
9/24/2020			1.76			0.17	
4/19/2021							
4/20/2021		<0.125					
4/21/2021	0.163			0.713			0.549
4/22/2021			1.69		1.05	0.173	
9/28/2021				1.31			0.665
9/29/2021							
9/30/2021		<0.125					
10/1/2021			2.29				
10/4/2021	<1.25						
10/5/2021					0.759	<0.125	
4/26/2022							
4/27/2022							
5/2/2022		<0.125					
5/3/2022	<1.25			0.884			0.43
5/4/2022			2.21		0.337	<0.125	
10/11/2022							0.738
10/12/2022							
10/13/2022	<1.25	<0.125			0.563		
10/17/2022							
10/18/2022			2.48	0.321		0.142	
4/10/2023							0.4
4/11/2023	<1.25						
4/12/2023		<0.125					
4/13/2023				1.11	0.719		
4/18/2023			2.02			0.144	
Mean	0.8386	0.1401	1.875	0.8074	0.6749	0.1461	0.5663
Std. Dev.	0.5679	0.04278	0.4609	0.3732	0.2192	0.0192	0.2381
Upper Lim.	1.25	0.246	2.364	1.251	0.9352	0.1666	0.8186
Lower Lim.	0.127	0.125	1.386	0.3642	0.4145	0.1219	0.3139

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-5	MW-5A	MW-6	MW-7	MW-8	MW-9
5/24/2017	0.08 (J)					
4/18/2018	0.11					
4/9/2019	0.18					
9/24/2019						<0.125
9/25/2019			0.324	2.43		
9/26/2019		1.92			0.183	
3/23/2020	0.336	1.27				
3/26/2020			<0.125	1.37	0.38	<0.125
9/22/2020		1.33				
9/23/2020			0.237	1.92	0.233	<0.125
4/19/2021	<1.25	1.13				
4/20/2021				1.06		
4/21/2021			<0.125		0.229	0.158
9/28/2021	0.193	1.86				
9/29/2021				2.23		
9/30/2021			<0.125		0.267	<0.125
4/25/2022						<0.125
4/26/2022	<1.25	1.45				
4/27/2022			<0.125		0.291	
5/3/2022				2.11		
10/11/2022						0.139
10/12/2022		1.57				
10/17/2022			<0.125	2.58	<0.5	
4/11/2023						0.14
4/12/2023			<0.125	1.98	0.225	
4/18/2023	<1.25	1.27				
Mean	0.5811	1.475	0.1639	1.96	0.2573	0.1328
Std. Dev.	0.5589	0.2878	0.07564	0.5156	0.05891	0.01213
Upper Lim.	0.269	1.78	0.324	2.506	0.3197	0.158
Lower Lim.	0.09439	1.17	0.125	1.414	0.1948	0.125

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-4
9/24/2019		<0.001
9/26/2019	<0.001	
3/25/2020	<0.001	
3/26/2020		0.00178
9/23/2020	0.0015	0.0018
4/20/2021	<0.001	
4/21/2021		0.0019
9/28/2021		<0.001
9/30/2021	<0.001	
4/27/2022	<0.001	
5/3/2022		0.0016
10/11/2022		0.0011
10/13/2022	<0.001	
4/10/2023		0.0013
4/12/2023	<0.001	
Mean	0.001063	0.00131
Std. Dev.	0.0001768	0.0005669
Upper Lim.	0.0015	0.001811
Lower Lim.	0.001	0.001059

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/6/2023 2:56 PM 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-14A	MW-14B	MW-15
4/19/2018			0.02						
4/9/2019			0.0074						
4/18/2019			0.0074		<0.008		0.026		
10/12/2019				0.0087			0.0177		
10/17/2019					<0.008				
2/13/2020									<0.008
4/3/2020	<0.025	0.0668	0.00916	<0.008	<0.008				
4/17/2020			0.00916				0.0136		0.00756
4/20/2020	<0.025	0.0668		<0.008	<0.008	<0.025			
7/7/2020						0.00643			
7/8/2020									<0.008
10/15/2020									
10/16/2020	0.0155	0.0543		0.00761		0.0066	0.0103		<0.008
10/22/2020									
5/11/2021	0.0187	0.0499				0.00673			
9/28/2021					<0.008	0.0062			
9/29/2021							0.00884	0.194	
9/30/2021	0.0113								
10/1/2021		0.0521	<0.008	0.00683					
10/4/2021									<0.008
10/5/2021									
4/25/2022			0.00549	0.00621					
4/26/2022								0.0939	<0.008
4/27/2022	0.0161	0.0419				0.00624			
5/2/2022					<0.008				
5/3/2022									
5/4/2022							0.00693		
11/8/2022	0.0141	0.0516		0.00618	<0.008	0.00762	0.00679	0.177	<0.008
4/28/2023	0.016	0.043	<0.008	<0.008	<0.008	0.00949	0.0118	0.0834	<0.008
Mean	0.01459	0.0533	0.009326	0.007441	0.008	0.009289	0.01275	0.1371	0.007945
Std. Dev.	0.002443	0.009392	0.004466	0.0009281	0	0.006442	0.006463	0.05651	0.0001556
Upper Lim.	0.01766	0.06325	0.02	0.007863	0.008	0.025	0.0196	0.2654	0.008
Lower Lim.	0.01291	0.04335	0.00549	0.006051	0.008	0.0062	0.005895	0.008781	0.00756

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-16	MW-17	MW-19	MW-23	MW-24	MW-25	MW-4
4/19/2018							
4/9/2019							
4/18/2019							
10/12/2019							
10/17/2019							0.0071
2/13/2020				0.168			
4/3/2020							0.00597
4/17/2020	0.0371			0.135			0.00597
4/20/2020		0.115	<0.025				
7/7/2020							
7/8/2020	0.0429	0.107	0.00835	0.174	0.251	0.15	
10/15/2020							0.0068
10/16/2020	0.0287	0.0469					
10/22/2020			0.0102	0.169	0.143	0.185	
5/11/2021	0.0526	0.109	0.0103				
9/28/2021		0.103	0.00914		0.114		0.00517
9/29/2021							
9/30/2021							
10/1/2021				0.173			
10/4/2021	0.0519						
10/5/2021						0.12	
4/25/2022							
4/26/2022	0.0405		0.00874				
4/27/2022							
5/2/2022							
5/3/2022		0.0877			0.136		0.0054
5/4/2022				0.145		0.12	
11/8/2022	0.0334	0.047	0.00994	0.136	0.105	0.149	0.00649
4/28/2023	0.0344	0.0992	0.0134	0.165	0.0744	0.127	<0.008
Mean	0.04019	0.08935	0.01032	0.1581	0.1372	0.1418	0.005863
Std. Dev.	0.008617	0.02735	0.00178	0.01662	0.06083	0.02512	0.0009993
Upper Lim.	0.04932	0.113	0.01221	0.174	0.2208	0.1763	0.006922
Lower Lim.	0.03105	0.06744	0.008435	0.135	0.05366	0.1073	0.004803

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-5A	MW-6	MW-7
10/23/2019	0.0813	0.00832	
4/3/2020		<0.008	0.0727
4/17/2020	0.0671	<0.008	0.0727
10/15/2020	0.0488	0.00614	0.0982
5/11/2021	0.0626		0.0681
9/28/2021	0.0663		
9/29/2021			0.0891
9/30/2021		<0.008	
4/26/2022	0.0561		
4/27/2022		<0.008	
5/3/2022			0.0752
11/8/2022	0.0569	0.00603	0.0863
4/28/2023	0.053	<0.008	0.0784
Mean	0.06151	0.007561	0.08009
Std. Dev.	0.01022	0.0009183	0.01019
Upper Lim.	0.07235	0.00832	0.09089
Lower Lim.	0.05068	0.00603	0.06928

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-11	MW-12A	MW-14	MW-14B	MW-16	MW-17	MW-23	MW-24	MW-25
5/23/2017			<0.001						
5/24/2017									
4/17/2018			<0.001						
4/18/2018									
4/9/2019									
4/10/2019			<0.001						
9/25/2019									
9/26/2019	0.139	<0.001							
3/23/2020					0.00113		0.0845		
3/24/2020		<0.001	<0.001						
3/25/2020	0.141					0.0871			
3/26/2020									
6/22/2020					0.001				
6/23/2020						0.124			
6/24/2020							0.077	0.009	0.051
9/22/2020					<0.001	0.012		0.02	
9/23/2020									0.182
9/24/2020	0.143	<0.001					0.093		
4/19/2021						0.109			
4/20/2021	0.109				0.001				
4/21/2021		<0.001						0.007	
4/22/2021			<0.001				0.076		0.078
9/28/2021						0.145		0.004	
9/29/2021			0.001	0.042					
9/30/2021									
10/1/2021	0.115	<0.001					0.102		
10/4/2021					0.001				
10/5/2021									0.047
4/25/2022		0.001							
4/26/2022			0.001	0.023	0.001				
4/27/2022	0.098								
5/3/2022						0.112		0.011	
5/4/2022							0.084		0.074
10/11/2022									
10/12/2022				0.047	<0.001	0.015			
10/13/2022		<0.001							0.076
10/17/2022	0.097								
10/18/2022							0.132	<0.05	
4/10/2023									
4/12/2023	0.092				<0.001	0.089			
4/13/2023			<0.001	0.023				0.008	0.093
4/18/2023		<0.001					0.123		
Mean	0.1168	0.001	0.001	0.03375	0.001016	0.08664	0.09644	0.012	0.08586
Std. Dev.	0.02135	1.7E-11	2.2E-11	0.01258	4.596E-05	0.04878	0.02106	0.007616	0.04531
Upper Lim.	0.1394	0.001	0.001	0.06231	0.00113	0.1383	0.1188	0.02105	0.1356
Lower Lim.	0.09412	0.001	0.001	0.00519	0.001	0.03494	0.07411	0.002954	0.0414

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-26	MW-3	MW-5	MW-5A	MW-6	MW-7	MW-8
5/23/2017							
5/24/2017			<0.005				
4/17/2018							
4/18/2018			<0.005				
4/9/2019			<0.005				
4/10/2019							
9/25/2019					0.00252	0.0199	
9/26/2019				0.141			<0.001
3/23/2020			<0.005	0.109			
3/24/2020							
3/25/2020							
3/26/2020		0.00139			<0.001	0.0108	<0.001
6/22/2020							
6/23/2020		<0.001					
6/24/2020	0.006						
9/22/2020		<0.001		0.096			
9/23/2020					0.002	0.016	<0.001
9/24/2020	0.007						
4/19/2021			<0.005	0.09			
4/20/2021						0.007	
4/21/2021					<0.001		<0.001
4/22/2021	0.005	0.002					
9/28/2021			<0.005	0.149			
9/29/2021		<0.001				0.021	
9/30/2021					<0.001		0.001
10/1/2021							
10/4/2021							
10/5/2021	0.006						
4/25/2022							
4/26/2022			0.001	0.09			
4/27/2022					<0.001		0.001
5/3/2022		<0.001				0.018	
5/4/2022	0.006						
10/11/2022		<0.001					
10/12/2022				0.136			
10/13/2022							
10/17/2022					0.002	0.022	<0.001
10/18/2022	0.005						
4/10/2023		<0.001					
4/12/2023					<0.001	0.012	<0.001
4/13/2023							
4/18/2023	0.006		0.001	0.085			
Mean	0.005857	0.001174	0.004	0.112	0.00144	0.01584	0.001
Std. Dev.	0.0006901	0.0003607	0.001852	0.02604	0.0006281	0.005399	2.2E-11
Upper Lim.	0.006677	0.002	0.005	0.1396	0.00252	0.02156	0.001
Lower Lim.	0.005037	0.001	0.001	0.0844	0.001	0.01011	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals APP IV

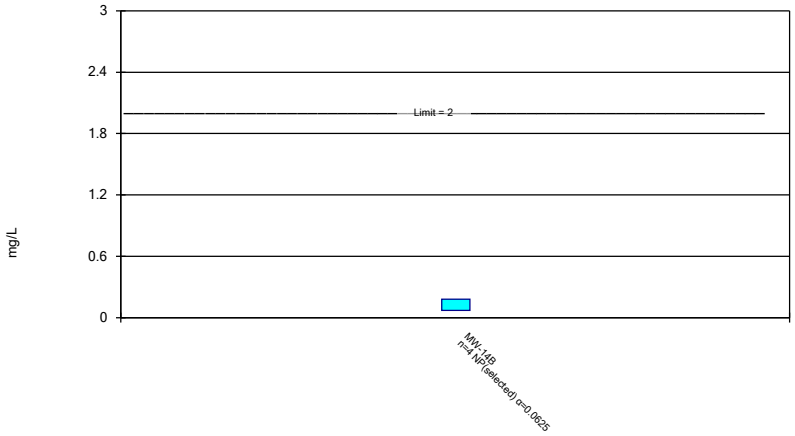
Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-10	MW-12	MW-12A	MW-13	MW-14	MW-26	MW-4	MW-5	MW-7
5/23/2017					<0.001				
5/24/2017								0.0021	
5/25/2017		<0.001							
4/17/2018					0.00085 (J)				
4/18/2018								0.0027	
4/19/2018		0.00027 (J)							
4/9/2019		<0.001		0.00076 (J)				0.0033	
4/10/2019					<0.001				
9/23/2019				<0.001					
9/24/2019							<0.001		
9/25/2019									<0.001
9/26/2019	0.00206		0.00206						
3/23/2020								0.00188	
3/24/2020		<0.001	<0.001		<0.001				
3/25/2020	0.00186			0.00145					
3/26/2020							<0.001		<0.001
6/24/2020						0.008			
9/23/2020	0.003						0.003		<0.001
9/24/2020			0.002			0.007			
4/19/2021				0.003				0.002	
4/20/2021	0.003								0.002
4/21/2021		<0.001	<0.001				<0.001		
4/22/2021					<0.001	0.03			
9/28/2021				0.002			<0.001	0.003	
9/29/2021					0.001				<0.001
9/30/2021	0.003								
10/1/2021		0.001	<0.001						
10/5/2021						0.017			
4/25/2022		0.002	0.001						
4/26/2022					0.001			0.003	
4/27/2022	0.003								
5/2/2022				0.001					
5/3/2022							<0.001		<0.001
5/4/2022						0.02			
10/11/2022							0.001		
10/13/2022	0.001		0.002						
10/17/2022									<0.001
10/18/2022				<0.001		0.004			
4/10/2023				<0.001			0.005		
4/12/2023	0.001								<0.001
4/13/2023					<0.001				
4/18/2023		0.008	0.001			0.014		0.003	
Mean	0.00224	0.001909	0.001383	0.001401	0.0009813	0.01429	0.00175	0.002623	0.001125
Std. Dev.	0.0008914	0.002505	0.0005282	0.0007533	5.303E-05	0.008995	0.001488	0.0005483	0.0003536
Upper Lim.	0.003	0.008	0.00206	0.001937	0.001	0.02497	0.005	0.003204	0.002
Lower Lim.	0.001	0.00027	0.001	0.0006738	0.00085	0.003602	0.001	0.002041	0.001

ND substitution: RL or RL/2 if <15% NDs.

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Normality testing disabled.

Constituent: Barium, Total Analysis Run 6/6/2023 2:54 PM View: Confidence Intervals - NP

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

Confidence Interval

Constituent: Barium, Total (mg/L) Analysis Run 6/6/2023 2:56 PM View: Confidence Intervals - NP

Lowman Power Plant Client: CDG Engineers Data: Lowman Power Plant

	MW-14B
9/29/2021	0.172
4/26/2022	0.089
10/12/2022	0.179
4/13/2023	0.069
Mean	0.1273
Std. Dev.	0.05638
Upper Lim.	0.179
Lower Lim.	0.069

APPENDIX G

TW-1 PRELIMINARY SAMPLING DATA

BORING AND WELL COMPLETION LOG
BORING / WELL ID TW-1

Project Name: Lowman ACM	Ground Elevation (ft.): N/A	Depth Drilled Into Rock (ft.): N/A
Phase Number: R021223004	Groundwater Elevation (ft.): N/A	Total Depth of Boring (ft.): 29.5
Project Location: Leroy, Alabama	Casing Elevation (ft.): N/A	Auger Size ID (in.): N/A
Log Prepared By: Alan Barck	Datum Elevation: MSL	Auger Size OD (in.): N/A
Driller: CDG	Well Type: Temporary Well	Type of Sampler: 10' Continuous
Drilling Method: Sonic	Well Diameter (in.): 2	Date Started: 4/4/2023
▼ - Groundwater at Time of Drilling	Screen Size (in.): 0.01	Date Completed: 4/4/2023
▽ - Groundwater at Time of Sampling	Screen Length (ft.): 15	Remarks: Temporary Well

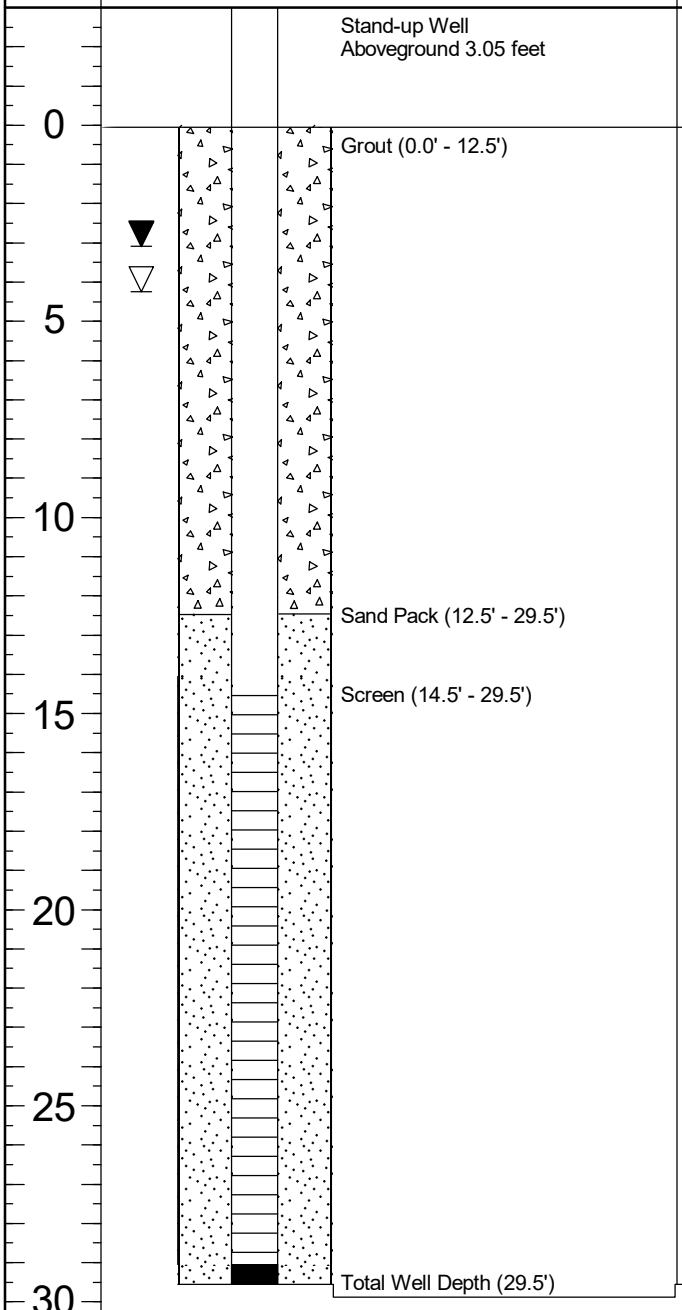


TABLE G

Temporary Well Summary Data

Charles R. Lowman Power Plant

Leroy, Alabama

			TW-1	
	Sample Date		4/10/2023	
Field Parameters	**Units**	**GWPS**		
pH	Std. Units	-	4.36	
Temperature	C°	-	18.6	
Conductivity	µS/Cm	-	94.1	
Dissolved Oxygen	mg/L	-	0.72	
Turbidity	NTUs	-	4.9	
ORP	Mv	-	236.0	
Appendix III				
Boron	mg/L	-	0.028	
Calcium	mg/L	-	3.4	
Chloride	mg/L	250	7.73	
Sulfate	mg/L	250	29.6	
TDS	mg/L	500	112	
Appendix IV				
Antimony	mg/L	0.006	<0.0010	
Arsenic	mg/L	0.010	<0.0010	
Barium	mg/L	2.0	0.104	
Beryllium	mg/L	0.004	<0.0010	
Cadmium	mg/L	0.005	<0.0010	
Chromium	mg/L	0.100	0.001	
Cobalt	mg/L	0.013	0.005	
Fluoride	mg/L	4	<0.125	
Lead	mg/L	0.015	<0.0010	
Lithium	mg/L	0.040	<0.008	
Mercury	mg/L	0.002	<0.00020	
Molybdenum	mg/L	0.100	<0.001	
Selenium	mg/L	0.050	<0.001	
Thallium	mg/L	0.002	<0.0010	
Radium-226	pCi/L	-	1.4600	
Radium-228	pCi/L	-	-0.1430	
Combined Radium	pCi/L	5	1.4600	

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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 Bradley

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

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www.waypointanalytical.com

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

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

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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

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

Consuelo C Bradley

Report Number : **23-104-0003**

REPORT OF ANALYSIS

Lab No : **97709**
Sample ID : **TW-1**

Matrix: **Aqueous**
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

eurofins | Environment Testing

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
301 Alpha Drive
RIDC Park
Pittsburgh PA 15238

See page two for job notes and contact information.

myEOL

Eurofins Pittsburgh

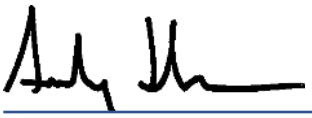
Job Notes

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

Table of Contents

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.

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	02-28-24
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

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
Date Collected: 04/10/23 12:55
Date Received: 04/18/23 09:30

Lab Sample ID: 180-155217-17
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	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: Waypoint Analytical, Inc.
Project/Site: 23-104-0002

Job ID: 180-155217-1

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

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

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

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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)	Lithium (by 6020 - sub to Test America in PA)
23-104-0002	05/12/2023	04/11/2023 13:35	MW-2		AQU	97685	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	97686	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	97687	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	97688	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	97689	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	97690	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	97691	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	97692	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	Received By (sign): EQUITAS	Date / Time: 4/18/23 930
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

Waypoint ANALYTICAL

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Main 334.343.9799
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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: Client	Method of Shipment	Blank / Cooler Temp.	
Remarks			
Relinquished By (sign): Consuelo Bradley	Date / Time: 04/17/2023 1520	Received By (sign): EQ. TIME	Date / Time: 4/18/23 9:30
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time

Waypoint ANALYTICAL

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

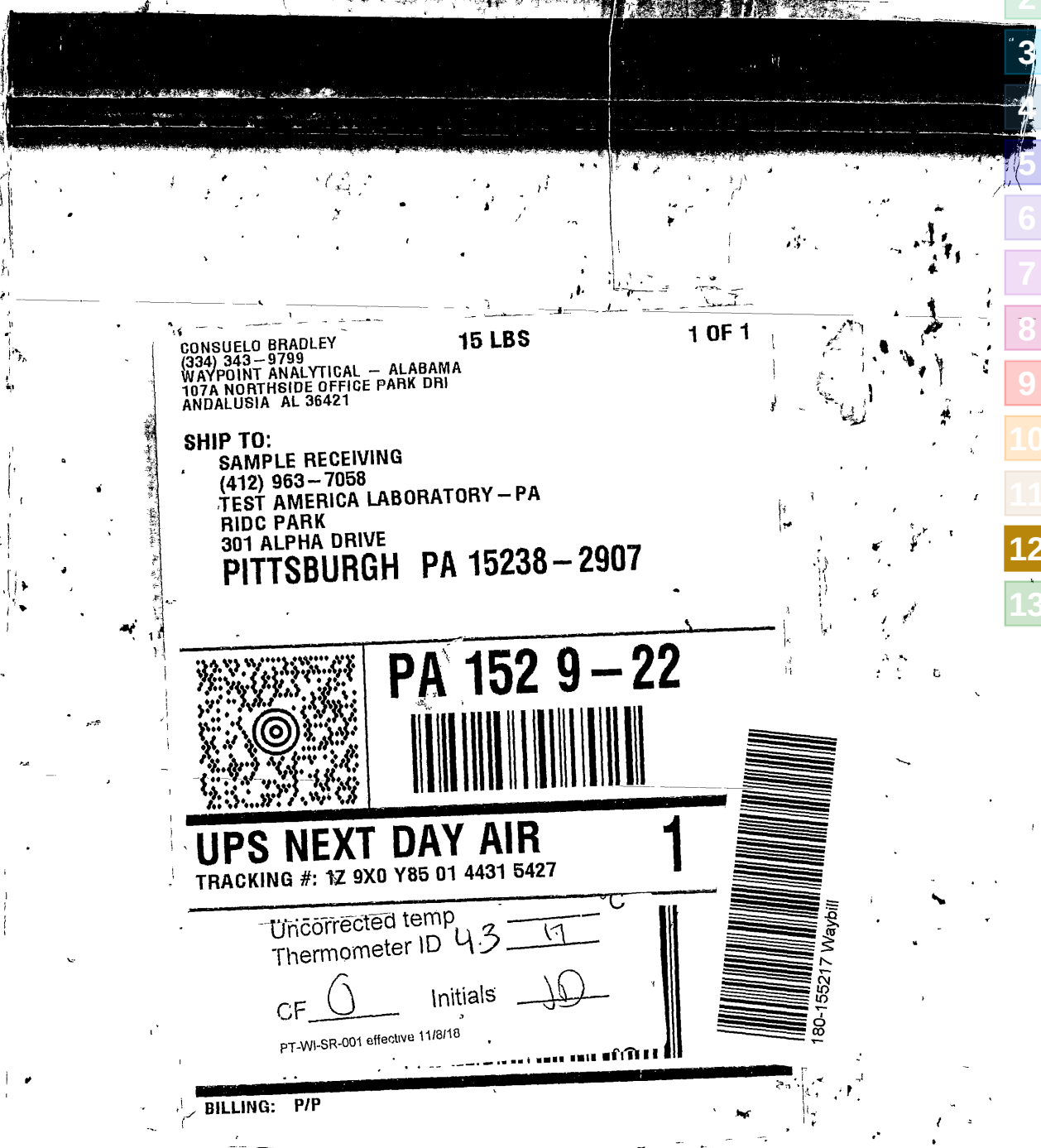
Created: 4/17/2023 14:41:58
Computer: WPALMS-157
User: Consuelo C Bradley
Project Manager: Consuelo C Bradley

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	Received By (sign): EDITIME	Date / Time: 4/18/23 9:30
Relinquished By (sign)	Date / Time	Received By (sign)	Date / Time



CONSUELO BRADLEY
(334) 343-9799
WAYPOINT ANALYTICAL - ALABAMA
107A NORTHSIDE OFFICE PARK DRI
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

1

TRACKING #: 1Z 9X0 Y85 01 4431 5427

Uncorrected temp °C
Thermometer ID 43 17
CF 0 Initials JD
PT-WI-SR-001 effective 11/8/18

180-155217 Waybill

BILLING: P/P

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Andy	Carrier Tracking No(s):	COC No: 180-485369.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Alabama	Page: Page 1 of 3
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note):		Job #: 180-155217-1
Address: 180 S. Van Buren Avenue, ,	Due Date Requested: 5/8/2023	Analysis Requested		Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 23-104-0002	Project #: 18021257			
Site:	SSOW#:			Other: M60

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
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)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-1 (180-155217-1)	4/11/23	11:40 Central		Water			X	1	
MW-2 (180-155217-2)	4/11/23	13:35 Central		Water			X	1	
MW-3 (180-155217-3)	4/10/23	13:55 Central		Water			X	1	
MW-4 (180-155217-4)	4/10/23	16:00 Central		Water			X	1	
MW-6 (180-155217-5)	4/12/23	12:35 Central		Water			X	1	
MW-7 (180-155217-6)	4/12/23	11:00 Central		Water			X	1	
MW-8 (180-155217-7)	4/12/23	13:20 Central		Water			X	1	
MW-9 (180-155217-8)	4/11/23	10:35 Central		Water			X	1	
MW-10 (180-155217-9)	4/12/23	14:50 Central		Water			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/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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
[signature]	4/14/2023 1800	EBTM	[signature]	4-25-23 800	EETNC
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Andy	Carrier Tracking No(s):	COC No: 180-485369.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Alabama	Page: Page 2 of 3
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note):		Job #: 180-155217-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 5/8/2023	Analysis Requested		Preservation Codes:
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 23-104-0002	Project #: 18021257			
Site:	SSOW#:			Other:

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Y - Trizma
	Z - other (specify)

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-18 (180-155217-10)	4/12/23	16:20 Central		Water			X	1	
MW-19 (180-155217-11)	4/13/23	08:30 Central		Water			X	1	
MW-20 (180-155217-12)	4/11/23	14:30 Central		Water			X	1	
MW-21 (180-155217-13)	4/11/23	16:25 Central		Water			X	1	
MW-22 (180-155217-14)	4/12/23	14:00 Central		Water			X	1	
MW-24 (180-155217-15)	4/13/23	07:40 Central		Water			X	1	
MW-25 (180-155217-16)	4/13/23	10:30 Central		Water			X	1	
TW-1 (180-155217-17)	4/10/23	12:55 Central		Water			X	1	
MW-11 (180-155217-18)	4/12/23	15:30 Central		Water			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/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

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:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: [illegible]	Date/Time: 4/24/2023 1400	Company: CBSA	Received by: [illegible]	Date/Time: 4-25-23 800	Company: EETNC
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Relinquished by:	Date/Time:	Company:	Received by:	Date/Time:	Company:
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 06/08/2021

Eurofins Pittsburgh
301 Alpha Drive RIDC Park
Pittsburgh, PA 15238
Phone: 412-963-7058 Fax: 412-963-2468

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Johnson, Andy	Carrier Tracking No(s):	COC No: 180-485369.3
Client Contact: Shipping/Receiving	Phone:	E-Mail: Andy.Johnson@et.eurofinsus.com	State of Origin: Alabama	Page: Page 3 of 3
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note):		Job #: 180-155217-1
Address: 180 S. Van Buren Avenue, ,	Due Date Requested: 5/8/2023			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: 23-104-0002	Project #: 18021257			
Site:	SSOW#:			

Analysis Requested

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, 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)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020A/3005A (MOD) Custom Sublist	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-13 (180-155217-19)	4/10/23	14:40 Central		Water			X	1	
MW-14 (180-155217-20)	4/13/23	11:35 Central		Water			X	1	
MW-14A (180-155217-21)	4/13/23	12:20 Central		Water			X	1	
MW-14B (180-155217-22)	4/13/23	13:15 Central		Water			X	1	
MW-13A (180-155217-23)	4/11/23	09:40 Central		Water			X	1	
MW-15 (180-155217-24)	4/12/23	08:00 Central		Water			X	1	
MW-16 (180-155217-25)	4/12/23	09:00 Central		Water			X	1	
MW-17 (180-155217-26)	4/12/23	10:15 Central		Water			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/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	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	4/24/2023 1802	ELPT		4-25-23 800	EETNL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins - Canton Sample Receipt Form/Narrative
Barberton Facility

Login # : _____

Client ETA Site Name _____

Cooler unpacked by: Nancy Nagle

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 (X) See Multiple Cooler Form

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 1 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)
-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
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? [redacted] 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

pH Strip Lot# HC203864

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

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 # : ______________

Eurofins - Canton Sample Receipt Multiple Cooler Form				
Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
EC Client Box Other	IR GUN #: 22	13.8	13.8	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 22	11.3	11.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 28	15.3	15.3	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 22	14.0	14.0	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: 22	3.1	3.1	Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
EC Client Box Other	IR GUN #: ______			Wet Ice Blue Ice Dry Ice Water None
				☐ See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 – Multiple Coolers

Login Sample Receipt Checklist

Client: Waypoint Analytical, Inc.

Job Number: 180-155217-1

Login Number: 155217

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	

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

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-0003

QC Prep: L676980
QC Prep Batch Method: 3005A
QC Analytical Batch(es): L677479
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

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Main 334.343.9799
www.waypointanalytical.com

Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-0003

QC Prep: L676980
QC Prep Batch Method: 3005A
QC Analytical Batch(es): L677479
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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-0003

QC Prep: L678303
QC Prep Batch Method: 7470A
QC Analytical Batch(es): L678490
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

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Quality Control Data

Client ID: CDG Engineers Associates
Project Description: CDG
Report No: 23-104-0003

QC Prep: L677756
QC Prep Batch Method: SW-9056A (PREP)
QC Analytical Batch(es): L677837
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

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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?	● Yes	○ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	○ Yes	○ No	● Not Present
Custody seals intact on sample bottles?	○ Yes	○ No	● Not Present
Chain of Custody (COC) present?	● Yes	○ No	
COC agrees with sample label(s)?	● Yes	○ No	
COC properly completed	● Yes	○ No	
Samples in proper containers?	● Yes	○ No	
Sample containers intact?	● Yes	○ No	
Sufficient sample volume for indicated test(s)?	● Yes	○ No	
All samples received within holding time?	● Yes	○ No	
Cooler temperature in compliance?	● Yes	○ No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	● Yes	○ No	
Water - Sample containers properly preserved	● Yes	○ No	○ N/A
Water - VOA vials free of headspace	○ Yes	○ No	● N/A
Trip Blanks received with VOAs	○ Yes	○ No	● N/A
Soil VOA method 5035 – compliance criteria met	○ Yes	○ No	● N/A

☐ High concentration container (48 hr) ☐ Low concentration EnCore samplers (48 hr)
☐ High concentration pre-weighed (methanol -14 d) ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included?	○ Yes	● No

Comments:

Signature: Consuelo C Bradley Date & Time: 04/16/2023 18:36:58

Client Name /Address	Client Project Manager/Contact	Billing Information	For Laboratory Use Only
CDG Inc			
Project Description PowerSouth Lowman	**Project/Site Location (City/State)**	☐ RUSH – Additional charges apply ☐ Special Detection Limit(s) Date Results Needed	**Method of Shipment** ☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other
Project Number R02122 3004	**Project Manager Phone #**	**Project Manager Email**	**Purchase Order Number**

Matrix Key
WW – Wastewater GW – Groundwater
DW – Drinking Water S – Soil /Solid O – Oil
P - Product M - Misc

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
4/10/23	1355	TW-1	5	GW	G

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
I Cool <= 6C NA2S2O3

Comments/Notes
Report separately

23-104-0004
00001
04-16-2023
18:38:23
CDG Engineers Associates
CDG

23-104-0003
00001
04-16-2023
18:35:44
CDG Engineers Associates
CDG

For Laboratory Use Only

Ice Y / N	Custody Seals Y / N	Lab Comments
Blank/Cooler Temp		

Sampled by: (Name – Print)
Grant Marcum

Client Re

Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
	4-13-23 1700	Consuelo Pauley 04/14/23	e 0900
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time
Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time