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**Illinois Power Resources Generating, LLC**

Date  
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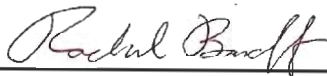
**2023 ANNUAL GROUNDWATER  
MONITORING AND CORRECTIVE  
ACTION REPORT**  
**ASH POND**  
**EDWARDS POWER PLANT**  
**BARTONVILLE, ILLINOIS**  
**CCR UNIT 301**

**2023 ANNUAL GROUNDWATER MONITORING AND  
CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT ASH POND**

Project name **Edwards Power Plant Ash Pond**  
Project no. **1940103649-007**  
Recipient **Illinois Power Resources Generating, LLC**  
Document type **Annual Groundwater Monitoring and Corrective Action Report**  
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Description **Annual Report required by 40 C.F.R. § 257.90(e)**

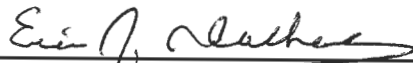
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## ACRONYMS AND ABBREVIATIONS

35 I.A.C.	Title 35 of the Illinois Administrative Code
40 C.F.R.	Title 40 of the Code of Federal Regulations
A6	Quarter 1, 2023 Assessment Monitoring sampling event
A6R	Quarter 2, 2023 Assessment Monitoring resampling event
A6D	Quarter 3, 2023 Assessment Monitoring sampling event
A6DR	Quarter 4, 2023 Assessment Monitoring resampling event
ADD	Additional sample events outside of quarterly events
AP	Ash Pond
ASD	Alternative Source Demonstration
CCR	coal combustion residuals
CMA	Corrective Measures Assessment
EPP	Edwards Power Plant
GWPS	groundwater protection standard
IEPA	Illinois Environmental Protection Agency
NA	not applicable
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Multi-Site Sampling and Analysis Plan
SSI	Statistically significant increase
SSL	statistically significant level

## EXECUTIVE SUMMARY

This report has been prepared to provide the information required by Title 40 of the Code of Federal Regulations (40 C.F.R.) § 257.90(e) for the Ash Pond (AP) located at the Edwards Power Plant (EPP) near Bartonville, Illinois.

Groundwater is being monitored at the AP in accordance with the Assessment Monitoring Program requirements specified in 40 C.F.R. § 257.95. Assessment Monitoring was initiated at the AP on April 9, 2018.

As discussed in **Section 3** of this annual report, the monitoring system was updated in 2023 to use the same monitoring system developed for compliance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845, which was submitted to the Illinois Environmental Protection Agency (IEPA) via an operating permit application.

No Statistically Significant Levels (SSLs) of 40 C.F.R. § 257 Appendix IV parameters over groundwater protection standards (GWPSs) were determined in 2023; therefore, a Corrective Measures Assessment (CMA) is not required. Statistically significant increases (SSIs) of Appendix III parameters above background values were determined as discussed in **Section 3**; therefore, the AP remains in the Assessment Monitoring Program.

## 1. INTRODUCTION

This report has been prepared by Ramboll Americas Engineering Solutions, Inc. (Ramboll) on behalf of Illinois Power Resources Generating, LLC, to provide the information required by 40 C.F.R. § 257.90(e) for the AP located at the EPP near Bartonville, Illinois.

In accordance with 40 C.F.R. § 257.90(e), the owner or operator of a coal combustion residuals (CCR) unit must prepare an Annual Groundwater Monitoring and Corrective Action Report for the preceding calendar year that documents the status of the Groundwater Monitoring and Corrective Action Program for the CCR unit (**Section 2**), summarizes key actions completed (**Section 3**), describes any problems encountered and actions to resolve the problems (**Section 4**), and projects key activities for the upcoming year (**Section 5**). At a minimum, the annual report must contain the following information, to the extent available:

1. A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit (**Figure 1**).
2. Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken (**Section 3**, paragraph 1).
3. In addition to all the monitoring data obtained under §§ 257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the Detection Monitoring or Assessment Monitoring programs (**Section 3, Table A**).
4. A narrative discussion of any transition between monitoring programs (*e.g.*, the date and circumstances for transitioning from Detection Monitoring to Assessment Monitoring in addition to identifying the constituent(s) detected at a statistically significant increase relative to background levels) (**Section 3**).
5. Other information required to be included in the annual report as specified in §§ 257.90 through 257.98.
6. A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit (see **Executive Summary**). At a minimum, the summary must specify all of the following:
  - i. At the start of the current annual reporting period, whether the CCR unit was operating under the Detection Monitoring Program in §257.94 or the Assessment Monitoring Program in §257.95.
  - ii. At the end of the current annual reporting period, whether the CCR unit was operating under the Detection Monitoring Program in §257.94 or the Assessment Monitoring Program in §257.95.
  - iii. If it was determined that there was a statistically significant increase over background for one or more constituents listed in Appendix III of §257 pursuant to §257.94(e):
    - A. Identify those constituents listed in Appendix III of §257 and the names of the monitoring wells associated with such an increase.

- B. Provide the date when the Assessment Monitoring Program was initiated for the CCR unit.
- iv. If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in Appendix IV of §257 pursuant to §257.95(g) include all of the following:
  - A. Identify those constituents listed in Appendix IV of §257 and the names of the monitoring wells associated with such an increase.
  - B. Provide the date when the assessment of corrective measures was initiated for the CCR unit.
  - C. Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit.
  - D. Provide the date when the assessment of corrective measures was completed for the CCR unit.
- v. Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of remedy selection.
- vi. Whether remedial activities were initiated or are ongoing pursuant to § 257.98 during the current annual reporting period.

This report provides the required information for the AP for calendar year 2023.

## **2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS**

No changes have occurred to the monitoring program status in calendar year 2023 and the AP remains in the Assessment Monitoring Program in accordance with 40 C.F.R. § 257.95.

### 3. KEY ACTIONS COMPLETED IN 2023

A summary of the samples collected from background and compliance monitoring wells in 2023 under the Assessment Monitoring Program is included in **Table A** on the following page. The groundwater monitoring system, including the CCR unit and all background and compliance monitoring wells, is presented in **Figure 1**. Beginning in 2023, the monitoring system was updated to be consistent with that proposed for compliance with 35 I.A.C. § 845, which includes all of the monitoring wells used in the 2022 40 C.F.R. § 257 monitoring system (Ramboll, 2022a). No wells were installed or decommissioned in 2023 (the wells added from the 35 I.A.C. § 845 monitoring system were installed prior to 2023).

One groundwater sample was collected from each background and compliance well during each monitoring event. The AP is also regulated under 35 I.A.C. § 845, which requires quarterly monitoring. The groundwater monitoring systems for both programs (35 I.A.C. § 845 and 40 C.F.R. § 257) are identical, so all available data from the four quarterly monitoring events in 2023 are included in this report. All samples were collected and analyzed in accordance with the Multi-Site Sampling and Analysis Plan (SAP) (Ramboll, 2023). Data collected in accordance with 35 I.A.C. § 845 was included for statistical calculations performed in accordance with 40 C.F.R. § 257.95(d)(1); however, SSLs are reported semiannually per 40 C.F.R. § 257.

Potentiometric surfaces for the quarterly sampling events are included in **Figures 2 through 5**. All monitoring data and analytical results obtained under 40 C.F.R. § 257.90 through 257.98 and 35 I.A.C. § 845 in 2023 are presented in **Tables 1 through 3**. All associated laboratory reports and field data sheets are included in **Appendix A**.

Analytical data were evaluated in accordance with the Multi-Site Statistical Analysis Plan (Ramboll, 2022b), the Multi-Site Quality Assurance Project Plan (Ramboll, 2022c), and the Multi-Site Data Management Plan (Ramboll, 2022d) to determine any SSLs of Appendix IV parameters over GWPSs and SSIs of Appendix III parameters greater than background values. SSL notifications were completed in accordance with 40 C.F.R. § 257.95(g). SSIs are highlighted in **Table 2**. Statistical background values are provided in **Table 4** and GWPSs in **Table 5**. A flow chart showing the statistical methodology for determination of background values is included as **Appendix B**. A summary of the determination of SSLs is included in **Table 6**. A flow chart showing the statistical methodology for determination of SSLs is included as **Appendix C**.

**Table A. 2023 Assessment Monitoring Program Summary**

Event ID	Sampling Dates <sup>1, 2, 3</sup>	Analytical Data Receipt Date <sup>4, 5</sup>	SSL(s) Determination Date	SSL(s)	ASD Completion Date
A6	February 27 - 28, 2023	July 13, 2023	October 11, 2023	None	NA
A6R	June 12 - 15, 2023	August 16, 2023	NA	NA	NA
A6D	August 21 - 23, 2023 and August 28 - 29, 2023	October 12, 2023	January 10, 2024	None	NA
A6DR	November 1 - 3, 2023 November 6, 2023, and November 17, 2023	December 14, 2023	NA	NA	NA

**Notes:**

ASD: Alternative Source Demonstration

NA: not applicable

SSL: Statistically Significant Level

<sup>1</sup> All samples were analyzed for Appendix III parameters listed in 40 C.F.R. § 257.94(e) and Appendix IV parameters listed in 40 C.F.R. § 257.95(g).

<sup>2</sup> The following background wells were sampled for each event: AP05S and AW-08

<sup>3</sup> The following compliance wells were sampled for each event: AP07S, AW-01, AW-05, AW-06, AW-09, AW-10, AW-11, AW-14, AW-15, AW-15S, AW-16, AW-17, AW-18, AW-19, and AW-21

<sup>4</sup> Data collected in accordance with 35 I.A.C. § 845 was included for statistical calculations performed in accordance with 40 C.F.R. § 257.95(d)(1); however, SSLs are reported semiannually per 40 C.F.R. § 257.

<sup>5</sup> Additional samples were collected from well AW-01 and are identified on Table 2 and Table 3 as ADD events. The data was included for statistical calculations performed in accordance with 40 C.F.R. § 257.95(d)(1); however, SSLs are reported semiannually per 40 C.F.R. § 257.



## **4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS**

No problems were encountered with the groundwater monitoring program during 2023. Groundwater samples were collected and analyzed in accordance with the SAP and all data were accepted.

## 5. KEY ACTIVITIES PLANNED FOR 2024

The following key activities are planned for 2024:

- Continuation of the Assessment Monitoring Program with semiannual sampling for reporting purposes scheduled for the first and third quarters of 2024 (and sampling for 35 I.A.C. § 845 scheduled for the second and fourth quarters).
- Complete evaluation of analytical data from the compliance wells to determine whether an SSL of Appendix IV parameters above GWPSs has occurred.
- If an SSL is identified, potential alternative sources (*i.e.*, a source other than the CCR unit caused the SSL or that the SSL resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated.
  - If an alternative source is identified to be the cause of the SSL, a written demonstration will be completed within 90 days of SSL determination and included in the 2024 Annual Groundwater Monitoring and Corrective Action Report.
  - If an alternative source(s) is not identified to be the cause of the SSL, the applicable requirements of 40 C.F.R. §§ 257.94 through 257.98 (*e.g.*, assessment of corrective measures) as may apply in 2024 will be met, including associated recordkeeping/notifications required by 40 C.F.R. §§ 257.105 through 257.108.

## 6. REFERENCES

Code of Federal Regulations, Title 40, Chapter I, Subchapter I, Part 257, Subpart D, Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, effective April 17, 2015. Accessed from URL <https://www.ecfr.gov/current/title-40/chapter-I/subchapter-I/part-257/subpart-D#page-top>

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022a. 40 C.F.R. § 257 Groundwater Monitoring Plan, Ash Pond, Edwards Power Plant, Bartonville, Illinois. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022b. Multi-Site Statistical Analysis Plan, 40 C.F.R. § 257. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022c. Multi-Site Quality Assurance Project Plan. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022d. Multi-Site Data Management Plan. December 28, 2022.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2023. Multi-Site Sampling and Analysis Plan, Revision 1. October 10, 2023.

## **TABLES**

**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
AP05S	Background	UA	02/27/2023	4.82	438.46
AP05S	Background	UA	04/12/2023	4.13	439.14
AP05S	Background	UA	05/12/2023	4.39	438.88
AP05S	Background	UA	06/12/2023	5.45	437.82
AP05S	Background	UA	07/21/2023	5.95	437.32
AP05S	Background	UA	08/21/2023	5.90	437.37
AP05S	Background	UA	09/27/2023	6.42	436.85
AP05S	Background	UA	10/27/2023	6.23	437.05
AP05S	Background	UA	11/20/2023	6.36	436.92
AP05S	Background	UA	12/27/2023	5.83	437.45
AP07S	Compliance	PMP	02/27/2023	24.30	436.78
AP07S	Compliance	PMP	04/12/2023	24.37	436.70
AP07S	Compliance	PMP	05/12/2023	24.74	436.33
AP07S	Compliance	PMP	06/12/2023	25.48	435.59
AP07S	Compliance	PMP	07/21/2023	25.36	435.72
AP07S	Compliance	PMP	08/21/2023	25.01	436.07
AP07S	Compliance	PMP	09/12/2023	[25.47]	[435.61]
AP07S	Compliance	PMP	10/27/2023	25.38	435.70
AP07S	Compliance	PMP	11/20/2023	25.38	435.70
AP07S	Compliance	PMP	12/27/2023	24.63	436.45
AW-01	Compliance	PMP	02/27/2023	4.20	460.23
AW-01	Compliance	PMP	04/12/2023	9.78	454.64
AW-01	Compliance	PMP	05/12/2023	9.88	454.54
AW-01	Compliance	PMP	06/12/2023	10.09	454.33
AW-01	Compliance	PMP	07/21/2023	10.40	454.02
AW-01	Compliance	PMP	08/21/2023	10.33	454.09
AW-01	Compliance	PMP	09/27/2023	10.54	453.89
AW-01	Compliance	PMP	10/27/2023	10.12	454.31
AW-01	Compliance	PMP	11/20/2023	12.04	452.39
AW-01	Compliance	PMP	12/27/2023	9.74	454.69
AW-05	Compliance	UA	02/27/2023	7.61	435.76
AW-05	Compliance	UA	04/12/2023	7.94	435.43
AW-05	Compliance	UA	05/12/2023	8.19	435.18
AW-05	Compliance	UA	06/12/2023	9.06	434.30
AW-05	Compliance	UA	07/21/2023	8.91	434.46
AW-05	Compliance	UA	08/21/2023	8.79	434.58
AW-05	Compliance	UA	09/27/2023	8.79	434.58
AW-05	Compliance	UA	10/27/2023	8.43	434.94
AW-05	Compliance	UA	11/20/2023	8.81	434.56
AW-05	Compliance	UA	12/27/2023	8.21	435.16
AW-06	Compliance	UA	02/27/2023	26.89	434.68
AW-06	Compliance	UA	04/12/2023	27.29	434.27
AW-06	Compliance	UA	05/12/2023	27.34	434.22
AW-06	Compliance	UA	06/12/2023	27.59	433.97
AW-06	Compliance	UA	07/21/2023	27.81	433.75
AW-06	Compliance	UA	08/21/2023	27.58	433.98

**TABLE 1**  
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 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
AW-06	Compliance	UA	09/27/2023	27.67	433.90
AW-06	Compliance	UA	10/27/2023	27.48	434.09
AW-06	Compliance	UA	11/20/2023	27.39	434.18
AW-06	Compliance	UA	12/27/2023	27.00	434.57
AW-08	Background	UA	02/27/2023	24.58	437.96
AW-08	Background	UA	04/12/2023	22.06	440.47
AW-08	Background	UA	05/12/2023	22.88	439.65
AW-08	Background	UA	06/12/2023	23.99	438.54
AW-08	Background	UA	07/21/2023	24.84	437.69
AW-08	Background	UA	08/21/2023	24.84	437.69
AW-08	Background	UA	09/27/2023	25.34	437.20
AW-08	Background	UA	10/27/2023	25.41	437.13
AW-08	Background	UA	11/20/2023	25.78	436.76
AW-08	Background	UA	12/27/2023	25.00	437.54
AW-09	Compliance	UA	02/27/2023	25.94	435.51
AW-09	Compliance	UA	04/12/2023	26.40	435.04
AW-09	Compliance	UA	05/12/2023	26.50	434.94
AW-09	Compliance	UA	06/12/2023	26.64	434.80
AW-09	Compliance	UA	07/21/2023	26.95	434.50
AW-09	Compliance	UA	08/21/2023	26.81	434.64
AW-09	Compliance	UA	09/27/2023	26.97	434.48
AW-09	Compliance	UA	10/27/2023	27.29	434.16
AW-09	Compliance	UA	11/20/2023	27.09	434.36
AW-09	Compliance	UA	12/27/2023	26.42	435.03
AW-10	Compliance	UA	02/27/2023	1.55	438.38
AW-10	Compliance	UA	04/12/2023	1.89	438.03
AW-10	Compliance	UA	05/12/2023	1.93	437.99
AW-10	Compliance	UA	06/12/2023	2.19	437.73
AW-10	Compliance	UA	08/28/2023	[2.35]	[437.58]
AW-10	Compliance	UA	08/28/2023	[2.35]	[437.58]
AW-10	Compliance	UA	09/11/2023	[2.23]	[437.70]
AW-10	Compliance	UA	10/27/2023	2.33	437.60
AW-10	Compliance	UA	11/20/2023	2.54	437.39
AW-10	Compliance	UA	12/27/2023	2.24	437.69
AW-11	Compliance	UA	02/27/2023	5.69	434.18
AW-11	Compliance	UA	04/12/2023	5.44	434.42
AW-11	Compliance	UA	05/12/2023	5.42	434.44
AW-11	Compliance	UA	06/12/2023	5.74	434.12
AW-11	Compliance	UA	07/21/2023	6.35	433.51
AW-11	Compliance	UA	08/21/2023	6.32	433.54
AW-11	Compliance	UA	09/27/2023	6.56	433.31
AW-11	Compliance	UA	10/27/2023	7.03	432.84
AW-11	Compliance	UA	11/20/2023	6.88	432.99
AW-11	Compliance	UA	12/27/2023	6.39	433.48
AW-14	Compliance	UA	02/27/2023	6.88	432.52
AW-14	Compliance	UA	06/12/2023	7.33	432.07

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 ASH POND  
 BARTONVILLE, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
AW-14	Compliance	UA	08/21/2023	7.07	432.33
AW-14	Compliance	UA	10/27/2023	8.30	431.10
AW-15	Compliance	UA	02/27/2023	8.92	432.59
AW-15	Compliance	UA	04/12/2023	8.14	433.36
AW-15	Compliance	UA	05/12/2023	8.00	433.50
AW-15	Compliance	UA	06/12/2023	8.09	433.41
AW-15	Compliance	UA	07/21/2023	8.51	432.99
AW-15	Compliance	UA	08/21/2023	8.68	432.82
AW-15	Compliance	UA	10/27/2023	10.02	431.49
AW-15	Compliance	UA	11/20/2023	9.99	431.52
AW-15	Compliance	UA	12/27/2023	9.52	431.99
AW-15S	Compliance	PMP	02/27/2023	10.05	430.66
AW-15S	Compliance	PMP	04/12/2023	9.46	431.24
AW-15S	Compliance	PMP	05/12/2023	9.46	431.24
AW-15S	Compliance	PMP	06/12/2023	9.94	430.76
AW-15S	Compliance	PMP	07/21/2023	10.06	430.64
AW-15S	Compliance	PMP	08/21/2023	9.82	430.88
AW-15S	Compliance	PMP	09/27/2023	10.25	430.46
AW-15S	Compliance	PMP	10/27/2023	10.04	430.67
AW-15S	Compliance	PMP	11/20/2023	11.08	429.63
AW-15S	Compliance	PMP	12/27/2023	9.52	431.19
AW-16	Compliance	UA	02/27/2023	24.60	437.19
AW-16	Compliance	UA	04/12/2023	24.54	437.24
AW-16	Compliance	UA	05/12/2023	24.44	437.34
AW-16	Compliance	UA	06/12/2023	24.69	437.09
AW-16	Compliance	UA	07/21/2023	25.05	436.73
AW-16	Compliance	UA	08/21/2023	25.21	436.58
AW-16	Compliance	UA	09/27/2023	25.59	436.20
AW-16	Compliance	UA	10/27/2023	25.92	435.87
AW-16	Compliance	UA	11/20/2023	26.05	435.74
AW-16	Compliance	UA	12/27/2023	25.62	436.17
AW-17	Compliance	UA	02/27/2023	24.85	437.25
AW-17	Compliance	UA	04/12/2023	25.29	436.80
AW-17	Compliance	UA	05/12/2023	25.32	436.77
AW-17	Compliance	UA	06/12/2023	25.42	436.67
AW-17	Compliance	UA	07/21/2023	25.95	436.14
AW-17	Compliance	UA	08/21/2023	26.14	435.96
AW-17	Compliance	UA	09/27/2023	26.20	435.90
AW-17	Compliance	UA	10/27/2023	26.56	435.54
AW-17	Compliance	UA	11/20/2023	26.52	435.58
AW-17	Compliance	UA	12/27/2023	26.08	436.02
AW-18	Compliance	UA	02/27/2023	26.96	435.69
AW-18	Compliance	UA	04/12/2023	27.84	434.80
AW-18	Compliance	UA	05/12/2023	27.93	434.71
AW-18	Compliance	UA	06/12/2023	28.14	434.50
AW-18	Compliance	UA	07/21/2023	27.99	434.65

**TABLE 1**  
**GROUNDWATER ELEVATION DATA**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
AW-18	Compliance	UA	08/21/2023	27.79	434.85
AW-18	Compliance	UA	09/27/2023	28.01	434.64
AW-18	Compliance	UA	10/27/2023	28.00	434.65
AW-18	Compliance	UA	11/20/2023	27.96	434.69
AW-18	Compliance	UA	12/27/2023	27.33	435.32
AW-19	Compliance	UA	02/27/2023	13.39	447.35
AW-19	Compliance	UA	04/12/2023	14.46	446.27
AW-19	Compliance	UA	05/12/2023	14.53	446.20
AW-19	Compliance	UA	06/12/2023	14.69	446.04
AW-19	Compliance	UA	07/21/2023	14.34	446.39
AW-19	Compliance	UA	08/21/2023	14.19	446.54
AW-19	Compliance	UA	10/27/2023	14.16	446.58
AW-19	Compliance	UA	11/20/2023	14.05	446.69
AW-19	Compliance	UA	12/27/2023	13.81	446.93
AW-21	Compliance	UA	02/27/2023	16.35	444.26
AW-21	Compliance	UA	04/12/2023	17.92	442.68
AW-21	Compliance	UA	05/12/2023	17.99	442.61
AW-21	Compliance	UA	06/12/2023	18.45	442.15
AW-21	Compliance	UA	07/21/2023	18.20	442.40
AW-21	Compliance	UA	08/21/2023	17.41	443.19
AW-21	Compliance	UA	09/27/2023	18.03	442.58
AW-21	Compliance	UA	10/27/2023	17.80	442.81
AW-21	Compliance	UA	11/20/2023	17.84	442.77
AW-21	Compliance	UA	12/27/2023	16.84	443.77
XPW01A	Water Level	CCR	02/27/2023	11.16	453.00
XPW01A	Water Level	CCR	04/12/2023	12.58	451.57
XPW01A	Water Level	CCR	05/12/2023	12.58	451.57
XPW01A	Water Level	CCR	06/12/2023	12.93	451.22
XPW01A	Water Level	CCR	07/21/2023	12.14	452.01
XPW01A	Water Level	CCR	08/21/2023	11.86	452.30
XPW01A	Water Level	CCR	09/27/2023	12.05	452.11
XPW01A	Water Level	CCR	10/27/2023	11.89	452.27
XPW01A	Water Level	CCR	11/20/2023	12.24	451.92
XPW01A	Water Level	CCR	12/27/2023	11.34	452.82
XPW02	Water Level	CCR	02/27/2023	19.78	454.01
XPW02	Water Level	CCR	04/12/2023	21.29	452.49
XPW02	Water Level	CCR	05/12/2023	21.55	452.23
XPW02	Water Level	CCR	06/12/2023	22.09	451.69
XPW02	Water Level	CCR	07/21/2023	21.99	451.79
XPW02	Water Level	CCR	08/21/2023	20.77	453.01
XPW02	Water Level	CCR	08/22/2023	[20.65]	[453.14]
XPW02	Water Level	CCR	10/27/2023	21.63	452.16
XPW02	Water Level	CCR	11/20/2023	21.48	452.31
XPW02	Water Level	CCR	12/27/2023	20.42	453.37
XPW03	Water Level	CCR	02/27/2023	16.34	449.70
XPW03	Water Level	CCR	04/12/2023	17.71	448.32



**TABLE 1**  
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 ASH POND  
 BARTONVILLE, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
XPW03	Water Level	CCR	05/12/2023	17.77	448.26
XPW03	Water Level	CCR	06/12/2023	18.20	447.83
XPW03	Water Level	CCR	07/21/2023	18.01	448.03
XPW03	Water Level	CCR	08/21/2023	17.20	448.84
XPW03	Water Level	CCR	08/28/2023	[17.51]	[448.53]
XPW03	Water Level	CCR	10/27/2023	18.23	447.81
XPW03	Water Level	CCR	11/20/2023	18.36	447.68
XPW03	Water Level	CCR	12/27/2023	17.34	448.70
SG-01	Water Level	SW	02/27/2023	NA	441.00
SG-01	Water Level	SW	06/12/2023	NA	441.50
SG-01	Water Level	SW	08/21/2023	NA	435.00
SG-01	Water Level	SW	10/27/2023	NA	431.00
SG-01	Water Level	SW	11/20/2023	NA	440.04
SG-01	Water Level	SW	12/27/2023	NA	440.64

**Notes:**

Only wells with groundwater elevations measured are included.  
 BMP = below measuring point  
 Bracketing [ ] indicates that the measurement was obtained outside of the episodic depth to groundwater measurements time frame.  
 NA = not available/not applicable  
 NAVD88 = North American Vertical Datum of 1988  
 Monitored Unit Abbreviations:  
     CCR = coal combustion residuals  
     PMP = potential migration pathway  
     SW = surface water  
     UA = uppermost aquifer

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**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
AP05S	UA	Background	02/28/2023	A6	Boron, total	mg/L	0.340	NA	NA
AP05S	UA	Background	06/14/2023	A6R	Boron, total	mg/L	0.330 J+	NA	NA
AP05S	UA	Background	08/23/2023	A6D	Boron, total	mg/L	0.320 J+	NA	NA
AP05S	UA	Background	11/06/2023	A6DR	Boron, total	mg/L	0.330 J+	NA	NA
AP05S	UA	Background	02/28/2023	A6	Calcium, total	mg/L	120	NA	NA
AP05S	UA	Background	06/14/2023	A6R	Calcium, total	mg/L	110	NA	NA
AP05S	UA	Background	08/23/2023	A6D	Calcium, total	mg/L	100	NA	NA
AP05S	UA	Background	11/06/2023	A6DR	Calcium, total	mg/L	110	NA	NA
AP05S	UA	Background	02/28/2023	A6	Chloride, total	mg/L	33.0	NA	NA
AP05S	UA	Background	06/14/2023	A6R	Chloride, total	mg/L	46.0	NA	NA
AP05S	UA	Background	08/23/2023	A6D	Chloride, total	mg/L	41.0	NA	NA
AP05S	UA	Background	11/06/2023	A6DR	Chloride, total	mg/L	46.0	NA	NA
AP05S	UA	Background	02/28/2023	A6	Fluoride, total	mg/L	0.088 J	NA	NA
AP05S	UA	Background	06/14/2023	A6R	Fluoride, total	mg/L	0.04 U	NA	NA
AP05S	UA	Background	08/23/2023	A6D	Fluoride, total	mg/L	0.095 J	NA	NA
AP05S	UA	Background	11/06/2023	A6DR	Fluoride, total	mg/L	0.04 U	NA	NA
AP05S	UA	Background	02/28/2023	A6	pH (field)	SU	7.0	NA	NA
AP05S	UA	Background	06/14/2023	A6R	pH (field)	SU	6.8	NA	NA
AP05S	UA	Background	08/23/2023	A6D	pH (field)	SU	6.9	NA	NA
AP05S	UA	Background	11/06/2023	A6DR	pH (field)	SU	6.8	NA	NA
AP05S	UA	Background	02/28/2023	A6	Sulfate, total	mg/L	14.0	NA	NA
AP05S	UA	Background	06/14/2023	A6R	Sulfate, total	mg/L	3.10	NA	NA
AP05S	UA	Background	08/23/2023	A6D	Sulfate, total	mg/L	5.60	NA	NA
AP05S	UA	Background	11/06/2023	A6DR	Sulfate, total	mg/L	0.18 U	NA	NA
AP05S	UA	Background	02/28/2023	A6	Total Dissolved Solids	mg/L	820	NA	NA
AP05S	UA	Background	06/14/2023	A6R	Total Dissolved Solids	mg/L	1,400 J+	NA	NA
AP05S	UA	Background	08/23/2023	A6D	Total Dissolved Solids	mg/L	890 J	NA	NA
AP05S	UA	Background	11/06/2023	A6DR	Total Dissolved Solids	mg/L	960	NA	NA
AW-08	UA	Background	02/28/2023	A6	Boron, total	mg/L	0.100	NA	NA
AW-08	UA	Background	06/14/2023	A6R	Boron, total	mg/L	0.0920 J+	NA	NA
AW-08	UA	Background	08/28/2023	A6D	Boron, total	mg/L	0.120 J+	NA	NA
AW-08	UA	Background	11/06/2023	A6DR	Boron, total	mg/L	0.350 J+	NA	NA
AW-08	UA	Background	02/28/2023	A6	Calcium, total	mg/L	140	NA	NA
AW-08	UA	Background	06/14/2023	A6R	Calcium, total	mg/L	140	NA	NA
AW-08	UA	Background	08/28/2023	A6D	Calcium, total	mg/L	140	NA	NA
AW-08	UA	Background	11/06/2023	A6DR	Calcium, total	mg/L	760	NA	NA
AW-08	UA	Background	02/28/2023	A6	Chloride, total	mg/L	14.0	NA	NA
AW-08	UA	Background	06/14/2023	A6R	Chloride, total	mg/L	16.0	NA	NA
AW-08	UA	Background	08/28/2023	A6D	Chloride, total	mg/L	15.0	NA	NA
AW-08	UA	Background	11/06/2023	A6DR	Chloride, total	mg/L	20.0	NA	NA
AW-08	UA	Background	02/28/2023	A6	Fluoride, total	mg/L	0.223 J	NA	NA
AW-08	UA	Background	06/14/2023	A6R	Fluoride, total	mg/L	0.0669 J	NA	NA
AW-08	UA	Background	08/28/2023	A6D	Fluoride, total	mg/L	0.195 J	NA	NA
AW-08	UA	Background	11/06/2023	A6DR	Fluoride, total	mg/L	0.175 J	NA	NA
AW-08	UA	Background	02/28/2023	A6	pH (field)	SU	8.9	NA	NA
AW-08	UA	Background	06/14/2023	A6R	pH (field)	SU	7.1	NA	NA

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EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
AW-08	UA	Background	08/28/2023	A6D	pH (field)	SU	6.9	NA	NA
AW-08	UA	Background	11/06/2023	A6DR	pH (field)	SU	7.3	NA	NA
AW-08	UA	Background	02/28/2023	A6	Sulfate, total	mg/L	0.35 J	NA	NA
AW-08	UA	Background	06/14/2023	A6R	Sulfate, total	mg/L	0.18 U	NA	NA
AW-08	UA	Background	08/28/2023	A6D	Sulfate, total	mg/L	0.18 U	NA	NA
AW-08	UA	Background	11/06/2023	A6DR	Sulfate, total	mg/L	0.18 U	NA	NA
AW-08	UA	Background	02/28/2023	A6	Total Dissolved Solids	mg/L	740	NA	NA
AW-08	UA	Background	06/14/2023	A6R	Total Dissolved Solids	mg/L	660 J+	NA	NA
AW-08	UA	Background	08/28/2023	A6D	Total Dissolved Solids	mg/L	720	NA	NA
AW-08	UA	Background	11/06/2023	A6DR	Total Dissolved Solids	mg/L	720	NA	NA
AP07S	PMP	Compliance	02/28/2023	A6	Boron, total	mg/L	7.90	0.429	Confirmed
AP07S	PMP	Compliance	06/15/2023	A6R	Boron, total	mg/L	18.0	0.429	Confirmed
AP07S	PMP	Compliance	08/28/2023	A6D	Boron, total	mg/L	9.40	0.429	Confirmed
AP07S	PMP	Compliance	11/03/2023	A6DR	Boron, total	mg/L	8.20	0.429	Confirmed
AP07S	PMP	Compliance	02/28/2023	A6	Calcium, total	mg/L	130	177	No Exceedance
AP07S	PMP	Compliance	06/15/2023	A6R	Calcium, total	mg/L	240	177	Exceedance Not Confirmed
AP07S	PMP	Compliance	08/28/2023	A6D	Calcium, total	mg/L	160	177	No Exceedance
AP07S	PMP	Compliance	11/03/2023	A6DR	Calcium, total	mg/L	130	177	No Exceedance
AP07S	PMP	Compliance	02/28/2023	A6	Chloride, total	mg/L	73.0	44.0	Confirmed
AP07S	PMP	Compliance	06/15/2023	A6R	Chloride, total	mg/L	76.0	44.0	Confirmed
AP07S	PMP	Compliance	08/28/2023	A6D	Chloride, total	mg/L	83.0	44.0	Confirmed
AP07S	PMP	Compliance	11/03/2023	A6DR	Chloride, total	mg/L	73.0	44.0	Confirmed
AP07S	PMP	Compliance	02/28/2023	A6	Fluoride, total	mg/L	0.248 J	0.376	No Exceedance
AP07S	PMP	Compliance	06/15/2023	A6R	Fluoride, total	mg/L	0.151 J	0.376	No Exceedance
AP07S	PMP	Compliance	08/28/2023	A6D	Fluoride, total	mg/L	0.215 J	0.376	No Exceedance
AP07S	PMP	Compliance	11/03/2023	A6DR	Fluoride, total	mg/L	0.229 J	0.376	No Exceedance
AP07S	PMP	Compliance	02/28/2023	A6	pH (field)	SU	7.1	6.6/7.4	No Exceedance
AP07S	PMP	Compliance	06/15/2023	A6R	pH (field)	SU	6.8	6.6/7.4	No Exceedance
AP07S	PMP	Compliance	08/28/2023	A6D	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AP07S	PMP	Compliance	11/03/2023	A6DR	pH (field)	SU	7.5	6.6/7.4	Exceedance Not Confirmed
AP07S	PMP	Compliance	02/28/2023	A6	Sulfate, total	mg/L	180	80.7	Confirmed
AP07S	PMP	Compliance	06/15/2023	A6R	Sulfate, total	mg/L	480	80.7	Confirmed
AP07S	PMP	Compliance	08/28/2023	A6D	Sulfate, total	mg/L	240	80.7	Confirmed
AP07S	PMP	Compliance	11/03/2023	A6DR	Sulfate, total	mg/L	180	80.7	Confirmed
AP07S	PMP	Compliance	02/28/2023	A6	Total Dissolved Solids	mg/L	720	955	No Exceedance
AP07S	PMP	Compliance	06/15/2023	A6R	Total Dissolved Solids	mg/L	1,600	955	Exceedance Not Confirmed
AP07S	PMP	Compliance	08/28/2023	A6D	Total Dissolved Solids	mg/L	880	955	No Exceedance
AP07S	PMP	Compliance	11/03/2023	A6DR	Total Dissolved Solids	mg/L	720	955	No Exceedance
AW-01	PMP	Compliance	01/10/2023	ADD	Boron, total	mg/L	0.0750	NA	NA
AW-01	PMP	Compliance	02/28/2023	A6	Boron, total	mg/L	1.10	0.429	Exceedance Not Confirmed
AW-01	PMP	Compliance	06/14/2023	A6R	Boron, total	mg/L	0.0720 J+	0.429	No Exceedance
AW-01	PMP	Compliance	08/22/2023	A6D	Boron, total	mg/L	0.0920 J+	0.429	No Exceedance
AW-01	PMP	Compliance	11/06/2023	A6DR	Boron, total	mg/L	0.0860 J+	0.429	No Exceedance
AW-01	PMP	Compliance	01/10/2023	ADD	Calcium, total	mg/L	170	NA	NA

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 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
AW-01	PMP	Compliance	02/28/2023	A6	Calcium, total	mg/L	180	177	Confirmed
AW-01	PMP	Compliance	06/14/2023	A6R	Calcium, total	mg/L	180	177	Confirmed
AW-01	PMP	Compliance	08/22/2023	A6D	Calcium, total	mg/L	190	177	Confirmed
AW-01	PMP	Compliance	11/06/2023	A6DR	Calcium, total	mg/L	190	177	Confirmed
AW-01	PMP	Compliance	01/10/2023	ADD	Chloride, total	mg/L	14.0	NA	NA
AW-01	PMP	Compliance	02/28/2023	A6	Chloride, total	mg/L	110	44.0	Exceedance Not Confirmed
AW-01	PMP	Compliance	06/14/2023	A6R	Chloride, total	mg/L	10.0	44.0	No Exceedance
AW-01	PMP	Compliance	08/22/2023	A6D	Chloride, total	mg/L	12.0	44.0	No Exceedance
AW-01	PMP	Compliance	11/06/2023	A6DR	Chloride, total	mg/L	10.0	44.0	No Exceedance
AW-01	PMP	Compliance	01/10/2023	ADD	Fluoride, total	mg/L	0.277	NA	NA
AW-01	PMP	Compliance	02/28/2023	A6	Fluoride, total	mg/L	0.177 J	0.376	No Exceedance
AW-01	PMP	Compliance	06/14/2023	A6R	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-01	PMP	Compliance	08/22/2023	A6D	Fluoride, total	mg/L	0.280	0.376	No Exceedance
AW-01	PMP	Compliance	11/06/2023	A6DR	Fluoride, total	mg/L	0.14 J	0.376	No Exceedance
AW-01	PMP	Compliance	01/10/2023	ADD	pH (field)	SU	6.8	NA	NA
AW-01	PMP	Compliance	02/28/2023	A6	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-01	PMP	Compliance	06/14/2023	A6R	pH (field)	SU	6.8	6.6/7.4	No Exceedance
AW-01	PMP	Compliance	08/22/2023	A6D	pH (field)	SU	6.6	6.6/7.4	No Exceedance
AW-01	PMP	Compliance	11/06/2023	A6DR	pH (field)	SU	6.8	6.6/7.4	No Exceedance
AW-01	PMP	Compliance	01/10/2023	ADD	Sulfate, total	mg/L	41.0	NA	NA
AW-01	PMP	Compliance	02/28/2023	A6	Sulfate, total	mg/L	280	80.7	Exceedance Not Confirmed
AW-01	PMP	Compliance	06/14/2023	A6R	Sulfate, total	mg/L	52.0	80.7	No Exceedance
AW-01	PMP	Compliance	08/22/2023	A6D	Sulfate, total	mg/L	52.0	80.7	No Exceedance
AW-01	PMP	Compliance	11/06/2023	A6DR	Sulfate, total	mg/L	50.0	80.7	No Exceedance
AW-01	PMP	Compliance	01/10/2023	ADD	Total Dissolved Solids	mg/L	760	NA	NA
AW-01	PMP	Compliance	02/28/2023	A6	Total Dissolved Solids	mg/L	1,000	955	Exceedance Not Confirmed
AW-01	PMP	Compliance	06/14/2023	A6R	Total Dissolved Solids	mg/L	780 J+	955	No Exceedance
AW-01	PMP	Compliance	08/22/2023	A6D	Total Dissolved Solids	mg/L	830	955	No Exceedance
AW-01	PMP	Compliance	11/06/2023	A6DR	Total Dissolved Solids	mg/L	770	955	No Exceedance
AW-05	UA	Compliance	02/28/2023	A6	Boron, total	mg/L	4.50	0.429	Confirmed
AW-05	UA	Compliance	06/15/2023	A6R	Boron, total	mg/L	3.60	0.429	Confirmed
AW-05	UA	Compliance	08/28/2023	A6D	Boron, total	mg/L	8.60	0.429	Confirmed
AW-05	UA	Compliance	11/06/2023	A6DR	Boron, total	mg/L	11.0	0.429	Confirmed
AW-05	UA	Compliance	02/28/2023	A6	Calcium, total	mg/L	170	177	No Exceedance
AW-05	UA	Compliance	06/15/2023	A6R	Calcium, total	mg/L	170	177	No Exceedance
AW-05	UA	Compliance	08/28/2023	A6D	Calcium, total	mg/L	180	177	Confirmed
AW-05	UA	Compliance	11/06/2023	A6DR	Calcium, total	mg/L	180	177	Confirmed
AW-05	UA	Compliance	02/28/2023	A6	Chloride, total	mg/L	78.0	44.0	Confirmed
AW-05	UA	Compliance	06/15/2023	A6R	Chloride, total	mg/L	71.0	44.0	Confirmed
AW-05	UA	Compliance	08/28/2023	A6D	Chloride, total	mg/L	78.0	44.0	Confirmed
AW-05	UA	Compliance	11/06/2023	A6DR	Chloride, total	mg/L	81.0	44.0	Confirmed
AW-05	UA	Compliance	02/28/2023	A6	Fluoride, total	mg/L	0.186 J	0.376	No Exceedance
AW-05	UA	Compliance	06/15/2023	A6R	Fluoride, total	mg/L	0.173 J	0.376	No Exceedance
AW-05	UA	Compliance	08/28/2023	A6D	Fluoride, total	mg/L	0.166 J	0.376	No Exceedance
AW-05	UA	Compliance	11/06/2023	A6DR	Fluoride, total	mg/L	0.139 J	0.376	No Exceedance



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 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
AW-05	UA	Compliance	02/28/2023	A6	pH (field)	SU	7.2	6.6/7.4	No Exceedance
AW-05	UA	Compliance	06/15/2023	A6R	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-05	UA	Compliance	08/28/2023	A6D	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-05	UA	Compliance	11/06/2023	A6DR	pH (field)	SU	6.8	6.6/7.4	No Exceedance
AW-05	UA	Compliance	02/28/2023	A6	Sulfate, total	mg/L	320	80.7	Confirmed
AW-05	UA	Compliance	06/15/2023	A6R	Sulfate, total	mg/L	350	80.7	Confirmed
AW-05	UA	Compliance	08/28/2023	A6D	Sulfate, total	mg/L	460	80.7	Exceedance Not Confirmed
AW-05	UA	Compliance	11/06/2023	A6DR	Sulfate, total	mg/L	5.70	80.7	No Exceedance
AW-05	UA	Compliance	02/28/2023	A6	Total Dissolved Solids	mg/L	1,100	955	Confirmed
AW-05	UA	Compliance	06/15/2023	A6R	Total Dissolved Solids	mg/L	1,100	955	Confirmed
AW-05	UA	Compliance	08/28/2023	A6D	Total Dissolved Solids	mg/L	1,200	955	Confirmed
AW-05	UA	Compliance	11/06/2023	A6DR	Total Dissolved Solids	mg/L	1,300	955	Confirmed
AW-06	UA	Compliance	02/28/2023	A6	Boron, total	mg/L	0.180	0.429	No Exceedance
AW-06	UA	Compliance	06/14/2023	A6R	Boron, total	mg/L	0.120 J+	0.429	No Exceedance
AW-06	UA	Compliance	08/28/2023	A6D	Boron, total	mg/L	0.130 J+	0.429	No Exceedance
AW-06	UA	Compliance	11/06/2023	A6DR	Boron, total	mg/L	0.150 J+	0.429	No Exceedance
AW-06	UA	Compliance	02/28/2023	A6	Calcium, total	mg/L	110	177	No Exceedance
AW-06	UA	Compliance	06/14/2023	A6R	Calcium, total	mg/L	100	177	No Exceedance
AW-06	UA	Compliance	08/28/2023	A6D	Calcium, total	mg/L	120	177	No Exceedance
AW-06	UA	Compliance	11/06/2023	A6DR	Calcium, total	mg/L	110	177	No Exceedance
AW-06	UA	Compliance	02/28/2023	A6	Chloride, total	mg/L	31.0	44.0	No Exceedance
AW-06	UA	Compliance	06/14/2023	A6R	Chloride, total	mg/L	35.0	44.0	No Exceedance
AW-06	UA	Compliance	08/28/2023	A6D	Chloride, total	mg/L	33.0	44.0	No Exceedance
AW-06	UA	Compliance	11/06/2023	A6DR	Chloride, total	mg/L	37.0	44.0	No Exceedance
AW-06	UA	Compliance	02/28/2023	A6	Fluoride, total	mg/L	0.327	0.376	No Exceedance
AW-06	UA	Compliance	06/14/2023	A6R	Fluoride, total	mg/L	0.319	0.376	No Exceedance
AW-06	UA	Compliance	08/28/2023	A6D	Fluoride, total	mg/L	0.284	0.376	No Exceedance
AW-06	UA	Compliance	11/06/2023	A6DR	Fluoride, total	mg/L	0.282	0.376	No Exceedance
AW-06	UA	Compliance	02/28/2023	A6	pH (field)	SU	7.4	6.6/7.4	No Exceedance
AW-06	UA	Compliance	06/14/2023	A6R	pH (field)	SU	7.1	6.6/7.4	No Exceedance
AW-06	UA	Compliance	08/28/2023	A6D	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-06	UA	Compliance	11/06/2023	A6DR	pH (field)	SU	7.4	6.6/7.4	No Exceedance
AW-06	UA	Compliance	02/28/2023	A6	Sulfate, total	mg/L	22.0	80.7	No Exceedance
AW-06	UA	Compliance	06/14/2023	A6R	Sulfate, total	mg/L	21.0	80.7	No Exceedance
AW-06	UA	Compliance	08/28/2023	A6D	Sulfate, total	mg/L	27.0	80.7	No Exceedance
AW-06	UA	Compliance	11/06/2023	A6DR	Sulfate, total	mg/L	23.0	80.7	No Exceedance
AW-06	UA	Compliance	02/28/2023	A6	Total Dissolved Solids	mg/L	610	955	No Exceedance
AW-06	UA	Compliance	06/14/2023	A6R	Total Dissolved Solids	mg/L	600 J+	955	No Exceedance
AW-06	UA	Compliance	08/28/2023	A6D	Total Dissolved Solids	mg/L	560	955	No Exceedance
AW-06	UA	Compliance	11/06/2023	A6DR	Total Dissolved Solids	mg/L	570	955	No Exceedance
AW-09	UA	Compliance	02/28/2023	A6	Boron, total	mg/L	0.100	0.429	No Exceedance
AW-09	UA	Compliance	06/12/2023	A6R	Boron, total	mg/L	0.260	0.429	No Exceedance
AW-09	UA	Compliance	08/29/2023	A6D	Boron, total	mg/L	0.310	0.429	No Exceedance
AW-09	UA	Compliance	11/06/2023	A6DR	Boron, total	mg/L	0.310 J+	0.429	No Exceedance
AW-09	UA	Compliance	02/28/2023	A6	Calcium, total	mg/L	140	177	No Exceedance
AW-09	UA	Compliance	06/12/2023	A6R	Calcium, total	mg/L	120	177	No Exceedance

**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
AW-09	UA	Compliance	08/29/2023	A6D	Calcium, total	mg/L	120	177	No Exceedance
AW-09	UA	Compliance	11/06/2023	A6DR	Calcium, total	mg/L	120	177	No Exceedance
AW-09	UA	Compliance	02/28/2023	A6	Chloride, total	mg/L	26.0	44.0	No Exceedance
AW-09	UA	Compliance	06/12/2023	A6R	Chloride, total	mg/L	29.0	44.0	No Exceedance
AW-09	UA	Compliance	08/29/2023	A6D	Chloride, total	mg/L	28.0	44.0	No Exceedance
AW-09	UA	Compliance	11/06/2023	A6DR	Chloride, total	mg/L	29.0	44.0	No Exceedance
AW-09	UA	Compliance	02/28/2023	A6	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-09	UA	Compliance	06/12/2023	A6R	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-09	UA	Compliance	08/29/2023	A6D	Fluoride, total	mg/L	0.145 J	0.376	No Exceedance
AW-09	UA	Compliance	11/06/2023	A6DR	Fluoride, total	mg/L	0.128 J	0.376	No Exceedance
AW-09	UA	Compliance	02/28/2023	A6	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-09	UA	Compliance	06/12/2023	A6R	pH (field)	SU	6.9	6.6/7.4	No Exceedance
AW-09	UA	Compliance	08/29/2023	A6D	pH (field)	SU	7.1	6.6/7.4	No Exceedance
AW-09	UA	Compliance	11/06/2023	A6DR	pH (field)	SU	7.1	6.6/7.4	No Exceedance
AW-09	UA	Compliance	02/28/2023	A6	Sulfate, total	mg/L	0.23 J	80.7	No Exceedance
AW-09	UA	Compliance	06/12/2023	A6R	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-09	UA	Compliance	08/29/2023	A6D	Sulfate, total	mg/L	0.22 J	80.7	No Exceedance
AW-09	UA	Compliance	11/06/2023	A6DR	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-09	UA	Compliance	02/28/2023	A6	Total Dissolved Solids	mg/L	830	955	No Exceedance
AW-09	UA	Compliance	06/12/2023	A6R	Total Dissolved Solids	mg/L	790	955	No Exceedance
AW-09	UA	Compliance	08/29/2023	A6D	Total Dissolved Solids	mg/L	840	955	No Exceedance
AW-09	UA	Compliance	11/06/2023	A6DR	Total Dissolved Solids	mg/L	800	955	No Exceedance
AW-10	UA	Compliance	02/28/2023	A6	Boron, total	mg/L	0.520	0.429	Confirmed
AW-10	UA	Compliance	06/13/2023	A6R	Boron, total	mg/L	0.460	0.429	Confirmed
AW-10	UA	Compliance	08/28/2023	A6D	Boron, total	mg/L	0.500	0.429	Confirmed
AW-10	UA	Compliance	11/06/2023	A6DR	Boron, total	mg/L	0.470 J+	0.429	Confirmed
AW-10	UA	Compliance	02/28/2023	A6	Calcium, total	mg/L	140	177	No Exceedance
AW-10	UA	Compliance	06/13/2023	A6R	Calcium, total	mg/L	130	177	No Exceedance
AW-10	UA	Compliance	08/28/2023	A6D	Calcium, total	mg/L	140	177	No Exceedance
AW-10	UA	Compliance	11/06/2023	A6DR	Calcium, total	mg/L	140	177	No Exceedance
AW-10	UA	Compliance	02/28/2023	A6	Chloride, total	mg/L	85.0	44.0	Confirmed
AW-10	UA	Compliance	06/13/2023	A6R	Chloride, total	mg/L	89.0	44.0	Confirmed
AW-10	UA	Compliance	08/28/2023	A6D	Chloride, total	mg/L	86.0	44.0	Confirmed
AW-10	UA	Compliance	11/06/2023	A6DR	Chloride, total	mg/L	84.0	44.0	Confirmed
AW-10	UA	Compliance	02/28/2023	A6	Fluoride, total	mg/L	0.0973 J	0.376	No Exceedance
AW-10	UA	Compliance	06/13/2023	A6R	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-10	UA	Compliance	08/28/2023	A6D	Fluoride, total	mg/L	0.182 J	0.376	No Exceedance
AW-10	UA	Compliance	11/06/2023	A6DR	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-10	UA	Compliance	02/28/2023	A6	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-10	UA	Compliance	06/13/2023	A6R	pH (field)	SU	6.9	6.6/7.4	No Exceedance
AW-10	UA	Compliance	08/28/2023	A6D	pH (field)	SU	6.4	6.6/7.4	Exceedance Not Confirmed
AW-10	UA	Compliance	11/06/2023	A6DR	pH (field)	SU	7.3	6.6/7.4	No Exceedance
AW-10	UA	Compliance	02/28/2023	A6	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-10	UA	Compliance	06/13/2023	A6R	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-10	UA	Compliance	08/28/2023	A6D	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-10	UA	Compliance	11/06/2023	A6DR	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance

**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
AW-10	UA	Compliance	02/28/2023	A6	Total Dissolved Solids	mg/L	1,300	955	Confirmed
AW-10	UA	Compliance	06/13/2023	A6R	Total Dissolved Solids	mg/L	1,200	955	Confirmed
AW-10	UA	Compliance	08/28/2023	A6D	Total Dissolved Solids	mg/L	1,300	955	Confirmed
AW-10	UA	Compliance	11/06/2023	A6DR	Total Dissolved Solids	mg/L	1,100	955	Confirmed
AW-11	UA	Compliance	02/28/2023	A6	Boron, total	mg/L	0.240	0.429	No Exceedance
AW-11	UA	Compliance	06/13/2023	A6R	Boron, total	mg/L	0.240	0.429	No Exceedance
AW-11	UA	Compliance	08/28/2023	A6D	Boron, total	mg/L	0.240 J+	0.429	No Exceedance
AW-11	UA	Compliance	11/03/2023	A6DR	Boron, total	mg/L	0.260 J+	0.429	No Exceedance
AW-11	UA	Compliance	02/28/2023	A6	Calcium, total	mg/L	170	177	No Exceedance
AW-11	UA	Compliance	06/13/2023	A6R	Calcium, total	mg/L	160	177	No Exceedance
AW-11	UA	Compliance	08/28/2023	A6D	Calcium, total	mg/L	170	177	No Exceedance
AW-11	UA	Compliance	11/03/2023	A6DR	Calcium, total	mg/L	160	177	No Exceedance
AW-11	UA	Compliance	02/28/2023	A6	Chloride, total	mg/L	30.0	44.0	No Exceedance
AW-11	UA	Compliance	06/13/2023	A6R	Chloride, total	mg/L	33.0	44.0	No Exceedance
AW-11	UA	Compliance	08/28/2023	A6D	Chloride, total	mg/L	32.0	44.0	No Exceedance
AW-11	UA	Compliance	11/03/2023	A6DR	Chloride, total	mg/L	33.0	44.0	No Exceedance
AW-11	UA	Compliance	02/28/2023	A6	Fluoride, total	mg/L	0.0647 J	0.376	No Exceedance
AW-11	UA	Compliance	06/13/2023	A6R	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-11	UA	Compliance	08/28/2023	A6D	Fluoride, total	mg/L	0.153 J	0.376	No Exceedance
AW-11	UA	Compliance	11/03/2023	A6DR	Fluoride, total	mg/L	0.0662 J	0.376	No Exceedance
AW-11	UA	Compliance	02/28/2023	A6	pH (field)	SU	7.2	6.6/7.4	No Exceedance
AW-11	UA	Compliance	06/13/2023	A6R	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-11	UA	Compliance	08/28/2023	A6D	pH (field)	SU	6.3	6.6/7.4	Exceedance Not Confirmed
AW-11	UA	Compliance	11/03/2023	A6DR	pH (field)	SU	6.9	6.6/7.4	No Exceedance
AW-11	UA	Compliance	02/28/2023	A6	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-11	UA	Compliance	06/13/2023	A6R	Sulfate, total	mg/L	0.18 J	80.7	No Exceedance
AW-11	UA	Compliance	08/28/2023	A6D	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-11	UA	Compliance	11/03/2023	A6DR	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-11	UA	Compliance	02/28/2023	A6	Total Dissolved Solids	mg/L	1,000	955	Confirmed
AW-11	UA	Compliance	06/13/2023	A6R	Total Dissolved Solids	mg/L	1,100	955	Confirmed
AW-11	UA	Compliance	08/28/2023	A6D	Total Dissolved Solids	mg/L	1,000	955	Exceedance Not Confirmed
AW-11	UA	Compliance	11/03/2023	A6DR	Total Dissolved Solids	mg/L	870	955	No Exceedance
AW-14	UA	Compliance	02/28/2023	A6	Boron, total	mg/L	0.180	0.429	No Exceedance
AW-14	UA	Compliance	06/13/2023	A6R	Boron, total	mg/L	0.180	0.429	No Exceedance
AW-14	UA	Compliance	08/23/2023	A6D	Boron, total	mg/L	0.180 J+	0.429	No Exceedance
AW-14	UA	Compliance	11/03/2023	A6DR	Boron, total	mg/L	0.240 J+	0.429	No Exceedance
AW-14	UA	Compliance	02/28/2023	A6	Calcium, total	mg/L	170	177	No Exceedance
AW-14	UA	Compliance	06/13/2023	A6R	Calcium, total	mg/L	180	177	Exceedance Not Confirmed
AW-14	UA	Compliance	08/23/2023	A6D	Calcium, total	mg/L	170	177	No Exceedance
AW-14	UA	Compliance	11/03/2023	A6DR	Calcium, total	mg/L	170	177	No Exceedance
AW-14	UA	Compliance	02/28/2023	A6	Chloride, total	mg/L	21.0	44.0	No Exceedance
AW-14	UA	Compliance	06/13/2023	A6R	Chloride, total	mg/L	24.0	44.0	No Exceedance
AW-14	UA	Compliance	08/23/2023	A6D	Chloride, total	mg/L	24.0	44.0	No Exceedance
AW-14	UA	Compliance	11/03/2023	A6DR	Chloride, total	mg/L	28.0	44.0	No Exceedance
AW-14	UA	Compliance	02/28/2023	A6	Fluoride, total	mg/L	0.0778 J	0.376	No Exceedance



**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
AW-14	UA	Compliance	06/13/2023	A6R	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-14	UA	Compliance	08/23/2023	A6D	Fluoride, total	mg/L	0.116 J	0.376	No Exceedance
AW-14	UA	Compliance	11/03/2023	A6DR	Fluoride, total	mg/L	0.0524 J	0.376	No Exceedance
AW-14	UA	Compliance	02/28/2023	A6	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-14	UA	Compliance	06/13/2023	A6R	pH (field)	SU	6.9	6.6/7.4	No Exceedance
AW-14	UA	Compliance	08/23/2023	A6D	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-14	UA	Compliance	11/03/2023	A6DR	pH (field)	SU	6.8	6.6/7.4	No Exceedance
AW-14	UA	Compliance	02/28/2023	A6	Sulfate, total	mg/L	5.70	80.7	No Exceedance
AW-14	UA	Compliance	06/13/2023	A6R	Sulfate, total	mg/L	2.90	80.7	No Exceedance
AW-14	UA	Compliance	08/23/2023	A6D	Sulfate, total	mg/L	1.80 J+	80.7	No Exceedance
AW-14	UA	Compliance	11/03/2023	A6DR	Sulfate, total	mg/L	6.50	80.7	No Exceedance
AW-14	UA	Compliance	02/28/2023	A6	Total Dissolved Solids	mg/L	1,100	955	Confirmed
AW-14	UA	Compliance	06/13/2023	A6R	Total Dissolved Solids	mg/L	1,000	955	Confirmed
AW-14	UA	Compliance	08/23/2023	A6D	Total Dissolved Solids	mg/L	960	955	Confirmed
AW-14	UA	Compliance	11/03/2023	A6DR	Total Dissolved Solids	mg/L	980	955	Confirmed
AW-15	UA	Compliance	02/27/2023	A6	Boron, total	mg/L	0.370	0.429	No Exceedance
AW-15	UA	Compliance	06/12/2023	A6R	Boron, total	mg/L	0.360	0.429	No Exceedance
AW-15	UA	Compliance	08/23/2023	A6D	Boron, total	mg/L	0.370	0.429	No Exceedance
AW-15	UA	Compliance	11/02/2023	A6DR	Boron, total	mg/L	0.400 J+	0.429	No Exceedance
AW-15	UA	Compliance	02/27/2023	A6	Calcium, total	mg/L	140	177	No Exceedance
AW-15	UA	Compliance	06/12/2023	A6R	Calcium, total	mg/L	140	177	No Exceedance
AW-15	UA	Compliance	08/23/2023	A6D	Calcium, total	mg/L	140	177	No Exceedance
AW-15	UA	Compliance	11/02/2023	A6DR	Calcium, total	mg/L	140	177	No Exceedance
AW-15	UA	Compliance	02/27/2023	A6	Chloride, total	mg/L	32.0	44.0	No Exceedance
AW-15	UA	Compliance	06/12/2023	A6R	Chloride, total	mg/L	35.0	44.0	No Exceedance
AW-15	UA	Compliance	08/23/2023	A6D	Chloride, total	mg/L	34.0	44.0	No Exceedance
AW-15	UA	Compliance	11/02/2023	A6DR	Chloride, total	mg/L	34.0	44.0	No Exceedance
AW-15	UA	Compliance	02/27/2023	A6	Fluoride, total	mg/L	0.067 J	0.376	No Exceedance
AW-15	UA	Compliance	06/12/2023	A6R	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-15	UA	Compliance	08/23/2023	A6D	Fluoride, total	mg/L	0.082 J	0.376	No Exceedance
AW-15	UA	Compliance	11/02/2023	A6DR	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-15	UA	Compliance	02/27/2023	A6	pH (field)	SU	6.8	6.6/7.4	No Exceedance
AW-15	UA	Compliance	06/12/2023	A6R	pH (field)	SU	6.6	6.6/7.4	No Exceedance
AW-15	UA	Compliance	08/23/2023	A6D	pH (field)	SU	6.8	6.6/7.4	No Exceedance
AW-15	UA	Compliance	11/02/2023	A6DR	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-15	UA	Compliance	02/27/2023	A6	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-15	UA	Compliance	06/12/2023	A6R	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-15	UA	Compliance	08/23/2023	A6D	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-15	UA	Compliance	11/02/2023	A6DR	Sulfate, total	mg/L	0.21 J	80.7	No Exceedance
AW-15	UA	Compliance	02/27/2023	A6	Total Dissolved Solids	mg/L	1,100	955	Confirmed
AW-15	UA	Compliance	06/12/2023	A6R	Total Dissolved Solids	mg/L	1,400	955	Confirmed
AW-15	UA	Compliance	08/23/2023	A6D	Total Dissolved Solids	mg/L	1,100	955	Confirmed
AW-15	UA	Compliance	11/17/2023	A6DR	Total Dissolved Solids	mg/L	1,000 J	955	Confirmed
AW-15S	PMP	Compliance	02/27/2023	A6	Boron, total	mg/L	5.90	0.429	Confirmed
AW-15S	PMP	Compliance	06/12/2023	A6R	Boron, total	mg/L	6.70	0.429	Confirmed
AW-15S	PMP	Compliance	08/23/2023	A6D	Boron, total	mg/L	5.70	0.429	Confirmed



**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
AW-15S	PMP	Compliance	11/02/2023	A6DR	Boron, total	mg/L	6.00	0.429	Confirmed
AW-15S	PMP	Compliance	02/27/2023	A6	Calcium, total	mg/L	260	177	Confirmed
AW-15S	PMP	Compliance	06/12/2023	A6R	Calcium, total	mg/L	280	177	Confirmed
AW-15S	PMP	Compliance	08/23/2023	A6D	Calcium, total	mg/L	270	177	Confirmed
AW-15S	PMP	Compliance	11/02/2023	A6DR	Calcium, total	mg/L	270	177	Confirmed
AW-15S	PMP	Compliance	02/27/2023	A6	Chloride, total	mg/L	28.0	44.0	No Exceedance
AW-15S	PMP	Compliance	06/12/2023	A6R	Chloride, total	mg/L	31.0	44.0	No Exceedance
AW-15S	PMP	Compliance	08/23/2023	A6D	Chloride, total	mg/L	31.0	44.0	No Exceedance
AW-15S	PMP	Compliance	11/02/2023	A6DR	Chloride, total	mg/L	30.0	44.0	No Exceedance
AW-15S	PMP	Compliance	02/27/2023	A6	Fluoride, total	mg/L	0.252	0.376	No Exceedance
AW-15S	PMP	Compliance	06/12/2023	A6R	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-15S	PMP	Compliance	08/23/2023	A6D	Fluoride, total	mg/L	0.284	0.376	No Exceedance
AW-15S	PMP	Compliance	11/02/2023	A6DR	Fluoride, total	mg/L	0.258	0.376	No Exceedance
AW-15S	PMP	Compliance	02/27/2023	A6	pH (field)	SU	6.8	6.6/7.4	No Exceedance
AW-15S	PMP	Compliance	06/12/2023	A6R	pH (field)	SU	6.7	6.6/7.4	No Exceedance
AW-15S	PMP	Compliance	08/23/2023	A6D	pH (field)	SU	6.9	6.6/7.4	No Exceedance
AW-15S	PMP	Compliance	11/02/2023	A6DR	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-15S	PMP	Compliance	02/27/2023	A6	Sulfate, total	mg/L	510	80.7	Confirmed
AW-15S	PMP	Compliance	06/12/2023	A6R	Sulfate, total	mg/L	590	80.7	Confirmed
AW-15S	PMP	Compliance	08/23/2023	A6D	Sulfate, total	mg/L	570	80.7	Confirmed
AW-15S	PMP	Compliance	11/02/2023	A6DR	Sulfate, total	mg/L	550	80.7	Confirmed
AW-15S	PMP	Compliance	02/27/2023	A6	Total Dissolved Solids	mg/L	1,300	955	Confirmed
AW-15S	PMP	Compliance	06/12/2023	A6R	Total Dissolved Solids	mg/L	990	955	Confirmed
AW-15S	PMP	Compliance	08/23/2023	A6D	Total Dissolved Solids	mg/L	1,400	955	Confirmed
AW-15S	PMP	Compliance	11/17/2023	A6DR	Total Dissolved Solids	mg/L	1,200	955	Confirmed
AW-16	UA	Compliance	02/28/2023	A6	Boron, total	mg/L	0.490	0.429	Confirmed
AW-16	UA	Compliance	06/12/2023	A6R	Boron, total	mg/L	0.450	0.429	Confirmed
AW-16	UA	Compliance	08/21/2023	A6D	Boron, total	mg/L	0.440	0.429	Exceedance Not Confirmed
AW-16	UA	Compliance	11/02/2023	A6DR	Boron, total	mg/L	0.420 J+	0.429	No Exceedance
AW-16	UA	Compliance	02/28/2023	A6	Calcium, total	mg/L	140	177	No Exceedance
AW-16	UA	Compliance	06/12/2023	A6R	Calcium, total	mg/L	150	177	No Exceedance
AW-16	UA	Compliance	08/21/2023	A6D	Calcium, total	mg/L	140	177	No Exceedance
AW-16	UA	Compliance	11/02/2023	A6DR	Calcium, total	mg/L	150	177	No Exceedance
AW-16	UA	Compliance	02/28/2023	A6	Chloride, total	mg/L	46.0	44.0	Confirmed
AW-16	UA	Compliance	06/12/2023	A6R	Chloride, total	mg/L	50.0	44.0	Confirmed
AW-16	UA	Compliance	08/21/2023	A6D	Chloride, total	mg/L	51.0	44.0	Confirmed
AW-16	UA	Compliance	11/02/2023	A6DR	Chloride, total	mg/L	48.0	44.0	Confirmed
AW-16	UA	Compliance	02/28/2023	A6	Fluoride, total	mg/L	0.0535 J	0.376	No Exceedance
AW-16	UA	Compliance	06/12/2023	A6R	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-16	UA	Compliance	08/21/2023	A6D	Fluoride, total	mg/L	0.087 J	0.376	No Exceedance
AW-16	UA	Compliance	11/02/2023	A6DR	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-16	UA	Compliance	02/28/2023	A6	pH (field)	SU	6.8	6.6/7.4	No Exceedance
AW-16	UA	Compliance	06/12/2023	A6R	pH (field)	SU	6.5	6.6/7.4	Exceedance Not Confirmed
AW-16	UA	Compliance	08/21/2023	A6D	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-16	UA	Compliance	11/02/2023	A6DR	pH (field)	SU	6.7	6.6/7.4	No Exceedance

**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
AW-16	UA	Compliance	02/28/2023	A6	Sulfate, total	mg/L	3.40	80.7	No Exceedance
AW-16	UA	Compliance	06/12/2023	A6R	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-16	UA	Compliance	08/21/2023	A6D	Sulfate, total	mg/L	0.61 J	80.7	No Exceedance
AW-16	UA	Compliance	11/02/2023	A6DR	Sulfate, total	mg/L	0.81 J	80.7	No Exceedance
AW-16	UA	Compliance	02/28/2023	A6	Total Dissolved Solids	mg/L	1,200	955	Confirmed
AW-16	UA	Compliance	06/12/2023	A6R	Total Dissolved Solids	mg/L	1,500	955	Confirmed
AW-16	UA	Compliance	08/21/2023	A6D	Total Dissolved Solids	mg/L	1,200	955	Confirmed
AW-16	UA	Compliance	11/17/2023	A6DR	Total Dissolved Solids	mg/L	1,100 J	955	Confirmed
AW-17	UA	Compliance	02/28/2023	A6	Boron, total	mg/L	0.420	0.429	No Exceedance
AW-17	UA	Compliance	06/13/2023	A6R	Boron, total	mg/L	0.400	0.429	No Exceedance
AW-17	UA	Compliance	08/21/2023	A6D	Boron, total	mg/L	0.410	0.429	No Exceedance
AW-17	UA	Compliance	11/01/2023	A6DR	Boron, total	mg/L	0.420 J+	0.429	No Exceedance
AW-17	UA	Compliance	02/28/2023	A6	Calcium, total	mg/L	110	177	No Exceedance
AW-17	UA	Compliance	06/13/2023	A6R	Calcium, total	mg/L	110	177	No Exceedance
AW-17	UA	Compliance	08/21/2023	A6D	Calcium, total	mg/L	110	177	No Exceedance
AW-17	UA	Compliance	11/01/2023	A6DR	Calcium, total	mg/L	100	177	No Exceedance
AW-17	UA	Compliance	02/28/2023	A6	Chloride, total	mg/L	47.0	44.0	Confirmed
AW-17	UA	Compliance	06/13/2023	A6R	Chloride, total	mg/L	53.0	44.0	Confirmed
AW-17	UA	Compliance	08/21/2023	A6D	Chloride, total	mg/L	54.0	44.0	Confirmed
AW-17	UA	Compliance	11/01/2023	A6DR	Chloride, total	mg/L	53.0	44.0	Confirmed
AW-17	UA	Compliance	02/28/2023	A6	Fluoride, total	mg/L	0.0605 J	0.376	No Exceedance
AW-17	UA	Compliance	06/13/2023	A6R	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-17	UA	Compliance	08/21/2023	A6D	Fluoride, total	mg/L	0.074 J	0.376	No Exceedance
AW-17	UA	Compliance	11/01/2023	A6DR	Fluoride, total	mg/L	0.0458 J-	0.376	No Exceedance
AW-17	UA	Compliance	02/28/2023	A6	pH (field)	SU	6.9	6.6/7.4	No Exceedance
AW-17	UA	Compliance	06/13/2023	A6R	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-17	UA	Compliance	08/21/2023	A6D	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-17	UA	Compliance	11/01/2023	A6DR	pH (field)	SU	6.8	6.6/7.4	No Exceedance
AW-17	UA	Compliance	02/28/2023	A6	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-17	UA	Compliance	06/13/2023	A6R	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-17	UA	Compliance	08/21/2023	A6D	Sulfate, total	mg/L	0.22 J	80.7	No Exceedance
AW-17	UA	Compliance	11/01/2023	A6DR	Sulfate, total	mg/L	0.18 U	80.7	No Exceedance
AW-17	UA	Compliance	02/28/2023	A6	Total Dissolved Solids	mg/L	1,100	955	Confirmed
AW-17	UA	Compliance	06/13/2023	A6R	Total Dissolved Solids	mg/L	1,100	955	Confirmed
AW-17	UA	Compliance	08/21/2023	A6D	Total Dissolved Solids	mg/L	930	955	No Exceedance
AW-17	UA	Compliance	11/01/2023	A6DR	Total Dissolved Solids	mg/L	1,000	955	Exceedance Not Confirmed
AW-18	UA	Compliance	02/27/2023	A6	Boron, total	mg/L	0.380	0.429	No Exceedance
AW-18	UA	Compliance	06/14/2023	A6R	Boron, total	mg/L	1.30 J+	0.429	Exceedance Not Confirmed
AW-18	UA	Compliance	08/22/2023	A6D	Boron, total	mg/L	1.20	0.429	Exceedance Not Confirmed
AW-18	UA	Compliance	11/01/2023	A6DR	Boron, total	mg/L	0.330 J+	0.429	No Exceedance
AW-18	UA	Compliance	02/27/2023	A6	Calcium, total	mg/L	140	177	No Exceedance
AW-18	UA	Compliance	06/14/2023	A6R	Calcium, total	mg/L	120	177	No Exceedance
AW-18	UA	Compliance	08/22/2023	A6D	Calcium, total	mg/L	130	177	No Exceedance
AW-18	UA	Compliance	11/01/2023	A6DR	Calcium, total	mg/L	120	177	No Exceedance
AW-18	UA	Compliance	02/27/2023	A6	Chloride, total	mg/L	81.0	44.0	Confirmed

**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
AW-18	UA	Compliance	06/14/2023	A6R	Chloride, total	mg/L	97.0	44.0	Confirmed
AW-18	UA	Compliance	08/22/2023	A6D	Chloride, total	mg/L	91.0	44.0	Confirmed
AW-18	UA	Compliance	11/01/2023	A6DR	Chloride, total	mg/L	89.0	44.0	Confirmed
AW-18	UA	Compliance	02/27/2023	A6	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-18	UA	Compliance	06/14/2023	A6R	Fluoride, total	mg/L	0.04 U	0.376	No Exceedance
AW-18	UA	Compliance	08/22/2023	A6D	Fluoride, total	mg/L	0.196 J	0.376	No Exceedance
AW-18	UA	Compliance	11/01/2023	A6DR	Fluoride, total	mg/L	0.0915 J	0.376	No Exceedance
AW-18	UA	Compliance	02/27/2023	A6	pH (field)	SU	6.9	6.6/7.4	No Exceedance
AW-18	UA	Compliance	06/14/2023	A6R	pH (field)	SU	6.7	6.6/7.4	No Exceedance
AW-18	UA	Compliance	08/22/2023	A6D	pH (field)	SU	6.6	6.6/7.4	No Exceedance
AW-18	UA	Compliance	11/01/2023	A6DR	pH (field)	SU	6.8	6.6/7.4	No Exceedance
AW-18	UA	Compliance	02/27/2023	A6	Sulfate, total	mg/L	10.0	80.7	No Exceedance
AW-18	UA	Compliance	06/14/2023	A6R	Sulfate, total	mg/L	7.70	80.7	No Exceedance
AW-18	UA	Compliance	08/22/2023	A6D	Sulfate, total	mg/L	6.90	80.7	No Exceedance
AW-18	UA	Compliance	11/01/2023	A6DR	Sulfate, total	mg/L	8.20	80.7	No Exceedance
AW-18	UA	Compliance	02/27/2023	A6	Total Dissolved Solids	mg/L	830	955	No Exceedance
AW-18	UA	Compliance	06/14/2023	A6R	Total Dissolved Solids	mg/L	930 J+	955	No Exceedance
AW-18	UA	Compliance	08/22/2023	A6D	Total Dissolved Solids	mg/L	850	955	No Exceedance
AW-18	UA	Compliance	11/01/2023	A6DR	Total Dissolved Solids	mg/L	800 J	955	No Exceedance
AW-19	UA	Compliance	02/27/2023	A6	Boron, total	mg/L	2.90	0.429	Confirmed
AW-19	UA	Compliance	06/14/2023	A6R	Boron, total	mg/L	2.30	0.429	Confirmed
AW-19	UA	Compliance	08/22/2023	A6D	Boron, total	mg/L	2.90	0.429	Confirmed
AW-19	UA	Compliance	11/01/2023	A6DR	Boron, total	mg/L	3.20	0.429	Confirmed
AW-19	UA	Compliance	02/27/2023	A6	Calcium, total	mg/L	130	177	No Exceedance
AW-19	UA	Compliance	06/14/2023	A6R	Calcium, total	mg/L	120	177	No Exceedance
AW-19	UA	Compliance	08/22/2023	A6D	Calcium, total	mg/L	120	177	No Exceedance
AW-19	UA	Compliance	11/01/2023	A6DR	Calcium, total	mg/L	120	177	No Exceedance
AW-19	UA	Compliance	02/27/2023	A6	Chloride, total	mg/L	69.0	44.0	Confirmed
AW-19	UA	Compliance	06/14/2023	A6R	Chloride, total	mg/L	82.0	44.0	Confirmed
AW-19	UA	Compliance	08/22/2023	A6D	Chloride, total	mg/L	79.0	44.0	Confirmed
AW-19	UA	Compliance	11/01/2023	A6DR	Chloride, total	mg/L	77.0	44.0	Confirmed
AW-19	UA	Compliance	02/27/2023	A6	Fluoride, total	mg/L	0.336	0.376	No Exceedance
AW-19	UA	Compliance	06/14/2023	A6R	Fluoride, total	mg/L	0.266	0.376	No Exceedance
AW-19	UA	Compliance	08/22/2023	A6D	Fluoride, total	mg/L	0.313	0.376	No Exceedance
AW-19	UA	Compliance	11/01/2023	A6DR	Fluoride, total	mg/L	0.212 J	0.376	No Exceedance
AW-19	UA	Compliance	02/27/2023	A6	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-19	UA	Compliance	06/14/2023	A6R	pH (field)	SU	6.9	6.6/7.4	No Exceedance
AW-19	UA	Compliance	08/22/2023	A6D	pH (field)	SU	6.5	6.6/7.4	Exceedance Not Confirmed
AW-19	UA	Compliance	11/01/2023	A6DR	pH (field)	SU	7.0	6.6/7.4	No Exceedance
AW-19	UA	Compliance	02/27/2023	A6	Sulfate, total	mg/L	46.0	80.7	No Exceedance
AW-19	UA	Compliance	06/14/2023	A6R	Sulfate, total	mg/L	52.0	80.7	No Exceedance
AW-19	UA	Compliance	08/22/2023	A6D	Sulfate, total	mg/L	55.0	80.7	No Exceedance
AW-19	UA	Compliance	11/01/2023	A6DR	Sulfate, total	mg/L	57.0	80.7	No Exceedance
AW-19	UA	Compliance	02/27/2023	A6	Total Dissolved Solids	mg/L	600	955	No Exceedance
AW-19	UA	Compliance	06/14/2023	A6R	Total Dissolved Solids	mg/L	620 J+	955	No Exceedance
AW-19	UA	Compliance	08/22/2023	A6D	Total Dissolved Solids	mg/L	680	955	No Exceedance

**TABLE 2**  
**ANALYTICAL RESULTS - APPENDIX III PARAMETERS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
AW-19	UA	Compliance	11/01/2023	A6DR	Total Dissolved Solids	mg/L	760	955	No Exceedance
AW-21	UA	Compliance	02/28/2023	A6	Boron, total	mg/L	13.0	0.429	Confirmed
AW-21	UA	Compliance	06/14/2023	A6R	Boron, total	mg/L	8.70	0.429	Confirmed
AW-21	UA	Compliance	08/22/2023	A6D	Boron, total	mg/L	12.0	0.429	Confirmed
AW-21	UA	Compliance	11/02/2023	A6DR	Boron, total	mg/L	12.0	0.429	Confirmed
AW-21	UA	Compliance	02/28/2023	A6	Calcium, total	mg/L	110	177	No Exceedance
AW-21	UA	Compliance	06/14/2023	A6R	Calcium, total	mg/L	110	177	No Exceedance
AW-21	UA	Compliance	08/22/2023	A6D	Calcium, total	mg/L	120	177	No Exceedance
AW-21	UA	Compliance	11/02/2023	A6DR	Calcium, total	mg/L	120	177	No Exceedance
AW-21	UA	Compliance	02/28/2023	A6	Chloride, total	mg/L	80.0	44.0	Confirmed
AW-21	UA	Compliance	06/14/2023	A6R	Chloride, total	mg/L	97.0	44.0	Confirmed
AW-21	UA	Compliance	08/22/2023	A6D	Chloride, total	mg/L	83.0	44.0	Confirmed
AW-21	UA	Compliance	11/02/2023	A6DR	Chloride, total	mg/L	97.0	44.0	Confirmed
AW-21	UA	Compliance	02/28/2023	A6	Fluoride, total	mg/L	0.360	0.376	No Exceedance
AW-21	UA	Compliance	06/14/2023	A6R	Fluoride, total	mg/L	0.312	0.376	No Exceedance
AW-21	UA	Compliance	08/22/2023	A6D	Fluoride, total	mg/L	0.303	0.376	No Exceedance
AW-21	UA	Compliance	11/02/2023	A6DR	Fluoride, total	mg/L	0.399	0.376	Exceedance Not Confirmed
AW-21	UA	Compliance	02/28/2023	A6	pH (field)	SU	8.0	6.6/7.4	Exceedance Not Confirmed
AW-21	UA	Compliance	06/14/2023	A6R	pH (field)	SU	7.1	6.6/7.4	No Exceedance
AW-21	UA	Compliance	08/22/2023	A6D	pH (field)	SU	6.5	6.6/7.4	Exceedance Not Confirmed
AW-21	UA	Compliance	11/02/2023	A6DR	pH (field)	SU	7.2	6.6/7.4	No Exceedance
AW-21	UA	Compliance	02/28/2023	A6	Sulfate, total	mg/L	240	80.7	Confirmed
AW-21	UA	Compliance	06/14/2023	A6R	Sulfate, total	mg/L	240	80.7	Confirmed
AW-21	UA	Compliance	08/22/2023	A6D	Sulfate, total	mg/L	280	80.7	Confirmed
AW-21	UA	Compliance	11/02/2023	A6DR	Sulfate, total	mg/L	260	80.7	Confirmed
AW-21	UA	Compliance	02/28/2023	A6	Total Dissolved Solids	mg/L	680	955	No Exceedance
AW-21	UA	Compliance	06/14/2023	A6R	Total Dissolved Solids	mg/L	680 J+	955	No Exceedance
AW-21	UA	Compliance	08/22/2023	A6D	Total Dissolved Solids	mg/L	820	955	No Exceedance
AW-21	UA	Compliance	11/17/2023	A6DR	Total Dissolved Solids	mg/L	690	955	No Exceedance

**Notes:**

HSU = hydrostratigraphic unit:

PMP = Potential Migration Pathway

UA = Uppermost Aquifer

ID = identification

mg/L = milligrams per liter

NA = not applicable

R = resample

Statistically Significant Increase (SSI) Type:

No Exceedance: No exceedance of the background.

Exceedance Not Confirmed: An exceedance was determined in the parent event, a resample was collected, and the resample did not confirm the exceedance.

Confirmed: An exceedance was determined with comparison to a resample. If a determined exceedance is confirmed by resample, both the sample and resample are noted as confirmed.

SU = Standard Units

J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

J- = The result is an estimated quantity, but the result may be biased low.

J+ = The result is an estimated quantity, but the result may be biased high.

U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.



**TABLE 3**  
**ANALYTICAL RESULTS - APPENDIX IV PARAMETERS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Well Type	Date	Event ID	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Fluoride, total (mg/L)	Lead, total (mg/L)	Lithium, total (mg/L)	Mercury, total (mg/L)	Molybdenum, total (mg/L)	Radium 226 + 228 (pCi/L)	Selenium, total (mg/L)	Thallium, total (mg/L)
AP05S	B	02/28/2023	A6	0.00043 U	0.00730	0.940	0.00063 J	0.00074 U	0.0250	0.0120	0.088 J	0.0140	0.0390	0.00014 U	0.00210	3.12	0.00074 U	0.00038 U
AP05S	B	06/14/2023	A6R	0.00043 U	0.00360	1.10	0.00059 U	0.00074 U	0.00860	0.00520	0.04 U	0.00510	0.0350	0.00014 U	0.00079 J	4.53	0.00074 U	0.00038 U
AP05S	B	08/23/2023	A6D	0.00043 U	0.00100	0.830	0.00059 U	0.00074 U	0.0028 U	0.0011 J	0.095 J	0.00035 J	0.0270	0.00014 U	0.00074 U	1.40	0.00074 U	0.00038 U
AP05S	B	11/06/2023	A6DR	0.00043 U	0.00270	1.00	0.00059 U	0.00074 U	0.00670	0.00420	0.04 U	0.00380 J+	0.0320	0.00018 J	0.00082 J	3.94	0.00047 J	0.00038 U
AW-08	B	02/28/2023	A6	0.00043 U	0.0110	0.200	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.223 J	0.00022 U	0.0097 J	0.00014 U	0.00180	0.261	0.00074 U	0.00038 U
AW-08	B	06/14/2023	A6R	0.00043 U	0.0100	0.190	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.0669 J	0.00022 U	0.0099 J	0.00014 U	0.00160	0.815	0.00074 U	0.00038 U
AW-08	B	08/28/2023	A6D	0.00043 U	0.00980	0.190	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.195 J	0.00022 U	0.013 J	0.00014 U	0.00180 J+	0.434	0.00074 U	0.00038 U
AW-08	B	11/06/2023	A6DR	0.00087 U	0.0880	5.80	0.0240	0.0150	0.680	0.400	0.175 J	0.420	0.660	0.00110	0.0140	29.1	0.0150	0.00410
AP07S	C	02/28/2023	A6	0.00043 U	0.00210	0.0870	0.00059 U	0.00350	0.0250	0.00480	0.248 J	0.00340	0.0067 J	0.00014 U	0.00350	0.782	0.00074 U	0.00038 U
AP07S	C	06/15/2023	A6R	0.00043 U	0.00110	0.110	0.00059 U	0.00074 U	0.0130	0.00430	0.151 J	0.00320	0.0088 J	0.00014 U	0.00120	1.20	0.00074 U	0.00038 U
AP07S	C	08/28/2023	A6D	0.00043 U	0.00069 U	0.0730	0.00059 U	0.00130	0.0028 U	0.00290	0.215 J	0.0009 J	0.0061 J	0.00014 U	0.00110 J+	1.26	0.00074 U	0.00038 U
AP07S	C	11/03/2023	A6DR	0.00043 U	0.00069 U	0.0480	0.00059 U	0.00074 U	0.0028 U	0.00260	0.229 J	0.0002 UJ	0.005 U	0.00014 U	0.00100	1.02	0.00013 U	0.00038 U
AW-01	C	01/10/2023	ADD	0.00064 J	0.00710	0.120	0.00059 U	0.00074 U	0.0028 U	0.00370	0.277	0.0007 J	0.0059 J	0.00014 U	0.00510	0	0.00074 U	0.00038 U
AW-01	C	02/28/2023	A6	0.00043 U	0.0200	0.170	0.00059 U	0.00074 U	0.0190	0.00700	0.177 J	0.00920	0.018 J	0.00014 U	0.00220	2.77	0.00110	0.00038 U
AW-01	C	06/14/2023	A6R	0.00043 U	0.00630	0.140	0.00059 U	0.00074 U	0.0028 U	0.00340	0.04 U	0.00022 U	0.005 U	0.00014 U	0.00340	0.773	0.00074 U	0.00038 U
AW-01	C	08/22/2023	A6D	0.00043 U	0.00510	0.130	0.00059 U	0.00074 U	0.0028 U	0.00380	0.280	0.00022 U	0.006 J	0.00014 J	0.00410	1.13	0.00074 U	0.00038 U
AW-01	C	11/06/2023	A6DR	0.00043 U	0.0120	0.140	0.00059 U	0.00074 U	0.00410	0.00600	0.14 J	0.00220 J+	0.007 J	0.00014 U	0.00340	4.72	0.00032 J	0.00038 U
AW-05	C	02/28/2023	A6	0.00043 U	0.00680	0.210	0.00059 U	0.00074 U	0.0200	0.0110	0.186 J	0.00910	0.0250	0.00014 U	0.00260	1.44	0.00120	0.00038 U
AW-05	C	06/15/2023	A6R	0.00043 U	0.00450	0.160	0.00059 U	0.00074 U	0.0100	0.00640	0.173 J	0.00440	0.017 J	0.00014 U	0.00230	3.09	0.00074 U	0.00038 U
AW-05	C	08/28/2023	A6D	0.00043 U	0.00330	0.130	0.00059 U	0.00074 U	0.00730	0.00530	0.166 J	0.00370	0.017 J	0.000440	0.00250 J+	0.0965	0.00074 U	0.00038 U
AW-05	C	11/06/2023	A6DR	0.00043 U	0.00320	0.110	0.00059 U	0.00074 U	0.00420	0.00330	0.139 J	0.00180 J+	0.013 J	0.00014 U	0.00220	0.465	0.00028 J	0.00038 U
AW-06	C	02/28/2023	A6	0.00043 U	0.00640	0.190	0.00059 U	0.00074 U	0.0028 U	0.00096 J	0.327	0.00058 J	0.012 J	0.00014 U	0.00530	0.489	0.00074 U	0.00038 U
AW-06	C	06/14/2023	A6R	0.00071 J	0.00300	0.160	0.00059 U	0.00074 U	0.0028 U	0.0006 J	0.319	0.00049 J	0.012 J	0.00014 U	0.00490	0.910	0.00074 U	0.00038 U
AW-06	C	08/28/2023	A6D	0.00043 U	0.00520	0.190	0.00059 U	0.00074 U	0.0028 U	0.00098 J	0.284	0.00074 J	0.013 J	0.00015 J	0.00600 J+	0.107	0.00074 U	0.00038 U
AW-06	C	11/06/2023	A6DR	0.00043 U	0.00440	0.180	0.00059 U	0.00074 U	0.0032 J	0.0016 J	0.282	0.00160 J+	0.014 J	0.00014 U	0.00470	0.785	0.00025 J	0.00038 U
AW-09	C	02/28/2023	A6	0.00043 U	0.0120	0.200	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.04 U	0.00022 U	0.013 J	0.00014 U	0.00190	1.12	0.00074 U	0.00038 U
AW-09	C	06/12/2023	A6R	0.00043 U	0.0100	0.290	0.00059 U	0.00074 U	0.0028 U	0.00220	0.04 U	0.00031 J	0.015 J	0.00014 U	0.0210	0.230	0.00074 U	0.00038 U

**TABLE 3**  
**ANALYTICAL RESULTS - APPENDIX IV PARAMETERS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	Well Type	Date	Event ID	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Fluoride, total (mg/L)	Lead, total (mg/L)	Lithium, total (mg/L)	Mercury, total (mg/L)	Molybdenum, total (mg/L)	Radium 226 + 228 (pCi/L)	Selenium, total (mg/L)	Thallium, total (mg/L)
AW-09	C	08/29/2023	A6D	0.00043 U	0.0170	0.390	0.00059 U	0.00074 U	0.0028 U	0.00300	0.145 J	0.00130	0.019 J	0.00014 U	0.0210	1.52	0.00074 U	0.00038 U
AW-09	C	11/06/2023	A6DR	0.00043 U	0.0240	0.430	0.00059 U	0.00074 U	0.0028 U	0.00310	0.128 J	0.00120 J+	0.017 J	0.00014 U	0.0210	1.35	0.00026 J	0.00038 U
AW-10	C	02/28/2023	A6	0.00043 U	0.0160	1.30	0.00059 U	0.00074 U	0.00950	0.00680	0.0973 J	0.00620	0.0430	0.00014 U	0.00120	1.57	0.00074 U	0.00038 U
AW-10	C	06/13/2023	A6R	0.00043 U	0.00990	0.990	0.00059 U	0.00074 U	0.0028 U	0.00300	0.04 U	0.00140	0.0370	0.00014 U	0.00120 J	2.95	0.00074 U	0.00038 U
AW-10	C	08/28/2023	A6D	0.00043 U	0.0130	1.10	0.00059 U	0.00074 U	0.0100	0.00770	0.182 J	0.00800	0.0480	0.00014 U	0.00110 J+	4.03	0.00074 U	0.00038 U
AW-10	C	11/06/2023	A6DR	0.00051 J	0.0120	1.00	0.00130	0.00074 U	0.0290	0.0180	0.04 U	0.0180	0.0580	0.00014 U	0.00190	3.58	0.00110	0.00068 J
AW-11	C	02/28/2023	A6	0.00043 U	0.0130	1.10	0.00059 U	0.00074 U	0.0170	0.0100	0.0647 J	0.0100	0.0310	0.00014 U	0.00320	2.25	0.00074 U	0.00038 U
AW-11	C	06/13/2023	A6R	0.00043 U	0.00990	0.940	0.00059 U	0.00074 U	0.0028 U	0.0015 J	0.04 U	0.00041 J	0.018 J	0.00014 U	0.00140	2.29	0.00074 U	0.00038 U
AW-11	C	08/28/2023	A6D	0.00043 U	0.0110	0.870	0.00059 U	0.00074 U	0.0028 U	0.0019 J	0.153 J	0.00086 J	0.0210	0.00014 U	0.00170 J+	2.45	0.00074 U	0.00038 U
AW-11	C	11/03/2023	A6DR	0.00043 U	0.0110	0.840	0.00059 U	0.00074 U	0.0028 U	0.0019 J	0.0662 J	0.0002 UJ	0.018 J	0.00014 U	0.00200	1.94	0.00027 J	0.00038 U
AW-14	C	02/28/2023	A6	0.002 J	0.0150	0.720	0.00059 U	0.00074 U	0.0028 U	0.00480	0.0778 J	0.00170	0.017 J	0.00014 U	0.0190	1.30	0.00086 J	0.00038 U
AW-14	C	06/13/2023	A6R	0.00046 J	0.00780	0.800	0.00059 U	0.00074 U	0.0028 U	0.00200	0.04 U	0.00022 U	0.014 J	0.00014 U	0.00390	3.46	0.00074 U	0.00038 U
AW-14	C	08/23/2023	A6D	0.00043 U	0.00520	0.840	0.00059 U	0.00074 U	0.0028 U	0.0019 J	0.116 J	0.00022 U	0.016 J	0.00014 U	0.00140	3.53	0.00074 U	0.00038 U
AW-14	C	11/03/2023	A6DR	0.00054 J	0.00410	0.830	0.00059 U	0.00074 U	0.0028 U	0.0018 J	0.0524 J	0.0002 UJ	0.016 J	0.00014 U	0.00180	1.87	0.0005 J	0.00038 U
AW-15	C	02/27/2023	A6	0.00043 U	0.00350	1.80	0.00059 U	0.00074 U	0.0028 U	0.0018 J	0.067 J	0.00027 J	0.0270	0.000210	0.00074 U	7.65	0.00074 U	0.00038 U
AW-15	C	06/12/2023	A6R	0.00043 U	0.00200	1.90	0.00059 U	0.00074 U	0.0028 U	0.0016 J	0.04 U	0.00022 U	0.0300	0.00014 U	0.00074 U	3.80	0.00074 U	0.00038 U
AW-15	C	08/23/2023	A6D	0.00043 U	0.00130	1.80	0.00059 U	0.00074 U	0.0028 U	0.0016 J	0.082 J	0.00022 U	0.0280	0.00014 U	0.00074 U	6.12	0.00074 U	0.00038 U
AW-15	C	11/02/2023	A6DR	0.00043 U	0.00180	1.90	0.00059 U	0.00074 U	0.0028 U	0.0017 J	0.04 U	0.00022 U	0.0290	0.00015 J	0.00074 U	5.52	0.00036 J	0.00038 U
AW-15S	C	02/27/2023	A6	0.00043 U	0.00180	0.0810	0.00059 U	0.00074 U	0.0028 U	0.00048 U	0.252	0.00022 U	0.013 J	0.00015 J	0.00300	1.99	0.00074 J	0.00038 U
AW-15S	C	06/12/2023	A6R	0.00043 U	0.00069 U	0.0750	0.00059 U	0.00074 U	0.0028 U	0.00049 J	0.04 U	0.00022 U	0.013 J	0.00014 U	0.00300	0.203	0.00180	0.00038 U
AW-15S	C	08/23/2023	A6D	0.00043 U	0.00069 U	0.0870	0.00059 U	0.00074 U	0.0028 U	0.00059 J	0.284	0.00022 U	0.014 J	0.00014 U	0.00270	1.02	0.00074 U	0.00038 U
AW-15S	C	11/02/2023	A6DR	0.00043 U	0.00069 U	0.0840	0.00059 U	0.00074 U	0.0028 U	0.00065 J	0.258	0.00022 U	0.014 J	0.00014 U	0.00350	1.70	0.00100	0.00038 U
AW-16	C	02/28/2023	A6	0.00043 U	0.00220	1.30	0.00059 U	0.00074 U	0.0028 U	0.0015 J	0.0535 J	0.00022 U	0.0370	0.00014 U	0.00074 U	3.13	0.00074 U	0.00038 U
AW-16	C	06/12/2023	A6R	0.00043 U	0.00170	1.30	0.00059 U	0.00074 U	0.0028 U	0.0016 J	0.04 U	0.00022 U	0.0310	0.00014 U	0.00074 U	3.74	0.00074 U	0.00038 U
AW-16	C	08/21/2023	A6D	0.00043 U	0.00069 U	1.10	0.00059 U	0.00074 U	0.0028 U	0.0015 J	0.087 J	0.00022 U	0.0320	0.000390 J	0.00074 U	3.95	0.00074 U	0.00038 U
AW-16	C	11/02/2023	A6DR	0.00043 U	0.00120	1.10	0.00059 U	0.00074 U	0.0028 U	0.0016 J	0.04 U	0.00022 U	0.0290	0.00018 J	0.00074 U	3.93	0.00024 J	0.00038 U
AW-17	C	02/28/2023	A6	0.00043 U	0.00610	1.20	0.00059 U	0.00074 U	0.00400	0.00340	0.0605 J	0.00180	0.0340	0.00014 U	0.00078 J	3.46	0.00074 U	0.00038 U

**TABLE 3**  
**ANALYTICAL RESULTS - APPENDIX IV PARAMETERS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	Well Type	Date	Event ID	Antimony, total (mg/L)	Arsenic, total (mg/L)	Barium, total (mg/L)	Beryllium, total (mg/L)	Cadmium, total (mg/L)	Chromium, total (mg/L)	Cobalt, total (mg/L)	Fluoride, total (mg/L)	Lead, total (mg/L)	Lithium, total (mg/L)	Mercury, total (mg/L)	Molybdenum, total (mg/L)	Radium 226 + 228 (pCi/L)	Selenium, total (mg/L)	Thallium, total (mg/L)
AW-17	C	06/13/2023	A6R	0.00043 U	0.00450	1.10	0.00059 U	0.00074 U	0.0028 U	0.00250	0.04 U	0.00099 J	0.0310	0.00014 U	0.00074 U	2.97	0.00074 U	0.00038 U
AW-17	C	08/21/2023	A6D	0.00043 U	0.00320	1.00	0.00059 U	0.00074 U	0.0028 U	0.00220	0.074 J	0.00077 J	0.0340	0.000410	0.00074 J	2.64	0.00074 U	0.00038 U
AW-17	C	11/01/2023	A6DR	0.00043 U	0.00360	0.970	0.00059 U	0.00074 U	0.0028 U	0.00220	0.0458 J-	0.0002 UJ	0.0330	0.00014 U	0.00074 U	2.75	0.00074 U	0.00038 U
AW-18	C	02/27/2023	A6	0.00049 J	0.00800	1.80	0.00059 U	0.00074 U	0.0620	0.00620	0.04 U	0.00800	0.0350	0.00014 U	0.00510	3.69	0.0008 J	0.00038 U
AW-18	C	06/14/2023	A6R	0.00043 U	0.00330	1.30	0.00059 U	0.00074 U	0.0037 J	0.0013 J	0.04 U	0.00110	0.0220	0.00014 U	0.00260	2.92	0.00074 U	0.00038 U
AW-18	C	08/22/2023	A6D	0.00043 U	0.00260	1.30	0.00059 U	0.00074 U	0.0028 U	0.00087 J	0.196 J	0.00039 J	0.0250	0.00014 U	0.00320	6.06	0.00074 U	0.00038 U
AW-18	C	11/01/2023	A6DR	0.00043 U	0.00420	1.50	0.00059 U	0.00074 U	0.003 J	0.0014 J	0.0915 J	0.00130 J+	0.0270	0.00014 U	0.00150	4.06	0.00074 U	0.00038 U
AW-19	C	02/27/2023	A6	0.00043 U	0.0220	0.370	0.00059 U	0.00074 U	0.0310	0.00480	0.336	0.00540	0.015 J	0.00014 U	0.00550	1.59	0.00074 U	0.00038 U
AW-19	C	06/14/2023	A6R	0.00043 U	0.0150	0.200	0.00059 U	0.00074 U	0.0028 U	0.0017 J	0.266	0.00170 J	0.011 J	0.00014 U	0.00390	0.471	0.00074 U	0.00038 U
AW-19	C	08/22/2023	A6D	0.00043 U	0.0120	0.200	0.00059 U	0.00074 U	0.0028 U	0.0011 J	0.313	0.00088 J	0.012 J	0.00014 U	0.00360	1.75	0.00074 U	0.00038 U
AW-19	C	11/01/2023	A6DR	0.00043 U	0.0100	0.190	0.00059 U	0.00074 U	0.0028 U	0.0011 J	0.212 J	0.0002 UJ	0.011 J	0.00014 U	0.00410	0.982	0.00074 U	0.00038 U
AW-21	C	02/28/2023	A6	0.00079 J	0.00270	0.0580	0.00059 U	0.00074 U	0.0033 J	0.00078 J	0.360	0.00022 U	0.005 U	0.00014 U	0.0290	0.642	0.00170	0.00038 U
AW-21	C	06/14/2023	A6R	0.00057 J	0.00180	0.0590	0.00059 U	0.00074 U	0.0028 U	0.00063 J	0.312	0.00022 U	0.005 U	0.00014 U	0.0170	0.326	0.00074 U	0.00038 U
AW-21	C	08/22/2023	A6D	0.0012 J	0.00069 U	0.0580	0.00059 U	0.00074 U	0.0028 U	0.00056 J	0.303	0.00022 U	0.0064 J	0.00014 U	0.0290	0.936	0.00380	0.00038 U
AW-21	C	11/02/2023	A6DR	0.0006 J	0.00097 J	0.0510	0.00059 U	0.00074 U	0.0028 U	0.00057 J	0.399	0.00022 U	0.005 U	0.00014 U	0.0280	1.26	0.00300	0.00038 U

**Notes:**  
 ID = identification  
 mg/L = milligrams per liter  
 pCi/L = picoCuries per liter  
 J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.  
 J- = The result is an estimated quantity, but the result may be biased low.  
 J+ = The result is an estimated quantity, but the result may be biased high.  
 U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.  
 UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.  
 Well Type:  
 B = Background  
 C = Compliance

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**TABLE 4**  
**STATISTICAL BACKGROUND VALUES**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Parameter	Date Range	Sample Count	Percent Non-Detects	Statistical Calculation	Statistical Background Value (LPL/UPL)
Boron (mg/L)	11/09/2015 - 08/23/2017	16	0	Parametric UPL	0.429
Calcium (mg/L)	11/09/2015 - 08/23/2017	16	0	Parametric UPL	177
Chloride (mg/L)	11/09/2015 - 08/23/2017	16	0	Non-parametric UPL	44.0
Fluoride (mg/L)	11/09/2015 - 08/23/2017	16	69	Non-parametric UPL	0.376
pH (field) (SU)	11/09/2015 - 08/23/2017	16	0	Parametric LPL/UPL	6.6/7.4
Sulfate (mg/L)	11/09/2015 - 08/23/2017	16	0	Parametric UPL	80.7
Total Dissolved Solids (mg/L)	11/09/2015 - 08/23/2017	16	0	Parametric UPL	955

**Notes:**  
 LPL = lower prediction limit (applicable for pH only)  
 mg/L = milligrams per liter  
 SU = standard units  
 UPL = upper prediction limit

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**TABLE 5**  
**GROUNDWATER PROTECTION STANDARDS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Parameter	Background					MCL/HBL	Groundwater Protection Standard*	Groundwater Protection Standard Source
	Date Range	Sample Count	Percent Non-Detects	Statistical Calculation	Value			
Antimony (mg/L)	11/09/2015 - 08/23/2017	16	94	Non-parametric UTL	0.00410	0.006	0.006	MCL/HBL
Arsenic (mg/L)	11/09/2015 - 08/23/2017	16	0	Parametric UTL	0.0187	0.010	0.0187	Background
Barium (mg/L)	11/09/2015 - 08/23/2017	16	0	Non-parametric UTL	0.790	2.0	2.0	MCL/HBL
Beryllium (mg/L)	11/09/2015 - 08/23/2017	16	94	Non-parametric UTL	0.0140	0.004	0.0140	Background
Cadmium (mg/L)	11/09/2015 - 08/23/2017	16	100	All ND - Last Reporting Limit	0.001	0.005	0.005	MCL/HBL
Chromium (mg/L)	11/09/2015 - 08/23/2017	16	100	All ND - Last Reporting Limit	0.004	0.1	0.1	MCL/HBL
Cobalt (mg/L)	11/09/2015 - 08/23/2017	16	56	Non-parametric UTL	0.00530	0.006	0.006	MCL/HBL
Fluoride (mg/L)	11/09/2015 - 08/23/2017	16	69	Non-parametric UTL	0.376	4.0	4.0	MCL/HBL
Lead (mg/L)	11/09/2015 - 08/23/2017	16	94	Non-parametric UTL	0.00100	0.015	0.015	MCL/HBL
Lithium (mg/L)	11/09/2015 - 08/23/2017	16	0	Parametric UTL	0.0541	0.04	0.0541	Background
Mercury (mg/L)	11/09/2015 - 08/23/2017	16	100	All ND - Last Reporting Limit	0.0002	0.002	0.002	MCL/HBL
Molybdenum (mg/L)	11/09/2015 - 08/23/2017	16	0	Parametric UTL	0.0225	0.1	0.1	MCL/HBL
Radium 226 + Radium 228 (pCi/L)	11/09/2015 - 08/23/2017	16	0	Parametric UTL	2.93	5	5	MCL/HBL
Selenium (mg/L)	11/09/2015 - 08/23/2017	16	94	Non-parametric UTL	0.00120	0.05	0.05	MCL/HBL
Thallium (mg/L)	11/09/2015 - 08/23/2017	16	100	All ND - Last Reporting Limit	0.001	0.002	0.002	MCL/HBL

**Notes:**  
 \* Groundwater Protection Standard is the higher of the MCL/HBL or background.  
 MCL/HBL = maximum contaminant level/health-based level  
 mg/L = milligrams per liter  
 ND = non-detect  
 pCi/L = picoCuries per liter  
 UTL = upper tolerance limit

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**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AP07S	PMP	A6	Antimony, total	mg/L	02/10/2021 - 02/28/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AP07S	PMP	A6R	Antimony, total	mg/L	02/10/2021 - 06/15/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AP07S	PMP	A6D	Antimony, total	mg/L	02/10/2021 - 08/28/2023	11	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AP07S	PMP	A6DR	Antimony, total	mg/L	02/10/2021 - 11/03/2023	12	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AP07S	PMP	A6	Arsenic, total	mg/L	02/10/2021 - 02/28/2023	9	89	CI around median	0.001	0.0187	Background	No Exceedance
AP07S	PMP	A6R	Arsenic, total	mg/L	02/10/2021 - 06/15/2023	10	80	CI around median	0.001	0.0187	Background	No Exceedance
AP07S	PMP	A6D	Arsenic, total	mg/L	02/10/2021 - 08/28/2023	11	82	CI around median	0.001	0.0187	Background	No Exceedance
AP07S	PMP	A6DR	Arsenic, total	mg/L	02/10/2021 - 11/03/2023	12	83	CI around median	0.001	0.0187	Background	No Exceedance
AP07S	PMP	A6	Barium, total	mg/L	02/10/2021 - 02/28/2023	9	0	CI around mean	0.0747	2.0	MCL/HBL	No Exceedance
AP07S	PMP	A6R	Barium, total	mg/L	02/10/2021 - 06/15/2023	10	0	CI around mean	0.0791	2.0	MCL/HBL	No Exceedance
AP07S	PMP	A6D	Barium, total	mg/L	02/10/2021 - 08/28/2023	11	0	CI around mean	0.0778	2.0	MCL/HBL	No Exceedance
AP07S	PMP	A6DR	Barium, total	mg/L	02/10/2021 - 11/03/2023	12	0	CI around mean	0.0726	2.0	MCL/HBL	No Exceedance
AP07S	PMP	A6	Beryllium, total	mg/L	02/10/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AP07S	PMP	A6R	Beryllium, total	mg/L	02/10/2021 - 06/15/2023	10	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AP07S	PMP	A6D	Beryllium, total	mg/L	02/10/2021 - 08/28/2023	11	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AP07S	PMP	A6DR	Beryllium, total	mg/L	02/10/2021 - 11/03/2023	12	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AP07S	PMP	A6	Cadmium, total	mg/L	02/10/2021 - 02/28/2023	9	89	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AP07S	PMP	A6R	Cadmium, total	mg/L	02/10/2021 - 06/15/2023	10	90	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AP07S	PMP	A6D	Cadmium, total	mg/L	02/10/2021 - 08/28/2023	11	82	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AP07S	PMP	A6DR	Cadmium, total	mg/L	02/10/2021 - 11/03/2023	12	83	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AP07S	PMP	A6	Chromium, total	mg/L	02/10/2021 - 02/28/2023	9	67	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AP07S	PMP	A6R	Chromium, total	mg/L	02/10/2021 - 06/15/2023	10	60	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AP07S	PMP	A6D	Chromium, total	mg/L	02/10/2021 - 08/28/2023	11	64	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AP07S	PMP	A6DR	Chromium, total	mg/L	02/10/2021 - 11/03/2023	12	67	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AP07S	PMP	A6	Cobalt, total	mg/L	02/10/2021 - 02/28/2023	9	0	CI around mean	0.0021	0.006	MCL/HBL	No Exceedance
AP07S	PMP	A6R	Cobalt, total	mg/L	02/10/2021 - 06/15/2023	10	0	CI around mean	0.00228	0.006	MCL/HBL	No Exceedance
AP07S	PMP	A6D	Cobalt, total	mg/L	02/10/2021 - 08/28/2023	11	0	CI around mean	0.00235	0.006	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AP07S	PMP	A6DR	Cobalt, total	mg/L	02/10/2021 - 11/03/2023	12	0	CI around mean	0.00238	0.006	MCL/HBL	No Exceedance
AP07S	PMP	A6	Fluoride, total	mg/L	02/10/2021 - 02/28/2023	9	67	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AP07S	PMP	A6R	Fluoride, total	mg/L	02/10/2021 - 06/15/2023	10	70	CB around T-S line	-2.23	4.0	MCL/HBL	No Exceedance
AP07S	PMP	A6D	Fluoride, total	mg/L	02/10/2021 - 08/28/2023	11	73	CB around T-S line	-1.69	4.0	MCL/HBL	No Exceedance
AP07S	PMP	A6DR	Fluoride, total	mg/L	02/10/2021 - 11/03/2023	12	75	CB around T-S line	-1.21	4.0	MCL/HBL	No Exceedance
AP07S	PMP	A6	Lead, total	mg/L	02/10/2021 - 02/28/2023	9	56	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AP07S	PMP	A6R	Lead, total	mg/L	02/10/2021 - 06/15/2023	10	50	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AP07S	PMP	A6D	Lead, total	mg/L	02/10/2021 - 08/28/2023	11	55	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AP07S	PMP	A6DR	Lead, total	mg/L	02/10/2021 - 11/03/2023	12	58	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AP07S	PMP	A6	Lithium, total	mg/L	02/10/2021 - 02/28/2023	9	100	All ND - Last	0.02	0.0541	Background	No Exceedance
AP07S	PMP	A6R	Lithium, total	mg/L	02/10/2021 - 06/15/2023	10	100	All ND - Last	0.02	0.0541	Background	No Exceedance
AP07S	PMP	A6D	Lithium, total	mg/L	02/10/2021 - 08/28/2023	11	100	All ND - Last	0.02	0.0541	Background	No Exceedance
AP07S	PMP	A6DR	Lithium, total	mg/L	02/10/2021 - 11/03/2023	12	100	All ND - Last	0.02	0.0541	Background	No Exceedance
AP07S	PMP	A6	Mercury, total	mg/L	02/10/2021 - 02/28/2023	9	89	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AP07S	PMP	A6R	Mercury, total	mg/L	02/10/2021 - 06/15/2023	10	90	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AP07S	PMP	A6D	Mercury, total	mg/L	02/10/2021 - 08/28/2023	11	91	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AP07S	PMP	A6DR	Mercury, total	mg/L	02/10/2021 - 11/03/2023	12	92	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AP07S	PMP	A6	Molybdenum, total	mg/L	02/10/2021 - 02/28/2023	9	56	CI around median	0.001	0.1	MCL/HBL	No Exceedance
AP07S	PMP	A6R	Molybdenum, total	mg/L	02/10/2021 - 06/15/2023	10	50	CI around median	0.001	0.1	MCL/HBL	No Exceedance
AP07S	PMP	A6D	Molybdenum, total	mg/L	02/10/2021 - 08/28/2023	11	45	CI around median	0.001	0.1	MCL/HBL	No Exceedance
AP07S	PMP	A6DR	Molybdenum, total	mg/L	02/10/2021 - 11/03/2023	12	42	CI around median	0.001	0.1	MCL/HBL	No Exceedance
AP07S	PMP	A6	Radium 226 + Radium 228, total	pCi/L	02/10/2021 - 02/28/2023	9	0	CI around mean	0.352	5	MCL/HBL	No Exceedance
AP07S	PMP	A6R	Radium 226 + Radium 228, total	pCi/L	02/10/2021 - 06/15/2023	10	0	CI around mean	0.452	5	MCL/HBL	No Exceedance
AP07S	PMP	A6D	Radium 226 + Radium 228, total	pCi/L	02/10/2021 - 08/28/2023	11	0	CI around mean	0.535	5	MCL/HBL	No Exceedance
AP07S	PMP	A6DR	Radium 226 + Radium 228, total	pCi/L	02/10/2021 - 11/03/2023	12	0	CI around mean	0.585	5	MCL/HBL	No Exceedance
AP07S	PMP	A6	Selenium, total	mg/L	02/10/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AP07S	PMP	A6R	Selenium, total	mg/L	02/10/2021 - 06/15/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AP07S	PMP	A6D	Selenium, total	mg/L	02/10/2021 - 08/28/2023	11	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AP07S	PMP	A6DR	Selenium, total	mg/L	02/10/2021 - 11/03/2023	12	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AP07S	PMP	A6	Thallium, total	mg/L	02/10/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AP07S	PMP	A6R	Thallium, total	mg/L	02/10/2021 - 06/15/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AP07S	PMP	A6D	Thallium, total	mg/L	02/10/2021 - 08/28/2023	11	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AP07S	PMP	A6DR	Thallium, total	mg/L	02/10/2021 - 11/03/2023	12	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-01	PMP	A6	Antimony, total	mg/L	11/18/2022 - 02/28/2023	4	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-01	PMP	A6R	Antimony, total	mg/L	11/18/2022 - 06/14/2023	5	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-01	PMP	A6D	Antimony, total	mg/L	11/18/2022 - 08/22/2023	6	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-01	PMP	A6DR	Antimony, total	mg/L	11/18/2022 - 11/06/2023	7	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-01	PMP	A6	Arsenic, total	mg/L	11/18/2022 - 02/28/2023	4	0	CI around mean	-0.00812	0.0187	Background	No Exceedance
AW-01	PMP	A6R	Arsenic, total	mg/L	11/18/2022 - 06/14/2023	5	0	CI around mean	-0.00267	0.0187	Background	No Exceedance
AW-01	PMP	A6D	Arsenic, total	mg/L	11/18/2022 - 08/22/2023	6	0	CI around mean	-0.000517	0.0187	Background	No Exceedance
AW-01	PMP	A6DR	Arsenic, total	mg/L	11/18/2022 - 11/06/2023	7	0	CI around mean	0.00187	0.0187	Background	No Exceedance
AW-01	PMP	A6	Barium, total	mg/L	11/18/2022 - 02/28/2023	4	0	CI around mean	0.0647	2.0	MCL/HBL	No Exceedance
AW-01	PMP	A6R	Barium, total	mg/L	11/18/2022 - 06/14/2023	5	0	CI around mean	0.0903	2.0	MCL/HBL	No Exceedance
AW-01	PMP	A6D	Barium, total	mg/L	11/18/2022 - 08/22/2023	6	0	CI around mean	0.101	2.0	MCL/HBL	No Exceedance
AW-01	PMP	A6DR	Barium, total	mg/L	11/18/2022 - 11/06/2023	7	0	CI around mean	0.109	2.0	MCL/HBL	No Exceedance
AW-01	PMP	A6	Beryllium, total	mg/L	11/18/2022 - 02/28/2023	4	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-01	PMP	A6R	Beryllium, total	mg/L	11/18/2022 - 06/14/2023	5	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-01	PMP	A6D	Beryllium, total	mg/L	11/18/2022 - 08/22/2023	6	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-01	PMP	A6DR	Beryllium, total	mg/L	11/18/2022 - 11/06/2023	7	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-01	PMP	A6	Cadmium, total	mg/L	11/18/2022 - 02/28/2023	4	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-01	PMP	A6R	Cadmium, total	mg/L	11/18/2022 - 06/14/2023	5	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-01	PMP	A6D	Cadmium, total	mg/L	11/18/2022 - 08/22/2023	6	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-01	PMP	A6DR	Cadmium, total	mg/L	11/18/2022 - 11/06/2023	7	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-01	PMP	A6	Chromium, total	mg/L	11/18/2022 - 02/28/2023	4	75	CI around median (Last Sample, n<7)	0.019	0.1	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-01	PMP	A6R	Chromium, total	mg/L	11/18/2022 - 06/14/2023	5	80	CI around median (Last Sample, n<7)	0.004	0.1	MCL/HBL	No Exceedance
AW-01	PMP	A6D	Chromium, total	mg/L	11/18/2022 - 08/22/2023	6	83	CI around median (Last Sample, n<7)	0.004	0.1	MCL/HBL	No Exceedance
AW-01	PMP	A6DR	Chromium, total	mg/L	11/18/2022 - 11/06/2023	7	71	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-01	PMP	A6	Cobalt, total	mg/L	11/18/2022 - 02/28/2023	4	0	CI around mean	0.00119	0.006	MCL/HBL	No Exceedance
AW-01	PMP	A6R	Cobalt, total	mg/L	11/18/2022 - 06/14/2023	5	0	CI around mean	0.00199	0.006	MCL/HBL	No Exceedance
AW-01	PMP	A6D	Cobalt, total	mg/L	11/18/2022 - 08/22/2023	6	0	CI around mean	0.0025	0.006	MCL/HBL	No Exceedance
AW-01	PMP	A6DR	Cobalt, total	mg/L	11/18/2022 - 11/06/2023	7	0	CI around mean	0.00296	0.006	MCL/HBL	No Exceedance
AW-01	PMP	A6	Fluoride, total	mg/L	11/18/2022 - 02/28/2023	4	50	CI around mean	0.235	4.0	MCL/HBL	No Exceedance
AW-01	PMP	A6R	Fluoride, total	mg/L	11/18/2022 - 06/14/2023	5	60	CI around median (Last Sample, n<7)	0.25	4.0	MCL/HBL	No Exceedance
AW-01	PMP	A6D	Fluoride, total	mg/L	11/18/2022 - 08/22/2023	6	50	CI around mean	0.245	4.0	MCL/HBL	No Exceedance
AW-01	PMP	A6DR	Fluoride, total	mg/L	11/18/2022 - 11/06/2023	7	57	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-01	PMP	A6	Lead, total	mg/L	11/18/2022 - 02/28/2023	4	75	CI around median (Last Sample, n<7)	0.0092	0.015	MCL/HBL	No Exceedance
AW-01	PMP	A6R	Lead, total	mg/L	11/18/2022 - 06/14/2023	5	80	CI around median (Last Sample, n<7)	0.001	0.015	MCL/HBL	No Exceedance
AW-01	PMP	A6D	Lead, total	mg/L	11/18/2022 - 08/22/2023	6	83	CI around median (Last Sample, n<7)	0.001	0.015	MCL/HBL	No Exceedance
AW-01	PMP	A6DR	Lead, total	mg/L	11/18/2022 - 11/06/2023	7	71	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-01	PMP	A6	Lithium, total	mg/L	11/18/2022 - 02/28/2023	4	100	All ND - Last	0.02	0.0541	Background	No Exceedance
AW-01	PMP	A6R	Lithium, total	mg/L	11/18/2022 - 06/14/2023	5	100	All ND - Last	0.02	0.0541	Background	No Exceedance
AW-01	PMP	A6D	Lithium, total	mg/L	11/18/2022 - 08/22/2023	6	100	All ND - Last	0.02	0.0541	Background	No Exceedance
AW-01	PMP	A6DR	Lithium, total	mg/L	11/18/2022 - 11/06/2023	7	100	All ND - Last	0.02	0.0541	Background	No Exceedance
AW-01	PMP	A6	Mercury, total	mg/L	11/18/2022 - 02/28/2023	4	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-01	PMP	A6R	Mercury, total	mg/L	11/18/2022 - 06/14/2023	5	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-01	PMP	A6D	Mercury, total	mg/L	11/18/2022 - 08/22/2023	6	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-01	PMP	A6DR	Mercury, total	mg/L	11/18/2022 - 11/06/2023	7	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-01	PMP	A6	Molybdenum, total	mg/L	11/18/2022 - 02/28/2023	4	0	CI around mean	0.000567	0.1	MCL/HBL	No Exceedance
AW-01	PMP	A6R	Molybdenum, total	mg/L	11/18/2022 - 06/14/2023	5	0	CI around mean	0.00159	0.1	MCL/HBL	No Exceedance
AW-01	PMP	A6D	Molybdenum, total	mg/L	11/18/2022 - 08/22/2023	6	0	CI around mean	0.00212	0.1	MCL/HBL	No Exceedance
AW-01	PMP	A6DR	Molybdenum, total	mg/L	11/18/2022 - 11/06/2023	7	0	CI around mean	0.0024	0.1	MCL/HBL	No Exceedance



**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-01	PMP	A6	Radium 226 + Radium 228, total	pCi/L	11/18/2022 - 02/28/2023	4	0	CI around mean	-2.02	5	MCL/HBL	No Exceedance
AW-01	PMP	A6R	Radium 226 + Radium 228, total	pCi/L	11/18/2022 - 06/14/2023	5	0	CI around mean	-0.997	5	MCL/HBL	No Exceedance
AW-01	PMP	A6D	Radium 226 + Radium 228, total	pCi/L	11/18/2022 - 08/22/2023	6	0	CI around mean	-0.466	5	MCL/HBL	No Exceedance
AW-01	PMP	A6DR	Radium 226 + Radium 228, total	pCi/L	11/18/2022 - 11/06/2023	7	0	CI around mean	-0.579	5	MCL/HBL	No Exceedance
AW-01	PMP	A6	Selenium, total	mg/L	11/18/2022 - 02/28/2023	4	75	CI around median (Last Sample, n<7)	0.0011	0.05	MCL/HBL	No Exceedance
AW-01	PMP	A6R	Selenium, total	mg/L	11/18/2022 - 06/14/2023	5	80	CI around median (Last Sample, n<7)	0.001	0.05	MCL/HBL	No Exceedance
AW-01	PMP	A6D	Selenium, total	mg/L	11/18/2022 - 08/22/2023	6	83	CI around median (Last Sample, n<7)	0.001	0.05	MCL/HBL	No Exceedance
AW-01	PMP	A6DR	Selenium, total	mg/L	11/18/2022 - 11/06/2023	7	86	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-01	PMP	A6	Thallium, total	mg/L	11/18/2022 - 02/28/2023	4	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-01	PMP	A6R	Thallium, total	mg/L	11/18/2022 - 06/14/2023	5	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-01	PMP	A6D	Thallium, total	mg/L	11/18/2022 - 08/22/2023	6	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-01	PMP	A6DR	Thallium, total	mg/L	11/18/2022 - 11/06/2023	7	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-05	UA	A6	Antimony, total	mg/L	11/09/2015 - 02/28/2023	13	92	Most recent sample	0.003	0.006	MCL/HBL	No Exceedance
AW-05	UA	A6R	Antimony, total	mg/L	11/09/2015 - 06/15/2023	14	93	Most recent sample	0.003	0.006	MCL/HBL	No Exceedance
AW-05	UA	A6D	Antimony, total	mg/L	11/09/2015 - 08/28/2023	15	93	Most recent sample	0.003	0.006	MCL/HBL	No Exceedance
AW-05	UA	A6DR	Antimony, total	mg/L	11/09/2015 - 11/06/2023	16	94	Most recent sample	0.003	0.006	MCL/HBL	No Exceedance
AW-05	UA	A6	Arsenic, total	mg/L	11/09/2015 - 02/28/2023	13	0	CI around geomean	0.00399	0.0187	Background	No Exceedance
AW-05	UA	A6R	Arsenic, total	mg/L	11/09/2015 - 06/15/2023	14	0	CI around geomean	0.00403	0.0187	Background	No Exceedance
AW-05	UA	A6D	Arsenic, total	mg/L	11/09/2015 - 08/28/2023	15	0	CI around geomean	0.00393	0.0187	Background	No Exceedance
AW-05	UA	A6DR	Arsenic, total	mg/L	11/09/2015 - 11/06/2023	16	0	CI around geomean	0.00384	0.0187	Background	No Exceedance
AW-05	UA	A6	Barium, total	mg/L	11/09/2015 - 02/28/2023	13	0	CI around mean	0.143	2.0	MCL/HBL	No Exceedance
AW-05	UA	A6R	Barium, total	mg/L	11/09/2015 - 06/15/2023	14	0	CI around mean	0.144	2.0	MCL/HBL	No Exceedance
AW-05	UA	A6D	Barium, total	mg/L	11/09/2015 - 08/28/2023	15	0	CI around mean	0.142	2.0	MCL/HBL	No Exceedance
AW-05	UA	A6DR	Barium, total	mg/L	11/09/2015 - 11/06/2023	16	0	CI around geomean	0.139	2.0	MCL/HBL	No Exceedance
AW-05	UA	A6	Beryllium, total	mg/L	11/09/2015 - 02/28/2023	12	83	CI around median	0.001	0.0140	Background	No Exceedance
AW-05	UA	A6R	Beryllium, total	mg/L	11/09/2015 - 06/15/2023	13	85	CI around median	0.001	0.0140	Background	No Exceedance
AW-05	UA	A6D	Beryllium, total	mg/L	11/09/2015 - 08/28/2023	14	86	CI around median	0.001	0.0140	Background	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-05	UA	A6DR	Beryllium, total	mg/L	11/09/2015 - 11/06/2023	15	87	CI around median	0.001	0.0140	Background	No Exceedance
AW-05	UA	A6	Cadmium, total	mg/L	11/09/2015 - 02/28/2023	13	85	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-05	UA	A6R	Cadmium, total	mg/L	11/09/2015 - 06/15/2023	14	86	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-05	UA	A6D	Cadmium, total	mg/L	11/09/2015 - 08/28/2023	15	87	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-05	UA	A6DR	Cadmium, total	mg/L	11/09/2015 - 11/06/2023	16	88	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-05	UA	A6	Chromium, total	mg/L	11/09/2015 - 02/28/2023	13	38	CI around geomean	0.00543	0.1	MCL/HBL	No Exceedance
AW-05	UA	A6R	Chromium, total	mg/L	11/09/2015 - 06/15/2023	14	36	CI around geomean	0.00573	0.1	MCL/HBL	No Exceedance
AW-05	UA	A6D	Chromium, total	mg/L	11/09/2015 - 08/28/2023	15	33	CI around geomean	0.00583	0.1	MCL/HBL	No Exceedance
AW-05	UA	A6DR	Chromium, total	mg/L	11/09/2015 - 11/06/2023	16	31	CI around geomean	0.00561	0.1	MCL/HBL	No Exceedance
AW-05	UA	A6	Cobalt, total	mg/L	11/09/2015 - 02/28/2023	13	23	CI around geomean	0.00316	0.006	MCL/HBL	No Exceedance
AW-05	UA	A6R	Cobalt, total	mg/L	11/09/2015 - 06/15/2023	14	21	CI around geomean	0.00336	0.006	MCL/HBL	No Exceedance
AW-05	UA	A6D	Cobalt, total	mg/L	11/09/2015 - 08/28/2023	15	20	CI around geomean	0.00348	0.006	MCL/HBL	No Exceedance
AW-05	UA	A6DR	Cobalt, total	mg/L	11/09/2015 - 11/06/2023	16	19	CI around geomean	0.00345	0.006	MCL/HBL	No Exceedance
AW-05	UA	A6	Fluoride, total	mg/L	11/09/2015 - 02/28/2023	14	43	CI around geomean	0.256	4.0	MCL/HBL	No Exceedance
AW-05	UA	A6R	Fluoride, total	mg/L	11/09/2015 - 06/15/2023	15	47	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-05	UA	A6D	Fluoride, total	mg/L	11/09/2015 - 08/28/2023	16	50	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-05	UA	A6DR	Fluoride, total	mg/L	11/09/2015 - 11/06/2023	17	53	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-05	UA	A6	Lead, total	mg/L	11/09/2015 - 02/28/2023	12	42	CI around geomean	0.00141	0.015	MCL/HBL	No Exceedance
AW-05	UA	A6R	Lead, total	mg/L	11/09/2015 - 06/15/2023	13	38	CI around geomean	0.00156	0.015	MCL/HBL	No Exceedance
AW-05	UA	A6D	Lead, total	mg/L	11/09/2015 - 08/28/2023	14	36	CI around geomean	0.00168	0.015	MCL/HBL	No Exceedance
AW-05	UA	A6DR	Lead, total	mg/L	11/09/2015 - 11/06/2023	15	33	CI around geomean	0.00168	0.015	MCL/HBL	No Exceedance
AW-05	UA	A6	Lithium, total	mg/L	11/09/2015 - 02/28/2023	13	15	CI around geomean	0.0223	0.0541	Background	No Exceedance
AW-05	UA	A6R	Lithium, total	mg/L	11/09/2015 - 06/15/2023	14	21	CI around geomean	0.0217	0.0541	Background	No Exceedance
AW-05	UA	A6D	Lithium, total	mg/L	11/09/2015 - 08/28/2023	15	27	CI around geomean	0.0212	0.0541	Background	No Exceedance
AW-05	UA	A6DR	Lithium, total	mg/L	11/09/2015 - 11/06/2023	16	31	CI around geomean	0.0208	0.0541	Background	No Exceedance
AW-05	UA	A6	Mercury, total	mg/L	11/09/2015 - 02/28/2023	13	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-05	UA	A6R	Mercury, total	mg/L	11/09/2015 - 06/15/2023	14	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-05	UA	A6D	Mercury, total	mg/L	11/09/2015 - 08/28/2023	15	93	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-05	UA	A6DR	Mercury, total	mg/L	11/09/2015 - 11/06/2023	16	94	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-05	UA	A6	Molybdenum, total	mg/L	11/09/2015 - 02/28/2023	13	0	CI around mean	0.00199	0.1	MCL/HBL	No Exceedance
AW-05	UA	A6R	Molybdenum, total	mg/L	11/09/2015 - 06/15/2023	14	0	CI around mean	0.00202	0.1	MCL/HBL	No Exceedance
AW-05	UA	A6D	Molybdenum, total	mg/L	11/09/2015 - 08/28/2023	15	0	CI around mean	0.00206	0.1	MCL/HBL	No Exceedance
AW-05	UA	A6DR	Molybdenum, total	mg/L	11/09/2015 - 11/06/2023	16	0	CI around mean	0.00207	0.1	MCL/HBL	No Exceedance
AW-05	UA	A6	Radium 226 + Radium 228, total	pCi/L	11/09/2015 - 02/28/2023	13	0	CI around mean	0.622	5	MCL/HBL	No Exceedance
AW-05	UA	A6R	Radium 226 + Radium 228, total	pCi/L	11/09/2015 - 06/15/2023	14	0	CI around mean	0.750	5	MCL/HBL	No Exceedance
AW-05	UA	A6D	Radium 226 + Radium 228, total	pCi/L	11/09/2015 - 08/28/2023	15	0	CI around mean	0.673	5	MCL/HBL	No Exceedance
AW-05	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	11/09/2015 - 11/06/2023	16	0	CI around mean	0.650	5	MCL/HBL	No Exceedance
AW-05	UA	A6	Selenium, total	mg/L	11/09/2015 - 02/28/2023	13	38	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-05	UA	A6R	Selenium, total	mg/L	11/09/2015 - 06/15/2023	14	43	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-05	UA	A6D	Selenium, total	mg/L	11/09/2015 - 08/28/2023	15	47	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-05	UA	A6DR	Selenium, total	mg/L	11/09/2015 - 11/06/2023	16	50	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-05	UA	A6	Thallium, total	mg/L	11/09/2015 - 02/28/2023	12	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-05	UA	A6R	Thallium, total	mg/L	11/09/2015 - 06/15/2023	13	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-05	UA	A6D	Thallium, total	mg/L	11/09/2015 - 08/28/2023	14	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-05	UA	A6DR	Thallium, total	mg/L	11/09/2015 - 11/06/2023	15	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-06	UA	A6	Antimony, total	mg/L	11/10/2015 - 02/28/2023	14	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-06	UA	A6R	Antimony, total	mg/L	11/10/2015 - 06/14/2023	15	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-06	UA	A6D	Antimony, total	mg/L	11/10/2015 - 08/28/2023	16	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-06	UA	A6DR	Antimony, total	mg/L	11/10/2015 - 11/06/2023	17	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-06	UA	A6	Arsenic, total	mg/L	11/10/2015 - 02/28/2023	19	0	CI around geomean	0.00285	0.0187	Background	No Exceedance
AW-06	UA	A6R	Arsenic, total	mg/L	11/10/2015 - 06/14/2023	20	0	CI around geomean	0.00286	0.0187	Background	No Exceedance
AW-06	UA	A6D	Arsenic, total	mg/L	11/10/2015 - 08/28/2023	21	0	CI around geomean	0.00295	0.0187	Background	No Exceedance
AW-06	UA	A6DR	Arsenic, total	mg/L	11/10/2015 - 11/06/2023	22	0	CI around geomean	0.00301	0.0187	Background	No Exceedance
AW-06	UA	A6	Barium, total	mg/L	11/10/2015 - 02/28/2023	19	0	CI around geomean	0.183	2.0	MCL/HBL	No Exceedance



**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-06	UA	A6R	Barium, total	mg/L	11/10/2015 - 06/14/2023	20	0	CI around median	0.16	2.0	MCL/HBL	No Exceedance
AW-06	UA	A6D	Barium, total	mg/L	11/10/2015 - 08/28/2023	21	0	CI around median	0.18	2.0	MCL/HBL	No Exceedance
AW-06	UA	A6DR	Barium, total	mg/L	11/10/2015 - 11/06/2023	22	0	CI around median	0.18	2.0	MCL/HBL	No Exceedance
AW-06	UA	A6	Beryllium, total	mg/L	11/10/2015 - 02/28/2023	19	84	CI around median	0.001	0.0140	Background	No Exceedance
AW-06	UA	A6R	Beryllium, total	mg/L	11/10/2015 - 06/14/2023	20	85	CI around median	0.001	0.0140	Background	No Exceedance
AW-06	UA	A6D	Beryllium, total	mg/L	11/10/2015 - 08/28/2023	21	86	CI around median	0.001	0.0140	Background	No Exceedance
AW-06	UA	A6DR	Beryllium, total	mg/L	11/10/2015 - 11/06/2023	22	86	CI around median	0.001	0.0140	Background	No Exceedance
AW-06	UA	A6	Cadmium, total	mg/L	11/10/2015 - 02/28/2023	14	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-06	UA	A6R	Cadmium, total	mg/L	11/10/2015 - 06/14/2023	15	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-06	UA	A6D	Cadmium, total	mg/L	11/10/2015 - 08/28/2023	16	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-06	UA	A6DR	Cadmium, total	mg/L	11/10/2015 - 11/06/2023	17	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-06	UA	A6	Chromium, total	mg/L	11/10/2015 - 02/28/2023	19	47	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-06	UA	A6R	Chromium, total	mg/L	11/10/2015 - 06/14/2023	20	50	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-06	UA	A6D	Chromium, total	mg/L	11/10/2015 - 08/28/2023	21	52	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-06	UA	A6DR	Chromium, total	mg/L	11/10/2015 - 11/06/2023	22	55	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-06	UA	A6	Cobalt, total	mg/L	11/10/2015 - 02/28/2023	19	53	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-06	UA	A6R	Cobalt, total	mg/L	11/10/2015 - 06/14/2023	20	55	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-06	UA	A6D	Cobalt, total	mg/L	11/10/2015 - 08/28/2023	21	57	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-06	UA	A6DR	Cobalt, total	mg/L	11/10/2015 - 11/06/2023	22	59	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-06	UA	A6	Fluoride, total	mg/L	11/10/2015 - 02/28/2023	20	10	CI around median	0.314	4.0	MCL/HBL	No Exceedance
AW-06	UA	A6R	Fluoride, total	mg/L	11/10/2015 - 06/14/2023	21	9.5	CI around median	0.319	4.0	MCL/HBL	No Exceedance
AW-06	UA	A6D	Fluoride, total	mg/L	11/10/2015 - 08/28/2023	22	9.1	CB around T-S line	0.215	4.0	MCL/HBL	No Exceedance
AW-06	UA	A6DR	Fluoride, total	mg/L	11/10/2015 - 11/06/2023	23	8.7	CB around T-S line	0.201	4.0	MCL/HBL	No Exceedance
AW-06	UA	A6	Lead, total	mg/L	11/10/2015 - 02/28/2023	19	32	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-06	UA	A6R	Lead, total	mg/L	11/10/2015 - 06/14/2023	20	35	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-06	UA	A6D	Lead, total	mg/L	11/10/2015 - 08/28/2023	21	38	CB around T-S line	-0.00334	0.015	MCL/HBL	No Exceedance
AW-06	UA	A6DR	Lead, total	mg/L	11/10/2015 - 11/06/2023	22	36	CI around median	0.001	0.015	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-06	UA	A6	Lithium, total	mg/L	11/10/2015 - 02/28/2023	19	37	CI around mean	0.0137	0.0541	Background	No Exceedance
AW-06	UA	A6R	Lithium, total	mg/L	11/10/2015 - 06/14/2023	20	40	CI around mean	0.0135	0.0541	Background	No Exceedance
AW-06	UA	A6D	Lithium, total	mg/L	11/10/2015 - 08/28/2023	21	43	CI around mean	0.0134	0.0541	Background	No Exceedance
AW-06	UA	A6DR	Lithium, total	mg/L	11/10/2015 - 11/06/2023	22	45	CI around geomean	0.0129	0.0541	Background	No Exceedance
AW-06	UA	A6	Mercury, total	mg/L	11/10/2015 - 02/28/2023	14	93	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-06	UA	A6R	Mercury, total	mg/L	11/10/2015 - 06/14/2023	15	93	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-06	UA	A6D	Mercury, total	mg/L	11/10/2015 - 08/28/2023	16	94	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-06	UA	A6DR	Mercury, total	mg/L	11/10/2015 - 11/06/2023	17	94	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-06	UA	A6	Molybdenum, total	mg/L	11/10/2015 - 02/28/2023	19	0	CI around mean	0.00473	0.1	MCL/HBL	No Exceedance
AW-06	UA	A6R	Molybdenum, total	mg/L	11/10/2015 - 06/14/2023	20	0	CI around mean	0.00474	0.1	MCL/HBL	No Exceedance
AW-06	UA	A6D	Molybdenum, total	mg/L	11/10/2015 - 08/28/2023	21	0	CI around mean	0.00481	0.1	MCL/HBL	No Exceedance
AW-06	UA	A6DR	Molybdenum, total	mg/L	11/10/2015 - 11/06/2023	22	0	CI around mean	0.0048	0.1	MCL/HBL	No Exceedance
AW-06	UA	A6	Radium 226 + Radium 228, total	pCi/L	11/10/2015 - 02/28/2023	19	0	CI around mean	0.714	5	MCL/HBL	No Exceedance
AW-06	UA	A6R	Radium 226 + Radium 228, total	pCi/L	11/10/2015 - 06/14/2023	20	0	CI around mean	0.725	5	MCL/HBL	No Exceedance
AW-06	UA	A6D	Radium 226 + Radium 228, total	pCi/L	11/10/2015 - 08/28/2023	21	0	CI around mean	0.679	5	MCL/HBL	No Exceedance
AW-06	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	11/10/2015 - 11/06/2023	22	0	CI around mean	0.684	5	MCL/HBL	No Exceedance
AW-06	UA	A6	Selenium, total	mg/L	11/10/2015 - 02/28/2023	19	68	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-06	UA	A6R	Selenium, total	mg/L	11/10/2015 - 06/14/2023	20	70	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-06	UA	A6D	Selenium, total	mg/L	11/10/2015 - 08/28/2023	21	71	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-06	UA	A6DR	Selenium, total	mg/L	11/10/2015 - 11/06/2023	22	73	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-06	UA	A6	Thallium, total	mg/L	11/10/2015 - 02/28/2023	14	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-06	UA	A6R	Thallium, total	mg/L	11/10/2015 - 06/14/2023	15	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-06	UA	A6D	Thallium, total	mg/L	11/10/2015 - 08/28/2023	16	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-06	UA	A6DR	Thallium, total	mg/L	11/10/2015 - 11/06/2023	17	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-09	UA	A6	Antimony, total	mg/L	11/10/2015 - 02/28/2023	14	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-09	UA	A6R	Antimony, total	mg/L	11/10/2015 - 06/12/2023	15	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-09	UA	A6D	Antimony, total	mg/L	11/10/2015 - 08/29/2023	16	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-09	UA	A6DR	Antimony, total	mg/L	11/10/2015 - 11/06/2023	17	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-09	UA	A6	Arsenic, total	mg/L	11/10/2015 - 02/28/2023	19	16	CI around mean	0.00664	0.0187	Background	No Exceedance
AW-09	UA	A6R	Arsenic, total	mg/L	11/10/2015 - 06/12/2023	20	15	CI around mean	0.00971	0.0187	Background	No Exceedance
AW-09	UA	A6D	Arsenic, total	mg/L	11/10/2015 - 08/29/2023	21	14	CI around mean	0.0101	0.0187	Background	No Exceedance
AW-09	UA	A6DR	Arsenic, total	mg/L	11/10/2015 - 11/06/2023	22	14	CI around mean	0.0107	0.0187	Background	No Exceedance
AW-09	UA	A6	Barium, total	mg/L	11/10/2015 - 02/28/2023	19	0	CI around geomean	0.272	2.0	MCL/HBL	No Exceedance
AW-09	UA	A6R	Barium, total	mg/L	11/10/2015 - 06/12/2023	20	0	CI around geomean	0.273	2.0	MCL/HBL	No Exceedance
AW-09	UA	A6D	Barium, total	mg/L	11/10/2015 - 08/29/2023	21	0	CI around geomean	0.278	2.0	MCL/HBL	No Exceedance
AW-09	UA	A6DR	Barium, total	mg/L	11/10/2015 - 11/06/2023	22	0	CI around geomean	0.284	2.0	MCL/HBL	No Exceedance
AW-09	UA	A6	Beryllium, total	mg/L	11/10/2015 - 02/28/2023	19	79	CB around T-S line	-0.00098	0.0140	Background	No Exceedance
AW-09	UA	A6R	Beryllium, total	mg/L	11/10/2015 - 06/12/2023	20	80	CB around T-S line	-0.00127	0.0140	Background	No Exceedance
AW-09	UA	A6D	Beryllium, total	mg/L	11/10/2015 - 08/29/2023	21	81	CB around T-S line	-0.000697	0.0140	Background	No Exceedance
AW-09	UA	A6DR	Beryllium, total	mg/L	11/10/2015 - 11/06/2023	22	82	CB around T-S line	-0.000407	0.0140	Background	No Exceedance
AW-09	UA	A6	Cadmium, total	mg/L	11/10/2015 - 02/28/2023	14	86	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-09	UA	A6R	Cadmium, total	mg/L	11/10/2015 - 06/12/2023	15	87	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-09	UA	A6D	Cadmium, total	mg/L	11/10/2015 - 08/29/2023	16	88	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-09	UA	A6DR	Cadmium, total	mg/L	11/10/2015 - 11/06/2023	17	88	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-09	UA	A6	Chromium, total	mg/L	11/10/2015 - 02/28/2023	19	47	CB around T-S line	-0.0715	0.1	MCL/HBL	No Exceedance
AW-09	UA	A6R	Chromium, total	mg/L	11/10/2015 - 06/12/2023	20	50	CB around T-S line	-0.0731	0.1	MCL/HBL	No Exceedance
AW-09	UA	A6D	Chromium, total	mg/L	11/10/2015 - 08/29/2023	21	52	CB around T-S line	-0.0626	0.1	MCL/HBL	No Exceedance
AW-09	UA	A6DR	Chromium, total	mg/L	11/10/2015 - 11/06/2023	22	55	CB around T-S line	-0.0517	0.1	MCL/HBL	No Exceedance
AW-09	UA	A6	Cobalt, total	mg/L	11/10/2015 - 02/28/2023	19	5.3	CB around T-S line	-0.0386	0.006	MCL/HBL	No Exceedance
AW-09	UA	A6R	Cobalt, total	mg/L	11/10/2015 - 06/12/2023	20	5.0	CB around T-S line	-0.0405	0.006	MCL/HBL	No Exceedance
AW-09	UA	A6D	Cobalt, total	mg/L	11/10/2015 - 08/29/2023	21	4.8	CB around T-S line	-0.0344	0.006	MCL/HBL	No Exceedance
AW-09	UA	A6DR	Cobalt, total	mg/L	11/10/2015 - 11/06/2023	22	4.5	CB around T-S line	-0.0282	0.006	MCL/HBL	No Exceedance
AW-09	UA	A6	Fluoride, total	mg/L	11/10/2015 - 02/28/2023	20	55	CB around T-S line	0.177	4.0	MCL/HBL	No Exceedance
AW-09	UA	A6R	Fluoride, total	mg/L	11/10/2015 - 06/12/2023	21	57	CB around T-S line	0.168	4.0	MCL/HBL	No Exceedance

**TABLE 6**  
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 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-09	UA	A6D	Fluoride, total	mg/L	11/10/2015 - 08/29/2023	22	59	CB around T-S line	0.182	4.0	MCL/HBL	No Exceedance
AW-09	UA	A6DR	Fluoride, total	mg/L	11/10/2015 - 11/06/2023	23	61	CB around T-S line	0.181	4.0	MCL/HBL	No Exceedance
AW-09	UA	A6	Lead, total	mg/L	11/10/2015 - 02/28/2023	19	42	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-09	UA	A6R	Lead, total	mg/L	11/10/2015 - 06/12/2023	20	45	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-09	UA	A6D	Lead, total	mg/L	11/10/2015 - 08/29/2023	21	43	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-09	UA	A6DR	Lead, total	mg/L	11/10/2015 - 11/06/2023	22	41	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-09	UA	A6	Lithium, total	mg/L	11/10/2015 - 02/28/2023	19	21	CB around T-S line	-0.0853	0.0541	Background	No Exceedance
AW-09	UA	A6R	Lithium, total	mg/L	11/10/2015 - 06/12/2023	20	25	CB around T-S line	-0.0899	0.0541	Background	No Exceedance
AW-09	UA	A6D	Lithium, total	mg/L	11/10/2015 - 08/29/2023	21	29	CB around T-S line	-0.0734	0.0541	Background	No Exceedance
AW-09	UA	A6DR	Lithium, total	mg/L	11/10/2015 - 11/06/2023	22	32	CB around T-S line	-0.0543	0.0541	Background	No Exceedance
AW-09	UA	A6	Mercury, total	mg/L	11/10/2015 - 02/28/2023	14	93	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-09	UA	A6R	Mercury, total	mg/L	11/10/2015 - 06/12/2023	15	93	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-09	UA	A6D	Mercury, total	mg/L	11/10/2015 - 08/29/2023	16	94	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-09	UA	A6DR	Mercury, total	mg/L	11/10/2015 - 11/06/2023	17	94	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-09	UA	A6	Molybdenum, total	mg/L	11/10/2015 - 02/28/2023	19	0	CI around mean	0.013	0.1	MCL/HBL	No Exceedance
AW-09	UA	A6R	Molybdenum, total	mg/L	11/10/2015 - 06/12/2023	20	0	CI around mean	0.0134	0.1	MCL/HBL	No Exceedance
AW-09	UA	A6D	Molybdenum, total	mg/L	11/10/2015 - 08/29/2023	21	0	CI around mean	0.0137	0.1	MCL/HBL	No Exceedance
AW-09	UA	A6DR	Molybdenum, total	mg/L	11/10/2015 - 11/06/2023	22	0	CI around mean	0.0141	0.1	MCL/HBL	No Exceedance
AW-09	UA	A6	Radium 226 + Radium 228, total	pCi/L	11/10/2015 - 02/28/2023	19	0	CI around median	0.729	5	MCL/HBL	No Exceedance
AW-09	UA	A6R	Radium 226 + Radium 228, total	pCi/L	11/10/2015 - 06/12/2023	20	0	CI around median	0.633	5	MCL/HBL	No Exceedance
AW-09	UA	A6D	Radium 226 + Radium 228, total	pCi/L	11/10/2015 - 08/29/2023	21	0	CI around median	0.729	5	MCL/HBL	No Exceedance
AW-09	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	11/10/2015 - 11/06/2023	22	0	CI around median	0.729	5	MCL/HBL	No Exceedance
AW-09	UA	A6	Selenium, total	mg/L	11/10/2015 - 02/28/2023	19	58	CB around T-S line	-0.00401	0.05	MCL/HBL	No Exceedance
AW-09	UA	A6R	Selenium, total	mg/L	11/10/2015 - 06/12/2023	20	60	CB around T-S line	-0.00401	0.05	MCL/HBL	No Exceedance
AW-09	UA	A6D	Selenium, total	mg/L	11/10/2015 - 08/29/2023	21	62	CB around T-S line	-0.00292	0.05	MCL/HBL	No Exceedance
AW-09	UA	A6DR	Selenium, total	mg/L	11/10/2015 - 11/06/2023	22	64	CB around T-S line	-0.00174	0.05	MCL/HBL	No Exceedance
AW-09	UA	A6	Thallium, total	mg/L	11/10/2015 - 02/28/2023	14	93	CI around median	0.001	0.002	MCL/HBL	No Exceedance

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 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-09	UA	A6R	Thallium, total	mg/L	11/10/2015 - 06/12/2023	15	93	CI around median	0.001	0.002	MCL/HBL	No Exceedance
AW-09	UA	A6D	Thallium, total	mg/L	11/10/2015 - 08/29/2023	16	94	CI around median	0.001	0.002	MCL/HBL	No Exceedance
AW-09	UA	A6DR	Thallium, total	mg/L	11/10/2015 - 11/06/2023	17	94	CI around median	0.001	0.002	MCL/HBL	No Exceedance
AW-10	UA	A6	Antimony, total	mg/L	11/09/2015 - 02/28/2023	15	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-10	UA	A6R	Antimony, total	mg/L	11/09/2015 - 06/13/2023	16	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-10	UA	A6D	Antimony, total	mg/L	11/09/2015 - 08/28/2023	17	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-10	UA	A6DR	Antimony, total	mg/L	11/09/2015 - 11/06/2023	18	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-10	UA	A6	Arsenic, total	mg/L	11/09/2015 - 02/28/2023	20	0	CI around geomean	0.00748	0.0187	Background	No Exceedance
AW-10	UA	A6R	Arsenic, total	mg/L	11/09/2015 - 06/13/2023	21	0	CI around geomean	0.0076	0.0187	Background	No Exceedance
AW-10	UA	A6D	Arsenic, total	mg/L	11/09/2015 - 08/28/2023	22	0	CI around geomean	0.0078	0.0187	Background	No Exceedance
AW-10	UA	A6DR	Arsenic, total	mg/L	11/09/2015 - 11/06/2023	23	0	CI around median	0.0099	0.0187	Background	No Exceedance
AW-10	UA	A6	Barium, total	mg/L	11/09/2015 - 02/28/2023	20	0	CI around median	0.93	2.0	MCL/HBL	No Exceedance
AW-10	UA	A6R	Barium, total	mg/L	11/09/2015 - 06/13/2023	21	0	CI around median	0.98	2.0	MCL/HBL	No Exceedance
AW-10	UA	A6D	Barium, total	mg/L	11/09/2015 - 08/28/2023	22	0	CI around median	0.98	2.0	MCL/HBL	No Exceedance
AW-10	UA	A6DR	Barium, total	mg/L	11/09/2015 - 11/06/2023	23	0	CI around median	0.98	2.0	MCL/HBL	No Exceedance
AW-10	UA	A6	Beryllium, total	mg/L	11/09/2015 - 02/28/2023	20	75	CI around median	0.001	0.0140	Background	No Exceedance
AW-10	UA	A6R	Beryllium, total	mg/L	11/09/2015 - 06/13/2023	21	76	CI around median	0.001	0.0140	Background	No Exceedance
AW-10	UA	A6D	Beryllium, total	mg/L	11/09/2015 - 08/28/2023	22	77	CI around median	0.001	0.0140	Background	No Exceedance
AW-10	UA	A6DR	Beryllium, total	mg/L	11/09/2015 - 11/06/2023	23	74	CI around median	0.001	0.0140	Background	No Exceedance
AW-10	UA	A6	Cadmium, total	mg/L	11/09/2015 - 02/28/2023	15	93	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-10	UA	A6R	Cadmium, total	mg/L	11/09/2015 - 06/13/2023	16	94	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-10	UA	A6D	Cadmium, total	mg/L	11/09/2015 - 08/28/2023	17	94	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-10	UA	A6DR	Cadmium, total	mg/L	11/09/2015 - 11/06/2023	18	94	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-10	UA	A6	Chromium, total	mg/L	11/09/2015 - 02/28/2023	20	35	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-10	UA	A6R	Chromium, total	mg/L	11/09/2015 - 06/13/2023	21	38	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-10	UA	A6D	Chromium, total	mg/L	11/09/2015 - 08/28/2023	22	36	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-10	UA	A6DR	Chromium, total	mg/L	11/09/2015 - 11/06/2023	23	35	CI around median	0.004	0.1	MCL/HBL	No Exceedance



**TABLE 6**  
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 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-10	UA	A6	Cobalt, total	mg/L	11/09/2015 - 02/28/2023	20	5.0	CI around geomean	0.00341	0.006	MCL/HBL	No Exceedance
AW-10	UA	A6R	Cobalt, total	mg/L	11/09/2015 - 06/13/2023	21	4.8	CI around geomean	0.00338	0.006	MCL/HBL	No Exceedance
AW-10	UA	A6D	Cobalt, total	mg/L	11/09/2015 - 08/28/2023	22	4.5	CI around geomean	0.00352	0.006	MCL/HBL	No Exceedance
AW-10	UA	A6DR	Cobalt, total	mg/L	11/09/2015 - 11/06/2023	23	4.3	CI around geomean	0.00376	0.006	MCL/HBL	No Exceedance
AW-10	UA	A6	Fluoride, total	mg/L	11/09/2015 - 02/28/2023	21	95	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-10	UA	A6R	Fluoride, total	mg/L	11/09/2015 - 06/13/2023	22	95	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-10	UA	A6D	Fluoride, total	mg/L	11/09/2015 - 08/28/2023	23	96	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-10	UA	A6DR	Fluoride, total	mg/L	11/09/2015 - 11/06/2023	24	96	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-10	UA	A6	Lead, total	mg/L	11/09/2015 - 02/28/2023	20	15	CI around geomean	0.00172	0.015	MCL/HBL	No Exceedance
AW-10	UA	A6R	Lead, total	mg/L	11/09/2015 - 06/13/2023	21	14	CI around geomean	0.0017	0.015	MCL/HBL	No Exceedance
AW-10	UA	A6D	Lead, total	mg/L	11/09/2015 - 08/28/2023	22	14	CI around geomean	0.00182	0.015	MCL/HBL	No Exceedance
AW-10	UA	A6DR	Lead, total	mg/L	11/09/2015 - 11/06/2023	23	13	CI around geomean	0.00199	0.015	MCL/HBL	No Exceedance
AW-10	UA	A6	Lithium, total	mg/L	11/09/2015 - 02/28/2023	20	0	CB around T-S line	-0.0461	0.0541	Background	No Exceedance
AW-10	UA	A6R	Lithium, total	mg/L	11/09/2015 - 06/13/2023	21	0	CB around T-S line	-0.0329	0.0541	Background	No Exceedance
AW-10	UA	A6D	Lithium, total	mg/L	11/09/2015 - 08/28/2023	22	0	CB around T-S line	-0.0418	0.0541	Background	No Exceedance
AW-10	UA	A6DR	Lithium, total	mg/L	11/09/2015 - 11/06/2023	23	0	CB around T-S line	-0.0149	0.0541	Background	No Exceedance
AW-10	UA	A6	Mercury, total	mg/L	11/09/2015 - 02/28/2023	15	93	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-10	UA	A6R	Mercury, total	mg/L	11/09/2015 - 06/13/2023	16	94	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-10	UA	A6D	Mercury, total	mg/L	11/09/2015 - 08/28/2023	17	94	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-10	UA	A6DR	Mercury, total	mg/L	11/09/2015 - 11/06/2023	18	94	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-10	UA	A6	Molybdenum, total	mg/L	11/09/2015 - 02/28/2023	20	30	CB around T-S line	-0.000505	0.1	MCL/HBL	No Exceedance
AW-10	UA	A6R	Molybdenum, total	mg/L	11/09/2015 - 06/13/2023	21	29	CB around T-S line	-0.000917	0.1	MCL/HBL	No Exceedance
AW-10	UA	A6D	Molybdenum, total	mg/L	11/09/2015 - 08/28/2023	22	27	CB around T-S line	-0.000829	0.1	MCL/HBL	No Exceedance
AW-10	UA	A6DR	Molybdenum, total	mg/L	11/09/2015 - 11/06/2023	23	26	CB around T-S line	-0.000377	0.1	MCL/HBL	No Exceedance
AW-10	UA	A6	Radium 226 + Radium 228, total	pCi/L	11/09/2015 - 02/28/2023	20	0	CI around mean	2.14	5	MCL/HBL	No Exceedance
AW-10	UA	A6R	Radium 226 + Radium 228, total	pCi/L	11/09/2015 - 06/13/2023	21	0	CI around mean	2.18	5	MCL/HBL	No Exceedance
AW-10	UA	A6D	Radium 226 + Radium 228, total	pCi/L	11/09/2015 - 08/28/2023	22	0	CI around mean	2.27	5	MCL/HBL	No Exceedance

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 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-10	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	11/09/2015 - 11/06/2023	23	0	CI around mean	2.33	5	MCL/HBL	No Exceedance
AW-10	UA	A6	Selenium, total	mg/L	11/09/2015 - 02/28/2023	20	60	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-10	UA	A6R	Selenium, total	mg/L	11/09/2015 - 06/13/2023	21	62	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-10	UA	A6D	Selenium, total	mg/L	11/09/2015 - 08/28/2023	22	64	CB around T-S line	-0.000131	0.05	MCL/HBL	No Exceedance
AW-10	UA	A6DR	Selenium, total	mg/L	11/09/2015 - 11/06/2023	23	61	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-10	UA	A6	Thallium, total	mg/L	11/09/2015 - 02/28/2023	15	93	CI around median	0.001	0.002	MCL/HBL	No Exceedance
AW-10	UA	A6R	Thallium, total	mg/L	11/09/2015 - 06/13/2023	16	94	CI around median	0.001	0.002	MCL/HBL	No Exceedance
AW-10	UA	A6D	Thallium, total	mg/L	11/09/2015 - 08/28/2023	17	94	CI around median	0.001	0.002	MCL/HBL	No Exceedance
AW-10	UA	A6DR	Thallium, total	mg/L	11/09/2015 - 11/06/2023	18	94	CI around median	0.001	0.002	MCL/HBL	No Exceedance
AW-11	UA	A6	Antimony, total	mg/L	11/09/2015 - 02/28/2023	14	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-11	UA	A6R	Antimony, total	mg/L	11/09/2015 - 06/13/2023	15	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-11	UA	A6D	Antimony, total	mg/L	11/09/2015 - 08/28/2023	16	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-11	UA	A6DR	Antimony, total	mg/L	11/09/2015 - 11/03/2023	17	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-11	UA	A6	Arsenic, total	mg/L	11/09/2015 - 02/28/2023	19	0	CI around mean	0.00939	0.0187	Background	No Exceedance
AW-11	UA	A6R	Arsenic, total	mg/L	11/09/2015 - 06/13/2023	20	0	CI around mean	0.00942	0.0187	Background	No Exceedance
AW-11	UA	A6D	Arsenic, total	mg/L	11/09/2015 - 08/28/2023	21	0	CI around mean	0.0095	0.0187	Background	No Exceedance
AW-11	UA	A6DR	Arsenic, total	mg/L	11/09/2015 - 11/03/2023	22	0	CI around geomean	0.00905	0.0187	Background	No Exceedance
AW-11	UA	A6	Barium, total	mg/L	11/09/2015 - 02/28/2023	19	0	CI around geomean	0.867	2.0	MCL/HBL	No Exceedance
AW-11	UA	A6R	Barium, total	mg/L	11/09/2015 - 06/13/2023	20	0	CI around geomean	0.871	2.0	MCL/HBL	No Exceedance
AW-11	UA	A6D	Barium, total	mg/L	11/09/2015 - 08/28/2023	21	0	CI around geomean	0.871	2.0	MCL/HBL	No Exceedance
AW-11	UA	A6DR	Barium, total	mg/L	11/09/2015 - 11/03/2023	22	0	CI around geomean	0.869	2.0	MCL/HBL	No Exceedance
AW-11	UA	A6	Beryllium, total	mg/L	11/09/2015 - 02/28/2023	19	74	CI around median	0.001	0.0140	Background	No Exceedance
AW-11	UA	A6R	Beryllium, total	mg/L	11/09/2015 - 06/13/2023	20	75	CI around median	0.001	0.0140	Background	No Exceedance
AW-11	UA	A6D	Beryllium, total	mg/L	11/09/2015 - 08/28/2023	21	76	CI around median	0.001	0.0140	Background	No Exceedance
AW-11	UA	A6DR	Beryllium, total	mg/L	11/09/2015 - 11/03/2023	22	77	CI around median	0.001	0.0140	Background	No Exceedance
AW-11	UA	A6	Cadmium, total	mg/L	11/09/2015 - 02/28/2023	14	79	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-11	UA	A6R	Cadmium, total	mg/L	11/09/2015 - 06/13/2023	15	80	CI around median	0.001	0.005	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-11	UA	A6D	Cadmium, total	mg/L	11/09/2015 - 08/28/2023	16	81	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-11	UA	A6DR	Cadmium, total	mg/L	11/09/2015 - 11/03/2023	17	82	CI around median	0.001	0.005	MCL/HBL	No Exceedance
AW-11	UA	A6	Chromium, total	mg/L	11/09/2015 - 02/28/2023	19	42	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-11	UA	A6R	Chromium, total	mg/L	11/09/2015 - 06/13/2023	20	45	CB around T-S line	-0.0209	0.1	MCL/HBL	No Exceedance
AW-11	UA	A6D	Chromium, total	mg/L	11/09/2015 - 08/28/2023	21	48	CB around T-S line	-0.0235	0.1	MCL/HBL	No Exceedance
AW-11	UA	A6DR	Chromium, total	mg/L	11/09/2015 - 11/03/2023	22	50	CB around T-S line	-0.0209	0.1	MCL/HBL	No Exceedance
AW-11	UA	A6	Cobalt, total	mg/L	11/09/2015 - 02/28/2023	19	16	CB around T-S line	-0.0115	0.006	MCL/HBL	No Exceedance
AW-11	UA	A6R	Cobalt, total	mg/L	11/09/2015 - 06/13/2023	20	20	CB around T-S line	-0.0103	0.006	MCL/HBL	No Exceedance
AW-11	UA	A6D	Cobalt, total	mg/L	11/09/2015 - 08/28/2023	21	24	CB around T-S line	-0.00755	0.006	MCL/HBL	No Exceedance
AW-11	UA	A6DR	Cobalt, total	mg/L	11/09/2015 - 11/03/2023	22	27	CB around T-S line	-0.00781	0.006	MCL/HBL	No Exceedance
AW-11	UA	A6	Fluoride, total	mg/L	11/09/2015 - 02/28/2023	20	85	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-11	UA	A6R	Fluoride, total	mg/L	11/09/2015 - 06/13/2023	21	86	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-11	UA	A6D	Fluoride, total	mg/L	11/09/2015 - 08/28/2023	22	86	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-11	UA	A6DR	Fluoride, total	mg/L	11/09/2015 - 11/03/2023	23	87	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-11	UA	A6	Lead, total	mg/L	11/09/2015 - 02/28/2023	19	32	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-11	UA	A6R	Lead, total	mg/L	11/09/2015 - 06/13/2023	20	35	CB around T-S line	-0.0148	0.015	MCL/HBL	No Exceedance
AW-11	UA	A6D	Lead, total	mg/L	11/09/2015 - 08/28/2023	21	38	CB around T-S line	-0.0111	0.015	MCL/HBL	No Exceedance
AW-11	UA	A6DR	Lead, total	mg/L	11/09/2015 - 11/03/2023	22	41	CB around T-S line	-0.0118	0.015	MCL/HBL	No Exceedance
AW-11	UA	A6	Lithium, total	mg/L	11/09/2015 - 02/28/2023	19	11	CB around T-S line	-0.0264	0.0541	Background	No Exceedance
AW-11	UA	A6R	Lithium, total	mg/L	11/09/2015 - 06/13/2023	20	15	CB around T-S line	-0.0269	0.0541	Background	No Exceedance
AW-11	UA	A6D	Lithium, total	mg/L	11/09/2015 - 08/28/2023	21	14	CB around T-S line	-0.0266	0.0541	Background	No Exceedance
AW-11	UA	A6DR	Lithium, total	mg/L	11/09/2015 - 11/03/2023	22	18	CB around T-S line	-0.0161	0.0541	Background	No Exceedance
AW-11	UA	A6	Mercury, total	mg/L	11/09/2015 - 02/28/2023	14	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-11	UA	A6R	Mercury, total	mg/L	11/09/2015 - 06/13/2023	15	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-11	UA	A6D	Mercury, total	mg/L	11/09/2015 - 08/28/2023	16	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-11	UA	A6DR	Mercury, total	mg/L	11/09/2015 - 11/03/2023	17	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-11	UA	A6	Molybdenum, total	mg/L	11/09/2015 - 02/28/2023	19	5.3	CB around linear reg	-0.00172	0.1	MCL/HBL	No Exceedance



**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-11	UA	A6R	Molybdenum, total	mg/L	11/09/2015 - 06/13/2023	20	5.0	CB around linear reg	-0.00162	0.1	MCL/HBL	No Exceedance
AW-11	UA	A6D	Molybdenum, total	mg/L	11/09/2015 - 08/28/2023	21	4.8	CB around linear reg	-0.00143	0.1	MCL/HBL	No Exceedance
AW-11	UA	A6DR	Molybdenum, total	mg/L	11/09/2015 - 11/03/2023	22	4.5	CB around linear reg	-0.00122	0.1	MCL/HBL	No Exceedance
AW-11	UA	A6	Radium 226 + Radium 228, total	pCi/L	11/09/2015 - 02/28/2023	19	0	CI around mean	1.69	5	MCL/HBL	No Exceedance
AW-11	UA	A6R	Radium 226 + Radium 228, total	pCi/L	11/09/2015 - 06/13/2023	20	0	CI around mean	1.73	5	MCL/HBL	No Exceedance
AW-11	UA	A6D	Radium 226 + Radium 228, total	pCi/L	11/09/2015 - 08/28/2023	21	0	CI around geomean	1.50	5	MCL/HBL	No Exceedance
AW-11	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	11/09/2015 - 11/03/2023	22	0	CI around geomean	1.52	5	MCL/HBL	No Exceedance
AW-11	UA	A6	Selenium, total	mg/L	11/09/2015 - 02/28/2023	19	63	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-11	UA	A6R	Selenium, total	mg/L	11/09/2015 - 06/13/2023	20	65	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-11	UA	A6D	Selenium, total	mg/L	11/09/2015 - 08/28/2023	21	67	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-11	UA	A6DR	Selenium, total	mg/L	11/09/2015 - 11/03/2023	22	68	CB around T-S line	-3.86e-05	0.05	MCL/HBL	No Exceedance
AW-11	UA	A6	Thallium, total	mg/L	11/09/2015 - 02/28/2023	14	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-11	UA	A6R	Thallium, total	mg/L	11/09/2015 - 06/13/2023	15	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-11	UA	A6D	Thallium, total	mg/L	11/09/2015 - 08/28/2023	16	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-11	UA	A6DR	Thallium, total	mg/L	11/09/2015 - 11/03/2023	17	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-14	UA	A6	Antimony, total	mg/L	02/11/2021 - 02/28/2023	8	88	CI around median	0.003	0.006	MCL/HBL	No Exceedance
AW-14	UA	A6R	Antimony, total	mg/L	02/11/2021 - 06/13/2023	9	89	CI around median	0.003	0.006	MCL/HBL	No Exceedance
AW-14	UA	A6D	Antimony, total	mg/L	02/11/2021 - 08/23/2023	10	90	CI around median	0.003	0.006	MCL/HBL	No Exceedance
AW-14	UA	A6DR	Antimony, total	mg/L	02/11/2021 - 11/03/2023	11	91	CI around median	0.003	0.006	MCL/HBL	No Exceedance
AW-14	UA	A6	Arsenic, total	mg/L	02/11/2021 - 02/28/2023	8	0	CI around mean	0.00743	0.0187	Background	No Exceedance
AW-14	UA	A6R	Arsenic, total	mg/L	02/11/2021 - 06/13/2023	9	0	CI around mean	0.00745	0.0187	Background	No Exceedance
AW-14	UA	A6D	Arsenic, total	mg/L	02/11/2021 - 08/23/2023	10	0	CI around mean	0.00692	0.0187	Background	No Exceedance
AW-14	UA	A6DR	Arsenic, total	mg/L	02/11/2021 - 11/03/2023	11	0	CI around mean	0.00634	0.0187	Background	No Exceedance
AW-14	UA	A6	Barium, total	mg/L	02/11/2021 - 02/28/2023	8	0	CI around mean	0.622	2.0	MCL/HBL	No Exceedance
AW-14	UA	A6R	Barium, total	mg/L	02/11/2021 - 06/13/2023	9	0	CB around linear reg	0.62	2.0	MCL/HBL	No Exceedance
AW-14	UA	A6D	Barium, total	mg/L	02/11/2021 - 08/23/2023	10	0	CB around linear reg	0.684	2.0	MCL/HBL	No Exceedance
AW-14	UA	A6DR	Barium, total	mg/L	02/11/2021 - 11/03/2023	11	0	CB around linear reg	0.721	2.0	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-14	UA	A6	Beryllium, total	mg/L	02/11/2021 - 02/28/2023	8	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-14	UA	A6R	Beryllium, total	mg/L	02/11/2021 - 06/13/2023	9	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-14	UA	A6D	Beryllium, total	mg/L	02/11/2021 - 08/23/2023	10	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-14	UA	A6DR	Beryllium, total	mg/L	02/11/2021 - 11/03/2023	11	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-14	UA	A6	Cadmium, total	mg/L	02/11/2021 - 02/28/2023	8	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-14	UA	A6R	Cadmium, total	mg/L	02/11/2021 - 06/13/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-14	UA	A6D	Cadmium, total	mg/L	02/11/2021 - 08/23/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-14	UA	A6DR	Cadmium, total	mg/L	02/11/2021 - 11/03/2023	11	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-14	UA	A6	Chromium, total	mg/L	02/11/2021 - 02/28/2023	8	88	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-14	UA	A6R	Chromium, total	mg/L	02/11/2021 - 06/13/2023	9	89	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-14	UA	A6D	Chromium, total	mg/L	02/11/2021 - 08/23/2023	10	90	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-14	UA	A6DR	Chromium, total	mg/L	02/11/2021 - 11/03/2023	11	91	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-14	UA	A6	Cobalt, total	mg/L	02/11/2021 - 02/28/2023	8	0	CI around mean	0.00188	0.006	MCL/HBL	No Exceedance
AW-14	UA	A6R	Cobalt, total	mg/L	02/11/2021 - 06/13/2023	9	0	CB around linear reg	-0.00451	0.006	MCL/HBL	No Exceedance
AW-14	UA	A6D	Cobalt, total	mg/L	02/11/2021 - 08/23/2023	10	10	CB around linear reg	-0.00363	0.006	MCL/HBL	No Exceedance
AW-14	UA	A6DR	Cobalt, total	mg/L	02/11/2021 - 11/03/2023	11	18	CB around linear reg	-0.00242	0.006	MCL/HBL	No Exceedance
AW-14	UA	A6	Fluoride, total	mg/L	02/11/2021 - 02/28/2023	8	75	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-14	UA	A6R	Fluoride, total	mg/L	02/11/2021 - 06/13/2023	9	78	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-14	UA	A6D	Fluoride, total	mg/L	02/11/2021 - 08/23/2023	10	80	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-14	UA	A6DR	Fluoride, total	mg/L	02/11/2021 - 11/03/2023	11	82	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-14	UA	A6	Lead, total	mg/L	02/11/2021 - 02/28/2023	8	62	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-14	UA	A6R	Lead, total	mg/L	02/11/2021 - 06/13/2023	9	67	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-14	UA	A6D	Lead, total	mg/L	02/11/2021 - 08/23/2023	10	70	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-14	UA	A6DR	Lead, total	mg/L	02/11/2021 - 11/03/2023	11	73	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-14	UA	A6	Lithium, total	mg/L	02/11/2021 - 02/28/2023	8	38	CI around mean	0.0187	0.0541	Background	No Exceedance
AW-14	UA	A6R	Lithium, total	mg/L	02/11/2021 - 06/13/2023	9	44	CI around mean	0.0189	0.0541	Background	No Exceedance
AW-14	UA	A6D	Lithium, total	mg/L	02/11/2021 - 08/23/2023	10	50	CI around median	0.02	0.0541	Background	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-14	UA	A6DR	Lithium, total	mg/L	02/11/2021 - 11/03/2023	11	55	CI around median	0.02	0.0541	Background	No Exceedance
AW-14	UA	A6	Mercury, total	mg/L	02/11/2021 - 02/28/2023	8	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-14	UA	A6R	Mercury, total	mg/L	02/11/2021 - 06/13/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-14	UA	A6D	Mercury, total	mg/L	02/11/2021 - 08/23/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-14	UA	A6DR	Mercury, total	mg/L	02/11/2021 - 11/03/2023	11	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-14	UA	A6	Molybdenum, total	mg/L	02/11/2021 - 02/28/2023	8	38	CI around mean	-0.00361	0.1	MCL/HBL	No Exceedance
AW-14	UA	A6R	Molybdenum, total	mg/L	02/11/2021 - 06/13/2023	9	33	CI around geomean	0.00127	0.1	MCL/HBL	No Exceedance
AW-14	UA	A6D	Molybdenum, total	mg/L	02/11/2021 - 08/23/2023	10	30	CI around geomean	0.00126	0.1	MCL/HBL	No Exceedance
AW-14	UA	A6DR	Molybdenum, total	mg/L	02/11/2021 - 11/03/2023	11	27	CI around geomean	0.00131	0.1	MCL/HBL	No Exceedance
AW-14	UA	A6	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 02/28/2023	8	0	CI around mean	1.64	5	MCL/HBL	No Exceedance
AW-14	UA	A6R	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 06/13/2023	9	0	CI around mean	1.78	5	MCL/HBL	No Exceedance
AW-14	UA	A6D	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 08/23/2023	10	0	CI around mean	1.91	5	MCL/HBL	No Exceedance
AW-14	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 11/03/2023	11	0	CI around mean	1.90	5	MCL/HBL	No Exceedance
AW-14	UA	A6	Selenium, total	mg/L	02/11/2021 - 02/28/2023	8	88	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-14	UA	A6R	Selenium, total	mg/L	02/11/2021 - 06/13/2023	9	89	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-14	UA	A6D	Selenium, total	mg/L	02/11/2021 - 08/23/2023	10	90	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-14	UA	A6DR	Selenium, total	mg/L	02/11/2021 - 11/03/2023	11	91	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-14	UA	A6	Thallium, total	mg/L	02/11/2021 - 02/28/2023	8	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-14	UA	A6R	Thallium, total	mg/L	02/11/2021 - 06/13/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-14	UA	A6D	Thallium, total	mg/L	02/11/2021 - 08/23/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-14	UA	A6DR	Thallium, total	mg/L	02/11/2021 - 11/03/2023	11	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-15	UA	A6	Antimony, total	mg/L	02/12/2021 - 02/27/2023	6	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-15	UA	A6R	Antimony, total	mg/L	02/12/2021 - 06/12/2023	7	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-15	UA	A6D	Antimony, total	mg/L	02/12/2021 - 08/23/2023	8	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-15	UA	A6DR	Antimony, total	mg/L	02/12/2021 - 11/02/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-15	UA	A6	Arsenic, total	mg/L	02/12/2021 - 02/27/2023	6	0	CI around mean	0.00222	0.0187	Background	No Exceedance
AW-15	UA	A6R	Arsenic, total	mg/L	02/12/2021 - 06/12/2023	7	0	CI around mean	0.00203	0.0187	Background	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-15	UA	A6D	Arsenic, total	mg/L	02/12/2021 - 08/23/2023	8	0	CI around mean	0.00175	0.0187	Background	No Exceedance
AW-15	UA	A6DR	Arsenic, total	mg/L	02/12/2021 - 11/02/2023	9	0	CI around mean	0.00172	0.0187	Background	No Exceedance
AW-15	UA	A6	Barium, total	mg/L	02/12/2021 - 02/27/2023	6	0	CI around mean	1.46	2.0	MCL/HBL	No Exceedance
AW-15	UA	A6R	Barium, total	mg/L	02/12/2021 - 06/12/2023	7	0	CI around mean	1.54	2.0	MCL/HBL	No Exceedance
AW-15	UA	A6D	Barium, total	mg/L	02/12/2021 - 08/23/2023	8	0	CI around mean	1.59	2.0	MCL/HBL	No Exceedance
AW-15	UA	A6DR	Barium, total	mg/L	02/12/2021 - 11/02/2023	9	0	CI around mean	1.63	2.0	MCL/HBL	No Exceedance
AW-15	UA	A6	Beryllium, total	mg/L	02/12/2021 - 02/27/2023	6	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-15	UA	A6R	Beryllium, total	mg/L	02/12/2021 - 06/12/2023	7	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-15	UA	A6D	Beryllium, total	mg/L	02/12/2021 - 08/23/2023	8	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-15	UA	A6DR	Beryllium, total	mg/L	02/12/2021 - 11/02/2023	9	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-15	UA	A6	Cadmium, total	mg/L	02/12/2021 - 02/27/2023	6	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-15	UA	A6R	Cadmium, total	mg/L	02/12/2021 - 06/12/2023	7	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-15	UA	A6D	Cadmium, total	mg/L	02/12/2021 - 08/23/2023	8	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-15	UA	A6DR	Cadmium, total	mg/L	02/12/2021 - 11/02/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-15	UA	A6	Chromium, total	mg/L	02/12/2021 - 02/27/2023	6	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
AW-15	UA	A6R	Chromium, total	mg/L	02/12/2021 - 06/12/2023	7	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
AW-15	UA	A6D	Chromium, total	mg/L	02/12/2021 - 08/23/2023	8	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
AW-15	UA	A6DR	Chromium, total	mg/L	02/12/2021 - 11/02/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
AW-15	UA	A6	Cobalt, total	mg/L	02/12/2021 - 02/27/2023	6	83	CI around median (Last Sample, n<7)	0.002	0.006	MCL/HBL	No Exceedance
AW-15	UA	A6R	Cobalt, total	mg/L	02/12/2021 - 06/12/2023	7	86	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-15	UA	A6D	Cobalt, total	mg/L	02/12/2021 - 08/23/2023	8	88	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-15	UA	A6DR	Cobalt, total	mg/L	02/12/2021 - 11/02/2023	9	89	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-15	UA	A6	Fluoride, total	mg/L	02/12/2021 - 02/27/2023	6	67	CI around median (Last Sample, n<7)	0.25	4.0	MCL/HBL	No Exceedance
AW-15	UA	A6R	Fluoride, total	mg/L	02/12/2021 - 06/12/2023	7	71	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-15	UA	A6D	Fluoride, total	mg/L	02/12/2021 - 08/23/2023	8	75	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-15	UA	A6DR	Fluoride, total	mg/L	02/12/2021 - 11/02/2023	9	78	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-15	UA	A6	Lead, total	mg/L	02/12/2021 - 02/27/2023	6	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-15	UA	A6R	Lead, total	mg/L	02/12/2021 - 06/12/2023	7	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
AW-15	UA	A6D	Lead, total	mg/L	02/12/2021 - 08/23/2023	8	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
AW-15	UA	A6DR	Lead, total	mg/L	02/12/2021 - 11/02/2023	9	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
AW-15	UA	A6	Lithium, total	mg/L	02/12/2021 - 02/27/2023	6	0	CI around mean	0.028	0.0541	Background	No Exceedance
AW-15	UA	A6R	Lithium, total	mg/L	02/12/2021 - 06/12/2023	7	0	CI around mean	0.0281	0.0541	Background	No Exceedance
AW-15	UA	A6D	Lithium, total	mg/L	02/12/2021 - 08/23/2023	8	0	CI around mean	0.0278	0.0541	Background	No Exceedance
AW-15	UA	A6DR	Lithium, total	mg/L	02/12/2021 - 11/02/2023	9	0	CI around mean	0.0279	0.0541	Background	No Exceedance
AW-15	UA	A6	Mercury, total	mg/L	02/12/2021 - 02/27/2023	6	83	CI around median (Last Sample, n<7)	0.00021	0.002	MCL/HBL	No Exceedance
AW-15	UA	A6R	Mercury, total	mg/L	02/12/2021 - 06/12/2023	7	86	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-15	UA	A6D	Mercury, total	mg/L	02/12/2021 - 08/23/2023	8	88	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-15	UA	A6DR	Mercury, total	mg/L	02/12/2021 - 11/02/2023	9	89	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-15	UA	A6	Molybdenum, total	mg/L	02/12/2021 - 02/27/2023	6	67	CI around median (Last Sample, n<7)	0.001	0.1	MCL/HBL	No Exceedance
AW-15	UA	A6R	Molybdenum, total	mg/L	02/12/2021 - 06/12/2023	7	71	CI around median	0.001	0.1	MCL/HBL	No Exceedance
AW-15	UA	A6D	Molybdenum, total	mg/L	02/12/2021 - 08/23/2023	8	75	CI around median	0.001	0.1	MCL/HBL	No Exceedance
AW-15	UA	A6DR	Molybdenum, total	mg/L	02/12/2021 - 11/02/2023	9	78	CI around median	0.001	0.1	MCL/HBL	No Exceedance
AW-15	UA	A6	Radium 226 + Radium 228, total	pCi/L	02/12/2021 - 02/27/2023	6	0	CI around mean	1.50	5	MCL/HBL	No Exceedance
AW-15	UA	A6R	Radium 226 + Radium 228, total	pCi/L	02/12/2021 - 06/12/2023	7	0	CI around mean	2.01	5	MCL/HBL	No Exceedance
AW-15	UA	A6D	Radium 226 + Radium 228, total	pCi/L	02/12/2021 - 08/23/2023	8	0	CI around mean	2.58	5	MCL/HBL	No Exceedance
AW-15	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	02/12/2021 - 11/02/2023	9	0	CI around mean	2.97	5	MCL/HBL	No Exceedance
AW-15	UA	A6	Selenium, total	mg/L	02/12/2021 - 02/27/2023	6	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-15	UA	A6R	Selenium, total	mg/L	02/12/2021 - 06/12/2023	7	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-15	UA	A6D	Selenium, total	mg/L	02/12/2021 - 08/23/2023	8	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-15	UA	A6DR	Selenium, total	mg/L	02/12/2021 - 11/02/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-15	UA	A6	Thallium, total	mg/L	02/12/2021 - 02/27/2023	6	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-15	UA	A6R	Thallium, total	mg/L	02/12/2021 - 06/12/2023	7	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-15	UA	A6D	Thallium, total	mg/L	02/12/2021 - 08/23/2023	8	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-15	UA	A6DR	Thallium, total	mg/L	02/12/2021 - 11/02/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance



**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-15S	PMP	A6	Antimony, total	mg/L	02/12/2021 - 02/27/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-15S	PMP	A6R	Antimony, total	mg/L	02/12/2021 - 06/12/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-15S	PMP	A6D	Antimony, total	mg/L	02/12/2021 - 08/23/2023	11	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-15S	PMP	A6DR	Antimony, total	mg/L	02/12/2021 - 11/02/2023	12	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-15S	PMP	A6	Arsenic, total	mg/L	02/12/2021 - 02/27/2023	9	44	CI around median	0.001	0.0187	Background	No Exceedance
AW-15S	PMP	A6R	Arsenic, total	mg/L	02/12/2021 - 06/12/2023	10	50	CI around median	0.001	0.0187	Background	No Exceedance
AW-15S	PMP	A6D	Arsenic, total	mg/L	02/12/2021 - 08/23/2023	11	55	CI around median	0.001	0.0187	Background	No Exceedance
AW-15S	PMP	A6DR	Arsenic, total	mg/L	02/12/2021 - 11/02/2023	12	58	CI around median	0.001	0.0187	Background	No Exceedance
AW-15S	PMP	A6	Barium, total	mg/L	02/12/2021 - 02/27/2023	9	0	CI around median	0.093	2.0	MCL/HBL	No Exceedance
AW-15S	PMP	A6R	Barium, total	mg/L	02/12/2021 - 06/12/2023	10	0	CB around T-S line	-0.528	2.0	MCL/HBL	No Exceedance
AW-15S	PMP	A6D	Barium, total	mg/L	02/12/2021 - 08/23/2023	11	0	CB around T-S line	-0.232	2.0	MCL/HBL	No Exceedance
AW-15S	PMP	A6DR	Barium, total	mg/L	02/12/2021 - 11/02/2023	12	0	CB around T-S line	-0.0761	2.0	MCL/HBL	No Exceedance
AW-15S	PMP	A6	Beryllium, total	mg/L	02/12/2021 - 02/27/2023	9	89	CI around median	0.001	0.0140	Background	No Exceedance
AW-15S	PMP	A6R	Beryllium, total	mg/L	02/12/2021 - 06/12/2023	10	90	CI around median	0.001	0.0140	Background	No Exceedance
AW-15S	PMP	A6D	Beryllium, total	mg/L	02/12/2021 - 08/23/2023	11	91	CI around median	0.001	0.0140	Background	No Exceedance
AW-15S	PMP	A6DR	Beryllium, total	mg/L	02/12/2021 - 11/02/2023	12	92	CI around median	0.001	0.0140	Background	No Exceedance
AW-15S	PMP	A6	Cadmium, total	mg/L	02/12/2021 - 02/27/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-15S	PMP	A6R	Cadmium, total	mg/L	02/12/2021 - 06/12/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-15S	PMP	A6D	Cadmium, total	mg/L	02/12/2021 - 08/23/2023	11	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-15S	PMP	A6DR	Cadmium, total	mg/L	02/12/2021 - 11/02/2023	12	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-15S	PMP	A6	Chromium, total	mg/L	02/12/2021 - 02/27/2023	9	89	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-15S	PMP	A6R	Chromium, total	mg/L	02/12/2021 - 06/12/2023	10	90	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-15S	PMP	A6D	Chromium, total	mg/L	02/12/2021 - 08/23/2023	11	91	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-15S	PMP	A6DR	Chromium, total	mg/L	02/12/2021 - 11/02/2023	12	92	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-15S	PMP	A6	Cobalt, total	mg/L	02/12/2021 - 02/27/2023	9	89	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-15S	PMP	A6R	Cobalt, total	mg/L	02/12/2021 - 06/12/2023	10	90	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-15S	PMP	A6D	Cobalt, total	mg/L	02/12/2021 - 08/23/2023	11	91	CI around median	0.002	0.006	MCL/HBL	No Exceedance



**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-15S	PMP	A6DR	Cobalt, total	mg/L	02/12/2021 - 11/02/2023	12	92	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-15S	PMP	A6	Fluoride, total	mg/L	02/12/2021 - 02/27/2023	9	33	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-15S	PMP	A6R	Fluoride, total	mg/L	02/12/2021 - 06/12/2023	10	40	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-15S	PMP	A6D	Fluoride, total	mg/L	02/12/2021 - 08/23/2023	11	36	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-15S	PMP	A6DR	Fluoride, total	mg/L	02/12/2021 - 11/02/2023	12	33	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-15S	PMP	A6	Lead, total	mg/L	02/12/2021 - 02/27/2023	9	78	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-15S	PMP	A6R	Lead, total	mg/L	02/12/2021 - 06/12/2023	10	80	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-15S	PMP	A6D	Lead, total	mg/L	02/12/2021 - 08/23/2023	11	82	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-15S	PMP	A6DR	Lead, total	mg/L	02/12/2021 - 11/02/2023	12	83	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-15S	PMP	A6	Lithium, total	mg/L	02/12/2021 - 02/27/2023	9	78	CI around median	0.02	0.0541	Background	No Exceedance
AW-15S	PMP	A6R	Lithium, total	mg/L	02/12/2021 - 06/12/2023	10	80	CI around median	0.02	0.0541	Background	No Exceedance
AW-15S	PMP	A6D	Lithium, total	mg/L	02/12/2021 - 08/23/2023	11	82	CI around median	0.02	0.0541	Background	No Exceedance
AW-15S	PMP	A6DR	Lithium, total	mg/L	02/12/2021 - 11/02/2023	12	83	CI around median	0.02	0.0541	Background	No Exceedance
AW-15S	PMP	A6	Mercury, total	mg/L	02/12/2021 - 02/27/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-15S	PMP	A6R	Mercury, total	mg/L	02/12/2021 - 06/12/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-15S	PMP	A6D	Mercury, total	mg/L	02/12/2021 - 08/23/2023	11	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-15S	PMP	A6DR	Mercury, total	mg/L	02/12/2021 - 11/02/2023	12	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-15S	PMP	A6	Molybdenum, total	mg/L	02/12/2021 - 02/27/2023	9	0	CB around linear reg	0.00129	0.1	MCL/HBL	No Exceedance
AW-15S	PMP	A6R	Molybdenum, total	mg/L	02/12/2021 - 06/12/2023	10	0	CB around linear reg	0.00181	0.1	MCL/HBL	No Exceedance
AW-15S	PMP	A6D	Molybdenum, total	mg/L	02/12/2021 - 08/23/2023	11	0	CB around linear reg	0.00194	0.1	MCL/HBL	No Exceedance
AW-15S	PMP	A6DR	Molybdenum, total	mg/L	02/12/2021 - 11/02/2023	12	0	CB around linear reg	0.00218	0.1	MCL/HBL	No Exceedance
AW-15S	PMP	A6	Radium 226 + Radium 228, total	pCi/L	02/12/2021 - 02/27/2023	8	0	CI around mean	0.196	5	MCL/HBL	No Exceedance
AW-15S	PMP	A6R	Radium 226 + Radium 228, total	pCi/L	02/12/2021 - 06/12/2023	9	0	CI around mean	0.184	5	MCL/HBL	No Exceedance
AW-15S	PMP	A6D	Radium 226 + Radium 228, total	pCi/L	02/12/2021 - 08/23/2023	10	0	CI around mean	0.278	5	MCL/HBL	No Exceedance
AW-15S	PMP	A6DR	Radium 226 + Radium 228, total	pCi/L	02/12/2021 - 11/02/2023	11	0	CI around mean	0.360	5	MCL/HBL	No Exceedance
AW-15S	PMP	A6	Selenium, total	mg/L	02/12/2021 - 02/27/2023	9	44	CB around linear reg	-0.000682	0.05	MCL/HBL	No Exceedance
AW-15S	PMP	A6R	Selenium, total	mg/L	02/12/2021 - 06/12/2023	10	40	CI around mean	0.000931	0.05	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-15S	PMP	A6D	Selenium, total	mg/L	02/12/2021 - 08/23/2023	11	45	CI around geomean	0.000977	0.05	MCL/HBL	No Exceedance
AW-15S	PMP	A6DR	Selenium, total	mg/L	02/12/2021 - 11/02/2023	12	42	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-15S	PMP	A6	Thallium, total	mg/L	02/12/2021 - 02/27/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-15S	PMP	A6R	Thallium, total	mg/L	02/12/2021 - 06/12/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-15S	PMP	A6D	Thallium, total	mg/L	02/12/2021 - 08/23/2023	11	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-15S	PMP	A6DR	Thallium, total	mg/L	02/12/2021 - 11/02/2023	12	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-16	UA	A6	Antimony, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-16	UA	A6R	Antimony, total	mg/L	02/11/2021 - 06/12/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-16	UA	A6D	Antimony, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-16	UA	A6DR	Antimony, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-16	UA	A6	Arsenic, total	mg/L	02/11/2021 - 02/28/2023	9	11	CB around linear reg	0.000863	0.0187	Background	No Exceedance
AW-16	UA	A6R	Arsenic, total	mg/L	02/11/2021 - 06/12/2023	10	10	CB around linear reg	0.000917	0.0187	Background	No Exceedance
AW-16	UA	A6D	Arsenic, total	mg/L	02/11/2021 - 08/21/2023	11	18	CI around mean	0.00119	0.0187	Background	No Exceedance
AW-16	UA	A6DR	Arsenic, total	mg/L	02/11/2021 - 11/02/2023	12	17	CI around mean	0.00119	0.0187	Background	No Exceedance
AW-16	UA	A6	Barium, total	mg/L	02/11/2021 - 02/28/2023	9	0	CI around mean	1.17	2.0	MCL/HBL	No Exceedance
AW-16	UA	A6R	Barium, total	mg/L	02/11/2021 - 06/12/2023	10	0	CI around mean	1.19	2.0	MCL/HBL	No Exceedance
AW-16	UA	A6D	Barium, total	mg/L	02/11/2021 - 08/21/2023	11	0	CI around mean	1.17	2.0	MCL/HBL	No Exceedance
AW-16	UA	A6DR	Barium, total	mg/L	02/11/2021 - 11/02/2023	12	0	CI around mean	1.16	2.0	MCL/HBL	No Exceedance
AW-16	UA	A6	Beryllium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-16	UA	A6R	Beryllium, total	mg/L	02/11/2021 - 06/12/2023	10	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-16	UA	A6D	Beryllium, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-16	UA	A6DR	Beryllium, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-16	UA	A6	Cadmium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-16	UA	A6R	Cadmium, total	mg/L	02/11/2021 - 06/12/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-16	UA	A6D	Cadmium, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-16	UA	A6DR	Cadmium, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-16	UA	A6	Chromium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-16	UA	A6R	Chromium, total	mg/L	02/11/2021 - 06/12/2023	10	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
AW-16	UA	A6D	Chromium, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
AW-16	UA	A6DR	Chromium, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
AW-16	UA	A6	Cobalt, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
AW-16	UA	A6R	Cobalt, total	mg/L	02/11/2021 - 06/12/2023	10	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
AW-16	UA	A6D	Cobalt, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
AW-16	UA	A6DR	Cobalt, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
AW-16	UA	A6	Fluoride, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.25	4.0	MCL/HBL	No Exceedance
AW-16	UA	A6R	Fluoride, total	mg/L	02/11/2021 - 06/12/2023	10	100	All ND - Last	0.25	4.0	MCL/HBL	No Exceedance
AW-16	UA	A6D	Fluoride, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.25	4.0	MCL/HBL	No Exceedance
AW-16	UA	A6DR	Fluoride, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.25	4.0	MCL/HBL	No Exceedance
AW-16	UA	A6	Lead, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
AW-16	UA	A6R	Lead, total	mg/L	02/11/2021 - 06/12/2023	10	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
AW-16	UA	A6D	Lead, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
AW-16	UA	A6DR	Lead, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.001	0.015	MCL/HBL	No Exceedance
AW-16	UA	A6	Lithium, total	mg/L	02/11/2021 - 02/28/2023	9	0	CI around median	0.036	0.0541	Background	No Exceedance
AW-16	UA	A6R	Lithium, total	mg/L	02/11/2021 - 06/12/2023	10	0	CI around median	0.036	0.0541	Background	No Exceedance
AW-16	UA	A6D	Lithium, total	mg/L	02/11/2021 - 08/21/2023	11	0	CI around median	0.032	0.0541	Background	No Exceedance
AW-16	UA	A6DR	Lithium, total	mg/L	02/11/2021 - 11/02/2023	12	0	CB around T-S line	0.00737	0.0541	Background	No Exceedance
AW-16	UA	A6	Mercury, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-16	UA	A6R	Mercury, total	mg/L	02/11/2021 - 06/12/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-16	UA	A6D	Mercury, total	mg/L	02/11/2021 - 08/21/2023	11	91	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-16	UA	A6DR	Mercury, total	mg/L	02/11/2021 - 11/02/2023	12	92	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-16	UA	A6	Molybdenum, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance
AW-16	UA	A6R	Molybdenum, total	mg/L	02/11/2021 - 06/12/2023	10	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance
AW-16	UA	A6D	Molybdenum, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance
AW-16	UA	A6DR	Molybdenum, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.001	0.1	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-16	UA	A6	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 02/28/2023	9	0	CI around mean	4.11	5	MCL/HBL	No Exceedance
AW-16	UA	A6R	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 06/12/2023	10	0	CI around mean	4.02	5	MCL/HBL	No Exceedance
AW-16	UA	A6D	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 08/21/2023	11	0	CI around mean	3.99	5	MCL/HBL	No Exceedance
AW-16	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 11/02/2023	12	0	CB around linear reg	1.74	5	MCL/HBL	No Exceedance
AW-16	UA	A6	Selenium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-16	UA	A6R	Selenium, total	mg/L	02/11/2021 - 06/12/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-16	UA	A6D	Selenium, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-16	UA	A6DR	Selenium, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-16	UA	A6	Thallium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-16	UA	A6R	Thallium, total	mg/L	02/11/2021 - 06/12/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-16	UA	A6D	Thallium, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-16	UA	A6DR	Thallium, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-17	UA	A6	Antimony, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-17	UA	A6R	Antimony, total	mg/L	02/11/2021 - 06/13/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-17	UA	A6D	Antimony, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-17	UA	A6DR	Antimony, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-17	UA	A6	Arsenic, total	mg/L	02/11/2021 - 02/28/2023	9	0	CI around mean	0.00495	0.0187	Background	No Exceedance
AW-17	UA	A6R	Arsenic, total	mg/L	02/11/2021 - 06/13/2023	10	0	CI around mean	0.00485	0.0187	Background	No Exceedance
AW-17	UA	A6D	Arsenic, total	mg/L	02/11/2021 - 08/21/2023	11	0	CI around mean	0.00449	0.0187	Background	No Exceedance
AW-17	UA	A6DR	Arsenic, total	mg/L	02/11/2021 - 11/01/2023	12	0	CB around linear reg	0.00223	0.0187	Background	No Exceedance
AW-17	UA	A6	Barium, total	mg/L	02/11/2021 - 02/28/2023	9	0	CI around mean	1.04	2.0	MCL/HBL	No Exceedance
AW-17	UA	A6R	Barium, total	mg/L	02/11/2021 - 06/13/2023	10	0	CI around mean	1.05	2.0	MCL/HBL	No Exceedance
AW-17	UA	A6D	Barium, total	mg/L	02/11/2021 - 08/21/2023	11	0	CI around mean	1.04	2.0	MCL/HBL	No Exceedance
AW-17	UA	A6DR	Barium, total	mg/L	02/11/2021 - 11/01/2023	12	0	CI around mean	1.03	2.0	MCL/HBL	No Exceedance
AW-17	UA	A6	Beryllium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-17	UA	A6R	Beryllium, total	mg/L	02/11/2021 - 06/13/2023	10	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-17	UA	A6D	Beryllium, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.001	0.0140	Background	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-17	UA	A6DR	Beryllium, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-17	UA	A6	Cadmium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-17	UA	A6R	Cadmium, total	mg/L	02/11/2021 - 06/13/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-17	UA	A6D	Cadmium, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-17	UA	A6DR	Cadmium, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-17	UA	A6	Chromium, total	mg/L	02/11/2021 - 02/28/2023	9	56	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-17	UA	A6R	Chromium, total	mg/L	02/11/2021 - 06/13/2023	10	60	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-17	UA	A6D	Chromium, total	mg/L	02/11/2021 - 08/21/2023	11	64	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-17	UA	A6DR	Chromium, total	mg/L	02/11/2021 - 11/01/2023	12	67	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-17	UA	A6	Cobalt, total	mg/L	02/11/2021 - 02/28/2023	9	0	CI around mean	0.00189	0.006	MCL/HBL	No Exceedance
AW-17	UA	A6R	Cobalt, total	mg/L	02/11/2021 - 06/13/2023	10	0	CI around mean	0.00197	0.006	MCL/HBL	No Exceedance
AW-17	UA	A6D	Cobalt, total	mg/L	02/11/2021 - 08/21/2023	11	0	CI around geomean	0.00214	0.006	MCL/HBL	No Exceedance
AW-17	UA	A6DR	Cobalt, total	mg/L	02/11/2021 - 11/01/2023	12	0	CI around median	0.0022	0.006	MCL/HBL	No Exceedance
AW-17	UA	A6	Fluoride, total	mg/L	02/11/2021 - 02/28/2023	9	89	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-17	UA	A6R	Fluoride, total	mg/L	02/11/2021 - 06/13/2023	10	90	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-17	UA	A6D	Fluoride, total	mg/L	02/11/2021 - 08/21/2023	11	91	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-17	UA	A6DR	Fluoride, total	mg/L	02/11/2021 - 11/01/2023	12	92	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-17	UA	A6	Lead, total	mg/L	02/11/2021 - 02/28/2023	9	56	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-17	UA	A6R	Lead, total	mg/L	02/11/2021 - 06/13/2023	10	60	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-17	UA	A6D	Lead, total	mg/L	02/11/2021 - 08/21/2023	11	64	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-17	UA	A6DR	Lead, total	mg/L	02/11/2021 - 11/01/2023	12	67	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-17	UA	A6	Lithium, total	mg/L	02/11/2021 - 02/28/2023	9	0	CI around mean	0.0346	0.0541	Background	No Exceedance
AW-17	UA	A6R	Lithium, total	mg/L	02/11/2021 - 06/13/2023	10	0	CI around mean	0.0336	0.0541	Background	No Exceedance
AW-17	UA	A6D	Lithium, total	mg/L	02/11/2021 - 08/21/2023	11	0	CB around linear reg	-0.00453	0.0541	Background	No Exceedance
AW-17	UA	A6DR	Lithium, total	mg/L	02/11/2021 - 11/01/2023	12	0	CB around linear reg	0.000638	0.0541	Background	No Exceedance
AW-17	UA	A6	Mercury, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-17	UA	A6R	Mercury, total	mg/L	02/11/2021 - 06/13/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance



**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-17	UA	A6D	Mercury, total	mg/L	02/11/2021 - 08/21/2023	11	91	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-17	UA	A6DR	Mercury, total	mg/L	02/11/2021 - 11/01/2023	12	92	CI around median	0.0002	0.002	MCL/HBL	No Exceedance
AW-17	UA	A6	Molybdenum, total	mg/L	02/11/2021 - 02/28/2023	9	22	CI around mean	0.00104	0.1	MCL/HBL	No Exceedance
AW-17	UA	A6R	Molybdenum, total	mg/L	02/11/2021 - 06/13/2023	10	30	CI around mean	0.00102	0.1	MCL/HBL	No Exceedance
AW-17	UA	A6D	Molybdenum, total	mg/L	02/11/2021 - 08/21/2023	11	36	CB around linear reg	-0.000279	0.1	MCL/HBL	No Exceedance
AW-17	UA	A6DR	Molybdenum, total	mg/L	02/11/2021 - 11/01/2023	12	42	CB around linear reg	-9.68e-05	0.1	MCL/HBL	No Exceedance
AW-17	UA	A6	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 02/28/2023	9	0	CI around mean	2.53	5	MCL/HBL	No Exceedance
AW-17	UA	A6R	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 06/13/2023	10	0	CI around mean	2.59	5	MCL/HBL	No Exceedance
AW-17	UA	A6D	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 08/21/2023	11	0	CI around mean	2.59	5	MCL/HBL	No Exceedance
AW-17	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 11/01/2023	12	0	CI around mean	2.61	5	MCL/HBL	No Exceedance
AW-17	UA	A6	Selenium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-17	UA	A6R	Selenium, total	mg/L	02/11/2021 - 06/13/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-17	UA	A6D	Selenium, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-17	UA	A6DR	Selenium, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-17	UA	A6	Thallium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-17	UA	A6R	Thallium, total	mg/L	02/11/2021 - 06/13/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-17	UA	A6D	Thallium, total	mg/L	02/11/2021 - 08/21/2023	11	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-17	UA	A6DR	Thallium, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-18	UA	A6	Antimony, total	mg/L	02/11/2021 - 02/27/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-18	UA	A6R	Antimony, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-18	UA	A6D	Antimony, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-18	UA	A6DR	Antimony, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-18	UA	A6	Arsenic, total	mg/L	02/11/2021 - 02/27/2023	9	0	CI around mean	0.00339	0.0187	Background	No Exceedance
AW-18	UA	A6R	Arsenic, total	mg/L	02/11/2021 - 06/14/2023	10	0	CI around mean	0.00334	0.0187	Background	No Exceedance
AW-18	UA	A6D	Arsenic, total	mg/L	02/11/2021 - 08/22/2023	11	0	CI around mean	0.00319	0.0187	Background	No Exceedance
AW-18	UA	A6DR	Arsenic, total	mg/L	02/11/2021 - 11/01/2023	12	0	CI around mean	0.0033	0.0187	Background	No Exceedance
AW-18	UA	A6	Barium, total	mg/L	02/11/2021 - 02/27/2023	9	0	CB around linear reg	1.15	2.0	MCL/HBL	No Exceedance



**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-18	UA	A6R	Barium, total	mg/L	02/11/2021 - 06/14/2023	10	0	CB around linear reg	0.962	2.0	MCL/HBL	No Exceedance
AW-18	UA	A6D	Barium, total	mg/L	02/11/2021 - 08/22/2023	11	0	CB around linear reg	0.983	2.0	MCL/HBL	No Exceedance
AW-18	UA	A6DR	Barium, total	mg/L	02/11/2021 - 11/01/2023	12	0	CB around linear reg	1.1	2.0	MCL/HBL	No Exceedance
AW-18	UA	A6	Beryllium, total	mg/L	02/11/2021 - 02/27/2023	9	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-18	UA	A6R	Beryllium, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-18	UA	A6D	Beryllium, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-18	UA	A6DR	Beryllium, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-18	UA	A6	Cadmium, total	mg/L	02/11/2021 - 02/27/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-18	UA	A6R	Cadmium, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-18	UA	A6D	Cadmium, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-18	UA	A6DR	Cadmium, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-18	UA	A6	Chromium, total	mg/L	02/11/2021 - 02/27/2023	9	89	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-18	UA	A6R	Chromium, total	mg/L	02/11/2021 - 06/14/2023	10	90	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-18	UA	A6D	Chromium, total	mg/L	02/11/2021 - 08/22/2023	11	91	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-18	UA	A6DR	Chromium, total	mg/L	02/11/2021 - 11/01/2023	12	92	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-18	UA	A6	Cobalt, total	mg/L	02/11/2021 - 02/27/2023	9	67	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-18	UA	A6R	Cobalt, total	mg/L	02/11/2021 - 06/14/2023	10	70	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-18	UA	A6D	Cobalt, total	mg/L	02/11/2021 - 08/22/2023	11	73	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-18	UA	A6DR	Cobalt, total	mg/L	02/11/2021 - 11/01/2023	12	75	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-18	UA	A6	Fluoride, total	mg/L	02/11/2021 - 02/27/2023	9	33	CI around geomean	0.232	4.0	MCL/HBL	No Exceedance
AW-18	UA	A6R	Fluoride, total	mg/L	02/11/2021 - 06/14/2023	10	40	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-18	UA	A6D	Fluoride, total	mg/L	02/11/2021 - 08/22/2023	11	45	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-18	UA	A6DR	Fluoride, total	mg/L	02/11/2021 - 11/01/2023	12	50	CI around median	0.25	4.0	MCL/HBL	No Exceedance
AW-18	UA	A6	Lead, total	mg/L	02/11/2021 - 02/27/2023	9	89	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-18	UA	A6R	Lead, total	mg/L	02/11/2021 - 06/14/2023	10	80	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-18	UA	A6D	Lead, total	mg/L	02/11/2021 - 08/22/2023	11	82	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-18	UA	A6DR	Lead, total	mg/L	02/11/2021 - 11/01/2023	12	75	CI around median	0.001	0.015	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-18	UA	A6	Lithium, total	mg/L	02/11/2021 - 02/27/2023	9	0	CI around mean	0.0427	0.0541	Background	No Exceedance
AW-18	UA	A6R	Lithium, total	mg/L	02/11/2021 - 06/14/2023	10	0	CB around linear reg	-0.0455	0.0541	Background	No Exceedance
AW-18	UA	A6D	Lithium, total	mg/L	02/11/2021 - 08/22/2023	11	0	CB around linear reg	-0.032	0.0541	Background	No Exceedance
AW-18	UA	A6DR	Lithium, total	mg/L	02/11/2021 - 11/01/2023	12	0	CB around linear reg	-0.0246	0.0541	Background	No Exceedance
AW-18	UA	A6	Mercury, total	mg/L	02/11/2021 - 02/27/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-18	UA	A6R	Mercury, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-18	UA	A6D	Mercury, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-18	UA	A6DR	Mercury, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-18	UA	A6	Molybdenum, total	mg/L	02/11/2021 - 02/27/2023	9	0	CB around linear reg	-0.029	0.1	MCL/HBL	No Exceedance
AW-18	UA	A6R	Molybdenum, total	mg/L	02/11/2021 - 06/14/2023	10	0	CB around linear reg	-0.0197	0.1	MCL/HBL	No Exceedance
AW-18	UA	A6D	Molybdenum, total	mg/L	02/11/2021 - 08/22/2023	11	0	CB around linear reg	-0.0148	0.1	MCL/HBL	No Exceedance
AW-18	UA	A6DR	Molybdenum, total	mg/L	02/11/2021 - 11/01/2023	12	0	CB around linear reg	-0.0127	0.1	MCL/HBL	No Exceedance
AW-18	UA	A6	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 02/27/2023	9	0	CI around mean	1.95	5	MCL/HBL	No Exceedance
AW-18	UA	A6R	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 06/14/2023	10	0	CI around mean	2.08	5	MCL/HBL	No Exceedance
AW-18	UA	A6D	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 08/22/2023	11	0	CI around mean	2.11	5	MCL/HBL	No Exceedance
AW-18	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 11/01/2023	12	0	CI around mean	2.27	5	MCL/HBL	No Exceedance
AW-18	UA	A6	Selenium, total	mg/L	02/11/2021 - 02/27/2023	9	89	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-18	UA	A6R	Selenium, total	mg/L	02/11/2021 - 06/14/2023	10	90	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-18	UA	A6D	Selenium, total	mg/L	02/11/2021 - 08/22/2023	11	91	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-18	UA	A6DR	Selenium, total	mg/L	02/11/2021 - 11/01/2023	12	92	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-18	UA	A6	Thallium, total	mg/L	02/11/2021 - 02/27/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-18	UA	A6R	Thallium, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-18	UA	A6D	Thallium, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-18	UA	A6DR	Thallium, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-19	UA	A6	Antimony, total	mg/L	02/11/2021 - 02/27/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-19	UA	A6R	Antimony, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-19	UA	A6D	Antimony, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-19	UA	A6DR	Antimony, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-19	UA	A6	Arsenic, total	mg/L	02/11/2021 - 02/27/2023	9	0	CI around mean	0.0107	0.0187	Background	No Exceedance
AW-19	UA	A6R	Arsenic, total	mg/L	02/11/2021 - 06/14/2023	10	0	CI around mean	0.0112	0.0187	Background	No Exceedance
AW-19	UA	A6D	Arsenic, total	mg/L	02/11/2021 - 08/22/2023	11	0	CI around mean	0.0113	0.0187	Background	No Exceedance
AW-19	UA	A6DR	Arsenic, total	mg/L	02/11/2021 - 11/01/2023	12	0	CI around mean	0.0111	0.0187	Background	No Exceedance
AW-19	UA	A6	Barium, total	mg/L	02/11/2021 - 02/27/2023	9	0	CI around median	0.18	2.0	MCL/HBL	No Exceedance
AW-19	UA	A6R	Barium, total	mg/L	02/11/2021 - 06/14/2023	10	0	CI around median	0.18	2.0	MCL/HBL	No Exceedance
AW-19	UA	A6D	Barium, total	mg/L	02/11/2021 - 08/22/2023	11	0	CI around median	0.18	2.0	MCL/HBL	No Exceedance
AW-19	UA	A6DR	Barium, total	mg/L	02/11/2021 - 11/01/2023	12	0	CI around median	0.18	2.0	MCL/HBL	No Exceedance
AW-19	UA	A6	Beryllium, total	mg/L	02/11/2021 - 02/27/2023	9	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-19	UA	A6R	Beryllium, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-19	UA	A6D	Beryllium, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-19	UA	A6DR	Beryllium, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-19	UA	A6	Cadmium, total	mg/L	02/11/2021 - 02/27/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-19	UA	A6R	Cadmium, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-19	UA	A6D	Cadmium, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-19	UA	A6DR	Cadmium, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-19	UA	A6	Chromium, total	mg/L	02/11/2021 - 02/27/2023	9	67	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-19	UA	A6R	Chromium, total	mg/L	02/11/2021 - 06/14/2023	10	70	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-19	UA	A6D	Chromium, total	mg/L	02/11/2021 - 08/22/2023	11	73	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-19	UA	A6DR	Chromium, total	mg/L	02/11/2021 - 11/01/2023	12	75	CI around median	0.004	0.1	MCL/HBL	No Exceedance
AW-19	UA	A6	Cobalt, total	mg/L	02/11/2021 - 02/27/2023	9	67	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-19	UA	A6R	Cobalt, total	mg/L	02/11/2021 - 06/14/2023	10	70	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-19	UA	A6D	Cobalt, total	mg/L	02/11/2021 - 08/22/2023	11	73	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-19	UA	A6DR	Cobalt, total	mg/L	02/11/2021 - 11/01/2023	12	75	CI around median	0.002	0.006	MCL/HBL	No Exceedance
AW-19	UA	A6	Fluoride, total	mg/L	02/11/2021 - 02/27/2023	9	0	CI around mean	0.29	4.0	MCL/HBL	No Exceedance
AW-19	UA	A6R	Fluoride, total	mg/L	02/11/2021 - 06/14/2023	10	0	CI around mean	0.284	4.0	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT  
ASH POND  
BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-19	UA	A6D	Fluoride, total	mg/L	02/11/2021 - 08/22/2023	11	0	CI around mean	0.288	4.0	MCL/HBL	No Exceedance
AW-19	UA	A6DR	Fluoride, total	mg/L	02/11/2021 - 11/01/2023	12	8.3	CB around linear reg	0.116	4.0	MCL/HBL	No Exceedance
AW-19	UA	A6	Lead, total	mg/L	02/11/2021 - 02/27/2023	9	44	CI around geomean	0.000933	0.015	MCL/HBL	No Exceedance
AW-19	UA	A6R	Lead, total	mg/L	02/11/2021 - 06/14/2023	10	40	CI around geomean	0.00101	0.015	MCL/HBL	No Exceedance
AW-19	UA	A6D	Lead, total	mg/L	02/11/2021 - 08/22/2023	11	45	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-19	UA	A6DR	Lead, total	mg/L	02/11/2021 - 11/01/2023	12	50	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-19	UA	A6	Lithium, total	mg/L	02/11/2021 - 02/27/2023	9	56	CI around median	0.02	0.0541	Background	No Exceedance
AW-19	UA	A6R	Lithium, total	mg/L	02/11/2021 - 06/14/2023	10	60	CI around median	0.02	0.0541	Background	No Exceedance
AW-19	UA	A6D	Lithium, total	mg/L	02/11/2021 - 08/22/2023	11	64	CI around median	0.02	0.0541	Background	No Exceedance
AW-19	UA	A6DR	Lithium, total	mg/L	02/11/2021 - 11/01/2023	12	67	CI around median	0.02	0.0541	Background	No Exceedance
AW-19	UA	A6	Mercury, total	mg/L	02/11/2021 - 02/27/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-19	UA	A6R	Mercury, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-19	UA	A6D	Mercury, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-19	UA	A6DR	Mercury, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-19	UA	A6	Molybdenum, total	mg/L	02/11/2021 - 02/27/2023	9	0	CI around geomean	0.00318	0.1	MCL/HBL	No Exceedance
AW-19	UA	A6R	Molybdenum, total	mg/L	02/11/2021 - 06/14/2023	10	0	CI around geomean	0.00327	0.1	MCL/HBL	No Exceedance
AW-19	UA	A6D	Molybdenum, total	mg/L	02/11/2021 - 08/22/2023	11	0	CI around median	0.0034	0.1	MCL/HBL	No Exceedance
AW-19	UA	A6DR	Molybdenum, total	mg/L	02/11/2021 - 11/01/2023	12	0	CI around median	0.0034	0.1	MCL/HBL	No Exceedance
AW-19	UA	A6	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 02/27/2023	9	0	CI around mean	0.237	5	MCL/HBL	No Exceedance
AW-19	UA	A6R	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 06/14/2023	10	0	CI around mean	0.267	5	MCL/HBL	No Exceedance
AW-19	UA	A6D	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 08/22/2023	11	0	CI around mean	0.360	5	MCL/HBL	No Exceedance
AW-19	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 11/01/2023	12	0	CI around mean	0.421	5	MCL/HBL	No Exceedance
AW-19	UA	A6	Selenium, total	mg/L	02/11/2021 - 02/27/2023	9	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-19	UA	A6R	Selenium, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-19	UA	A6D	Selenium, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-19	UA	A6DR	Selenium, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.001	0.05	MCL/HBL	No Exceedance
AW-19	UA	A6	Thallium, total	mg/L	02/11/2021 - 02/27/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance

**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-19	UA	A6R	Thallium, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-19	UA	A6D	Thallium, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-19	UA	A6DR	Thallium, total	mg/L	02/11/2021 - 11/01/2023	12	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-21	UA	A6	Antimony, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-21	UA	A6R	Antimony, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-21	UA	A6D	Antimony, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-21	UA	A6DR	Antimony, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.003	0.006	MCL/HBL	No Exceedance
AW-21	UA	A6	Arsenic, total	mg/L	02/11/2021 - 02/28/2023	9	11	CB around linear reg	0.00141	0.0187	Background	No Exceedance
AW-21	UA	A6R	Arsenic, total	mg/L	02/11/2021 - 06/14/2023	10	10	CB around linear reg	0.00113	0.0187	Background	No Exceedance
AW-21	UA	A6D	Arsenic, total	mg/L	02/11/2021 - 08/22/2023	11	18	CI around mean	0.00102	0.0187	Background	No Exceedance
AW-21	UA	A6DR	Arsenic, total	mg/L	02/11/2021 - 11/02/2023	12	25	CI around mean	0.00101	0.0187	Background	No Exceedance
AW-21	UA	A6	Barium, total	mg/L	02/11/2021 - 02/28/2023	9	0	CI around mean	0.0625	2.0	MCL/HBL	No Exceedance
AW-21	UA	A6R	Barium, total	mg/L	02/11/2021 - 06/14/2023	10	0	CI around mean	0.0617	2.0	MCL/HBL	No Exceedance
AW-21	UA	A6D	Barium, total	mg/L	02/11/2021 - 08/22/2023	11	0	CI around mean	0.0609	2.0	MCL/HBL	No Exceedance
AW-21	UA	A6DR	Barium, total	mg/L	02/11/2021 - 11/02/2023	12	0	CB around linear reg	0.0413	2.0	MCL/HBL	No Exceedance
AW-21	UA	A6	Beryllium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-21	UA	A6R	Beryllium, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-21	UA	A6D	Beryllium, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-21	UA	A6DR	Beryllium, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.001	0.0140	Background	No Exceedance
AW-21	UA	A6	Cadmium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-21	UA	A6R	Cadmium, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-21	UA	A6D	Cadmium, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-21	UA	A6DR	Cadmium, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.001	0.005	MCL/HBL	No Exceedance
AW-21	UA	A6	Chromium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
AW-21	UA	A6R	Chromium, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
AW-21	UA	A6D	Chromium, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance
AW-21	UA	A6DR	Chromium, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.004	0.1	MCL/HBL	No Exceedance



**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-21	UA	A6	Cobalt, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
AW-21	UA	A6R	Cobalt, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
AW-21	UA	A6D	Cobalt, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
AW-21	UA	A6DR	Cobalt, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.002	0.006	MCL/HBL	No Exceedance
AW-21	UA	A6	Fluoride, total	mg/L	02/11/2021 - 02/28/2023	9	0	CI around mean	0.327	4.0	MCL/HBL	No Exceedance
AW-21	UA	A6R	Fluoride, total	mg/L	02/11/2021 - 06/14/2023	10	0	CB around linear reg	0.0598	4.0	MCL/HBL	No Exceedance
AW-21	UA	A6D	Fluoride, total	mg/L	02/11/2021 - 08/22/2023	11	0	CB around linear reg	0.107	4.0	MCL/HBL	No Exceedance
AW-21	UA	A6DR	Fluoride, total	mg/L	02/11/2021 - 11/02/2023	12	0	CB around linear reg	0.155	4.0	MCL/HBL	No Exceedance
AW-21	UA	A6	Lead, total	mg/L	02/11/2021 - 02/28/2023	9	89	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-21	UA	A6R	Lead, total	mg/L	02/11/2021 - 06/14/2023	10	90	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-21	UA	A6D	Lead, total	mg/L	02/11/2021 - 08/22/2023	11	91	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-21	UA	A6DR	Lead, total	mg/L	02/11/2021 - 11/02/2023	12	92	CI around median	0.001	0.015	MCL/HBL	No Exceedance
AW-21	UA	A6	Lithium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.02	0.0541	Background	No Exceedance
AW-21	UA	A6R	Lithium, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.02	0.0541	Background	No Exceedance
AW-21	UA	A6D	Lithium, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.02	0.0541	Background	No Exceedance
AW-21	UA	A6DR	Lithium, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.02	0.0541	Background	No Exceedance
AW-21	UA	A6	Mercury, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-21	UA	A6R	Mercury, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-21	UA	A6D	Mercury, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-21	UA	A6DR	Mercury, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.0002	0.002	MCL/HBL	No Exceedance
AW-21	UA	A6	Molybdenum, total	mg/L	02/11/2021 - 02/28/2023	9	0	CI around mean	0.0155	0.1	MCL/HBL	No Exceedance
AW-21	UA	A6R	Molybdenum, total	mg/L	02/11/2021 - 06/14/2023	10	0	CI around mean	0.0157	0.1	MCL/HBL	No Exceedance
AW-21	UA	A6D	Molybdenum, total	mg/L	02/11/2021 - 08/22/2023	11	0	CI around mean	0.0162	0.1	MCL/HBL	No Exceedance
AW-21	UA	A6DR	Molybdenum, total	mg/L	02/11/2021 - 11/02/2023	12	0	CI around mean	0.0169	0.1	MCL/HBL	No Exceedance
AW-21	UA	A6	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 02/28/2023	9	0	CI around mean	0.355	5	MCL/HBL	No Exceedance
AW-21	UA	A6R	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 06/14/2023	10	0	CI around mean	0.345	5	MCL/HBL	No Exceedance
AW-21	UA	A6D	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 08/22/2023	11	0	CI around mean	0.391	5	MCL/HBL	No Exceedance



**TABLE 6**  
**DETERMINATION OF STATISTICALLY SIGNIFICANT LEVELS**  
 2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT  
 ASH POND  
 BARTONVILLE, IL

Well ID	HSU	Event ID	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	SSL Type
AW-21	UA	A6DR	Radium 226 + Radium 228, total	pCi/L	02/11/2021 - 11/02/2023	12	0	CI around mean	0.428	5	MCL/HBL	No Exceedance
AW-21	UA	A6	Selenium, total	mg/L	02/11/2021 - 02/28/2023	9	89	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-21	UA	A6R	Selenium, total	mg/L	02/11/2021 - 06/14/2023	10	90	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-21	UA	A6D	Selenium, total	mg/L	02/11/2021 - 08/22/2023	11	82	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-21	UA	A6DR	Selenium, total	mg/L	02/11/2021 - 11/02/2023	12	75	CI around median	0.001	0.05	MCL/HBL	No Exceedance
AW-21	UA	A6	Thallium, total	mg/L	02/11/2021 - 02/28/2023	9	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-21	UA	A6R	Thallium, total	mg/L	02/11/2021 - 06/14/2023	10	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-21	UA	A6D	Thallium, total	mg/L	02/11/2021 - 08/22/2023	11	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance
AW-21	UA	A6DR	Thallium, total	mg/L	02/11/2021 - 11/02/2023	12	100	All ND - Last	0.001	0.002	MCL/HBL	No Exceedance

**Notes:**

Statistically Significant Level (SSL) Type:

No Exceedance: No exceedance of the GWPS and no resample was collected.

GWPS = Groundwater Protection Standard

GWPS Source:

Background = background concentration

MCL/HBL = maximum contaminant level/health-based level

HSU = hydrostratigraphic unit:

PMP = Potential Migration Pathway

UA = Uppermost Aquifer

ID = identification

mg/L = milligrams per liter

ND = non-detect

pCi/L = picocuries per liter

R = resample

Sample Count = number of samples from Sampled Date Range used to calculate the Statistical Result

Statistical Calculation = method used to calculate the statistical result:

All ND - Last = All results were below the reporting limit, and the last determined reporting limit is shown

CB around T-S line = Confidence band around Thiel-Sen line

CB around linear reg = Confidence band around linear regression

CI around geomean = Confidence interval around the geometric mean

CI around mean = Confidence interval around the mean

CI around median = Confidence interval around the median

Most recent sample = Result for the most recently collected sample used due to insufficient data

Statistical Result = calculated in accordance with Statistical Analysis Plan using constituent concentrations observed at monitoring well during all sampling events within the specified date range

Generated 2024-01-14 02:26:08.062959 by banoffra

## FIGURES





Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

0      200      400  
 Feet

### MONITORING WELL LOCATION MAP

FIGURE 1

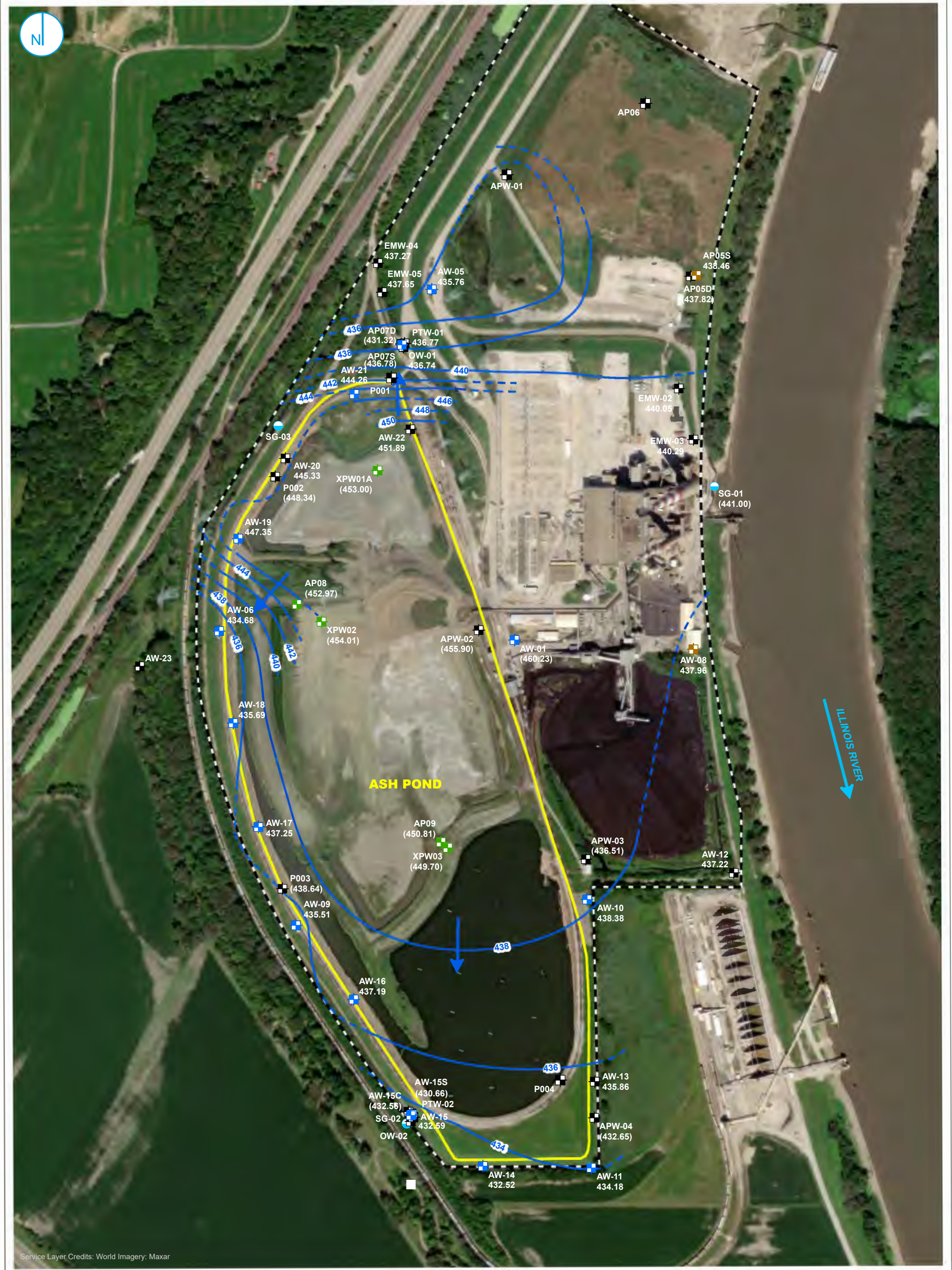
### 2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT ASH POND

EDWARDS POWER PLANT  
 BARTONVILLE, ILLINOIS

RAMBOLL AMERICAS  
 ENGINEERING SOLUTIONS, INC.







Service Layer Credits: World Imagery: Maxar

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER

- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR
- ➔ GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

**NOTES**

1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.  
 2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)



**POTENTIOMETRIC SURFACE MAP  
 FEBRUARY 27, 2023**

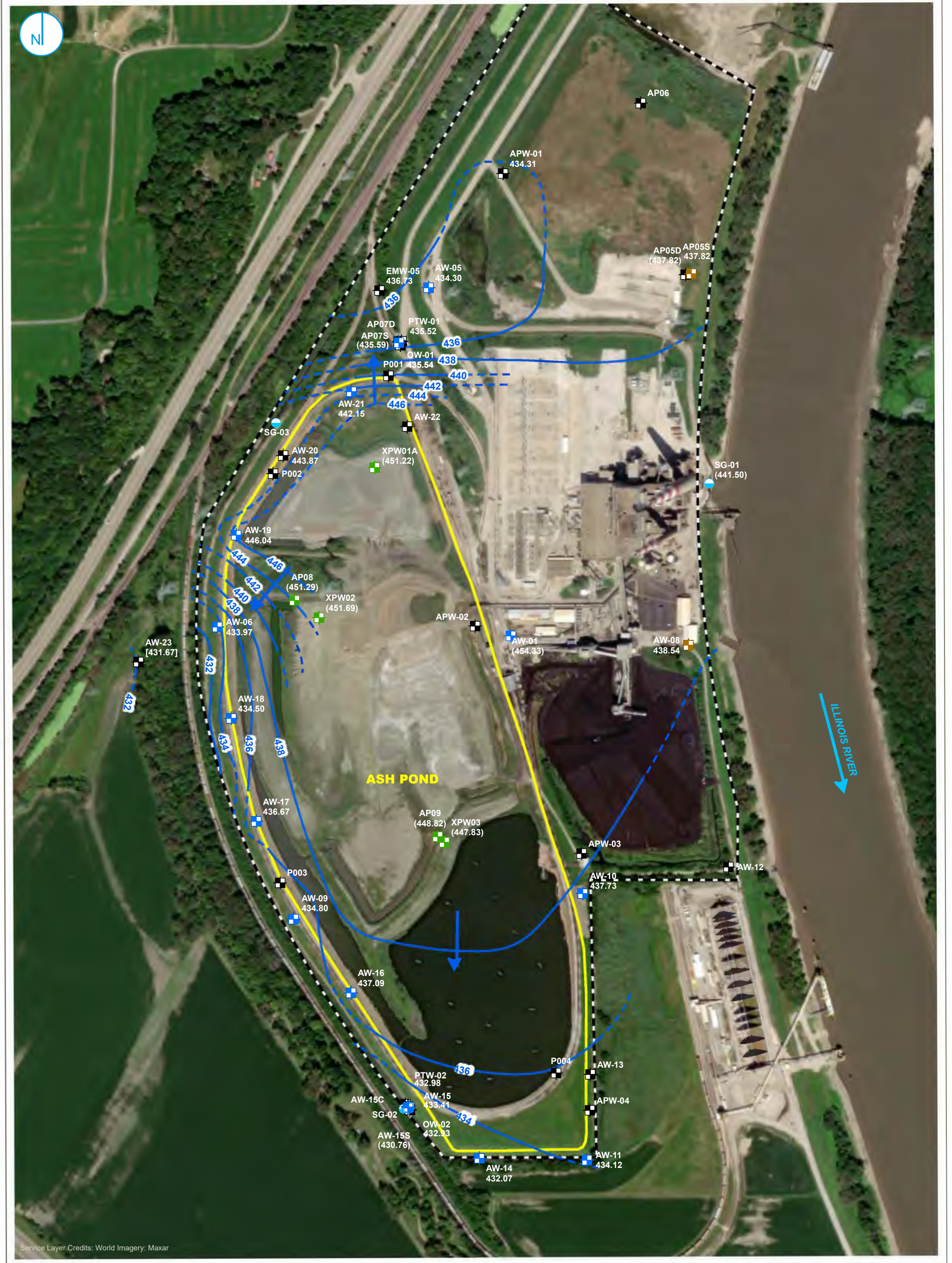
**2023 ANNUAL GROUNDWATER MONITORING  
 AND CORRECTIVE ACTION REPORT  
 ASH POND  
 EDWARDS POWER PLANT  
 BARTONVILLE, ILLINOIS**

**FIGURE 2**

RAMBOLL AMERICAS  
 ENGINEERING SOLUTIONS, INC.







Service Layer Credits: World Imagery: Maxar

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER

- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

**NOTES**

1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. ELEVATIONS IN BRACKETS WERE OBTAINED OUTSIDE OF THE 24-HOUR PERIOD FROM INITIATION OF DEPTH TO GROUNDWATER MEASUREMENTS BUT WITHIN THE SAME SAMPLING EVENT.

**POTENTIOMETRIC SURFACE MAP  
JUNE 12, 2023**

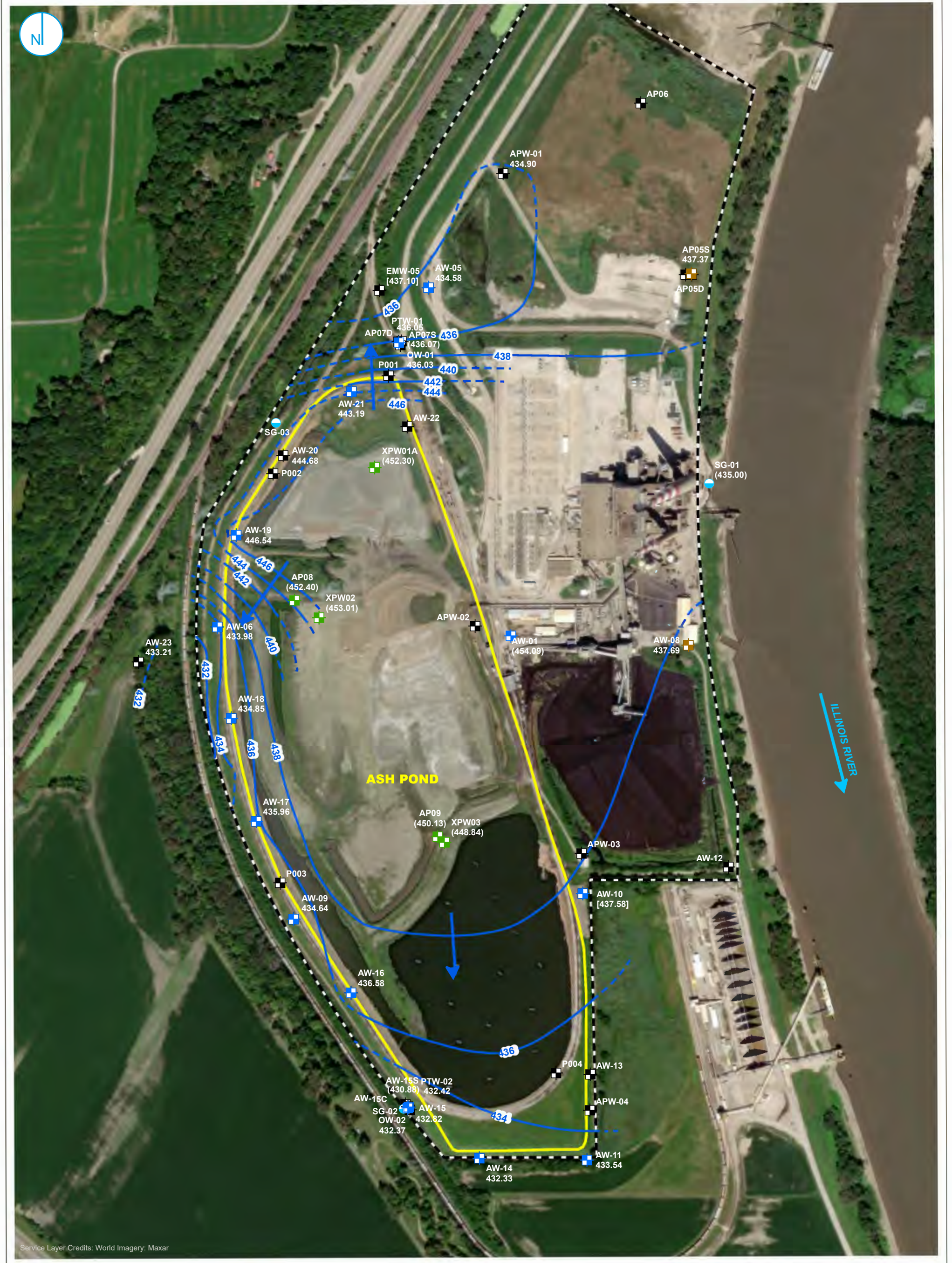
**2023 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT**  
**ASH POND**  
EDWARDS POWER PLANT  
BARTONVILLE, ILLINOIS

**FIGURE 3**

RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.







Service Layer Credits: World Imagery: Maxar

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- MONITORING WELL

- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR
- ➔ GROUNDWATER FLOW DIRECTION

**NOTES**

1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
3. ELEVATIONS IN BRACKETS WERE OBTAINED OUTSIDE OF THE 24-HOUR PERIOD FROM INITIATION OF DEPTH TO GROUNDWATER MEASUREMENTS BUT WITHIN THE SAME SAMPLING EVENT.



**POTENTIOMETRIC SURFACE MAP  
AUGUST 21, 2023**

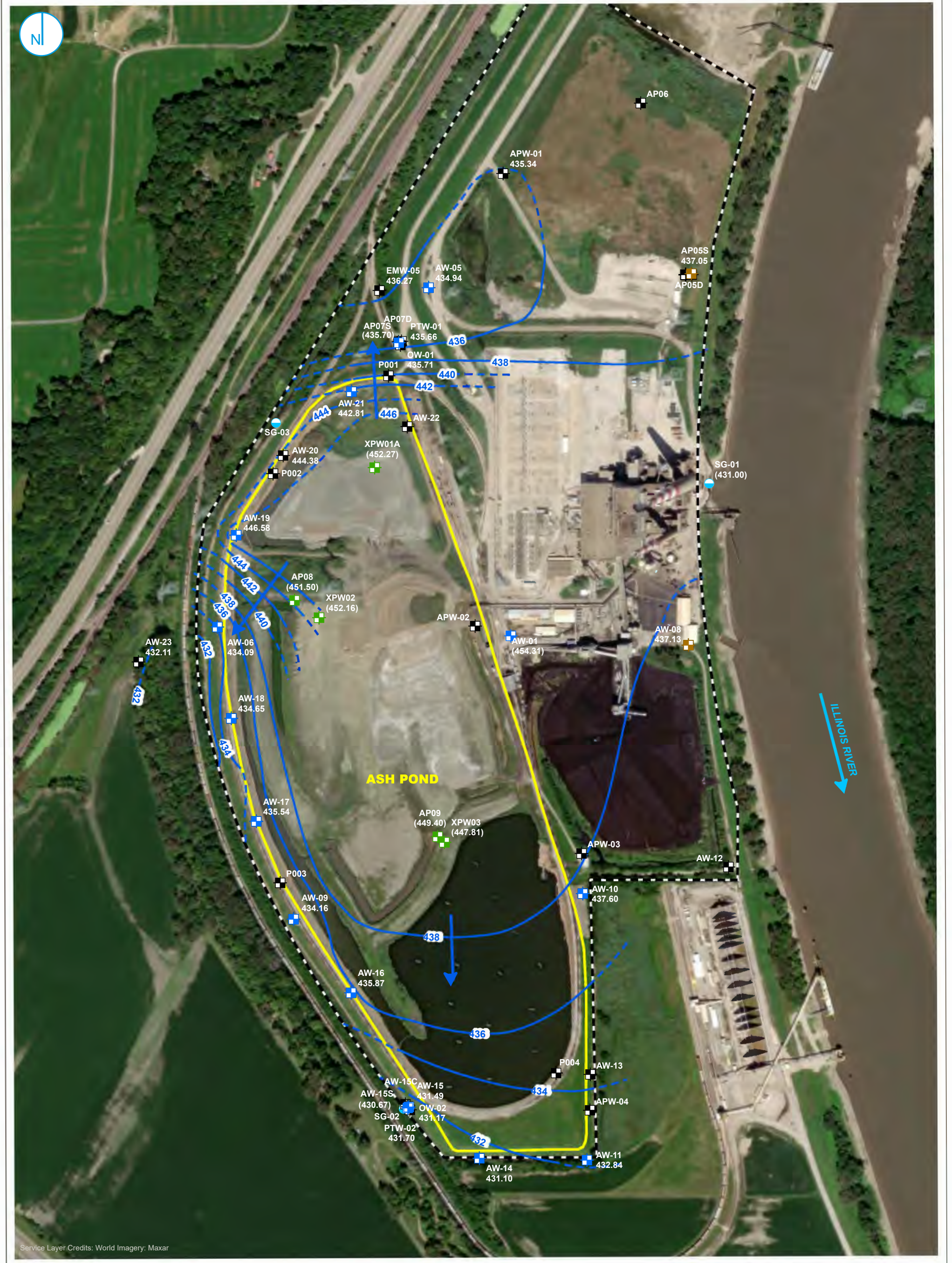
**2023 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT**  
**ASH POND**  
EDWARDS POWER PLANT  
BARTONVILLE, ILLINOIS

**FIGURE 4**

RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.







Service Layer Credits: World Imagery: Maxar

- COMPLIANCE MONITORING WELL
- BACKGROUND MONITORING WELL
- PORE WATER WELL
- STAFF GAGE, RIVER
- MONITORING WELL

- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- - - INFERRED GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION
- REGULATED UNIT (SUBJECT UNIT)
- PROPERTY BOUNDARY

### POTENTIOMETRIC SURFACE MAP OCTOBER 27, 2023

2023 ANNUAL GROUNDWATER MONITORING  
AND CORRECTIVE ACTION REPORT  
**ASH POND**  
EDWARDS POWER PLANT  
BARTONVILLE, ILLINOIS

FIGURE 5

RAMBOLL AMERICAS  
ENGINEERING SOLUTIONS, INC.



**NOTES**

1. ELEVATIONS IN PARENTHESES WERE NOT USED FOR CONTOURING.
2. ELEVATION CONTOURS SHOWN IN FEET, NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)





**APPENDIX A**  
**LABORATORY REPORTS AND FIELD DATA SHEETS**



**Pace Analytical Services, LLC**  
2231 W. Altorfer Drive  
Peoria, IL 61615  
(800)752-6651

March 27, 2023

Brian Voelker  
Vistra - Edwards  
604 Pierce Boulevard  
O'Fallon, IL 62269

Dear Brian Voelker:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or [lisa.grant@pacelabs.com](mailto:lisa.grant@pacelabs.com).

Sincerely,

A handwritten signature in cursive script that reads "Gail Schindler".

Gail Schindler  
Project Manager  
(309) 692-9688 x1716  
[gail.schindler@pacelabs.com](mailto:gail.schindler@pacelabs.com)



**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

---

Work Order    GB04667

---

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



---

Work Order GC00016

---

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



### ANALYTICAL RESULTS

**Sample:** GB04667-01  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 02/27/23 15:28  
**Received:** 02/28/23 07:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	32	mg/L		03/06/23 15:05	10	10	03/06/23 15:05	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		03/03/23 11:55	1	1.0	03/03/23 11:55	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	9	Feet		02/27/23 15:28	1		02/27/23 15:28	FIELD	Field*
Dissolved oxygen, Field	1.0	mg/L		02/27/23 15:28	1		02/27/23 15:28	FIELD	Field*
Oxidation Reduction Potential	-102	mV		02/27/23 15:28	1	-500	02/27/23 15:28	FIELD	Field*
pH, Field Measured	6.75	pH Units		02/27/23 15:28	1		02/27/23 15:28	FIELD	Field*
Specific Conductance, Field Measured	1840	umhos/cm		02/27/23 15:28	1		02/27/23 15:28	FIELD	Field*
Temperature, Field Measured	12.8	°C		02/27/23 15:28	1		02/27/23 15:28	FIELD	Field*
Turbidity, Field Measured	107	NTU		02/27/23 15:28	1	0.00	02/27/23 15:28	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	890	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		03/08/23 12:56	1	0.250	03/08/23 12:56	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1100	mg/L		03/01/23 16:04	1	26	03/01/23 17:00	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 09:11	JMW	EPA 6020A
Arsenic	3.5	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:11	JMW	EPA 6020A
Barium	1800	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:11	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:11	JMW	EPA 6020A
Boron	370	ug/L		03/06/23 09:21	5	10	03/07/23 09:11	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:11	JMW	EPA 6020A
Calcium	140	mg/L		03/06/23 09:21	5	0.20	03/07/23 09:11	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/06/23 09:21	5	4.0	03/07/23 09:11	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/06/23 09:21	5	2.0	03/07/23 09:11	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:20	JMW	EPA 6020A
Magnesium	57	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:11	JMW	EPA 6020A
Mercury	0.21	ug/L		03/06/23 09:21	5	0.20	03/07/23 17:20	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:11	JMW	EPA 6020A
Potassium	3.9	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:11	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:20	JMW	EPA 6020A
Sodium	210	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:11	JMW	EPA 6020A





### ANALYTICAL RESULTS

**Sample:** GB04667-01  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 02/27/23 15:28  
**Received:** 02/28/23 07:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:11	JMW	EPA 6020A
Lithium	27	ug/L		03/06/23 09:21	1	20	03/07/23 10:10	TJJ	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GB04667-02  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 02/27/23 16:30  
**Received:** 02/28/23 07:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	28	mg/L		03/03/23 13:25	10	10	03/03/23 13:25	CRD	EPA 300.0 REV 2.1
Fluoride	0.252	mg/L		03/03/23 13:07	1	0.250	03/03/23 13:07	CRD	EPA 300.0 REV 2.1
Sulfate	510	mg/L		03/03/23 13:43	100	100	03/03/23 13:43	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	10.04	Feet		02/27/23 16:30	1		02/27/23 16:30	FIELD	Field*
Dissolved oxygen, Field	0.64	mg/L		02/27/23 16:30	1		02/27/23 16:30	FIELD	Field*
Oxidation Reduction Potential	117	mV		02/27/23 16:30	1	-500	02/27/23 16:30	FIELD	Field*
pH, Field Measured	6.81	pH Units		02/27/23 16:30	1		02/27/23 16:30	FIELD	Field*
Specific Conductance, Field Measured	1670	umhos/cm		02/27/23 16:30	1		02/27/23 16:30	FIELD	Field*
Temperature, Field Measured	11.8	°C		02/27/23 16:30	1		02/27/23 16:30	FIELD	Field*
Turbidity, Field Measured	78.0	NTU		02/27/23 16:30	1	0.00	02/27/23 16:30	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	400	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1300	mg/L		03/01/23 16:04	1	26	03/01/23 17:00	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 09:15	JMW	EPA 6020A
Arsenic	1.8	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:15	JMW	EPA 6020A
Barium	81	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:15	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:15	JMW	EPA 6020A
Boron	5900	ug/L		03/06/23 09:21	5	10	03/07/23 09:15	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:15	JMW	EPA 6020A
Calcium	260	mg/L		03/06/23 09:21	5	0.20	03/07/23 09:15	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/06/23 09:21	5	4.0	03/07/23 09:15	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/06/23 09:21	5	2.0	03/07/23 09:15	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:23	JMW	EPA 6020A
Magnesium	82	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:15	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 17:23	JMW	EPA 6020A
Molybdenum	3.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:15	JMW	EPA 6020A
Potassium	0.69	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:15	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:23	JMW	EPA 6020A
Sodium	52	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:15	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GB04667-02  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 02/27/23 16:30  
**Received:** 02/28/23 07:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:15	JMW	EPA 6020A
Lithium	< 20	ug/L		03/06/23 09:21	1	20	03/07/23 10:14	TJJ	EPA 6010B



### ANALYTICAL RESULTS

Sample: GB04667-03  
Name: AW-18  
Matrix: Ground Water - Grab

Sampled: 02/27/23 16:50  
Received: 02/28/23 07:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	81	mg/L		03/03/23 14:19	10	10	03/03/23 14:19	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/03/23 14:01	1	0.250	03/03/23 14:01	CRD	EPA 300.0 REV 2.1
Sulfate	10	mg/L		03/03/23 14:19	10	10	03/03/23 14:19	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	27	Feet		02/27/23 16:50	1		02/27/23 16:50	FIELD	Field*
Dissolved oxygen, Field	0.77	mg/L		02/27/23 16:50	1		02/27/23 16:50	FIELD	Field*
Oxidation Reduction Potential	-94.0	mV		02/27/23 16:50	1	-500	02/27/23 16:50	FIELD	Field*
pH, Field Measured	6.93	pH Units		02/27/23 16:50	1		02/27/23 16:50	FIELD	Field*
Specific Conductance, Field Measured	1660	umhos/cm		02/27/23 16:50	1		02/27/23 16:50	FIELD	Field*
Temperature, Field Measured	12.2	°C		02/27/23 16:50	1		02/27/23 16:50	FIELD	Field*
Turbidity, Field Measured	499	NTU		02/27/23 16:50	1	0.00	02/27/23 16:50	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	640	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	830	mg/L		03/01/23 16:04	1	26	03/01/23 17:00	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 09:19	JMW	EPA 6020A
Arsenic	8.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:19	JMW	EPA 6020A
Barium	1800	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:19	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:19	JMW	EPA 6020A
Boron	380	ug/L		03/06/23 09:21	5	10	03/07/23 09:19	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:19	JMW	EPA 6020A
Calcium	140	mg/L		03/06/23 09:21	5	0.20	03/07/23 09:19	JMW	EPA 6020A
Chromium	62	ug/L		03/06/23 09:21	5	4.0	03/07/23 09:19	JMW	EPA 6020A
Cobalt	6.2	ug/L		03/06/23 09:21	5	2.0	03/07/23 09:19	JMW	EPA 6020A
Lead	8.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:26	JMW	EPA 6020A
Magnesium	59	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:19	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 17:26	JMW	EPA 6020A
Molybdenum	5.1	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:19	JMW	EPA 6020A
Potassium	5.0	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:19	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:26	JMW	EPA 6020A
Sodium	210	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:19	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GB04667-03  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 02/27/23 16:50  
**Received:** 02/28/23 07:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:19	JMW	EPA 6020A
Lithium	35	ug/L		03/06/23 09:21	1	20	03/07/23 10:15	TJJ	EPA 6010B



**ANALYTICAL RESULTS**

**Sample:** GB04667-04  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 02/27/23 15:29  
**Received:** 02/28/23 07:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	69	mg/L		03/03/23 15:31	10	10	03/03/23 15:31	CRD	EPA 300.0 REV 2.1
Fluoride	0.336	mg/L		03/03/23 14:37	1	0.250	03/03/23 14:37	CRD	EPA 300.0 REV 2.1
Sulfate	46	mg/L		03/03/23 15:31	10	10	03/03/23 15:31	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	13.37	Feet		02/27/23 15:29	1		02/27/23 15:29	FIELD	Field*
Dissolved oxygen, Field	1.9	mg/L		02/27/23 15:29	1		02/27/23 15:29	FIELD	Field*
Oxidation Reduction Potential	20.0	mV		02/27/23 15:29	1	-500	02/27/23 15:29	FIELD	Field*
pH, Field Measured	7.00	pH Units		02/27/23 15:29	1		02/27/23 15:29	FIELD	Field*
Specific Conductance, Field Measured	1080	umhos/cm		02/27/23 15:29	1		02/27/23 15:29	FIELD	Field*
Temperature, Field Measured	12.9	°C		02/27/23 15:29	1		02/27/23 15:29	FIELD	Field*
Turbidity, Field Measured	185	NTU		02/27/23 15:29	1	0.00	02/27/23 15:29	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	380	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	600	mg/L		03/01/23 16:04	1	26	03/01/23 17:00	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 09:23	JMW	EPA 6020A
Arsenic	22	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:23	JMW	EPA 6020A
Barium	370	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:23	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:23	JMW	EPA 6020A
Boron	2900	ug/L		03/06/23 09:21	5	10	03/07/23 09:23	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:23	JMW	EPA 6020A
Calcium	130	mg/L		03/06/23 09:21	5	0.20	03/07/23 09:23	JMW	EPA 6020A
Chromium	31	ug/L		03/06/23 09:21	5	4.0	03/07/23 09:23	JMW	EPA 6020A
Cobalt	4.8	ug/L		03/06/23 09:21	5	2.0	03/07/23 09:23	JMW	EPA 6020A
Lead	5.4	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:29	JMW	EPA 6020A
Magnesium	58	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:23	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 17:29	JMW	EPA 6020A
Molybdenum	5.5	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:23	JMW	EPA 6020A
Potassium	1.5	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:23	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:29	JMW	EPA 6020A
Sodium	56	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:23	JMW	EPA 6020A





### ANALYTICAL RESULTS

**Sample:** GB04667-04  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 02/27/23 15:29  
**Received:** 02/28/23 07:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:23	JMW	EPA 6020A
Lithium	< 20	ug/L		03/06/23 09:21	1	20	03/07/23 10:16	TJJ	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GC00016-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 14:40  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	33	mg/L		03/06/23 17:41	10	10	03/06/23 17:41	CRD	EPA 300.0 REV 2.1
Sulfate	14	mg/L		03/06/23 17:41	10	10	03/06/23 17:41	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	5.43	Feet		02/28/23 14:40	1		02/28/23 14:40	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		02/28/23 14:40	1		02/28/23 14:40	FIELD	Field*
Oxidation Reduction Potential	-87.0	mV		02/28/23 14:40	1	-500	02/28/23 14:40	FIELD	Field*
pH, Field Measured	7.01	pH Units		02/28/23 14:40	1		02/28/23 14:40	FIELD	Field*
Specific Conductance, Field Measured	1390	umhos/cm		02/28/23 14:40	1		02/28/23 14:40	FIELD	Field*
Temperature, Field Measured	14.0	°C		02/28/23 14:40	1		02/28/23 14:40	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		02/28/23 14:40	1	0.00	02/28/23 14:40	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	660	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		03/08/23 12:57	1	0.250	03/08/23 12:57	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	820	mg/L		03/01/23 16:04	1	26	03/01/23 17:00	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 09:26	JMW	EPA 6020A
Arsenic	7.3	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:26	JMW	EPA 6020A
Barium	940	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:26	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:26	JMW	EPA 6020A
Boron	340	ug/L		03/06/23 09:21	5	10	03/07/23 09:26	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:26	JMW	EPA 6020A
Calcium	120	mg/L		03/06/23 09:21	5	0.20	03/07/23 09:26	JMW	EPA 6020A
Chromium	25	ug/L		03/06/23 09:21	5	4.0	03/07/23 09:26	JMW	EPA 6020A
Cobalt	12	ug/L		03/06/23 09:21	5	2.0	03/07/23 09:26	JMW	EPA 6020A
Lead	14	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:32	JMW	EPA 6020A
Magnesium	54	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:26	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 17:32	JMW	EPA 6020A
Molybdenum	2.1	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:26	JMW	EPA 6020A
Potassium	4.6	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:26	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:32	JMW	EPA 6020A
Sodium	180	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:26	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GC00016-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 14:40  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:26	JMW	EPA 6020A
Lithium	39	ug/L		03/06/23 09:21	1	20	03/07/23 10:17	TJJ	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GC00016-02  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 13:28  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	73	mg/L		03/06/23 18:18	50	50	03/06/23 18:18	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/06/23 18:00	1	0.250	03/06/23 18:00	CRD	EPA 300.0 REV 2.1
Sulfate	180	mg/L		03/06/23 18:18	50	50	03/06/23 18:18	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	24.55	Feet		02/28/23 13:28	1		02/28/23 13:28	FIELD	Field*
Dissolved oxygen, Field	6.8	mg/L		02/28/23 13:28	1		02/28/23 13:28	FIELD	Field*
Oxidation Reduction Potential	100	mV		02/28/23 13:28	1	-500	02/28/23 13:28	FIELD	Field*
pH, Field Measured	7.13	pH Units		02/28/23 13:28	1		02/28/23 13:28	FIELD	Field*
Specific Conductance, Field Measured	3820	umhos/cm		02/28/23 13:28	1		02/28/23 13:28	FIELD	Field*
Temperature, Field Measured	13.5	°C		02/28/23 13:28	1		02/28/23 13:28	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		02/28/23 13:28	1	0.00	02/28/23 13:28	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	280	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	720	mg/L		03/01/23 16:04	1	26	03/01/23 17:00	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 09:30	JMW	EPA 6020A
Arsenic	2.1	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:30	JMW	EPA 6020A
Barium	87	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:30	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:30	JMW	EPA 6020A
Boron	7900	ug/L		03/06/23 09:21	5	10	03/07/23 09:30	JMW	EPA 6020A
Cadmium	3.5	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:30	JMW	EPA 6020A
Calcium	130	mg/L		03/06/23 09:21	5	0.20	03/07/23 09:30	JMW	EPA 6020A
Chromium	25	ug/L		03/06/23 09:21	5	4.0	03/07/23 09:30	JMW	EPA 6020A
Cobalt	4.8	ug/L		03/06/23 09:21	5	2.0	03/07/23 09:30	JMW	EPA 6020A
Lead	3.4	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:35	JMW	EPA 6020A
Magnesium	49	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:30	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 17:35	JMW	EPA 6020A
Molybdenum	3.5	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:30	JMW	EPA 6020A
Potassium	1.4	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:30	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:35	JMW	EPA 6020A
Sodium	63	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:30	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GC00016-02  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 13:28  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:30	JMW	EPA 6020A
Lithium	< 20	ug/L		03/06/23 09:21	1	20	03/07/23 10:22	TJJ	EPA 6010B



### ANALYTICAL RESULTS

Sample: GC00016-03  
Name: AW-01  
Matrix: Ground Water - Grab

Sampled: 02/28/23 15:41  
Received: 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	110	mg/L		03/07/23 17:51	50	50	03/07/23 17:51	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/06/23 18:36	1	0.250	03/06/23 18:36	CRD	EPA 300.0 REV 2.1
Sulfate	280	mg/L		03/07/23 17:51	50	50	03/07/23 17:51	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	5.47	Feet		02/28/23 15:41	1		02/28/23 15:41	FIELD	Field*
Dissolved oxygen, Field	1.1	mg/L		02/28/23 15:41	1		02/28/23 15:41	FIELD	Field*
Oxidation Reduction Potential	-89.0	mV		02/28/23 15:41	1	-500	02/28/23 15:41	FIELD	Field*
pH, Field Measured	6.98	pH Units		02/28/23 15:41	1		02/28/23 15:41	FIELD	Field*
Specific Conductance, Field Measured	1400	umhos/cm		02/28/23 15:41	1		02/28/23 15:41	FIELD	Field*
Temperature, Field Measured	13.3	°C		02/28/23 15:41	1		02/28/23 15:41	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		02/28/23 15:41	1	0.00	02/28/23 15:41	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	290	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1000	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 09:34	JMW	EPA 6020A
Arsenic	20	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:34	JMW	EPA 6020A
Barium	170	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:34	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:34	JMW	EPA 6020A
Boron	1100	ug/L		03/06/23 09:21	5	10	03/07/23 09:34	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:34	JMW	EPA 6020A
Calcium	180	mg/L		03/06/23 09:21	5	0.20	03/07/23 09:34	JMW	EPA 6020A
Chromium	19	ug/L		03/06/23 09:21	5	4.0	03/07/23 09:34	JMW	EPA 6020A
Cobalt	7.0	ug/L		03/06/23 09:21	5	2.0	03/07/23 09:34	JMW	EPA 6020A
Lead	9.2	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:38	JMW	EPA 6020A
Magnesium	82	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:34	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 17:38	JMW	EPA 6020A
Molybdenum	2.2	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:34	JMW	EPA 6020A
Potassium	2.1	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:34	JMW	EPA 6020A
Selenium	1.1	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:38	JMW	EPA 6020A
Sodium	49	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:34	JMW	EPA 6020A





### ANALYTICAL RESULTS

**Sample:** GC00016-03  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 15:41  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:34	JMW	EPA 6020A
Lithium	< 20	ug/L		03/06/23 09:21	1	20	03/07/23 10:23	TJJ	EPA 6010B



### ANALYTICAL RESULTS

Sample: GC00016-04  
Name: AW-05  
Matrix: Ground Water - Grab

Sampled: 02/28/23 11:57  
Received: 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	78	mg/L		03/06/23 20:06	10	10	03/06/23 20:06	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/06/23 19:48	1	0.250	03/06/23 19:48	CRD	EPA 300.0 REV 2.1
Sulfate	320	mg/L		03/06/23 20:24	100	100	03/06/23 20:24	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	7.83	Feet		02/28/23 11:57	1		02/28/23 11:57	FIELD	Field*
Dissolved oxygen, Field	3.9	mg/L		02/28/23 11:57	1		02/28/23 11:57	FIELD	Field*
Oxidation Reduction Potential	162	mV		02/28/23 11:57	1	-500	02/28/23 11:57	FIELD	Field*
pH, Field Measured	7.24	pH Units		02/28/23 11:57	1		02/28/23 11:57	FIELD	Field*
Specific Conductance, Field Measured	1440	umhos/cm		02/28/23 11:57	1		02/28/23 11:57	FIELD	Field*
Temperature, Field Measured	12.7	°C		02/28/23 11:57	1		02/28/23 11:57	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		02/28/23 11:57	1	0.00	02/28/23 11:57	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	340	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 09:38	JMW	EPA 6020A
Arsenic	6.8	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:38	JMW	EPA 6020A
Barium	210	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:38	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:38	JMW	EPA 6020A
Boron	4500	ug/L		03/06/23 09:21	5	10	03/07/23 09:38	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:38	JMW	EPA 6020A
Calcium	170	mg/L		03/06/23 09:21	5	0.20	03/07/23 09:38	JMW	EPA 6020A
Chromium	20	ug/L		03/06/23 09:21	5	4.0	03/07/23 09:38	JMW	EPA 6020A
Cobalt	11	ug/L		03/06/23 09:21	5	2.0	03/07/23 09:38	JMW	EPA 6020A
Lead	9.1	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:41	JMW	EPA 6020A
Magnesium	82	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:38	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 17:41	JMW	EPA 6020A
Molybdenum	2.6	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:38	JMW	EPA 6020A
Potassium	3.2	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:38	JMW	EPA 6020A
Selenium	1.2	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:41	JMW	EPA 6020A
Sodium	76	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:38	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GC00016-04  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 11:57  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:38	JMW	EPA 6020A
Lithium	25	ug/L		03/06/23 09:21	1	20	03/07/23 10:24	TJJ	EPA 6010B



**ANALYTICAL RESULTS**

**Sample:** GC00016-05  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 10:03  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	31	mg/L		03/06/23 21:00	10	10	03/06/23 21:00	CRD	EPA 300.0 REV 2.1
Fluoride	0.327	mg/L		03/06/23 20:42	1	0.250	03/06/23 20:42	CRD	EPA 300.0 REV 2.1
Sulfate	22	mg/L		03/06/23 21:00	10	10	03/06/23 21:00	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	26.79	Feet		02/28/23 10:03	1		02/28/23 10:03	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		02/28/23 10:03	1		02/28/23 10:03	FIELD	Field*
Oxidation Reduction Potential	-65.0	mV		02/28/23 10:03	1	-500	02/28/23 10:03	FIELD	Field*
pH, Field Measured	7.39	pH Units		02/28/23 10:03	1		02/28/23 10:03	FIELD	Field*
Specific Conductance, Field Measured	971.0	umhos/cm		02/28/23 10:03	1		02/28/23 10:03	FIELD	Field*
Temperature, Field Measured	11.2	°C		02/28/23 10:03	1		02/28/23 10:03	FIELD	Field*
Turbidity, Field Measured	1000	NTU		02/28/23 10:03	1	0.00	02/28/23 10:03	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	400	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	610	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 09:42	JMW	EPA 6020A
Arsenic	6.4	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:42	JMW	EPA 6020A
Barium	190	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:42	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:42	JMW	EPA 6020A
Boron	180	ug/L		03/06/23 09:21	5	10	03/07/23 09:42	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:42	JMW	EPA 6020A
Calcium	110	mg/L		03/06/23 09:21	5	0.20	03/07/23 09:42	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/06/23 09:21	5	4.0	03/07/23 09:42	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/06/23 09:21	5	2.0	03/07/23 09:42	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:44	JMW	EPA 6020A
Magnesium	45	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:42	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 17:44	JMW	EPA 6020A
Molybdenum	5.3	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:42	JMW	EPA 6020A
Potassium	0.84	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:42	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:44	JMW	EPA 6020A
Sodium	57	mg/L		03/06/23 09:21	5	0.10	03/07/23 09:42	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GC00016-05  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 10:03  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 09:42	JMW	EPA 6020A
Lithium	< 20	ug/L		03/06/23 09:21	1	20	03/07/23 10:25	TJJ	EPA 6010B



### ANALYTICAL RESULTS

Sample: GC00016-06  
Name: AW-08  
Matrix: Ground Water - Grab

Sampled: 02/28/23 15:57  
Received: 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	14	mg/L		03/06/23 21:37	5	5.0	03/06/23 21:37	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/06/23 21:18	1	0.250	03/06/23 21:18	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		03/06/23 21:18	1	1.0	03/06/23 21:18	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	24.6	Feet		02/28/23 15:57	1		02/28/23 15:57	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		02/28/23 15:57	1		02/28/23 15:57	FIELD	Field*
Oxidation Reduction Potential	-133	mV		02/28/23 15:57	1	-500	02/28/23 15:57	FIELD	Field*
pH, Field Measured	8.92	pH Units		02/28/23 15:57	1		02/28/23 15:57	FIELD	Field*
Specific Conductance, Field Measured	725.0	umhos/cm		02/28/23 15:57	1		02/28/23 15:57	FIELD	Field*
Temperature, Field Measured	13.7	°C		02/28/23 15:57	1		02/28/23 15:57	FIELD	Field*
Turbidity, Field Measured	11.9	NTU		02/28/23 15:57	1	0.00	02/28/23 15:57	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	620	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/03/23 13:45	1	10	03/03/23 13:45	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	740	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 10:14	JMW	EPA 6020A
Arsenic	11	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:14	JMW	EPA 6020A
Barium	200	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:14	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:14	JMW	EPA 6020A
Boron	100	ug/L		03/06/23 09:21	5	10	03/07/23 10:14	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:14	JMW	EPA 6020A
Calcium	140	mg/L		03/06/23 09:21	5	0.20	03/07/23 10:14	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/06/23 09:21	5	4.0	03/07/23 10:14	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/06/23 09:21	5	2.0	03/07/23 10:14	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:47	JMW	EPA 6020A
Magnesium	58	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:14	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 17:47	JMW	EPA 6020A
Molybdenum	1.8	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:14	JMW	EPA 6020A
Potassium	1.4	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:14	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:47	JMW	EPA 6020A
Sodium	63	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:14	JMW	EPA 6020A





### ANALYTICAL RESULTS

**Sample:** GC00016-06  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 15:57  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:47	JMW	EPA 6020A
Lithium	< 20	ug/L		03/06/23 09:21	1	20	03/07/23 10:26	TJJ	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GC00016-07  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 12:05  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	26	mg/L		03/03/23 16:08	10	10	03/03/23 16:08	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/03/23 15:50	1	0.250	03/03/23 15:50	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		03/03/23 15:50	1	1.0	03/03/23 15:50	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	26.01	Feet		02/28/23 12:05	1		02/28/23 12:05	FIELD	Field*
Dissolved oxygen, Field	1.0	mg/L		02/28/23 12:05	1		02/28/23 12:05	FIELD	Field*
Oxidation Reduction Potential	-130	mV		02/28/23 12:05	1	-500	02/28/23 12:05	FIELD	Field*
pH, Field Measured	7.02	pH Units		02/28/23 12:05	1		02/28/23 12:05	FIELD	Field*
Specific Conductance, Field Measured	1330	umhos/cm		02/28/23 12:05	1		02/28/23 12:05	FIELD	Field*
Temperature, Field Measured	12.6	°C		02/28/23 12:05	1		02/28/23 12:05	FIELD	Field*
Turbidity, Field Measured	77.2	NTU		02/28/23 12:05	1	0.00	02/28/23 12:05	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	750	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	830	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 10:18	JMW	EPA 6020A
Arsenic	12	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:18	JMW	EPA 6020A
Barium	200	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:18	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:18	JMW	EPA 6020A
Boron	100	ug/L		03/06/23 09:21	5	10	03/07/23 10:18	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:18	JMW	EPA 6020A
Calcium	140	mg/L		03/06/23 09:21	5	0.20	03/07/23 10:18	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/06/23 09:21	5	4.0	03/07/23 10:18	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/06/23 09:21	5	2.0	03/07/23 10:18	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:59	JMW	EPA 6020A
Magnesium	59	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:18	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 17:59	JMW	EPA 6020A
Molybdenum	1.9	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:18	JMW	EPA 6020A
Potassium	1.4	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:18	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:59	JMW	EPA 6020A
Sodium	64	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:18	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GC00016-07  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 12:05  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 17:59	JMW	EPA 6020A
Lithium	< 20	ug/L		03/06/23 09:21	1	20	03/07/23 10:28	TJJ	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GC00016-08  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 15:45  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	85	mg/L		03/03/23 16:44	25	25	03/03/23 16:44	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/03/23 16:26	1	0.250	03/03/23 16:26	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		03/03/23 16:26	1	1.0	03/03/23 16:26	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	2	Feet		02/28/23 15:45	1		02/28/23 15:45	FIELD	Field*
Dissolved oxygen, Field	0.82	mg/L		02/28/23 15:45	1		02/28/23 15:45	FIELD	Field*
Oxidation Reduction Potential	-89.0	mV		02/28/23 15:45	1	-500	02/28/23 15:45	FIELD	Field*
pH, Field Measured	7.00	pH Units		02/28/23 15:45	1		02/28/23 15:45	FIELD	Field*
Specific Conductance, Field Measured	2030	umhos/cm		02/28/23 15:45	1		02/28/23 15:45	FIELD	Field*
Temperature, Field Measured	12.3	°C		02/28/23 15:45	1		02/28/23 15:45	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		02/28/23 15:45	1	0.00	02/28/23 15:45	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	1100	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1300	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 10:22	JMW	EPA 6020A
Arsenic	16	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:22	JMW	EPA 6020A
Barium	1300	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:22	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:22	JMW	EPA 6020A
Boron	520	ug/L		03/06/23 09:21	5	10	03/07/23 10:22	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:22	JMW	EPA 6020A
Calcium	140	mg/L		03/06/23 09:21	5	0.20	03/07/23 10:22	JMW	EPA 6020A
Chromium	9.5	ug/L		03/06/23 09:21	5	4.0	03/07/23 10:22	JMW	EPA 6020A
Cobalt	6.8	ug/L		03/06/23 09:21	5	2.0	03/07/23 10:22	JMW	EPA 6020A
Lead	6.2	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:02	JMW	EPA 6020A
Magnesium	66	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:22	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 18:02	JMW	EPA 6020A
Molybdenum	1.2	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:22	JMW	EPA 6020A
Potassium	4.2	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:22	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:02	JMW	EPA 6020A
Sodium	290	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:22	JMW	EPA 6020A





### ANALYTICAL RESULTS

**Sample:** GC00016-08  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 15:45  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:02	JMW	EPA 6020A
Lithium	43	ug/L		03/06/23 09:21	1	20	03/07/23 10:29	TJJ	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GC00016-09  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 14:24  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	30	mg/L		03/03/23 17:20	10	10	03/03/23 17:20	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/03/23 17:02	1	0.250	03/03/23 17:02	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		03/03/23 17:02	1	1.0	03/03/23 17:02	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	6.23	Feet		02/28/23 14:24	1		02/28/23 14:24	FIELD	Field*
Dissolved oxygen, Field	0.91	mg/L		02/28/23 14:24	1		02/28/23 14:24	FIELD	Field*
Oxidation Reduction Potential	-103	mV		02/28/23 14:24	1	-500	02/28/23 14:24	FIELD	Field*
pH, Field Measured	7.17	pH Units		02/28/23 14:24	1		02/28/23 14:24	FIELD	Field*
Specific Conductance, Field Measured	1650	umhos/cm		02/28/23 14:24	1		02/28/23 14:24	FIELD	Field*
Temperature, Field Measured	10.8	°C		02/28/23 14:24	1		02/28/23 14:24	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		02/28/23 14:24	1	0.00	02/28/23 14:24	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	990	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1000	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 10:26	JMW	EPA 6020A
Arsenic	13	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:26	JMW	EPA 6020A
Barium	1100	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:26	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:26	JMW	EPA 6020A
Boron	240	ug/L		03/06/23 09:21	5	10	03/07/23 10:26	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:26	JMW	EPA 6020A
Calcium	170	mg/L		03/06/23 09:21	5	0.20	03/07/23 10:26	JMW	EPA 6020A
Chromium	17	ug/L		03/06/23 09:21	5	4.0	03/07/23 10:26	JMW	EPA 6020A
Cobalt	10	ug/L		03/06/23 09:21	5	2.0	03/07/23 10:26	JMW	EPA 6020A
Lead	10	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:04	JMW	EPA 6020A
Magnesium	75	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:26	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 18:04	JMW	EPA 6020A
Molybdenum	3.2	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:26	JMW	EPA 6020A
Potassium	3.9	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:26	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:04	JMW	EPA 6020A
Sodium	150	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:26	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GC00016-09  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 14:24  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:04	JMW	EPA 6020A
Lithium	31	ug/L		03/06/23 09:21	1	20	03/07/23 10:30	TJJ	EPA 6010B



**ANALYTICAL RESULTS**

**Sample:** GC00016-10  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 13:13  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	21	mg/L	Q4	03/03/23 19:08	5	5.0	03/03/23 19:08	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/03/23 17:38	1	0.250	03/03/23 17:38	CRD	EPA 300.0 REV 2.1
Sulfate	5.7	mg/L		03/03/23 17:38	1	1.0	03/03/23 17:38	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	6.93	Feet		02/28/23 13:13	1		02/28/23 13:13	FIELD	Field*
Dissolved oxygen, Field	1.1	mg/L		02/28/23 13:13	1		02/28/23 13:13	FIELD	Field*
Oxidation Reduction Potential	-63.0	mV		02/28/23 13:13	1	-500	02/28/23 13:13	FIELD	Field*
pH, Field Measured	6.98	pH Units		02/28/23 13:13	1		02/28/23 13:13	FIELD	Field*
Specific Conductance, Field Measured	1690	umhos/cm		02/28/23 13:13	1		02/28/23 13:13	FIELD	Field*
Temperature, Field Measured	11.4	°C		02/28/23 13:13	1		02/28/23 13:13	FIELD	Field*
Turbidity, Field Measured	261	NTU		02/28/23 13:13	1	0.00	02/28/23 13:13	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	980	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 10:30	JMW	EPA 6020A
Arsenic	15	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:30	JMW	EPA 6020A
Barium	720	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:30	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:30	JMW	EPA 6020A
Boron	180	ug/L		03/06/23 09:21	5	10	03/07/23 10:30	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:30	JMW	EPA 6020A
Calcium	170	mg/L		03/06/23 09:21	5	0.20	03/07/23 10:30	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/06/23 09:21	5	4.0	03/07/23 10:30	JMW	EPA 6020A
Cobalt	4.8	ug/L		03/06/23 09:21	5	2.0	03/07/23 10:30	JMW	EPA 6020A
Lead	1.7	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:07	JMW	EPA 6020A
Magnesium	66	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:30	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 18:07	JMW	EPA 6020A
Molybdenum	19	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:30	JMW	EPA 6020A
Potassium	2.5	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:30	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:07	JMW	EPA 6020A
Sodium	150	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:30	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GC00016-10  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 13:13  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:07	JMW	EPA 6020A
Lithium	< 20	ug/L		03/06/23 09:21	1	20	03/07/23 10:31	TJJ	EPA 6010B





### ANALYTICAL RESULTS

**Sample:** GC00016-11  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 13:08  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	46	mg/L	Q4	03/03/23 20:21	10	10	03/03/23 20:21	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/03/23 19:26	1	0.250	03/03/23 19:26	CRD	EPA 300.0 REV 2.1
Sulfate	3.4	mg/L		03/03/23 19:26	1	1.0	03/03/23 19:26	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	24.89	Feet		02/28/23 13:08	1		02/28/23 13:08	FIELD	Field*
Dissolved oxygen, Field	0.97	mg/L		02/28/23 13:08	1		02/28/23 13:08	FIELD	Field*
Oxidation Reduction Potential	-94.0	mV		02/28/23 13:08	1	-500	02/28/23 13:08	FIELD	Field*
pH, Field Measured	6.83	pH Units		02/28/23 13:08	1		02/28/23 13:08	FIELD	Field*
Specific Conductance, Field Measured	1950	umhos/cm		02/28/23 13:08	1		02/28/23 13:08	FIELD	Field*
Temperature, Field Measured	13.2	°C		02/28/23 13:08	1		02/28/23 13:08	FIELD	Field*
Turbidity, Field Measured	29.3	NTU		02/28/23 13:08	1	0.00	02/28/23 13:08	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	1100	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1200	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 10:33	JMW	EPA 6020A
Arsenic	2.2	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:33	JMW	EPA 6020A
Barium	1300	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:33	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:33	JMW	EPA 6020A
Boron	490	ug/L		03/06/23 09:21	5	10	03/07/23 10:33	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:33	JMW	EPA 6020A
Calcium	140	mg/L		03/06/23 09:21	5	0.20	03/07/23 10:33	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/06/23 09:21	5	4.0	03/07/23 10:33	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/06/23 09:21	5	2.0	03/07/23 10:33	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:10	JMW	EPA 6020A
Magnesium	59	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:33	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 18:10	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:33	JMW	EPA 6020A
Potassium	4.9	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:33	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:10	JMW	EPA 6020A
Sodium	260	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:33	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GC00016-11  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 13:08  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:10	JMW	EPA 6020A
Lithium	37	ug/L		03/06/23 09:21	1	20	03/07/23 10:32	TJJ	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GC00016-12  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 11:06  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	47	mg/L		03/03/23 20:57	10	10	03/03/23 20:57	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/03/23 20:39	1	0.250	03/03/23 20:39	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		03/03/23 20:39	1	1.0	03/03/23 20:39	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	25.6	Feet		02/28/23 11:06	1		02/28/23 11:06	FIELD	Field*
Dissolved oxygen, Field	0.36	mg/L		02/28/23 11:06	1		02/28/23 11:06	FIELD	Field*
Oxidation Reduction Potential	-108	mV		02/28/23 11:06	1	-500	02/28/23 11:06	FIELD	Field*
pH, Field Measured	6.90	pH Units		02/28/23 11:06	1		02/28/23 11:06	FIELD	Field*
Specific Conductance, Field Measured	1610	umhos/cm		02/28/23 11:06	1		02/28/23 11:06	FIELD	Field*
Temperature, Field Measured	12.6	°C		02/28/23 11:06	1		02/28/23 11:06	FIELD	Field*
Turbidity, Field Measured	869	NTU		02/28/23 11:06	1	0.00	02/28/23 11:06	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	900	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 10:37	JMW	EPA 6020A
Arsenic	6.1	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:37	JMW	EPA 6020A
Barium	1200	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:37	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:37	JMW	EPA 6020A
Boron	420	ug/L		03/06/23 09:21	5	10	03/07/23 10:37	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:37	JMW	EPA 6020A
Calcium	110	mg/L		03/06/23 09:21	5	0.20	03/07/23 10:37	JMW	EPA 6020A
Chromium	4.0	ug/L		03/06/23 09:21	5	4.0	03/07/23 10:37	JMW	EPA 6020A
Cobalt	3.4	ug/L		03/06/23 09:21	5	2.0	03/07/23 10:37	JMW	EPA 6020A
Lead	1.8	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:13	JMW	EPA 6020A
Magnesium	45	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:37	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 18:13	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:37	JMW	EPA 6020A
Potassium	4.5	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:37	JMW	EPA 6020A
Selenium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:13	JMW	EPA 6020A
Sodium	230	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:37	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GC00016-12  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 11:06  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:13	JMW	EPA 6020A
Lithium	34	ug/L		03/06/23 09:21	1	20	03/07/23 10:37	TJJ	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GC00016-13  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 10:05  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	80	mg/L		03/03/23 21:33	50	50	03/03/23 21:33	CRD	EPA 300.0 REV 2.1
Fluoride	0.360	mg/L		03/03/23 21:15	1	0.250	03/03/23 21:15	CRD	EPA 300.0 REV 2.1
Sulfate	240	mg/L		03/03/23 21:33	50	50	03/03/23 21:33	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	16.34	Feet		02/28/23 10:05	1		02/28/23 10:05	FIELD	Field*
Dissolved oxygen, Field	6.7	mg/L		02/28/23 10:05	1		02/28/23 10:05	FIELD	Field*
Oxidation Reduction Potential	227	mV		02/28/23 10:05	1	-500	02/28/23 10:05	FIELD	Field*
pH, Field Measured	7.99	pH Units		02/28/23 10:05	1		02/28/23 10:05	FIELD	Field*
Specific Conductance, Field Measured	728.0	umhos/cm		02/28/23 10:05	1		02/28/23 10:05	FIELD	Field*
Temperature, Field Measured	12.2	°C		02/28/23 10:05	1		02/28/23 10:05	FIELD	Field*
Turbidity, Field Measured	125	NTU		02/28/23 10:05	1	0.00	02/28/23 10:05	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	160	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	680	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 10:41	JMW	EPA 6020A
Arsenic	2.7	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:41	JMW	EPA 6020A
Barium	58	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:41	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:41	JMW	EPA 6020A
Boron	13000	ug/L		03/06/23 09:21	100	200	03/07/23 12:08	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:41	JMW	EPA 6020A
Calcium	110	mg/L		03/06/23 09:21	5	0.20	03/07/23 10:41	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/06/23 09:21	5	4.0	03/07/23 10:41	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/06/23 09:21	5	2.0	03/07/23 10:41	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:16	JMW	EPA 6020A
Magnesium	34	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:41	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 18:16	JMW	EPA 6020A
Molybdenum	29	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:41	JMW	EPA 6020A
Potassium	3.4	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:41	JMW	EPA 6020A
Selenium	1.7	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:16	JMW	EPA 6020A
Sodium	60	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:41	JMW	EPA 6020A





### ANALYTICAL RESULTS

**Sample:** GC00016-13  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 10:05  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:16	JMW	EPA 6020A
Lithium	< 20	ug/L		03/06/23 09:21	1	20	03/07/23 10:38	TJJ	EPA 6010B



**ANALYTICAL RESULTS**

Sample: GC00016-14  
 Name: XPW01A  
 Matrix: Ground Water - Grab

Sampled: 02/28/23 10:48  
 Received: 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	86	mg/L		03/03/23 22:45	25	25	03/03/23 22:45	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		03/03/23 21:51	1	0.250	03/03/23 21:51	CRD	EPA 300.0 REV 2.1
Sulfate	220	mg/L		03/03/23 22:45	25	25	03/03/23 22:45	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	11.32	Feet		02/28/23 10:48	1		02/28/23 10:48	FIELD	Field*
Dissolved oxygen, Field	4.2	mg/L		02/28/23 10:48	1		02/28/23 10:48	FIELD	Field*
Oxidation Reduction Potential	54.0	mV		02/28/23 10:48	1	-500	02/28/23 10:48	FIELD	Field*
pH, Field Measured	11.8	pH Units		02/28/23 10:48	1		02/28/23 10:48	FIELD	Field*
Specific Conductance, Field Measured	1970	umhos/cm		02/28/23 10:48	1		02/28/23 10:48	FIELD	Field*
Temperature, Field Measured	11.0	°C		02/28/23 10:48	1		02/28/23 10:48	FIELD	Field*
Turbidity, Field Measured	52.9	NTU		02/28/23 10:48	1	0.00	02/28/23 10:48	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	< 10	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	75	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	960	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/07/23 10:45	JMW	EPA 6020A
Arsenic	120	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:45	JMW	EPA 6020A
Barium	34	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:45	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:45	JMW	EPA 6020A
Boron	19000	ug/L		03/06/23 09:21	100	200	03/07/23 12:12	JMW	EPA 6020A
Cadmium	1.9	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:45	JMW	EPA 6020A
Calcium	57	mg/L		03/06/23 09:21	5	0.20	03/07/23 10:45	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/06/23 09:21	5	4.0	03/07/23 10:45	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/06/23 09:21	5	2.0	03/07/23 10:45	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:19	JMW	EPA 6020A
Magnesium	< 0.10	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:45	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 18:19	JMW	EPA 6020A
Molybdenum	3200	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:45	JMW	EPA 6020A
Potassium	240	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:45	JMW	EPA 6020A
Selenium	8.5	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:19	JMW	EPA 6020A
Sodium	120	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:45	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GC00016-14  
**Name:** XPW01A  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 10:48  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:19	JMW	EPA 6020A
Lithium	680	ug/L		03/06/23 09:21	1	20	03/07/23 10:39	TJJ	EPA 6010B



**ANALYTICAL RESULTS**

**Sample:** GC00016-15  
**Name:** XPW02  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 14:27  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	100	mg/L		03/03/23 23:03	100	100	03/03/23 23:03	CRD	EPA 300.0 REV 2.1
Sulfate	930	mg/L		03/03/23 23:03	100	100	03/03/23 23:03	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	20.13	Feet		02/28/23 14:27	1		02/28/23 14:27	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		02/28/23 14:27	1		02/28/23 14:27	FIELD	Field*
Oxidation Reduction Potential	-148	mV		02/28/23 14:27	1	-500	02/28/23 14:27	FIELD	Field*
pH, Field Measured	12.2	pH Units		02/28/23 14:27	1		02/28/23 14:27	FIELD	Field*
Specific Conductance, Field Measured	4140	umhos/cm		02/28/23 14:27	1		02/28/23 14:27	FIELD	Field*
Temperature, Field Measured	13.9	°C		02/28/23 14:27	1		02/28/23 14:27	FIELD	Field*
Turbidity, Field Measured	19.8	NTU		02/28/23 14:27	1	0.00	02/28/23 14:27	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	< 10	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	120	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Fluoride	0.319	mg/L		03/06/23 16:44	1	0.250	03/06/23 16:44	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	2400	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	3.2	ug/L		03/06/23 09:21	5	3.0	03/07/23 10:49	JMW	EPA 6020A
Arsenic	170	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:49	JMW	EPA 6020A
Barium	38	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:49	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:49	JMW	EPA 6020A
Boron	16000	ug/L		03/06/23 09:21	100	200	03/07/23 12:15	JMW	EPA 6020A
Cadmium	1.9	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:49	JMW	EPA 6020A
Calcium	37	mg/L		03/06/23 09:21	5	0.20	03/07/23 10:49	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/06/23 09:21	5	4.0	03/07/23 10:49	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/06/23 09:21	5	2.0	03/07/23 10:49	JMW	EPA 6020A
Lead	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:22	JMW	EPA 6020A
Magnesium	0.23	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:49	JMW	EPA 6020A
Mercury	0.28	ug/L		03/06/23 09:21	5	0.20	03/07/23 18:22	JMW	EPA 6020A
Molybdenum	3200	ug/L		03/06/23 09:21	5	1.0	03/07/23 10:49	JMW	EPA 6020A
Potassium	110	mg/L		03/06/23 09:21	5	0.10	03/07/23 10:49	JMW	EPA 6020A
Selenium	160	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:22	JMW	EPA 6020A
Sodium	730	mg/L		03/06/23 09:21	100	2.0	03/08/23 07:55	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GC00016-15  
**Name:** XPW02  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 14:27  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:22	JMW	EPA 6020A
Lithium	310	ug/L		03/06/23 09:21	1	20	03/07/23 10:40	TJJ	EPA 6010B





### ANALYTICAL RESULTS

**Sample:** GC00016-16  
**Name:** XPW03  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 16:33  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	93	mg/L		03/03/23 23:21	50	50	03/03/23 23:21	CRD	EPA 300.0 REV 2.1
Sulfate	260	mg/L		03/03/23 23:21	50	50	03/03/23 23:21	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	16.34	Feet		02/28/23 16:33	1		02/28/23 16:33	FIELD	Field*
Dissolved oxygen, Field	2.6	mg/L		02/28/23 16:33	1		02/28/23 16:33	FIELD	Field*
Oxidation Reduction Potential	-51.0	mV		02/28/23 16:33	1	-500	02/28/23 16:33	FIELD	Field*
pH, Field Measured	11.9	pH Units		02/28/23 16:33	1		02/28/23 16:33	FIELD	Field*
Specific Conductance, Field Measured	1930	umhos/cm		02/28/23 16:33	1		02/28/23 16:33	FIELD	Field*
Temperature, Field Measured	15.1	°C		02/28/23 16:33	1		02/28/23 16:33	FIELD	Field*
Turbidity, Field Measured	78.1	NTU		02/28/23 16:33	1	0.00	02/28/23 16:33	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	< 10	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	120	mg/L		03/07/23 10:31	1	10	03/07/23 10:31	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		03/06/23 16:45	1	0.250	03/06/23 16:45	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	2000	mg/L		03/02/23 09:54	1	26	03/02/23 10:44	HRF	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		03/06/23 09:21	5	3.0	03/08/23 10:03	JMW	EPA 6020A
Arsenic	27	ug/L		03/06/23 09:21	5	1.0	03/07/23 11:41	JMW	EPA 6020A
Barium	120	ug/L		03/06/23 09:21	5	1.0	03/07/23 11:41	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 11:41	JMW	EPA 6020A
Boron	5700	ug/L		03/06/23 09:21	5	10	03/07/23 11:41	JMW	EPA 6020A
Cadmium	2.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 11:41	JMW	EPA 6020A
Calcium	61	mg/L		03/06/23 09:21	5	0.20	03/07/23 11:41	JMW	EPA 6020A
Chromium	< 4.0	ug/L		03/06/23 09:21	5	4.0	03/07/23 11:41	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		03/06/23 09:21	5	2.0	03/07/23 11:41	JMW	EPA 6020A
Lead	1.8	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:25	JMW	EPA 6020A
Magnesium	0.36	mg/L		03/06/23 09:21	5	0.10	03/07/23 11:41	JMW	EPA 6020A
Mercury	< 0.20	ug/L		03/06/23 09:21	5	0.20	03/07/23 18:25	JMW	EPA 6020A
Molybdenum	3100	ug/L		03/06/23 09:21	5	1.0	03/07/23 11:41	JMW	EPA 6020A
Potassium	68	mg/L		03/06/23 09:21	5	0.10	03/07/23 11:41	JMW	EPA 6020A
Selenium	18	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:25	JMW	EPA 6020A
Sodium	230	mg/L		03/06/23 09:21	5	0.10	03/08/23 10:03	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GC00016-16  
**Name:** XPW03  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 16:33  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		03/06/23 09:21	5	1.0	03/07/23 18:25	JMW	EPA 6020A
Lithium	130	ug/L		03/06/23 09:21	1	20	03/07/23 10:42	TJJ	EPA 6010B



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B327096 - No Prep - SM 2540C</u></b>									
<b>Blank (B327096-BLK1)</b>	Prepared & Analyzed: 03/01/23								
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B327096-BS1)</b>	Prepared & Analyzed: 03/01/23								
Solids - total dissolved solids (TDS)	957	mg/L		1000		96	84.9-109		
<b><u>Batch B327134 - No Prep - SM 2540C</u></b>									
<b>Blank (B327134-BLK1)</b>	Prepared & Analyzed: 03/02/23								
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B327134-BS1)</b>	Prepared & Analyzed: 03/02/23								
Solids - total dissolved solids (TDS)	983	mg/L		1000		98	84.9-109		
<b>Duplicate (B327134-DUP1)</b>	Sample: GC00016-06 Prepared & Analyzed: 03/02/23								
Solids - total dissolved solids (TDS)	725	mg/L			735			1	5
<b>Duplicate (B327134-DUP2)</b>	Sample: GC00016-07 Prepared & Analyzed: 03/02/23								
Solids - total dissolved solids (TDS)	830	mg/L			830			0	5
<b><u>Batch B327318 - No Prep - SM 2320B 1997</u></b>									
<b>Blank (B327318-BLK1)</b>	Prepared & Analyzed: 03/03/23								
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
<b><u>Batch B327371 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B327371-CCB1)</b>	Prepared & Analyzed: 03/03/23								
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.489	mg/L							
<b>Calibration Check (B327371-CCV1)</b>	Prepared & Analyzed: 03/03/23								
Sulfate	4.91	mg/L		5.000		98	90-110		
Fluoride	5.11	mg/L		5.000		102	90-110		
Chloride	4.87	mg/L		5.000		97	90-110		
<b>Matrix Spike (B327371-MS1)</b>	Sample: GB04667-01 Prepared & Analyzed: 03/03/23								
Sulfate	1.54	mg/L		1.500	ND	103	80-120		
<b>Matrix Spike (B327371-MS2)</b>	Sample: GC00016-10 Prepared & Analyzed: 03/03/23								
Sulfate	7.27	mg/L		1.500	5.68	106	80-120		
Fluoride	1.45	mg/L		1.500	0.0778	91	80-120		
Chloride	< 1.0	mg/L	Q4	1.500	21	NR	80-120		
<b>Matrix Spike (B327371-MS3)</b>	Sample: GC00016-11 Prepared & Analyzed: 03/03/23								
Fluoride	1.40	mg/L		1.500	0.0535	90	80-120		
Chloride	< 1.0	mg/L	Q4	1.500	46	NR	80-120		
Sulfate	4.91	mg/L		1.500	3.37	102	80-120		
<b>Matrix Spike Dup (B327371-MSD1)</b>	Sample: GB04667-01 Prepared & Analyzed: 03/03/23								
Sulfate	1.57	mg/L		1.500	ND	105	80-120	2	20
<b>Matrix Spike Dup (B327371-MSD2)</b>	Sample: GC00016-10 Prepared & Analyzed: 03/03/23								
Fluoride	1.42	mg/L		1.500	0.0778	90	80-120	2	20
Sulfate	7.28	mg/L		1.500	5.68	107	80-120	0.1	20
Chloride	< 1.0	mg/L	Q4	1.500	21	NR	80-120		20
<b>Matrix Spike Dup (B327371-MSD3)</b>	Sample: GC00016-11 Prepared & Analyzed: 03/03/23								



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike Dup (B327371-MSD3)</b>				Sample: GC00016-11		Prepared & Analyzed: 03/03/23			
Chloride	< 1.0	mg/L	Q4	1.500	46	NR	80-120		20
Sulfate	4.90	mg/L		1.500	3.37	102	80-120	0.2	20
Fluoride	1.40	mg/L		1.500	0.0535	89	80-120	0.3	20
<b><u>Batch B327373 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B327373-BLK1)</b>				Prepared: 03/06/23 Analyzed: 03/07/23					
Lithium	< 20	ug/L							
<b>LCS (B327373-BS1)</b>				Prepared: 03/06/23 Analyzed: 03/07/23					
Lithium	509	ug/L		555.6		92	80-120		
<b>Matrix Spike (B327373-MS1)</b>				Sample: GB04667-01 Prepared: 03/06/23 Analyzed: 03/07/23					
Lithium	511	ug/L		555.6	26.8	87	75-125		
<b>Matrix Spike Dup (B327373-MSD1)</b>				Sample: GB04667-01 Prepared: 03/06/23 Analyzed: 03/07/23					
Lithium	537	ug/L		555.6	26.8	92	75-125	5	200
<b><u>Batch B327373 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B327373-BLK1)</b>				Prepared: 03/06/23 Analyzed: 03/07/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
<b>LCS (B327373-BS1)</b>				Prepared: 03/06/23 Analyzed: 03/07/23					
Antimony	551	ug/L		555.6		99	80-120		
Arsenic	548	ug/L		555.6		99	80-120		
Barium	540	ug/L		555.6		97	80-120		
Beryllium	524	ug/L		555.6		94	80-120		
Boron	531	ug/L		555.6		96	80-120		
Cadmium	557	ug/L		555.6		100	80-120		
Calcium	5.73	mg/L		5.556		103	80-120		
Chromium	557	ug/L		555.6		100	80-120		
Cobalt	556	ug/L		555.6		100	80-120		
Lead	556	ug/L		555.6		100	80-120		
Magnesium	5.95	mg/L		5.556		107	80-120		
Mercury	52.8	ug/L		55.56		95	80-120		
Molybdenum	534	ug/L		555.6		96	80-120		



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>LCS (B327373-BS1)</b>				Prepared: 03/06/23 Analyzed: 03/07/23					
Potassium	5.51	mg/L		5.556		99	80-120		
Selenium	560	ug/L		555.6		101	80-120		
Sodium	6.07	mg/L		5.556		109	80-120		
Thallium	540	ug/L		555.6		97	80-120		
<b>Matrix Spike (B327373-MS1)</b>				Sample: GB04667-01		Prepared: 03/06/23 Analyzed: 03/07/23			
Antimony	553	ug/L		555.6	ND	100	75-125		
Arsenic	548	ug/L		555.6	3.53	98	75-125		
Barium	2220	ug/L		555.6	1770	82	75-125		
Beryllium	531	ug/L		555.6	ND	96	75-125		
Boron	930	ug/L		555.6	366	102	75-125		
Cadmium	557	ug/L		555.6	ND	100	75-125		
Calcium	147	mg/L		5.556	142	85	75-125		
Chromium	546	ug/L		555.6	ND	98	75-125		
Cobalt	545	ug/L		555.6	1.83	98	75-125		
Lead	540	ug/L		555.6	0.272	97	75-125		
Magnesium	62.1	mg/L		5.556	56.8	95	75-125		
Mercury	54.2	ug/L		55.56	0.206	97	75-125		
Molybdenum	550	ug/L		555.6	ND	99	75-125		
Potassium	9.36	mg/L		5.556	3.95	97	75-125		
Selenium	547	ug/L		555.6	ND	98	75-125		
Sodium	214	mg/L		5.556	210	76	75-125		
Thallium	522	ug/L		555.6	ND	94	75-125		
<b>Matrix Spike Dup (B327373-MSD1)</b>				Sample: GB04667-01		Prepared: 03/06/23 Analyzed: 03/07/23			
Antimony	556	ug/L		555.6	ND	100	75-125	0.5	20
Arsenic	555	ug/L		555.6	3.53	99	75-125	1	20
Barium	2240	ug/L		555.6	1770	85	75-125	0.8	20
Beryllium	535	ug/L		555.6	ND	96	75-125	0.6	20
Boron	937	ug/L		555.6	366	103	75-125	0.7	20
Cadmium	562	ug/L		555.6	ND	101	75-125	0.9	20
Calcium	148	mg/L		5.556	142	99	75-125	0.5	20
Chromium	551	ug/L		555.6	ND	99	75-125	0.8	20
Cobalt	551	ug/L		555.6	1.83	99	75-125	1	20
Lead	546	ug/L		555.6	0.272	98	75-125	1	20
Magnesium	62.6	mg/L		5.556	56.8	105	75-125	0.9	20
Mercury	55.0	ug/L		55.56	0.206	99	75-125	1	20
Molybdenum	555	ug/L		555.6	ND	100	75-125	1	20
Potassium	9.43	mg/L		5.556	3.95	99	75-125	0.8	20
Selenium	543	ug/L		555.6	ND	98	75-125	0.6	20
Sodium	217	mg/L		5.556	210	117	75-125	1	20
Thallium	529	ug/L		555.6	ND	95	75-125	1	20
<b>Batch B327405 - No Prep - SM 4500F C 1997</b>									
<b>Calibration Blank (B327405-CCB1)</b>				Prepared & Analyzed: 03/06/23					
Fluoride	0.00900	mg/L							
<b>Calibration Blank (B327405-CCB2)</b>				Prepared & Analyzed: 03/06/23					
Fluoride	0.00500	mg/L							
<b>Calibration Check (B327405-CCV1)</b>				Prepared & Analyzed: 03/06/23					





**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Calibration Check (B327405-CCV1)</b>				Prepared & Analyzed: 03/06/23					
Fluoride	0.653	mg/L		0.7000		93	90-110		
<b>Calibration Check (B327405-CCV2)</b>				Prepared & Analyzed: 03/06/23					
Fluoride	0.698	mg/L		0.7000		100	90-110		
<b><u>Batch B327509 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B327509-CCB1)</b>				Prepared & Analyzed: 03/06/23					
Chloride	0.00	mg/L							
<b>Calibration Check (B327509-CCV1)</b>				Prepared & Analyzed: 03/06/23					
Chloride	4.95	mg/L		5.000		99	90-110		
<b><u>Batch B327510 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B327510-CCB1)</b>				Prepared & Analyzed: 03/06/23					
Fluoride	0.00	mg/L							
Chloride	0.194	mg/L							
Sulfate	0.00	mg/L							
<b>Calibration Check (B327510-CCV1)</b>				Prepared & Analyzed: 03/06/23					
Sulfate	4.91	mg/L		5.000		98	90-110		
Fluoride	4.95	mg/L		5.000		99	90-110		
Chloride	4.77	mg/L		5.000		95	90-110		
<b><u>Batch B327556 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B327556-DUP2)</b>		<b>Sample: GC00016-16</b>		Prepared & Analyzed: 03/07/23					
Alkalinity - carbonate as CaCO3	100	mg/L			125			22	10
Alkalinity - bicarbonate as CaCO3	< 10	mg/L			ND				10
<b><u>Batch B327620 - No Prep - SM 4500F C 1997</u></b>									
<b>Calibration Blank (B327620-CCB1)</b>				Prepared & Analyzed: 03/08/23					
Fluoride	0.00800	mg/L							
<b>Calibration Blank (B327620-CCB2)</b>				Prepared & Analyzed: 03/08/23					
Fluoride	0.0100	mg/L							
<b>Calibration Check (B327620-CCV1)</b>				Prepared & Analyzed: 03/08/23					
Fluoride	0.658	mg/L		0.7000		94	90-110		
<b>Calibration Check (B327620-CCV2)</b>				Prepared & Analyzed: 03/08/23					
Fluoride	0.703	mg/L		0.7000		100	90-110		
<b><u>Batch B327644 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B327644-CCB1)</b>				Prepared & Analyzed: 03/07/23					
Chloride	0.176	mg/L							
Sulfate	0.00	mg/L							
<b>Calibration Check (B327644-CCV1)</b>				Prepared & Analyzed: 03/07/23					
Sulfate	4.86	mg/L		5.000		97	90-110		
Chloride	4.67	mg/L		5.000		93	90-110		

## NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

\* Not a TNI accredited analyte

### Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279  
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

### Qualifiers

- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.



Certified by: Gail Schindler, Project Manager

SAR-3: Depth to Groundwater Measurements  
Plant: EDW  
Event: EDW-23Q1-845-3013-R3

AP07D 24.51  
APOS 5.63  
APW02 9.02  
APW03 7.86

14 6:23  
TO 5:58  
TO 48:38  
TO 33:38

12:40  
at 12:10  
at 10:52  
at 11:52

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer		Initials	Notes
				Manual	Transducer	Serial No.	Batt. %		
AP05S	EDW_AP05#S	2/27/23	1207	4.82				APP	TD 40.07
AP07S	EDW_AP07#S		1242	24.30				AM	TD 37.39
AP08	EDW_AP08		1318	7.63				APP	TD 21.97
AP09	EDW_AP09		1305	9.41				I	TD 20.89
AW-01	EDW_AW-01		1219	4.70				AM	TD 21.42
AW-05	EDW_AW-05		1320	7.61				I	
AW-06	EDW_AW-06		1202	26.89				APP	
AW-08	EDW_AW-08		1200	24.58				AM	
AW-09	EDW_AW-09		1219	25.94				AM	
AW-10	EDW_AW-10		1147	1.55				APP	
AW-11	EDW_AW-11		1134	3.69				I	
AW-14	EDW_AW-14		1131	6.88				I	
AW-15	EDW_AW-15		1056	8.92				I	
AW-15S	EDW_AW-15#S		1054	10.05				I	
AW-16	EDW_AW-16		1222	24.60				AM	
AW-17	EDW_AW-17		1208	24.85				I	
AW-18	EDW_AW-18		1204	26.96				I	
AW-19	EDW_AW-19		1139	13.30				I	
AW-21	EDW_AW-21		1151	16.35				I	
AW-23	EDW_AW-23		~	-				APP	could not find
EMW-05	EDW_EMW-05		1300	20.2A				AM	
SG-01	EDW_VILRIVER		1234	44.10				APP	
XPW01A	EDW_XPW01A_pore		1324	11.16				I	
XPW02	EDW_XPW02_pore		1244	19.78				I	
XPW03	EDW_XPW03_pore		1301	16.34				I	

APW01 7.01 at 1140  
AW13 5:40 at 1144  
AW15C 7:46 at 1051  
AW12 6:58 at 1156  
AW20 6:15 at 1147 Am

TD 23.01  
AW22 11:30 at 1156  
EMW02 18:05 at 12:26  
EMW03 21:22 at 12:23  
EMW04 19:48 at 13:09 Am

unable to close casing APP  
APP AM  
APP AM  
APP AM

TD 23.01  
TD 52.11  
TD 40.67  
TD 38.82

12:05 at 1144  
22:46 at 12:12  
24:53 at 12:52  
23:09 at 12:54

APP AM  
APP AM  
APP AM  
APP AM

POD2  
POD3  
PTW01  
DW-1

WELL/SAMPLE POINT APW05 APOSS Purge Method: Portable  
 Date: 2-29-23 Start Time: 13:48 Finish/Sample Time: 14:40  
 Well Depth (Bottom) From MP: 39.85 ft Min. Purge Volume: 1.0 Gal/L  
 Depth to Water From MP: 5.43 ft Total Purge Volume: 1.3 Gal/L  
 Water Column Length: 34.42 ft Max Drawdown: — ft  
 Well Water Volume: 5.5 Gal/L Total Drawdown: 0.19 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	13:58	5.62	100	7.03	1,390	13.98	-81	1.29	1000
2	13:59	5.63		7.00	1,380	14.00	-85	1.21	1000
3	14:00	5.60		7.01	1,390	14.01	-87	1.16	1000
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

>1000  
>1000  
>1000

Field Meter: Horiba  
 Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	25, L, HNO3
1	1000, mL, P

3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 5.62 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]



Site: Edwards Ash Pond

WELL/SAMPLE POINT AP07S

Purge Method: portable pump

Date: 2-28-23 Start Time: 12:35 Finish/Sample Time: 1:32:8

Well Depth (Bottom) From MP: 97.25 ft  
 Depth to Water From MP: 24.55 ft  
 Water Column Length: 12.70 ft  
 Well Water Volume: 2.0 Gal / L

Min. Purge Volume: 1.0 Gal / L  
 Total Purge Volume: 1.3 Gal / L  
 Max Drawdown: - ft  
 Total Drawdown: 1.78 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	12:45	24.99	100	7.28	3,800	13.47	111	7.00	1000+
2	12:46	25.06		7.15	3,840	13.49	107	6.97	1000+
3	12:47	25.09		7.13	3,820	13.53	100	6.83	1000+
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

>1000  
>1000  
>1000

Field Meter: HORIBA

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	2.5 L, HNO3
1	1000, mL, P

3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 26.33 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]



WELL/SAMPLE POINT AW-01

Purge Method: Portable Pump

Date: 2-28-23 Start Time: 14:48 Finish/Sample Time: 15:41

Well Depth (Bottom) From MP: 21.12 ft Min. Purge Volume: 1.0 Gal / L  
 Depth to Water From MP: 5.47 ft Total Purge Volume: 1.3 Gal / L  
 Water Column Length: 15.65 ft Max Drawdown: — ft  
 Well Water Volume: 25 Gal / L Total Drawdown: 0.33 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	15:00	5.62	100	7.03	1380	13.27	-86	1.18	<del>1000</del> >1000
2	15:01	5.64		7.02	1390	13.29	-87	1.11	<del>1000</del> >1000
3	15:02	5.63		6.98	1400	13:31	-89	1.07	<del>1000</del> >1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	2.5L HNO3
1	1000 mL

3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 5.80 ft

Comments

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-05

Purge Method: Blower

Date: 2-28-23 Start Time: 11:03 Finish/Sample Time: 11:57

Well Depth (Bottom) From MP: 22.45 ft Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 7.83 ft Total Purge Volume: 1.3 Gal / L

Water Column Length: 14.62 ft Max Drawdown: — ft

Well Water Volume: 2.3 Gal / L Total Drawdown: 0.23 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	11:19	7.98	1.0	7.31	1,450	12.74	169	4.10	1000+ >1000
2	11:20	7.97		7.27	1,450	12.71	166	3.94	1000+ >1000
3	11:21	8.01		7.24	1,440	12.69	162	3.89	1000+ >1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong <sup>KL</sup>

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	
Casing locked/secure	<input checked="" type="checkbox"/>	
Well cap fits securely.	<input checked="" type="checkbox"/>	
Good seal/drainage	<input checked="" type="checkbox"/>	
Well has weep holes	<input checked="" type="checkbox"/>	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	2.5 L, HNO3
1	1000, mL, P

3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 8.06 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-06

Purge Method: Compressor

Date: 28-Feb-23 Start Time: 0904 Finish/Sample Time: 1003

Well Depth (Bottom) From MP: 42.30 ft Min. Purge Volume: 1 Gal  L

Depth to Water From MP: 26.79 ft Total Purge Volume: 6.4 Gal  L

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	0927	28.91	100	7.54	972	11.13	-58	2.01	0.10
2	0928	29.05	1	7.46	970	11.22	-62	1.77	928
3	0929	29.20	1	7.39	971	11.21	-65	1.57	1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horribo

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) L
1	HNO3 (P, 250L)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 33.47 ft

Comments depth to bottom stops at pump

Sampler's Signature: Austin Moore

WELL/SAMPLE POINT AW-08

Purge Method: Compressor

Date: 28-Feb-23 Start Time: 1457 Finish/Sample Time: 1557

Well Depth (Bottom) From MP: 46.52 ft Min. Purge Volume: 1 Gal

Depth to Water From MP: 24.60 ft Total Purge Volume: 6.9 Gal / L

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1510	25.61	100	9.35	750	13.74	-142	2.10	11.6
2	1511	25.71	L	9.12	739	13.71	-137	1.74	11.6
3	1512	25.83	L	8.92	729	13.70	-133	1.56	11.9
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	HNO3 (P, 250 mL)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 31.62 ft

Comments \_\_\_\_\_

Sampler's Signature: Amir M...

WELL/SAMPLE POINT AW-09

Purge Method: Compressor

Date: 28-Feb-23 Start Time: 1114 Finish/Sample Time: 1205

Well Depth (Bottom) From MP: 47.24 ft Min. Purge Volume: 1 Gal

Depth to Water From MP: 26.01 ft Total Purge Volume: 1.3 Gal

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1133	28.53	100	7.03	1340	12.52	-129	1.17	104
2	1134	28.71	L	7.02	1340	12.54	-130	1.08	99.6
3	1135	28.87	L	7.02	1330	12.57	-130	1.01	77.2
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)   L
1	HNO3 (P, 250)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

34.03 FLOW

Comments depth to bottom stops at pump

Sampler's Signature: Austin Moon



WELL/SAMPLE POINT AW-10

Purge Method: blowdown

Date: 2/28/2023 Start Time: 1449 Finish/Sample Time: 1545

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Depth to Water From MP: 2.00 ft  
 Water Column Length: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L

Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Total Purge Volume: 1000 Gal / L (ML)  
 Max Drawdown: \_\_\_\_\_ ft  
 Total Drawdown: 3.65 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1301	3.37	100	7.03	2030	12.38	-88	0.89	>1000
2	1303	3.50	100	7.01	2030	12.31	-88	0.86	>1000
3	1305	3.65	100	7.00	2030	12.34	-89	0.82	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	(P, 250 mL HNO3)

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 5.65 ft

Comments \_\_\_\_\_

Sampler's Signature: \_\_\_\_\_

WELL/SAMPLE POINT AW-11

Purge Method: bladder

Date: 2/28/2023 Start Time: 1328 Finish/Sample Time: 1424

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Depth to Water From MP: 6.23 ft  
 Total Purge Volume: 1000 Gal / L (mc)  
 Water Column Length: \_\_\_\_\_ ft  
 Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L  
 Total Drawdown: 0.05 ft

APR 2/28/23

Reading (Units)	Time	Depth	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1341	<del>6.30</del> 6.25	100	7.18	1660	10.90	-100	0.98	>1000
2	1343	6.30	100	7.17	1650	10.85	-101	0.95	>1000
3	1345	6.30	100	7.17	1650	10.81	-103	0.91	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horioba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000mL
1	(P, 2.5L, HNO3)

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 6.30 ft  
APR 2/28/23

Comments \_\_\_\_\_

Sampler's Signature: \_\_\_\_\_

WELL/SAMPLE POINT AW-14

Purge Method: bladder

Date: 2/28/2023 Start Time: 1217 Finish/Sample Time: 1313

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Depth to Water From MP: 6.93 ft  
 Total Purge Volume: 1000 Gal / L (12)  
 Water Column Length: \_\_\_\_\_ ft  
 Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L  
 Total Drawdown: 7.04 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1230	9.20	100	6.97	1690	11.50	-60	1.24	253
2	1232	9.42	100	6.97	1690	11.48	-61	1.20	257
3	1234	9.64	100	6.98	1690	11.44	-63	1.11	261
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL
1	(P, 250 mL, HNO3)

(3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 13.97 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-15

Purge Method: bladder

Date: 2/27/2023 Start Time: 1430 Finish/Sample Time: 1528

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Depth to Water From MP: 9.00 ft  
 Total Purge Volume: 1000 Gal / L (mL)  
 Water Column Length: \_\_\_\_\_ ft  
 Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L  
 Total Drawdown: 0.15 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1446	9.15	100	6.78	1850	12.98	-97	1.05	88.0
2	1448	9.15	100	6.75	1850	12.92	-100	1.02	102
3	1450	9.15	100	6.75	1840	12.84	-102	1.04	107
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000mL
1	(P, 250mL, HNO3)

3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 9.15 ft

Comments \_\_\_\_\_

Sampler's Signature: \_\_\_\_\_

WELL/SAMPLE POINT AW-15S

Purge Method: bladder

Date: 2/27/2023 Start Time: 1530 Finish/Sample Time: 1630

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Depth to Water From MP: 10.04 ft  
 Water Column Length: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L

Min. Purge Volume: - Gal / L  
 Total Purge Volume: 1000 Gal / L  
 Max Drawdown: - ft  
 Total Drawdown: 2.36 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1545	10.92	100	6.82	1670	11.80	119	0.73	109
2	1547	11.00	100	6.82	1670	11.78	118	0.66	93.7
3	1550	11.08	100	6.81	1670	11.76	117	0.64	78.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL
1	(P, 2.5L, HNO3)

③

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW 12.40

Comments \_\_\_\_\_

Sampler's Signature: \_\_\_\_\_



WELL/SAMPLE POINT AW-16

Purge Method: Compressed

Date: 28-Feb-23 Start Time: 1213 Finish/Sample Time: 1308

Well Depth (Bottom) From MP: 56.79 ft Min. Purge Volume: 1 Gal / L

Depth to Water From MP: 24.89 ft Total Purge Volume: 1.3 Gal / L

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1231	25.64	100	6.85	1950	13.26	-91	1.54	38.1
2	1232	25.64	1	6.84	1950	13.28	-93	1.17	30.2
3	1233	25.64	1	6.83	1950	13.25	-97	0.97	29.3
4	[Handwritten scribbles]								
5	[Handwritten scribbles]								
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hocibor

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1L
	HNO3 (P, 250mL)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 25.64 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-17

Purge Method: Compressor

Date: 28-Feb-23 Start Time: 1013 Finish/Sample Time: 1106

Well Depth (Bottom) From MP: 56.19 ft 56.56 Min. Purge Volume: 1 Gal  L

Depth to Water From MP: 25.60 ft Total Purge Volume: 1.3 Gal  L

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1031	26.94	100	6.91	1610	12.46	-103	0.53	968
2	1032	26.98	1	6.91	1610	12.50	-106	0.44	988
3	1033	27.01	1	6.90	1610	12.55	-108	0.36	869
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horriba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C.V, 40mL, HCL)
	VOAS (C.V, 40mL)
	Organics (A.G,U 1000mL)
	Organics (A.G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A.G,250mL, H2SO4)
1	General (P, 250 mL) L
1	HNO3 (P, 250 mL)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 27.25 ft

Comments \_\_\_\_\_

Sampler's Signature: Austin Moore

WELL/SAMPLE POINT AW-18

Purge Method: Compressor

Date: 2/27/23 Start Time: 1545 Finish/Sample Time: 1650

Well Depth (Bottom) From MP: 50.68 ft Min. Purge Volume: 1 Gal  L  
 Depth to Water From MP: 27.00 ft Total Purge Volume: 1.5 Gal  L  
 Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1601	28.10	1.00	6.97	1640	12.18	-83	0.95	402
2	1602	28.17	1	6.94	1650	12.24	-89	0.72	497
3	1603	28.25	1	6.93	1660	12.25	-94	0.77	499
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horriba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) / L
1	HNO3 (P, 250mL)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 28.39 ft

Comments Depth to bottom stops at pump

Sampler's Signature: Justin Moran

WELL/SAMPLE POINT AW-19

Purge Method: Compressor

Date: 2/27/23 Start Time: 1425 Finish/Sample Time: 1529

Well Depth (Bottom) From MP: 38.60 ft Min. Purge Volume: 1 Gal   
 Depth to Water From MP: 13.37 ft Total Purge Volume: 1.4 Gal   
 Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1448	14.32	100	7.02	1080	12.88	49	2.17	189
2	1449	14.34	↓	7.01	1080	12.86	33	2.01	184
3	1450	14.36	↓	7.00	1080	12.86	20	1.89	189
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) L
1	HNO3 (P, 250 mL)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 16.03 ft

Comments Depth to bottom stops at pump

Sampler's Signature: Austin Mann

WELL/SAMPLE POINT **AW-21**

Purge Method: Bladder

Date: 2-28-23 Start Time: 09:08 Finish/Sample Time: 10:05

Well Depth (Bottom) From MP: 33.53 ft top of pump Min. Purge Volume: 1.0 Gal / @  
Depth to Water From MP: 16.34 ft Total Purge Volume: 1.3 Gal / L  
Water Column Length: 17.19 ft Max Drawdown: --- ft  
Well Water Volume: 2.7 Gal / L Total Drawdown: 1.20 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	09:22	17.10	100	7.89	7772	12.13	228	6.60	136
2	09:23	17.12		7.95	7754	12.14	227	6.64	133
3	09:24	17.13		7.99	7728	12.15	227	6.72	125
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: HoriBa

Sample Appearance:  
Odor:  None  Slight  Mod.  Strong  
Color:  None  Slight  Mod.  Strong  
Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	
Casing locked/secure	<input checked="" type="checkbox"/>	
Well cap fits securely.	<input checked="" type="checkbox"/>	
Good seal/drainage	<input checked="" type="checkbox"/>	
Well has weep holes	<input checked="" type="checkbox"/>	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	25 mL, HNO3
1	1000, mL, P

3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 17.54 ft

Comments \_\_\_\_\_

Sampler's Signature: [Signature]



WELL/SAMPLE POINT XPW01A

Purge Method: Bladder

Date: 2-28-23 Start Time: 10:08 Finish/Sample Time: 10:48

Well Depth (Bottom) From MP: 36.34 ft top of pump Min. Purge Volume: 1.0 Gal / L

Depth to Water From MP: 11.32 ft Total Purge Volume: 13 Gal / L

Water Column Length: 25.02 ft Max Drawdown: — ft

Well Water Volume: 4.0 Gal / L Total Drawdown: 0.25 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	10:23	11.45	100	11.73	1,940	10.90	66	52.4	56.4
2	10:24	11.47		11.75	1,950	10.98	59	51.8	55.0
3	10:25	11.48		11.76	1,970	10.97	54	49.	52.9
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

D  
4.40  
4.38  
4.23

Field Meter: HANNA

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	
Casing locked/secure	<input checked="" type="checkbox"/>	
Well cap fits securely.	<input checked="" type="checkbox"/>	
Good seal/drainage	<input checked="" type="checkbox"/>	
Well has weep holes	<input checked="" type="checkbox"/>	

**BOTTLE INFORMATION:**

2

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	1000 mL, P

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 11:57 ft

Comments

Sampler's Signature: Hogler

WELL/SAMPLE POINT XPW02

Purge Method: Compressed

Date: 28-Feb-23 Start Time: 1356 Finish/Sample Time: 1427

Well Depth (Bottom) From MP: 40.63 ft Min. Purge Volume: 1 Gal  (L)

Depth to Water From MP: 20.13 ft Total Purge Volume: 6.3 Gal  (L)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1413	20.30	100	12.20	4110	13.04	-143	2.00	18.00
2	1414	20.30	1	12.19	4140	13.98	-145	1.84	20.8
3	1415	20.30	1	12.19	4140	13.91	-148	1.69	19.8
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:  
Odor:  None  Slight  Mod.  Strong  
Color:  None  Slight  Mod.  Strong  
Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes		/

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW: 20.30 ft

Comments depth to bottom stops at pump

Sampler's Signature: [Signature]

WELL/SAMPLE POINT XPW03

Purge Method: bladder

Date: 2/28/2023 Start Time: 1551 Finish/Sample Time: 1633

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Depth to Water From MP: 16.34 ft  
 Total Purge Volume: 1000 Gal / L (2)  
 Water Column Length: \_\_\_\_\_ ft  
 Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L  
 Total Drawdown: 0.21 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1610	16.55	100	11.92	1940	15.09	-46	2.75	104
2	1612	16.55	100	11.92	1930	15.13	-49	2.68	88.9
3	1614	16.55	100	11.94	1930	15.07	-51	2.55	78.1
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, <del>250</del> mL) <u>1000 mL</u>

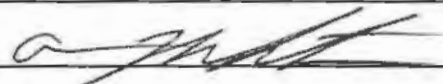
(2)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

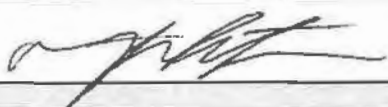
Final DTW 16.55 ft

Comments \_\_\_\_\_

Sampler's Signature: \_\_\_\_\_



## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>AP</i>				Location: <i>Edwards Power Station</i>					
Weather: <i>54° cloudy, rain wind WSEPM</i>				Environment: <i>grass, mud</i>					
Multiparameter Water Meter		Make: <i>Hanna</i>	Model: <i>D5000</i>	Serial Number: <i>U4U1FV7F</i>					
Water Level Meter		Make: <i>Heron</i>	Model: <i>D-apper 7</i>	Serial Number: <i>3717-7</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>3.75</i>	s.u.	±0.1 s.u.	<i>F</i>	<i>YES</i>	<i>4.00</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>6.87</i>	s.u.	±0.1 s.u.	<i>F</i>	<i>YES</i>	<i>7.00</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.06</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>-</i>	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>90</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>NO</i>	<i>-</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2020</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>	<i>-</i>	Geotech	2GE1442	May-23
ORP	<i>241</i>	mV	±15 mV	<i>P</i>	<i>NO</i>	<i>-</i>	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.02</i>	mg/L	±0.1	<i>P</i>	<i>NO</i>	<i>-</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>10.7</i>	%	97-100%	<i>P</i>	<i>NO</i>	<i>-</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>-</i>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: <i>1415</i>		<i>241 @ 16°</i>		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>3.99</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>-</i>	Geotech	2GC243	Mar-24	
pH 7.00b	<i>6.88</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>-</i>	Geotech	2GC931	Mar-24	
pH 10.00b	<i>10.04</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>-</i>	Geotech	2GE820	May-24	
SC 1000	<i>1010</i>	µS/cm	±5%	<i>P</i>	<i>-</i>	Ricca	4205H64	May-24	
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time: <i>1645</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L315-04	11/22/2023
pH 7.00a	<i>7.02</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>-</i>	MSI	L172-33	6/23/2023
pH 10.00a	<i>10.07</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>-</i>	MSI	L354-22	1/5/2024
SC 1000	<i>1030</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>	<i>-</i>	Ricca	2108D48	Jul-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>NO</i>	<i>-</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>-</i>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Comments:									
Signature: 				Date: <i>2/27/2023</i>					



## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Austin Moore</i>	Location: <i>Edwards</i>
Weather: <i>59-61 cloudy 14 mph wind NE</i>	Environment: <i>Mud &amp; Grass</i>
Multiparameter Water Meter	Make: <i>Hanna</i> Model: <i>U-5000</i> Serial Number: <i>PW26KJ03</i>
Water Level Meter	Make: <i>WT</i> Model: <i>Heron</i> Serial Number: <i>11FF2209309ML</i>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.06</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>6.93</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2020</i>	µS/cm	±5%	<i>P</i>	<i>N</i>	<i>N/A</i>	Geotech	2GE1442	May-23
ORP	<i>247</i>	mV	±15 mV	<i>P</i>	<i>N</i>	<i>N/A</i>	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.05</i>	mg/L	±0.1	<i>P</i>	<i>N</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.6</i>	%	97-100%	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <i>1358</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>7.17</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GC243	Mar-24
pH 7.00b	<i>6.99</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GC931	Mar-24
pH 10.00b	<i>10.03</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GE820	May-24
SC 1000	<i>980</i>	µS/cm	±5%	<i>P</i>	<i>N/A</i>	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1700</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.03</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L315-04	11/22/2023
pH 7.00a	<i>7.06</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L172-33	6/23/2023
pH 10.00a	<i>10.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L354-22	1/5/2024
SC 1000	<i>1010</i>	µS/cm	±5%	<i>P</i>	<i>N</i>	<i>N/A</i>	Ricca	2108D48	Jul-23
DO (Zero pt)	<i>0.05</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>N</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <i>Austin Moore</i>	Date: <i>27-Feb-23</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Pemberton</i>		Location: <i>Edwards</i>	
Weather: <i>46-52° F Partly cloudy wind @ 7 mph</i>		Environment: <i>grass, gravel, mud</i>	
Multiparameter Water Meter	Make: <i>Hori-ber</i>	Model: <i>J5000</i>	Serial Number: <i>YLAUS9HA</i>
Water Level Meter	Make: <i>Heron</i>	Model: <i>D-part</i>	Serial Number: <i>3717-7</i>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>7.03</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>I</i>	<i>I</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.05</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>18</i>	µS/cm	0<25 µS/cm	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2000</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	<i>I</i>	Geotech	2GE1442	May-23
ORP	<i>242</i>	mV	±15 mV	<i>I</i>	<i>I</i>	<i>I</i>	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	<i>I</i>	<i>I</i>	<i>I</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>95.2</i>	%	97-100%	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

*240 @ 17°C*

### ICV (Initial Calibration Verification)

Time: *1700*

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>3.98</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GC243	Mar-24
pH 7.00b	<i>6.88</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>I</i>	Geotech	2GC931	Mar-24
pH 10.00b	<i>10.06</i>	s.u.	±0.15 s.u.	<i>I</i>	<i>I</i>	Geotech	2GE820	May-24
SC 1000	<i>1020</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time: *1649*

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.03</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L315-04	11/22/2023
pH 7.00a	<i>7.02</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>I</i>	<i>I</i>	MSI	L172-33	6/23/2023
pH 10.00a	<i>10.08</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	L354-22	1/5/2024
SC 1000	<i>1030</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	<i>I</i>	Ricca	2108D48	Jul-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	<i>I</i>	<i>I</i>	<i>I</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: 		Date: <i>2/28/2023</i>	
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Austin Moore</i>				Location: <i>Edwards Power Station</i>					
Weather: <i>53-37° sunny wind WNW</i>				Environment: <i>Grass Mead</i>					
Multiparameter Water Meter		Make: <i>HORIBA</i>	Model: <i>V-5000</i>	Serial Number: <i>PW264503</i>					
Water Level Meter		Make: <i>Heron</i>	Model: <i>Water tape</i>	Serial Number: <i>11FF2209306ML</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.00</i>	s.u.	±0.1 s.u.	P	N	N/A	MSI	L344-09	12/14/2023
pH 7.00a	<i>6.72</i>	s.u.	±0.1 s.u.	P	N	N/A	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.04</i>	s.u.	±0.1 s.u.	P	N	N/A	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>18.45</i>	µS/cm	0<25 µS/cm	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2.031</i>	µS/cm	±5%	P	N	N/A	Geotech	2GE1442	May-23
ORP	<i>274</i>	mV	±15 mV	P	N	N/A	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.00</i>	mg/L	±0.1	P	N	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	<i>97.98</i>	%	97-100%	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.58</i>	NTU	<2 NTU	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <i>0830</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>3.99</i>	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24	
pH 7.00b	<i>6.94</i>	s.u.	±0.15 s.u.	P	N	Geotech	2GC931	Mar-24	
pH 10.00b	<i>9.96</i>	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24	
SC 1000	<i>1.015</i>	µS/cm	±5%	P	N	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>1630</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.03</i>	s.u.	±0.1 s.u.	P	N	N/A	MSI	L315-04	11/22/2023
pH 7.00a	<i>7.02</i>	s.u.	±0.1 s.u.	P	N	N/A	MSI	L172-33	6/23/2023
pH 10.00a	<i>10.05</i>	s.u.	±0.1 s.u.	P	N	N/A	MSI	L354-22	1/5/2024
SC 1000	<i>1020</i>	µS/cm	±5%	P	N	N/A	Ricca	2108D48	Jul-23
DO (Zero pt)	<i>0.06</i>	mg/L	±0.1 mg/L	P	N	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	N	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <i>Austin Moore</i>	Date: <i>28-Feb-23</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Kyle Lane</b>	Location: <b>EDWARDS POWER</b>
Weather: <b>37° to 52° Cloudy</b>	Environment: <b>Wet / MUDDY</b>
Multiparameter Water Meter	Make: <b>HORIBA</b> Model: <b>V-5000</b> Serial Number: <b>V#U/FV#F</b>
Water Level Meter	Make: <b>HECON</b> Model: <b>water tap</b> Serial Number: <b>19FF2202131ML</b>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	NR	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.	P	NR	NR	MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.	P	NR	NR	MSI	M082-04	3/25/2024
SC Zero (DI)	20.48	µS/cm	0<25 µS/cm	P	NR	NR	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020	µS/cm	±5%	P	NR	NR	Geotech	2GE1442	May-23
ORP	244	mV	±15 mV	P	NR	NR	InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1	P	NR	NR	Macron	#000228049	8/26/2025
DO (Saturated)	99.40	%	97-100%	P	NR	NR	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.26	NTU	<2 NTU	P	NR	NR	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	3.96	s.u.	±0.15 s.u.	P	NA	Geotech	2GC243	Mar-24		
pH 7.00b	7.04	s.u.	±0.15 s.u.	P	NR	Geotech	2GC931	Mar-24		
pH 10.00b	10.11	s.u.	±0.15 s.u.	P	NR	Geotech	2GE820	May-24		
SC 1000	1044	µS/cm	±5%	P	NR	Ricca	4205H64	May-24		

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	X	s.u.	±0.1 s.u.	X	X	X	MSI	L315-04	11/22/2023	
pH 7.00a	X	s.u.	±0.1 s.u.	X	X	X	MSI	L172-33	6/23/2023	
pH 10.00a	X	s.u.	±0.1 s.u.	X	X	X	MSI	L354-22	1/5/2024	
SC 1000	X	µS/cm	±5%	X	X	X	Ricca	2108D48	Jul-23	
DO (Zero pt)	X	mg/L	±0.1 mg/L	X	X	X	Macron	#000228049	8/26/2025	
Turbidity (DI)	X	NTU	<2 NTU	X	X	X	Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a	4.05	s.u.	±0.1 s.u.	P	NR	NR	MSI	L315-04	11/22/2023	
7.00a	7.04	s.u.	±0.1 s.u.	P	NR	NR	MSI	L172-33	6/23/2023	
10.00a	10.00	s.u.	±0.1 s.u.	P	NR	NR	MSI	L354-22	1/5/2024	
SC 1000	1008	µS/cm	±5%	P	NR	NR	Ricca	2108D48	Jul-23	
DO (Zero pt)	0.04	mg/L	±0.1 mg/L	P	NR	NR	Macron	#000228049	8/26/2025	
Turbidity (DI)	0.49	NTU	<2 NTU	P	NR	NR	Pace Labs	N/A (DI)	N/A (DI)	

Comments:

Signature: <b>[Signature]</b>	Date: <b>2-28-23</b>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>AP</i>				Location: <i>Edwards Power Station</i>					
Weather: <i>54° cloudy rain with wind</i>				Environment: <i>grass mud</i>					
Multiparameter Water Meter		Make: <i>Horiba</i>	Model: <i>D5000</i>	Serial Number: <i>U4V1FV7F</i>					
Water Level Meter		Make: <i>Heron</i>	Model: <i>Dipper?</i>	Serial Number: <i>3717-7</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>3.75</i>	s.u.	±0.1 s.u.	<i>F</i>	<i>Yes</i>	<i>4.00</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>6.87</i>	s.u.	±0.1 s.u.	<i>F</i>	<i>Yes</i>	<i>7.00</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.06</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>-</i>	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>20</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>NO</i>	<i>-</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2020</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>	<i>-</i>	Geotech	2GE1442	May-23
ORP	<i>241</i>	mV	±15 mV	<i>P</i>	<i>NO</i>	<i>-</i>	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.02</i>	mg/L	±0.1	<i>P</i>	<i>NO</i>	<i>-</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>11.7</i>	%	97-100%	<i>P</i>	<i>NO</i>	<i>-</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>-</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <i>1415</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>3.99</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>-</i>	Geotech	2GC243	Mar-24	
pH 7.00b	<i>6.88</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>-</i>	Geotech	2GC931	Mar-24	
pH 10.00b	<i>10.04</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>-</i>	Geotech	2GE820	May-24	
SC 1000	<i>1010</i>	µS/cm	±5%	<i>P</i>	<i>-</i>	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>1645</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L315-04	11/22/2023
pH 7.00a	<i>7.02</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L172-33	6/23/2023
pH 10.00a	<i>10.07</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	L354-22	1/5/2024
SC 1000	<i>1030</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>	<i>N/A</i>	Ricca	2108D48	Jul-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>NO</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <i>1645</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	<i>[Signature]</i>	Date:	<i>2/27/2023</i>
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### Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Angie Moore</i>		Location: <i>Edwards</i>	
Weather: <i>59-41 cloudy 14mph wind NE</i>		Environment: <i>Mud &amp; Grass</i>	
Multiparameter Water Meter	Make: <i>Hanna</i>	Model: <i>V-5000</i>	Serial Number: <i>PW26YJD3</i>
Water Level Meter	Make: <i>WT</i>	Model: <i>Heron</i>	Serial Number: <i>11FF2209309ML</i>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.06</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>6.93</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>10.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2020</i>	µS/cm	±5%	<i>P</i>	<i>N</i>	<i>N/A</i>	Geotech	2GE1442	May-23
ORP	<i>24</i>	mV	±15 mV	<i>P</i>	<i>N</i>	<i>N/A</i>	InSitu	2G1762	Jun-23
DO (Zero pt)	<i>0.05</i>	mg/L	±0.1	<i>P</i>	<i>N</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>0</i>	%	97-100%	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

#### ICV (Initial Calibration Verification)

Time: *1358*

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>7.17</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GC243	Mar-24
pH 7.00b	<i>6.99</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GC931	Mar-24
pH 10.00b	<i>10.03</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GE820	May-24
SC 1000	<i>980</i>	µS/cm	±5%	<i>P</i>	<i>N/A</i>	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

#### CCV (Continued Calibration Verification):

Time: *1700*

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.03</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L315-04	11/22/2023
pH 7.00a	<i>7.01</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L172-33	6/23/2023
pH 10.00a	<i>10.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>N</i>	<i>N/A</i>	MSI	L354-22	1/5/2024
SC 1000	<i>1010</i>	µS/cm	±5%	<i>P</i>	<i>N</i>	<i>N/A</i>	Ricca	2108D48	Jul-23
DO (Zero pt)	<i>0.05</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>N</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>N</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

#### CCV (Continued Calibration Verification):

Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <i>Angie Moore</i>	Date: <i>27-Feb-23</i>
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GBO-8AB  
GC00016-16 SAMP

**CHAIN-OF-CUSTODY / Analytical Request Document**

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

Page: 1 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>			
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		NPDES <b>GROUND WATER</b> DRINKING WATER			
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		UST    RCRA    OTHER			
Email To: <a href="mailto:Brian.Voelker@VistraCorp.com">Brian.Voelker@VistraCorp.com</a>		Purchase Order No.:		Address: <b>see Section A</b>		Quote Reference:		Site Location	
Phone: (217) 753-8911    Fax:		Project Name:		Project Manager:		Project Profile #:		STATE: <b>IL</b>	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>							

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ Analysis Test ↓ EDW_257_301	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
								Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol				
1	AP05S	WT	6	2/28/23	1440	3	X	X										
2	AP07S	WT	6	2/28/23	1328	3	X	X										
3	AW-01	WT	6	2/28/23	1541	3	X	X										
4	AW-05	WT	6	2/28/23	1157	3	X	X										
5	AW-06	WT	6	2/28/23	1003	3	X	X										
6	AW-08	WT	6	2/28/23	1440 15:57	3	X	X										
7	AW-09	WT	6	2/28/23	1205	3	X	X										
8	AW-10	WT	6	2/28/23	1545	3	X	X										
9	AW-11	WT	6	2/28/23	1424	3	X	X										
10	AW-14	WT	6	2/28/23	1313	3	X	X										
11	AW-15																	
12	AW-15S																	
13	AW-16	WT	6	2/28/23	1308	3	X	X										
14	AW-17	WT	6	2/28/23	1106	3	X	X										
15	AW-18																	
16	AW-19																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<b>EDW-23Q1-Rev 1</b>	<i>[Signature]</i>	2/28/23	1723				2.7	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Sample Intact (Y/N)
PRINT Name of SAMPLER:	<i>Brian Voelker</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY): 02/28/23			

*Vince Wagner* 3-1-23 707  
Courier

G-804667-04  
SAB

**CHAIN-OF-CUSTODY / Analytical Request Document**

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Page: 1 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		NPDES <b>GROUND WATER</b> DRINKING WATER	
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		UST RCRA OTHER	
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		Site Location	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		STATE: <b>IL</b>	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test EDW_257_301	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
						Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other						
	<b>SAMPLE ID</b> (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	DATE	TIME															
1	AP05S																		
2	AP07S																		
3	AW-01																		
4	AW-05																		
5	AW-06																		
6	AW-08																		
7	AW-09																		
8	AW-10																		
9	AW-11																		
10	AW-14																		
11	AW-15		WT 6	2/27/23	1528	2	X	X											
12	AW-15S		WT 6	2/27/23	1630	3	X	X											
13	AW-16																		
14	AW-17																		
15	AW-18		WT 6	2/27/23	1650	3	X	X											
16	AW-19		WT 6	2/27/23	1529	2	X	X											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<b>EDW-23Q1-Rev 1</b>	<i>[Signature]</i>	2/27/23	1752	<i>[Signature]</i>	2-28-23	720	1.3	Y	N	Y

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Avon Jemberon</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	02/27/23		

Courier

GC00016-16  
SAB

**CHAIN-OF-CUSTODY / Analytical Request Document**

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Page: 2 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>			
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		NPDES <b>GROUND WATER</b> DRINKING WATER			
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		UST RCRA OTHER			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		Quote Reference:		Site Location	
Phone: <b>(217) 753-8811</b> Fax:		Project Name:		Project Manager:		Project Reference:		STATE: <b>IL</b>	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:					

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test EDW_257_301	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
								Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>				
1	AW-21	WT	G	2/28/23	1005	3	X	X									
2	SG-01																
3	XPW01A	WT	G	2/28/23	1048	2	X	X									
4	XPW02	WT	G	2/28/23	1427	2	X	X									
5	XPW03	WT	G	2/28/23	1633	2	X	X									
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q1-Rev 1	<i>[Signature]</i>	2/28/23	1723				2.7	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Jason Lombard</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	02/28/23		

*Vanessa Wayman* 3-1-23 707  
Courier



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

July 13, 2023

Brian Voelker  
Vistra - Edwards  
604 Pierce Boulevard  
O'Fallon, IL 62269

Dear Brian Voelker:

Please find enclosed the **revised** analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or [lisa.grant@pacelabs.com](mailto:lisa.grant@pacelabs.com).

*Gail Schindler*  
Sincerely,

Gail Schindler  
Project Manager  
(309) 692-9688 x1716  
[gail.schindler@pacelabs.com](mailto:gail.schindler@pacelabs.com)







**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

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Work Order GB04670

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order GC00021

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



**ANALYTICAL RESULTS**

**Sample:** GB04670-01  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 02/27/23 15:28  
**Received:** 02/28/23 07:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	7.65	pCi/L			1	0.51	03/28/23 14:01		904.0 903.0

**Sample:** GB04670-02  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 02/27/23 16:30  
**Received:** 02/28/23 07:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.99	pCi/L			1	0.629	03/28/23 14:01		904.0 903.0

**Sample:** GB04670-03  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 02/27/23 16:50  
**Received:** 02/28/23 07:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	3.69	pCi/L			1	0.391	03/28/23 14:01		904.0 903.0

**Sample:** GB04670-04  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 02/27/23 15:29  
**Received:** 02/28/23 07:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.59	pCi/L			1	0.663	03/28/23 14:01		904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GC00021-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 14:40  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	3.12	pCi/L			1	1.15	03/31/23 17:37		904.0 903.0

**Sample:** GC00021-02  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 13:28  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.782 J	pCi/L			1	1.08	03/31/23 17:37		904.0 903.0

**Sample:** GC00021-03  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 15:41  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.77	pCi/L			1	1.17	03/31/23 17:37		904.0 903.0

**Sample:** GC00021-04  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 11:57  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.44	pCi/L			1	0.941	03/31/23 17:37		904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GC00021-05  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 10:03  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.489 J	pCi/L			1	0.641	03/31/23 17:37		904.0 903.0

**Sample:** GC00021-06  
**Name:** AW-08  
**Matrix:** Ground Water - FS

**Sampled:** 02/28/23 15:57  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.261 J	pCi/L			1	0.639	03/31/23 17:37		904.0 903.0

**Sample:** GC00021-07  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 12:05  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.12	pCi/L			1	0.614	03/31/23 17:37		904.0 903.0

**Sample:** GC00021-08  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 15:45  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.57	pCi/L			1	0.718	04/03/23 13:45		904.0 903.0





**ANALYTICAL RESULTS**

**Sample:** GC00021-09  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 14:24  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.25	pCi/L			1	0.68	04/03/23 13:45		904.0 903.0

**Sample:** GC00021-10  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 13:13  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.3	pCi/L			1	0.775	04/03/23 13:45		904.0 903.0

**Sample:** GC00021-11  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 13:08  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	3.13	pCi/L			1	0.722	04/03/23 13:45		904.0 903.0

**Sample:** GC00021-12  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 11:06  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	3.46	pCi/L			1	0.849	04/03/23 13:45		904.0 903.0



### ANALYTICAL RESULTS

**Sample:** GC00021-13  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 02/28/23 10:05  
**Received:** 03/01/23 07:07

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	0.642 J	pCi/L			1	0.677	04/03/23 13:45		904.0 903.0
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**QC SAMPLE RESULTS**

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<b>Parameter</b>	<b>Result</b>	<b>Unit</b>	<b>Qual</b>	<b>Spike Level</b>	<b>Source Result</b>	<b>%REC</b>	<b>%REC Limits</b>	<b>RPD</b>	<b>RPD Limit</b>
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### NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

Revised Report - corrected AW19 collection time

\* Not a TNI accredited analyte

#### Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

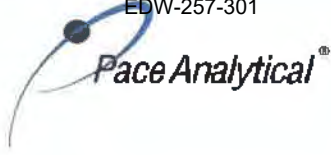
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Gail Schindler, Project Manager



# ANALYTICAL REPORT

July 12, 2023

Revised Report

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

## Pace IR - Peoria, IL

Sample Delivery Group: L1591301  
Samples Received: 03/03/2023  
Project Number: GB04670  
Description: VISTRA EDWARDS  
Site: 001  
Report To: Gail Schindler  
2231 W. Altorfer Drive  
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com



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AW-15 L1591301-01 Non-Potable Water

Collected by: [Blank] Collected date/time: 02/27/23 15:28 Received date/time: 03/03/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2028362	1	03/22/23 22:09	03/28/23 14:01	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020911	1	03/15/23 15:37	03/28/23 14:01	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020911	1	03/15/23 15:37	03/20/23 13:43	RGT	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

AW-15S L1591301-02 Non-Potable Water

Collected by: [Blank] Collected date/time: 02/27/23 16:30 Received date/time: 03/03/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2028362	1	03/22/23 22:09	03/28/23 14:01	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020911	1	03/15/23 15:37	03/28/23 14:01	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020911	1	03/15/23 15:37	03/20/23 13:43	RGT	Mt. Juliet, TN

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

AW-18 L1591301-03 Non-Potable Water

Collected by: [Blank] Collected date/time: 02/27/23 16:50 Received date/time: 03/03/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2028362	1	03/22/23 22:09	03/28/23 14:01	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020911	1	03/15/23 15:37	03/28/23 14:01	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020911	1	03/15/23 15:37	03/20/23 13:43	RGT	Mt. Juliet, TN

<sup>7</sup> Gl

<sup>8</sup> Al

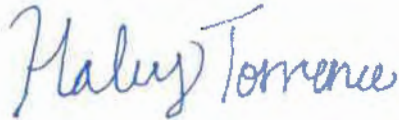
<sup>9</sup> Sc

AW-19 L1591301-04 Non-Potable Water

Collected by: [Blank] Collected date/time: 02/27/23 15:29 Received date/time: 03/03/23 10:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2028362	1	03/22/23 22:09	03/28/23 14:01	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2020911	1	03/15/23 15:37	03/28/23 14:01	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2020911	1	03/15/23 15:37	03/20/23 13:43	RGT	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence  
Project Manager

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 Al

9 Sc

### Report Revision History

---

Level II Report - Version 1: 03/31/23 08:44  
Level II Report - Version 2: 05/22/23 10:34

### Project Narrative

---

Fixed sample dates/times

AW-15

EDWARDS POWER PLANT, ASH POND

SAMPLE RESULTS - 01

Collected date/time: 07/27/23 15:28

L1591301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	5.97		0.339	0.449	03/28/2023 14:01	WG2028362
(T) Barium	97.7			30.0-143	03/28/2023 14:01	WG2028362
(T) Yttrium	107			30.0-136	03/28/2023 14:01	WG2028362

CP

Tc

Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	7.65		0.612	0.510	03/28/2023 14:01	WG2020911

Cn

Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.68		0.509	0.241	03/20/2023 13:43	WG2020911
(T) Barium-133	92.9			30.0-143	03/20/2023 13:43	WG2020911

Qc

GI

AI

Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.54		0.288	0.483	03/28/2023 14:01	<a href="#">WG2028362</a>
(T) Barium	81.5			30.0-143	03/28/2023 14:01	<a href="#">WG2028362</a>
(T) Yttrium	97.2			30.0-136	03/28/2023 14:01	<a href="#">WG2028362</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.99		0.458	0.629	03/28/2023 14:01	<a href="#">WG2020911</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.455		0.348	0.403	03/20/2023 13:43	<a href="#">WG2020911</a>
(T) Barium-133	70.3			30.0-143	03/20/2023 13:43	<a href="#">WG2020911</a>





Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.33		0.238	0.341	03/28/2023 14:01	<a href="#">WG2028362</a>
(T) Barium	94.5			30.0-143	03/28/2023 14:01	<a href="#">WG2028362</a>
(T) Yttrium	101			30.0-136	03/28/2023 14:01	<a href="#">WG2028362</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.69		0.473	0.391	03/28/2023 14:01	<a href="#">WG2020911</a>

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.36		0.409	0.192	03/20/2023 13:43	<a href="#">WG2020911</a>
(T) Barium-133	92.2			30.0-143	03/20/2023 13:43	<a href="#">WG2020911</a>

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.01		0.351	0.593	03/28/2023 14:01	<a href="#">WG2028362</a>
(T) Barium	87.6			30.0-143	03/28/2023 14:01	<a href="#">WG2028362</a>
(T) Yttrium	89.2			30.0-136	03/28/2023 14:01	<a href="#">WG2028362</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.59		0.471	0.663	03/28/2023 14:01	<a href="#">WG2020911</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.586		0.314	0.297	03/20/2023 13:43	<a href="#">WG2020911</a>
(T) Barium-133	93.8			30.0-143	03/20/2023 13:43	<a href="#">WG2020911</a>

6 Qc

7 GI

8 Al

9 Sc

WG2028362

Radiochemistry by Method 904/9320

Method Blank (MB)

(MB) R3907456-1 03/28/23 14:01

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-228	-0.0647	U	0.149	0.270
(f) Barium	101		101	
(f) Yttrium	88.0		88.0	

L1591310-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1591310-07 03/30/23 09:48 • (DUP) R3907456-5 03/30/23 09:48

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.36	0.422	0.745	1.31	0.425	0.745	1	3.38	0.0751		20	3
(f) Barium	58.9			79.6	79.6							
(f) Yttrium	102			107	107							

Laboratory Control Sample (LCS)

(LCS) R3907456-2 03/28/23 14:01

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.90	98.0	80.0-120	
(f) Barium		107			
(f) Yttrium		110			

L1591301-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1591301-02 03/28/23 14:01 • (MS) R3907456-3 03/28/23 14:01 • (MSD) R3907456-4 03/28/23 14:01

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	1.54	15.1	15.7	81.1	85.0	1	70.0-130			4.22		20
(f) Barium		81.5		96.2	96.2	96.7							
(f) Yttrium		97.2		98.5	98.5	94.2							



**WG2020911**

Radiochemistry by Method SM7500Ra B M

**QUALITY CONTROL SUMMARY**

L1591301-01,02,03,04

**Method Blank (MB)**

(MB) R3903275-1 03/20/23 13:42

Analyte	MB Result pCi/l	MB Uncertainty +/-	MB MDA pCi/l
Radium-226 (7) Barium-133	0.0297 78.9	0.0456 78.9	0.106

**L1590080-01 Original Sample (OS) • Duplicate (DUP)**

(OS) L1590080-01 03/20/23 13:42 • (DUP) R3903275-5 03/20/23 13:42

Analyte	Original Result pCi/l	Original Uncertainty +/-	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226 (7) Barium-133	0.879 79.6	0.409	0.285 68.3	0.350 68.3	0.285	1	121	1.23	J	20	3

**Laboratory Control Sample (LCS)**

(LCS) R3903275-2 03/20/23 13:42

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226 (7) Barium-133	5.01	5.49	110	80.0-120	80.0

**L1590082-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)**

(OS) L1590082-06 03/20/23 13:42 • (MS) R3903275-3 03/20/23 13:42 • (MSD) R3903275-4 03/20/23 13:42

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226 (7) Barium-133	20.0	0.387 79.2	21.8	21.1	107	104	1	75.0-125	104	82.5	2.89	20	20

ACCOUNT: Pace IR - Peoria, IL PROJECT: G804670 SDG: L1591301 DATE/TIME: 07/12/23 10:46 PAGE: 10 of 14





## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

### Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> GI

<sup>8</sup> AI

<sup>9</sup> Sc



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>2</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02579
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>16</sup>	KY90010	South Carolina	8404002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>14</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	CB47
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	AZLA
AZLA - ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
AZLA - ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> GI

<sup>8</sup> AI

<sup>9</sup> Sc

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

<sup>7</sup> Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

1007

Internal Transfer Chain of Custody



State of Origin: IL  
Cart. Needed:  YES  NO

Owner Received Date: 2/28/2023  
Results Required By: 3/29/2023

Workorder Name: Vistra Edwards  
ASST. MGR. HARRIS

Workorder: GB04670

Gail Schandler  
Pace Analytical - IL/MO  
2231 W. Altkorfer Drive  
Peoria, IL 61615  
800-752-6651

Pace Analytical - Mt Juliet  
12065 Lebanon Rd  
Mt Juliet TN 37122

Item	Sample ID	Sample Type	Collection Date/Time	Lab ID	Matrix	Units/Type	Comments
1	AW-35	GRAB	2/27/23 15:28	GB04670-01	GW		
2	AW-35S	GRAB	2/27/23 16:30	GB04670-02	GW		
3	AW-18	GRAB	2/27/23 16:50	GB04670-03	GW		
4	AW-19	GRAB	2/27/23 15:29	GB04670-04	GW		
5			03/21/23				
6							
7							
8							
9							
10							
1			3/23 140				
2							
3							

US91301

LAB USE ONLY

-01  
-02  
-03  
-04

Medium 226/228

Needs reported as 226, 228 and also combined 226/228 include QC summary and add

3/23 100

Wadey Roberts

Received on Ice Y or N

Sample Intact Y or N

Received on Ice Y or N

Sample Intact Y or N

Received on Ice Y or N

Sample Intact Y or N

Received on Ice Y or N

Sample Intact Y or N

Received on Ice Y or N

Sample Intact Y or N

Received on Ice Y or N

Sample Intact Y or N

Received on Ice Y or N

Sample Intact Y or N

FMT-ALL-C-002 rev.00 24March2009

Page 1 of 1

Sample Receipt Checklist  
 - [ ] All Present, Insects: If Applicable  
 - [ ] All Signed, Accurate: N/A  
 - [ ] All Bottles Active Intact: N/A  
 - [ ] All Correct Bottles Used: N/A  
 - [ ] All Sufficient Volume Used: N/A  
 - [ ] All MAC Screen 10.5 m³/hr: N/A

4591301



Ship to :  
 Pace Analytical Services, LLC  
 1638 Rosetown Rd - Suites 2,3,4  
 Greensburg, PA 15601

(724)850-5600

INTER\_LABORATORY WORK ORDER # GB04670

(To be complete by sending lab)

Sending Project No:	GB04670
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	3/1/2023
REQUESTED COMPLETION DATE:	3/29/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	AECI - NEW MADRID
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units \_\_\_\_\_ Report Wet or Dry Weight? \_\_\_\_\_ Cert Needed: IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		3		4	\$229.30	\$917.20
		1		1	\$0.00	\$0.00
		1		1		\$0.00
<b>TOTAL</b>						<b>\$917.20</b>

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$917.20	\$733.76	\$183.44
		<b>TOTAL</b>	<b>\$733.76</b>	<b>\$183.44</b>

\* Custom Revenue Allocation

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:  Yes  No

CONFIRMATION OF WORK COMPLETED

Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.



# ANALYTICAL REPORT

June 08, 2023

Revised Report

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

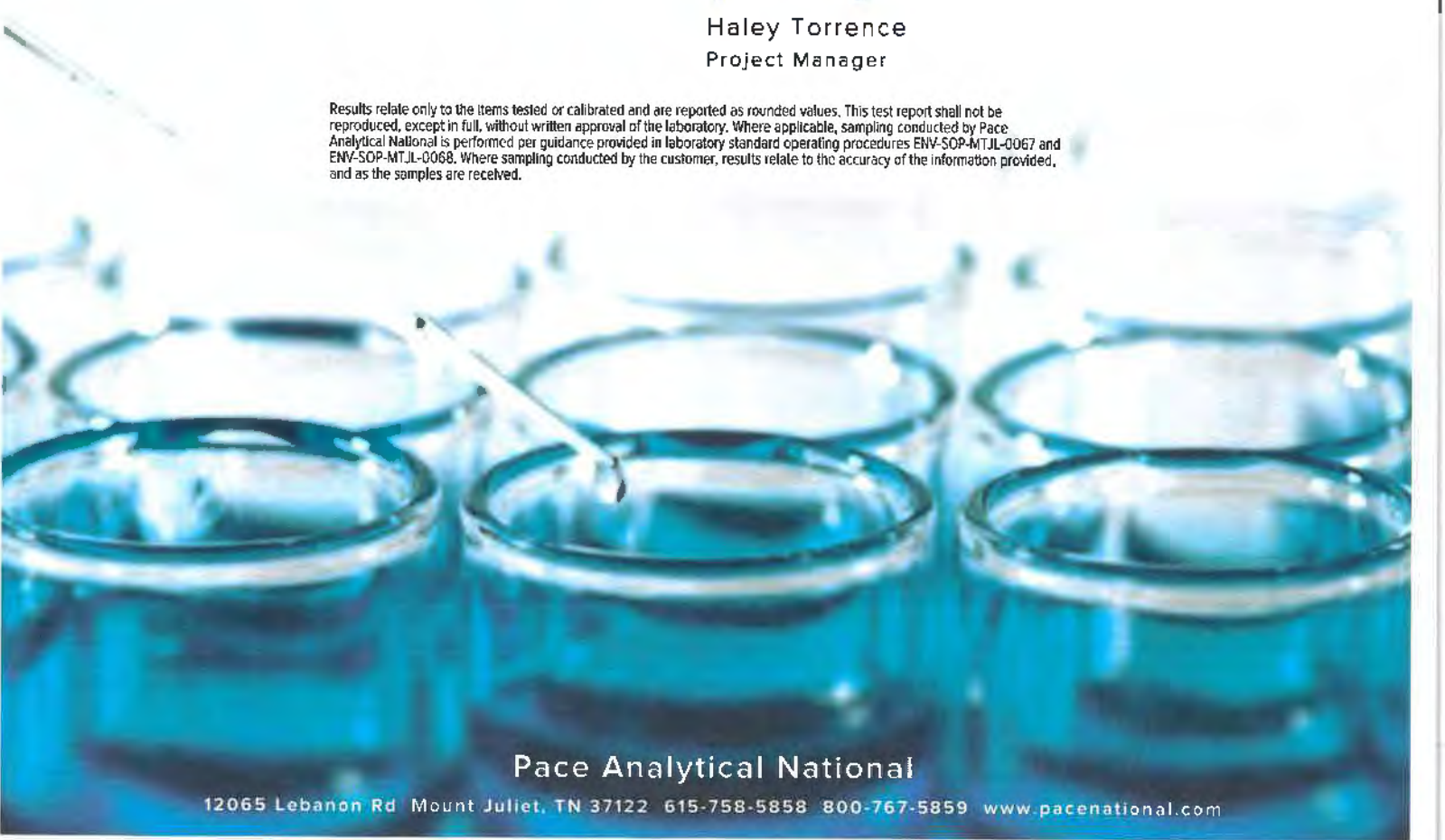
## Pace IR - Peoria, IL

Sample Delivery Group: L1592172  
Samples Received: 03/07/2023  
Project Number: GC00021  
Description: Vista-Edwards  
Site: 001  
Report To: Gail Schindler  
2231 W. Altorfer Drive  
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence  
Project Manager








Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com



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Collected by  
 Collected date/time  
 Received date/time

AP05S L1592172-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2030972	1	03/28/23 18:32	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2027993	1	03/24/23 17:42	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2027993	1	03/24/23 17:42	03/27/23 15:55	RGT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

Collected by  
 Collected date/time  
 Received date/time

AP07S L1592172-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2030972	1	03/28/23 18:32	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2027993	1	03/24/23 17:42	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2027993	1	03/24/23 17:42	03/27/23 15:55	RGT	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

Collected by  
 Collected date/time  
 Received date/time

AW-01 L1592172-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2030972	1	03/28/23 18:32	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2027993	1	03/24/23 17:42	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2027993	1	03/24/23 17:42	03/27/23 15:55	RGT	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

Collected by  
 Collected date/time  
 Received date/time

AW-05 L1592172-04 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2030972	1	03/28/23 18:32	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2027993	1	03/24/23 17:42	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2027993	1	03/24/23 17:42	03/27/23 15:55	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

AW-06 L1592172-05 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2030972	1	03/28/23 18:32	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2027993	1	03/24/23 17:42	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2027993	1	03/24/23 17:42	03/27/23 15:55	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

AW-08 L1592172-06 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2030972	1	03/28/23 18:32	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2027993	1	03/24/23 17:42	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2027993	1	03/24/23 17:42	03/27/23 15:55	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

AW-09 L1592172-07 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2030972	1	03/28/23 18:32	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2027993	1	03/24/23 17:42	03/31/23 17:37	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2027993	1	03/24/23 17:42	03/27/23 15:55	RGT	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Collected by  
 Collected date/time  
 Received date/time

AW-10 L1592172-08 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2031703	1	03/29/23 18:46	04/03/23 13:45	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2027993	1	03/24/23 17:42	04/03/23 13:45	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2027993	1	03/24/23 17:42	03/27/23 15:55	RGT	Mt. Juliet, TN

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

Collected by  
 Collected date/time  
 Received date/time

AW-11 L1592172-09 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2031703	1	03/29/23 18:46	04/03/23 13:45	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2027993	1	03/24/23 17:42	04/03/23 13:45	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2027993	1	03/24/23 17:42	03/27/23 15:55	RGT	Mt. Juliet, TN

<sup>7</sup>GI

<sup>8</sup>Al

<sup>9</sup>Sc

Collected by  
 Collected date/time  
 Received date/time

AW-14 L1592172-10 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2031703	1	03/29/23 18:46	04/03/23 13:45	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2027993	1	03/24/23 17:42	04/03/23 13:45	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2027993	1	03/24/23 17:42	03/27/23 15:55	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

AW-16 L1592172-11 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2031703	1	03/29/23 18:46	04/03/23 13:45	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2027993	1	03/24/23 17:42	04/03/23 13:45	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2027993	1	03/24/23 17:42	03/27/23 15:55	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

AW-17 L1592172-12 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2031703	1	03/29/23 18:46	04/03/23 13:45	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2027993	1	03/24/23 17:42	04/03/23 13:45	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2027993	1	03/24/23 17:42	03/27/23 15:55	RGT	Mt. Juliet, TN

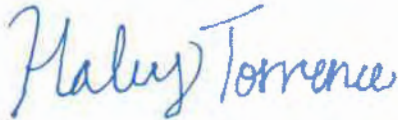
Collected by: \_\_\_\_\_  
 Collected date/time: 02/28/23 10:05  
 Received date/time: 03/07/23 10:10

AW-21 L1592172-13 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2031703	1	03/29/23 18:46	04/03/23 13:45	SWM	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2027993	1	03/24/23 17:42	04/03/23 13:45	SWM	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2027993	1	03/24/23 17:42	03/27/23 15:55	RGT	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 GI
- 8 AI
- 9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence  
Project Manager

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Ch

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

### Report Revision History

---

Level II Report - Version 1: 04/05/23 08:34

### Project Narrative

---



AP05S

EDWARDS POWER PLANT, ASH POND SAMPLE RESULTS - 01

Collected date/time: 02/20/23 14:40

L1592172

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.06	J	0.647	1.12	03/31/2023 17:37	<a href="#">WG2030972</a>
(T) Barium	102			30.0-143	03/31/2023 17:37	<a href="#">WG2030972</a>
(T) Yttrium	95.8			30.0-136	03/31/2023 17:37	<a href="#">WG2030972</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.12		0.850	1.15	03/31/2023 17:37	<a href="#">WG2027893</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.06		0.551	0.282	03/27/2023 15:55	<a href="#">WG2027993</a>
(T) Barium-133	87.9			30.0-143	03/27/2023 15:55	<a href="#">WG2027993</a>

6 Qc

7 GI

8 Al

9 Sc



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.000	U	0.578	1.03	03/31/2023 17:37	WG2030972
(T) Barium	98.3			30.0-143	03/31/2023 17:37	WG2030972
(T) Yttrium	99.5			30.0-136	03/31/2023 17:37	WG2030972

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.782	J	0.689	1.08	03/31/2023 17:37	WG2027993

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.782		0.375	0.326	03/27/2023 15:55	WG2027993
(T) Barium-133	86.2			30.0-143	03/27/2023 15:55	WG2027993

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 GI
- 8 AI
- 9 Sc

AW-01

EDWARDS POWER PLANT, ASH POND

SAMPLE RESULTS - 03

Collected date: 02/28/23 15:41

EDW-257-301

L1592172

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.720	J	0.631	1.11	03/31/2023 17:37	WG2030972
(T) Barium	89.0			30.0-143	03/31/2023 17:37	WG2030972
(T) Yttrium	102			30.0-136	03/31/2023 17:37	WG2030972

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.77		0.901	1.17	03/31/2023 17:37	WG2027993

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.05		0.643	0.380	03/27/2023 15:55	WG2027993
(T) Barium-133	77.1			30.0-143	03/27/2023 15:55	WG2027993

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.862	J	0.511	0.886	03/31/2023 17:37	WG2030972
(T) Barium	96.6			30.0-143	03/31/2023 17:37	WG2030972
(T) Yttrium	105			30.0-136	03/31/2023 17:37	WG2030972

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.44		0.618	0.941	03/31/2023 17:37	WG2027993

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.583		0.348	0.316	03/27/2023 15:55	WG2027993
(T) Barium-133	81.3			30.0-143	03/27/2023 15:55	WG2027993

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

AW-06

EDWARDS POWER PLANT, ASH POND

SAMPLE RESULTS - 05

Collected date/time: 02/28/23 10:03

L1592172

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.000	U	0.314	0.563	03/31/2023 17:37	WG2030972
(T) Barium	105			30.0-143	03/31/2023 17:37	WG2030972
(T) Yttrium	99.7			30.0-136	03/31/2023 17:37	WG2030972

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.489	J	0.443	0.641	03/31/2023 17:37	WG2027993

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.489		0.313	0.306	03/27/2023 15:55	WG2027993
(T) Barium-133	88.8			30.0-143	03/27/2023 15:55	WG2027993

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 GI

8 AI

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.0902	<u>U</u>	0.324	0.579	03/31/2023 17:37	<a href="#">WG2030972</a>
(T) Barium	120			30.0-143	03/31/2023 17:37	<a href="#">WG2030972</a>
(T) Yttrium	96.8			30.0-136	03/31/2023 17:37	<a href="#">WG2030972</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.261	<u>J</u>	0.380	0.639	03/31/2023 17:37	<a href="#">WG2027993</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.171	<u>J</u>	0.198	0.270	03/27/2023 15:55	<a href="#">WG2027993</a>
(T) Barium-133	90.2			30.0-143	03/27/2023 15:55	<a href="#">WG2027993</a>

6 Qc

7 Gl

8 Al

9 Sc



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.617		0.328	0.567	03/31/2023 17:37	<a href="#">WG2030972</a>
(T) Barium	120			30.0-143	03/31/2023 17:37	<a href="#">WG2030972</a>
(T) Yttrium	95.2			30.0-136	03/31/2023 17:37	<a href="#">WG2030972</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.12		0.435	0.614	03/31/2023 17:37	<a href="#">WG2027993</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.500		0.286	0.236	03/27/2023 15:55	<a href="#">WG2027993</a>
(T) Barium-133	95.1			30.0-143	03/27/2023 15:55	<a href="#">WG2027993</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.646		0.364	0.637	04/03/2023 13:45	WG2031703
(T) Barium	114			30.0-143	04/03/2023 13:45	WG2031703
(T) Yttrium	97.8			30.0-136	04/03/2023 13:45	WG2031703

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.57		0.541	0.718	04/03/2023 13:45	WG2027993

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.926		0.400	0.332	03/27/2023 15:55	WG2027993
(T) Barium-133	85.4			30.0-143	03/27/2023 15:55	WG2027993

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.66		0.388	0.653	04/03/2023 13:45	WG2031703
(T) Barium	108			30.0-143	04/03/2023 13:45	WG2031703
(T) Yttrium	116			30.0-136	04/03/2023 13:45	WG2031703

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.25		0.474	0.680	04/03/2023 13:45	WG2027993

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.587		0.273	0.190	03/27/2023 15:55	WG2027993
(T) Barium-133	93.1			30.0-143	03/27/2023 15:55	WG2027993

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

AW-14

EDWARDS POWER PLANT, ASH POND

SAMPLE RESULTS - 10

Collected date: 04/03/2023 13:13

EDW-257-301

L1592172

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.721		0.410	0.717	04/03/2023 13:45	<a href="#">WG2031703</a>
(T) Barium	111			30.0-143	04/03/2023 13:45	<a href="#">WG2031703</a>
(T) Yttrium	115			30.0-136	04/03/2023 13:45	<a href="#">WG2031703</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.30		0.515	0.775	04/03/2023 13:45	<a href="#">WG2027993</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.580		0.311	0.294	03/27/2023 15:55	<a href="#">WG2027993</a>
(T) Barium-133	94.7			30.0-143	03/27/2023 15:55	<a href="#">WG2027993</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.70		0.371	0.616	04/03/2023 13:45	<a href="#">WG2031703</a>
(T) Barium	#15			30.0-143	04/03/2023 13:45	<a href="#">WG2031703</a>
(T) Yttrium	#12			30.0-136	04/03/2023 13:45	<a href="#">WG2031703</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.13		0.631	0.722	04/03/2023 13:45	<a href="#">WG2027993</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.43		0.511	0.376	03/27/2023 15:55	<a href="#">WG2027993</a>
(T) Barium-133	93.0			30.0-143	03/27/2023 15:55	<a href="#">WG2027993</a>

6 Qc

7 GI

8 AI

9 Sc



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+/-	pCi/l	date / time	
RADIUM-228	1.92		0.471	0.793	04/03/2023 13:45	WG2031703
(T) Barium	114			30.0-143	04/03/2023 13:45	WG2031703
(T) Yttrium	81.4			30.0-136	04/03/2023 13:45	WG2031703

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+/-	pCi/l	date / time	
Combined Radium	3.46		0.693	0.849	04/03/2023 13:45	WG2027993

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+/-	pCi/l	date / time	
RADIUM-226	1.54		0.508	0.304	03/27/2023 15:55	WG2027993
(T) Barium-133	92.9			30.0-143	03/27/2023 15:55	WG2027993

6 Qc

7 GI

8 AI

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+/-	pCi/l	date / time	
RADIUM-228	0.334	J	0.341	0.609	04/03/2023 13:45	<a href="#">WG2031703</a>
(f) Barium	105			30.0-143	04/03/2023 13:45	<a href="#">WG2031703</a>
(f) Yttrium	88.8			30.0-136	04/03/2023 13:45	<a href="#">WG2031703</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+/-	pCi/l	date / time	
Combined Radium	0.642	J	0.426	0.677	04/03/2023 13:45	<a href="#">WG2027993</a>

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+/-	pCi/l	date / time	
RADIUM-226	0.308		0.256	0.295	03/27/2023 15:55	<a href="#">WG2027993</a>
(f) Barium-133	93.2			30.0-143	03/27/2023 15:55	<a href="#">WG2027993</a>

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

**WG2030972**

Radiochemistry by Method 904/9320

**Method Blank (MB)**

(MB) R3908520-1 03/31/23 17:37

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-228	-0.0406		0.179	0.155
(f) Barium	102		102	
(f) Yttrium	99.3		99.3	

**L1592923-02 Original Sample (OS) • Duplicate (DUP)**

(OS) L1592923-02 03/31/23 17:37 • (DUP) R3908520-5 03/31/23 17:37

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.261	0.430	0.755	0.987	0.332	0.755	1	116	1.34		20	3
(f) Barium	105			105								
(f) Yttrium	104			98.0								

**Laboratory Control Sample (LCS)**

(LCS) R3908520-2 03/31/23 17:37

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.66	93.3	80.0-120	
(f) Barium			fl0		
(f) Yttrium			98.2		

**L1592922-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)**

(OS) L1592922-01 03/31/23 17:37 • (MS) R3908520-3 03/31/23 17:37 • (MSD) R3908520-4 03/31/23 17:37

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	-0.0150	9.56	10.4	95.6	104	1	70.0-130			8.16		20
(f) Barium		104			105	103							
(f) Yttrium		108			111	97.2							

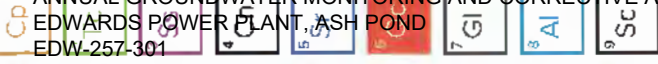
ACCOUNT:  
Pace IR - Peoria, IL

PROJECT:  
GC00021

SDG:  
L1592172

DATE/TIME:  
06/08/23 09:18

PAGE:  
20 of 26



**WG2031703**

Radiochemistry by Method 904/9320

**Method Blank (MB)**

(MB) R3908858-1 04/03/23 13:45

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-228	0.241		0.134	0.236
(f) Barium	103		103	
(f) Yttrium	98.8		98.8	

**L1592717-01 Original Sample (OS) • Duplicate (DUP)**

(OS) L1592717-01 04/03/23 13:45 • (DUP) R3908858-5 04/03/23 13:45

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP RPD Limits %	DUP Qualifier	DUP RER Limit
Radium-228	0.148	0.382	0.688	0.161	0.341	0.688	1	8.60	0.0260	20	U	3
(f) Barium	110			114								
(f) Yttrium	102			106								

**Laboratory Control Sample (LCS)**

(LCS) R3908858-2 04/03/23 13:45

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.34	86.8	80.0-120	
(f) Barium			107		
(f) Yttrium			95.3		

**L1592779-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)**

(OS) L1592779-04 04/03/23 13:45 • (MS) R3908858-3 04/03/23 13:45 • (MSD) R3908858-4 04/03/23 13:45

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	150	9.36	9.61	78.6	81.1	1	70.0-130		2.71		20
(f) Barium		115		116	116	110						
(f) Yttrium		113		117	117	101						





**WG2027993**

Radiochemistry by Method SM7500Ra B M

**Method Blank (MB)**

(MB) R3907079-1 03/27/23 15:55

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-226	-0.0194	U	0.0268	0.0783
(f) Barium-133	83.8		83.8	

**L1592169-01 Original Sample (OS) • Duplicate (DUP)**

(OS) L1592169-01 03/27/23 15:55 • (DUP) R3907079-5 03/27/23 15:55

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP RPD Limits %	DUP RER Limit
Radium-226	0.424	0.253	0.216	0.583	0.333	0.216	1	31.6	0.380	20	3
(f) Barium-133	90.3			82.6	82.6						

**Laboratory Control Sample (LCS)**

(LCS) R3907079-2 03/27/23 15:55

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %
Radium-226	5.01	5.34	107	80.0-120
(f) Barium-133			75.8	

**L1592923-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)**

(OS) L1592923-01 03/27/23 15:55 • (MS) R3907079-3 03/27/23 15:55 • (MSD) R3907079-4 03/27/23 15:55

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.0410	18.6	18.4	92.5	91.6	1	75.0-125			1.03		20
(f) Barium-133		91.7			85.6	86.4							





## Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful OC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

### Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

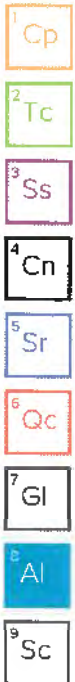
7 Gl

8 Al

9 Sc

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-05-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	86-0469	New Jersey--NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	EB7487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio--VAP	CLD069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,4</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	CB47
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		



<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable  
 \* Not all certifications held by the laboratory are applicable to the results reported in the attached report.  
 \* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

D052

Internal Transfer Chain of Custody



State of Origin: IL  
 Cert. Needed:  YES  NO

Owner Received  
 Date: 3/1/2023  
 Results Required By: 3/30/2023

Workorder Name: VISTA - EDWARDS  
 Workorder: GC00021

Gail Schindler  
 Pace Analytical - Mt Juliet  
 12065 Lebanon Rd  
 Mt Juliet TN 37122  
 800-752-6651

Sample ID	Sample Type	Sample Date	Sample Time	Sample Location	Lab	Lab Use Only	Comments
1	GRAB	2/28/2023	14:40	GC00021-01	GW	-01	
2	GRAB	2/28/2023	13:28	GC00021-02	GW	-01	
3	GRAB	2/28/2023	15:41	GC00021-03	GW	-05	
4	GRAB	2/28/2023	11:57	GC00021-04	GW	-01	
5	GRAB	2/28/2023	10:03	GC00021-05	GW	-05	
6	GRAB	2/28/2023	15:51	GC00021-06	GW	-01	
7	GRAB	2/28/2023	12:05	GC00021-07	GW	-01	
8	GRAB	2/28/2023	15:45	GC00021-08	GW	-01	
9	GRAB	2/28/2023	14:24	GC00021-09	GW	-01	
10	GRAB	2/28/2023	13:13	GC00021-10	GW	-10	
10	GRAB	2/28/2023	13:08	GC00021-11	GW	-11	
10	GRAB	2/28/2023	11:06	GC00021-12	GW	-12	
11	GRAB	2/28/2023	10:05	GC00021-13	GW	-13	
1							Needs reported as 226, 228 and also combined 226/228
2							Include QC summary and add
3							

Cooler Temperature on Receipt: 13.7 °C  
 Custody Seal:  Y  N  
 Received on Ice:  Y  N  
 Sample Intact:  Y  N

In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist  
 COC Seal Present/Intact:  Y  
 COC Signed/Accurate:  Y  
 Bottles properly sealed:  Y  
 Correct bottles used:  Y  
 Sufficient volume sent:  Y  
 B&D Screen <0.5 mh/hr:  Y

NSA  
 13.7°C = 13.7

LF312172



Ship to :  
 Pace Analytical Services, LLC  
 3638 Roseytown Rd - Suites 2,3,4  
 Greensburg, PA 15601

(724)850-5600

INTER\_LABORATORY WORK ORDER # GC00021

(To be complete by sending lab)

Sending Project No:	GC00021
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	3/2/2023
REQUESTED COMPLETION DATE:	3/30/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	VISTRA - EDWARDS
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units \_\_\_\_\_ Report Wet or Dry Weight? \_\_\_\_\_ Cert Needed: IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		1		13	\$229.30	\$2,980.90
		1		1	\$0.00	\$0.00
		1		1		\$0.00
<b>TOTAL</b>						<b>\$2,980.90</b>

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$2,980.90	\$2,384.72	\$596.18
* Custom Revenue Allocation		<b>TOTAL</b>	<b>\$2,384.72</b>	<b>\$596.18</b>

**FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO**

Return Samples to Sending Region:  Yes  No

**CONFIRMATION OF WORK COMPLETED**

Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

G804667-8AB  
G804670-04 8AB

**CHAIN-OF-CUSTODY / Analytical Request Document**

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

**Section A** Required Client Information:  
 Company: **Visira Corp**  
 Address: **13498 E. 900th St**

**Section B** Required Project Information:  
 Report To: **Brian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.:  
 Project Name:  
 Project Number: **2285**

**Section C** Invoice Information:  
 Attention: **Jason Stuckey**  
 Company Name: **Visira Corp**  
 Address: **see Section A**  
 Quote Reference: **see Section A**  
 Project Manager:  
 Profile #:

REGULATORY AGENCY  
 NPDES **GROUND WATER** DRINKING WATER  
 UST RCRA OTHER

Site Location **IL**  
 STATE:

Requested Due Date/TAT: **10 day**

Page: **1** of **2**

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER OW WATER WATER WW WASTE WATER WP PRODUCT P SOLID/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1			WT 6	G	2/27/23	1528	3	X		
2			WT 6	G	2/27/23	1630	3	X		
3			WT 6	G	2/27/23	1650	3	X		
4			WT 6	G	2/27/23	1529	3	X		
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

Relinquished By / Affiliation: **Jason Stuckey** DATE: **2/27/23** TIME: **1752**  
 Accepted By / Affiliation: **Jason Wynn** DATE: **2-28-23** TIME: **720**  
 Temp in °C: **1.3**  
 Received on Ice (Y/N): **Y**  
 Custody Sealed Cooler (Y/N): **N**  
 Samples Intact (Y/N): **Y**

EDW-23Q1-Rev 1

SAMPLER NAME AND SIGNATURE: **Jason Wynn**  
 PRINT Name of SAMPLER:  
 SIGNATURE of SAMPLER: *Jason Wynn*  
 DATE Signed (MM/DD/YYYY): **02/27/23**

Courier



680-888  
 60006-16 SAMP

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

**Section A**  
 Required Client Information:  
 Company: **Visira Corp**  
 Address: **13498 E. 900th St**  
 Email To: **Brian.Voelker@VisiraCorp.com**  
 Phone: **(217) 753-8811** Fax:  
 Requested Due Date/TAT: **10 day**

**Section B**  
 Required Project Information:  
 Report To: **Brian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.:  
 Project Name:  
 Project Number: **2285**

**Section C**  
 Invoice Information:  
 Attention: **Jason Stuckey**  
 Company Name: **Visira Corp**  
 Address: **see Section A**  
 Quote Reference:  
 Project Manager:  
 Profile #:

REGULATORY AGENCY  
 NPDES  
 UST  
 Site Location  
 STATE: **IL**

GROUND WATER  
 RCRA  
 DRINKING WATER  
 OTHER

Page: **1** of **2**

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-RAB C-COMP)	COLLECTED		# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1	AP05S	DRINKING WATER	WT6	G-RAB	2/28/23	1440	3	X	Y	EDW_257_301
2	AP07S	WASTE WATER	WT6	G-RAB	2/28/23	1328	3	X	Y	
3	AW-01	WASTE WATER PRODUCT	WT6	G-RAB	2/28/23	1541	3	X	Y	
4	AW-05	SPUGNOLD	WT6	G-RAB	2/28/23	1157	3	X	Y	
5	AW-06	AIR	WT6	G-RAB	2/28/23	1003	3	X	Y	
6	AW-08	OTHER	WT6	G-RAB	2/28/23	1440 15:57	3	X	Y	
7	AW-09	TISSUE	WT6	G-RAB	2/28/23	1205	3	X	Y	
8	AW-10		WT6	G-RAB	2/28/23	1545	3	X	Y	
9	AW-11		WT6	G-RAB	2/28/23	1424	3	X	Y	
10	AW-14		WT6	G-RAB	2/28/23	1313	3	X	Y	
11	AW-15									
12	AW-15S									
13	AW-16		WT6	G-RAB	2/28/23	1308	3	X	Y	
14	AW-17		WT6	G-RAB	2/28/23	1106	3	X	Y	
15	AW-18									
16	AW-19									

**ADDITIONAL COMMENTS**  
**EDW-23Q1-Rev 1**

RELINQUISHED BY / AFFILIATION: [Signature] DATE: 2/28/23 TIME: 1723

ACCEPTED BY / AFFILIATION: [Signature] DATE: 02/18/23 TIME: 2:17

RESIDUAL CHLORINE (Y/N):

TEMP IN °C: 2.7

RECEIVED ON ICE (Y/N): Y

CUSTODY SEALED COOLER (Y/N): N

SAMPLES INTACT (Y/N): Y

SAMPLER NAME AND SIGNATURE: [Signature]  
 PRINT NAME OF SAMPLER:  
 SIGNATURE OF SAMPLER: [Signature]  
 DATE SIGNED (MM/DD/YYYY): 02/18/23

Van Weigum 3-1-23 707  
 Courier

GC00016-16  
 SHB

**CHAIN-OF-CUSTODY / Analytical Request Document**

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

Page: 2 of 2

**Section A**  
 Required Client Information:  
 Company: Visira Corp  
 Address: 13498 E. 900th St  
 Email To: Brian.Voelker@VisiraCorp.com  
 Phone: (217) 753-8911 Fax:  
 Requested Due Date/TAT: 10 day

**Section B**  
 Required Project Information:  
 Report To: Brian Voelker  
 Copy To: Jason Stuckey  
 Purchase Order No.:  
 Project Name:  
 Project Number: 2285

**Section C**  
 Invoice Information:  
 Attention: Jason Stuckey  
 Company Name: Visira Corp  
 Address: see Section A  
 Quota Reference:  
 Project Manager:  
 Profile #:

**REGULATORY AGENCY**  
 NPDES GROUND WATER DRINKING WATER  
 UST RCRA OTHER  
 Site Location IL  
 STATE:

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DWINKING WATER DW WASTE WATER WW PRODUCT SOLID SL OL ML MAP APR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-RAB C-COMP)	COLLECTED		# OF CONTAINERS	Preservatives Y/N	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1			W1	G	2/28/23	1005	3	X		
2			SG-01							
3			XPW01A		2/28/23	1018	2	X		
4			XPW02		2/28/23	1427	2	X		
5			XPW03		2/28/23	1633	2	X		
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

**ADDITIONAL COMMENTS**  
 EDW-23Q1-Rev 1

RELINQUISHED BY / AFFILIATION: [Signature] DATE: 2/28/23 TIME: 1723

ACCEPTED BY / AFFILIATION: [Signature] DATE: 2/28/23 TIME: 1723

Temp in °C: 2.7

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): N

Samples Intact (Y/N): Y

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Arnon Limberton  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed (MM/DD/YY): 02/28/23

Van Wayman 3-1-23 707  
 Courier



**Pace Analytical Services, LLC**  
2231 W. Altorfer Drive  
Peoria, IL 61615  
(800)752-6651

August 16, 2023

Brian Voelker  
Vistra - Edwards  
604 Pierce Boulevard  
O'Fallon, IL 62269

Dear Brian Voelker:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or [lisa.grant@pacelabs.com](mailto:lisa.grant@pacelabs.com).

Sincerely,

A handwritten signature in cursive script that reads "Gail Schindler".

Gail Schindler  
Project Manager  
(309) 692-9688 x1716  
[gail.schindler@pacelabs.com](mailto:gail.schindler@pacelabs.com)



**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

---

Work Order    GF02086

---

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
YES	Case narrative provided



---

Work Order    GF02645

---

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided





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Work Order    GF02896

---

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



**ANALYTICAL RESULTS**

**Sample:** GF02088-01  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 14:05  
**Received:** 06/13/23 16:51  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.230 J	pCi/L			1	0.49	07/21/23 16:40		904.0 903.0

**Sample:** GF02088-02  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 14:35  
**Received:** 06/13/23 16:51  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	3.8	pCi/L			1	0.508	07/21/23 16:40		904.0 903.0

**Sample:** GF02088-03  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 13:29  
**Received:** 06/13/23 16:51  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.203 U	pCi/L			1	0.713	07/21/23 16:40		904.0 903.0

**Sample:** GF02088-04  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 15:52  
**Received:** 06/13/23 16:51  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	3.74	pCi/L			1	0.538	07/21/23 16:40		904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GF02088-05  
**Name:** XPW01A  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 15:32  
**Received:** 06/13/23 16:51  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.0760 U	pCi/L			1	0.638	07/21/23 16:40		904.0 903.0

**Sample:** GF02088-06  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 15:20  
**Received:** 06/13/23 16:51  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.95	pCi/L			1	0.667	07/21/23 16:40		904.0 903.0

**Sample:** GF02088-07  
**Name:** AW-10 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 06/13/23 15:20  
**Received:** 06/13/23 16:51  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.79	pCi/L			1	0.672	07/21/23 16:40		904.0 903.0

**Sample:** GF02088-08  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 12:54  
**Received:** 06/13/23 16:51  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.29	pCi/L			1	0.744	07/21/23 16:40		904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GF02088-09  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 11:20  
**Received:** 06/13/23 16:51  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	3.46	pCi/L			1	0.667	07/21/23 16:40		904.0 903.0

**Sample:** GF02088-10  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 15:20  
**Received:** 06/13/23 16:51  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.97	pCi/L			1	0.671	07/21/23 16:40		904.0 903.0

**Sample:** GF02088-11  
**Name:** XPW02  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 12:06  
**Received:** 06/13/23 16:51  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.481 J	pCi/L			1	0.725	07/21/23 20:53		904.0 903.0

**Sample:** GF02088-12  
**Name:** XPW03  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 13:38  
**Received:** 06/13/23 16:51  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.897	pCi/L			1	0.675	07/21/23 20:53		904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GF02677-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 10:34  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	4.53	pCi/L			1	1.07	07/20/23 16:47		904.0 903.0

**Sample:** GF02677-02  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 12:35  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.773	pCi/L			1	0.725	07/20/23 16:47		904.0 903.0

**Sample:** GF02677-03  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 10:33  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.91	pCi/L			1	0.54	07/20/23 16:47		904.0 903.0

**Sample:** GF02677-04  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 14:24  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.815	pCi/L			1	0.704	07/20/23 16:47		904.0 903.0





**ANALYTICAL RESULTS**

**Sample:** GF02677-05  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 12:08  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.92	pCi/L			1	0.568	07/20/23 16:47		904.0 903.0

**Sample:** GF02677-06  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 13:40  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.471 J	pCi/L			1	0.52	07/21/23 16:40		904.0 903.0

**Sample:** GF02677-07  
**Name:** AW-19 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 06/14/23 13:40  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.04	pCi/L			1	0.494	07/21/23 16:40		904.0 903.0

**Sample:** GF02677-08  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 15:40  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.326 J	pCi/L			1	0.573	07/21/23 16:40		904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GF02677-09  
**Name:** EB-01  
**Matrix:** Ground Water - Equipment Blank

**Sampled:** 06/14/23 16:03  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	0.0292 U	pCi/L			1	0.494	07/21/23 16:40		904.0 903.0
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**Sample:** GF02943-01  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 06/15/23 11:03  
**Received:** 06/15/23 15:22  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	1.2	pCi/L			1	1.19	07/20/23 16:47		904.0 903.0
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**Sample:** GF02943-02  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 06/15/23 11:31  
**Received:** 06/15/23 15:22  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	3.09	pCi/L			1	1.22	07/20/23 16:47		904.0 903.0
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**Sample:** GF02943-03  
**Name:** EB-2  
**Matrix:** Ground Water - Equipment Blank

**Sampled:** 06/15/23 14:00  
**Received:** 06/15/23 15:22  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	0.323 U	pCi/L			1	0.879	07/20/23 16:47		904.0 903.0
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### ANALYTICAL RESULTS

**Sample:** GF02086-01  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 14:05  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	29	mg/L	Q3	06/13/23 10:20	5	5.0	06/13/23 10:20	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/13/23 09:26	1	0.250	06/13/23 09:26	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/13/23 09:26	1	1.0	06/13/23 09:26	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	26.65	Feet		06/12/23 14:05	1		06/12/23 14:05	FIELD	Field*
Dissolved oxygen, Field	1.7	mg/L		06/12/23 14:05	1		06/12/23 14:05	FIELD	Field*
Oxidation Reduction Potential	-122	mV		06/12/23 14:05	1	-500	06/12/23 14:05	FIELD	Field*
pH, Field Measured	6.89	pH Units		06/12/23 14:05	1		06/12/23 14:05	FIELD	Field*
Specific Conductance, Field Measured	1550	umhos/cm		06/12/23 14:05	1		06/12/23 14:05	FIELD	Field*
Temperature, Field Measured	16.2	°C		06/12/23 14:05	1		06/12/23 14:05	FIELD	Field*
Turbidity, Field Measured	67.2	NTU		06/12/23 14:05	1	0.00	06/12/23 14:05	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	790	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	790	mg/L		06/13/23 14:44	1	26	06/13/23 14:44	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 08:10	JMW	EPA 6020A
Arsenic	10	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Barium	290	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Boron	260	ug/L		06/15/23 07:26	5	10	06/26/23 08:10	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Calcium	120	mg/L		06/15/23 07:26	5	0.20	06/26/23 08:10	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 08:10	JMW	EPA 6020A
Cobalt	2.2	ug/L		06/15/23 07:26	5	2.0	06/26/23 08:10	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Magnesium	51	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:10	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 08:10	JMW	EPA 6020A
Molybdenum	21	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Potassium	2.1	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:10	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Sodium	130	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:10	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02086-01  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 14:05  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:10	JMW	EPA 6020A
Lithium	< 20	ug/L		06/15/23 07:26	1	20	06/20/23 12:39	TJJ	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GF02086-02  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 14:35  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	35	mg/L		06/13/23 12:08	10	10	06/13/23 12:08	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/13/23 11:50	1	0.250	06/13/23 11:50	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/13/23 11:50	1	1.0	06/13/23 11:50	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	8.48	Feet		06/12/23 13:07	1		06/12/23 13:07	FIELD	Field*
Dissolved oxygen, Field	0.27	mg/L		06/12/23 13:07	1		06/12/23 13:07	FIELD	Field*
Oxidation Reduction Potential	-101	mV		06/12/23 13:07	1	-500	06/12/23 13:07	FIELD	Field*
pH, Field Measured	6.63	pH Units		06/12/23 13:07	1		06/12/23 13:07	FIELD	Field*
Specific Conductance, Field Measured	1970	umhos/cm		06/12/23 13:07	1		06/12/23 13:07	FIELD	Field*
Temperature, Field Measured	17.4	°C		06/12/23 13:07	1		06/12/23 13:07	FIELD	Field*
Turbidity, Field Measured	46.5	NTU		06/12/23 13:07	1	0.00	06/12/23 13:07	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	1100	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1400	mg/L		06/13/23 14:44	1	26	06/13/23 14:44	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 08:14	JMW	EPA 6020A
Arsenic	2.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Barium	1900	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Boron	360	ug/L		06/15/23 07:26	5	10	06/26/23 08:14	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Calcium	140	mg/L		06/15/23 07:26	5	0.20	06/26/23 08:14	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 08:14	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/15/23 07:26	5	2.0	06/26/23 08:14	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Magnesium	58	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:14	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 08:14	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Potassium	4.2	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:14	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Sodium	210	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:14	JMW	EPA 6020A





### ANALYTICAL RESULTS

**Sample:** GF02086-02  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 14:35  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:14	JMW	EPA 6020A
Lithium	30	ug/L		06/15/23 07:26	1	20	06/20/23 12:41	TJJ	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GF02086-03  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 13:29  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	31	mg/L		06/13/23 13:57	10	10	06/13/23 13:57	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/13/23 13:39	1	0.250	06/13/23 13:39	CRD	EPA 300.0 REV 2.1
Sulfate	590	mg/L		06/13/23 14:15	100	100	06/13/23 14:15	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	9.83	Feet		06/12/23 13:29	1		06/12/23 13:29	FIELD	Field*
Dissolved oxygen, Field	6.0	mg/L		06/12/23 13:29	1		06/12/23 13:29	FIELD	Field*
Oxidation Reduction Potential	38.0	mV		06/12/23 13:29	1	-500	06/12/23 13:29	FIELD	Field*
pH, Field Measured	6.65	pH Units		06/12/23 13:29	1		06/12/23 13:29	FIELD	Field*
Specific Conductance, Field Measured	1840	umhos/cm		06/12/23 13:29	1		06/12/23 13:29	FIELD	Field*
Temperature, Field Measured	15.8	°C		06/12/23 13:29	1		06/12/23 13:29	FIELD	Field*
Turbidity, Field Measured	29.1	NTU		06/12/23 13:29	1	0.00	06/12/23 13:29	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	510	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	990	mg/L		06/13/23 14:44	1	26	06/13/23 14:44	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 08:18	JMW	EPA 6020A
Arsenic	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Barium	75	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Boron	6700	ug/L		06/15/23 07:26	5	10	06/26/23 08:18	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Calcium	280	mg/L		06/15/23 07:26	5	0.20	06/26/23 08:18	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 08:18	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/15/23 07:26	5	2.0	06/26/23 08:18	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Magnesium	84	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:18	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 08:18	JMW	EPA 6020A
Molybdenum	3.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Potassium	0.54	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:18	JMW	EPA 6020A
Selenium	1.8	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Sodium	57	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:18	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02086-03  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 13:29  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:18	JMW	EPA 6020A
Lithium	< 20	ug/L		06/15/23 07:26	1	20	06/20/23 12:42	TJJ	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GF02086-04  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 15:52  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	50	mg/L		06/13/23 15:45	10	10	06/13/23 15:45	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/13/23 15:27	1	0.250	06/13/23 15:27	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/13/23 15:27	1	1.0	06/13/23 15:27	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	20.3	Feet		06/12/23 15:52	1		06/12/23 15:52	FIELD	Field*
Dissolved oxygen, Field	0.51	mg/L		06/12/23 15:52	1		06/12/23 15:52	FIELD	Field*
Oxidation Reduction Potential	-101	mV		06/12/23 15:52	1	-500	06/12/23 15:52	FIELD	Field*
pH, Field Measured	6.51	pH Units		06/12/23 15:52	1		06/12/23 15:52	FIELD	Field*
Specific Conductance, Field Measured	2110	umhos/cm		06/12/23 15:52	1		06/12/23 15:52	FIELD	Field*
Temperature, Field Measured	17.9	°C		06/12/23 15:52	1		06/12/23 15:52	FIELD	Field*
Turbidity, Field Measured	77.4	NTU		06/12/23 15:52	1	0.00	06/12/23 15:52	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	1100	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1500	mg/L		06/13/23 14:44	1	26	06/13/23 14:44	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 08:22	JMW	EPA 6020A
Arsenic	1.7	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Barium	1300	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Boron	450	ug/L		06/15/23 07:26	5	10	06/26/23 08:22	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Calcium	150	mg/L		06/15/23 07:26	5	0.20	06/26/23 08:22	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 08:22	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/15/23 07:26	5	2.0	06/26/23 08:22	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Magnesium	61	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:22	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 08:22	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Potassium	4.6	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:22	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Sodium	250	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:22	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GF02086-04  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 15:52  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:22	JMW	EPA 6020A
Lithium	31	ug/L		06/15/23 07:26	1	20	06/20/23 12:43	TJJ	EPA 6010B

**Sample:** GF02086-05  
**Name:** XPW01A  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 15:32  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Field - PIA**

Depth, From Measuring Point	12.94	Feet		06/12/23 15:32	1		06/12/23 15:32	FIELD	Field*
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## ANALYTICAL RESULTS

**Sample:** GF02086-06  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 15:20  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	89	mg/L		06/14/23 12:42	25	25	06/14/23 12:42	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/14/23 12:24	1	0.250	06/14/23 12:24	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/14/23 12:24	1	1.0	06/14/23 12:24	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	1.96	Feet		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Dissolved oxygen, Field	0.010	mg/L		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Oxidation Reduction Potential	-151	mV		06/13/23 15:20	1	-500	06/13/23 15:20	FIELD	Field*
pH, Field Measured	6.91	pH Units		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Specific Conductance, Field Measured	2174	umhos/cm		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Temperature, Field Measured	21.1	°C		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Turbidity, Field Measured	991	NTU		06/13/23 15:20	1	0.00	06/13/23 15:20	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	1000	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1200	mg/L		06/14/23 13:42	1	26	06/14/23 13:42	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 08:41	JMW	EPA 6020A
Arsenic	9.9	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Barium	990	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Boron	460	ug/L		06/15/23 07:26	5	10	06/26/23 08:41	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Calcium	130	mg/L		06/15/23 07:26	5	0.20	06/26/23 08:41	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 08:41	JMW	EPA 6020A
Cobalt	3.0	ug/L		06/15/23 07:26	5	2.0	06/26/23 08:41	JMW	EPA 6020A
Lead	1.4	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Magnesium	65	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:41	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 08:41	JMW	EPA 6020A
Molybdenum	1.2	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Potassium	3.8	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:41	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Sodium	280	mg/L		06/15/23 07:26	5	0.10	06/26/23 08:41	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02086-06  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 15:20  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 08:41	JMW	EPA 6020A
Lithium	37	ug/L		06/15/23 07:26	1	20	06/20/23 12:45	TJJ	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GF02086-07  
**Name:** AW-10 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 06/13/23 15:20  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	97	mg/L		06/14/23 13:54	25	25	06/14/23 13:54	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/14/23 13:36	1	0.250	06/14/23 13:36	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/14/23 13:36	1	1.0	06/14/23 13:36	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	1.96	Feet		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Dissolved oxygen, Field	0.010	mg/L		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Oxidation Reduction Potential	-151	mV		06/13/23 15:20	1	-500	06/13/23 15:20	FIELD	Field*
pH, Field Measured	6.91	pH Units		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Specific Conductance, Field Measured	2174	umhos/cm		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Temperature, Field Measured	21.1	°C		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Turbidity, Field Measured	991	NTU		06/13/23 15:20	1	0.00	06/13/23 15:20	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	1100	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1200	mg/L		06/14/23 13:42	1	26	06/14/23 13:42	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 09:09	JMW	EPA 6020A
Arsenic	9.7	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Barium	990	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Boron	470	ug/L		06/15/23 07:26	5	10	06/26/23 09:09	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Calcium	130	mg/L		06/15/23 07:26	5	0.20	06/26/23 09:09	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 09:09	JMW	EPA 6020A
Cobalt	2.5	ug/L		06/15/23 07:26	5	2.0	06/26/23 09:09	JMW	EPA 6020A
Lead	1.2	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Magnesium	66	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:09	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 09:09	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Potassium	3.8	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:09	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Sodium	280	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:09	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02086-07

**Name:** AW-10 DUP

**Matrix:** Ground Water - Field Duplicate

**Sampled:** 06/13/23 15:20

**Received:** 06/13/23 06:30

**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:09	JMW	EPA 6020A
Lithium	37	ug/L		06/15/23 07:26	1	20	06/20/23 12:46	TJJ	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GF02086-08  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 12:54  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	33	mg/L		06/14/23 15:06	10	10	06/14/23 15:06	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/14/23 14:48	1	0.250	06/14/23 14:48	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/14/23 14:48	1	1.0	06/14/23 14:48	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	5.72	Feet		06/13/23 12:54	1		06/13/23 12:54	FIELD	Field*
Dissolved oxygen, Field	0.10	mg/L		06/13/23 12:54	1		06/13/23 12:54	FIELD	Field*
Oxidation Reduction Potential	-160	mV		06/13/23 12:54	1	-500	06/13/23 12:54	FIELD	Field*
pH, Field Measured	7.03	pH Units		06/13/23 12:54	1		06/13/23 12:54	FIELD	Field*
Specific Conductance, Field Measured	1757	umhos/cm		06/13/23 12:54	1		06/13/23 12:54	FIELD	Field*
Temperature, Field Measured	17.6	°C		06/13/23 12:54	1		06/13/23 12:54	FIELD	Field*
Turbidity, Field Measured	329	NTU		06/13/23 12:54	1	0.00	06/13/23 12:54	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	1000	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		06/14/23 13:42	1	26	06/14/23 13:42	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 09:13	JMW	EPA 6020A
Arsenic	9.9	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Barium	940	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Boron	240	ug/L		06/15/23 07:26	5	10	06/26/23 09:13	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Calcium	160	mg/L		06/15/23 07:26	5	0.20	06/26/23 09:13	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 09:13	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/15/23 07:26	5	2.0	06/26/23 09:13	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Magnesium	71	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:13	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 09:13	JMW	EPA 6020A
Molybdenum	1.4	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Potassium	2.7	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:13	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Sodium	160	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:13	JMW	EPA 6020A





### ANALYTICAL RESULTS

**Sample:** GF02086-08  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 12:54  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:13	JMW	EPA 6020A
Lithium	< 20	ug/L		06/15/23 07:26	1	20	06/20/23 12:52	TJJ	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GF02086-09  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 11:20  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	24	mg/L		06/14/23 16:55	10	10	06/14/23 16:55	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/14/23 16:37	1	0.250	06/14/23 16:37	CRD	EPA 300.0 REV 2.1
Sulfate	2.9	mg/L		06/14/23 16:37	1	1.0	06/14/23 16:37	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	7.29	Feet		06/13/23 11:20	1		06/13/23 11:20	FIELD	Field*
Dissolved oxygen, Field	0.14	mg/L		06/13/23 11:20	1		06/13/23 11:20	FIELD	Field*
Oxidation Reduction Potential	-152	mV		06/13/23 11:20	1	-500	06/13/23 11:20	FIELD	Field*
pH, Field Measured	6.88	pH Units		06/13/23 11:20	1		06/13/23 11:20	FIELD	Field*
Specific Conductance, Field Measured	1875	umhos/cm		06/13/23 11:20	1		06/13/23 11:20	FIELD	Field*
Temperature, Field Measured	18.0	°C		06/13/23 11:20	1		06/13/23 11:20	FIELD	Field*
Turbidity, Field Measured	10.4	NTU		06/13/23 11:20	1	0.00	06/13/23 11:20	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	1000	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1000	mg/L		06/14/23 13:42	1	26	06/14/23 13:42	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 09:17	JMW	EPA 6020A
Arsenic	7.8	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Barium	800	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Boron	180	ug/L		06/15/23 07:26	5	10	06/26/23 09:17	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Calcium	180	mg/L		06/15/23 07:26	5	0.20	06/26/23 09:17	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 09:17	JMW	EPA 6020A
Cobalt	2.0	ug/L		06/15/23 07:26	5	2.0	06/26/23 09:17	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Magnesium	70	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:17	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 09:17	JMW	EPA 6020A
Molybdenum	3.9	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Potassium	2.3	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:17	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Sodium	150	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:17	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02086-09  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 11:20  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:17	JMW	EPA 6020A
Lithium	< 20	ug/L		06/15/23 07:26	1	20	06/20/23 12:53	TJJ	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GF02086-10  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 15:20  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	53	mg/L		06/14/23 18:07	10	10	06/14/23 18:07	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/14/23 17:49	1	0.250	06/14/23 17:49	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/14/23 17:49	1	1.0	06/14/23 17:49	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	25.38	Feet		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Dissolved oxygen, Field	0.69	mg/L		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Oxidation Reduction Potential	-111	mV		06/13/23 15:20	1	-500	06/13/23 15:20	FIELD	Field*
pH, Field Measured	7.05	pH Units		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Specific Conductance, Field Measured	1910	umhos/cm		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Temperature, Field Measured	17.0	°C		06/13/23 15:20	1		06/13/23 15:20	FIELD	Field*
Turbidity, Field Measured	124	NTU		06/13/23 15:20	1	0.00	06/13/23 15:20	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	880	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		06/14/23 13:42	1	26	06/14/23 13:42	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/15/23 07:26	5	3.0	06/26/23 09:21	JMW	EPA 6020A
Arsenic	4.5	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Barium	1100	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Boron	400	ug/L		06/15/23 07:26	5	10	06/26/23 09:21	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Calcium	110	mg/L		06/15/23 07:26	5	0.20	06/26/23 09:21	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/15/23 07:26	5	4.0	06/26/23 09:21	JMW	EPA 6020A
Cobalt	2.5	ug/L		06/15/23 07:26	5	2.0	06/26/23 09:21	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Magnesium	44	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:21	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/15/23 07:26	5	0.20	06/26/23 09:21	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Potassium	4.3	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:21	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Sodium	220	mg/L		06/15/23 07:26	5	0.10	06/26/23 09:21	JMW	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GF02086-10  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 15:20  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/15/23 07:26	5	1.0	06/26/23 09:21	JMW	EPA 6020A
Lithium	31	ug/L		06/15/23 07:26	1	20	06/20/23 12:55	TJJ	EPA 6010B

**Sample:** GF02086-11  
**Name:** XPW02  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 12:06  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Field - PIA**

Depth, From Measuring Point	22.13	Feet		06/13/23 12:06	1		06/13/23 12:06	FIELD	Field*
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**Sample:** GF02086-12  
**Name:** XPW03  
**Matrix:** Ground Water - Grab

**Sampled:** 06/13/23 13:38  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Field - PIA**

Depth, From Measuring Point	18.22	Feet		06/13/23 13:38	1		06/13/23 13:38	FIELD	Field*
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**Sample:** GF02086-13  
**Name:** SG01  
**Matrix:** Ground Water - Grab

**Sampled:** 06/12/23 11:06  
**Received:** 06/13/23 06:30  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Field - PIA**

Depth, From Measuring Point	441.5	Feet		06/12/23 11:06	1		06/12/23 11:06	GJS	Field*
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### ANALYTICAL RESULTS

**Sample:** GF02645-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 10:34  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	46	mg/L	Q4	06/15/23 10:50	10	10	06/15/23 10:50	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/15/23 09:55	1	0.250	06/15/23 09:55	CRD	EPA 300.0 REV 2.1
Sulfate	3.1	mg/L		06/15/23 09:55	1	1.0	06/15/23 09:55	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	5.71	Feet		06/14/23 10:34	1		06/14/23 10:34	FIELD	Field*
Dissolved oxygen, Field	0.060	mg/L		06/14/23 10:34	1		06/14/23 10:34	FIELD	Field*
Oxidation Reduction Potential	-151	mV		06/14/23 10:34	1	-500	06/14/23 10:34	FIELD	Field*
pH, Field Measured	6.85	pH Units		06/14/23 10:34	1		06/14/23 10:34	FIELD	Field*
Specific Conductance, Field Measured	1699	umhos/cm		06/14/23 10:34	1		06/14/23 10:34	FIELD	Field*
Temperature, Field Measured	18.5	°C		06/14/23 10:34	1		06/14/23 10:34	FIELD	Field*
Turbidity, Field Measured	1900	NTU		06/14/23 10:34	1	0.00	06/14/23 10:34	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	850	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1400	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 09:22	JMW	EPA 6020A
Arsenic	3.6	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Barium	1100	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Boron	330	ug/L		06/22/23 08:49	5	10	06/28/23 09:22	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Calcium	110	mg/L	Q4	06/22/23 08:49	5	0.20	06/28/23 09:22	JMW	EPA 6020A
Chromium	8.6	ug/L		06/22/23 08:49	5	4.0	06/28/23 09:22	JMW	EPA 6020A
Cobalt	5.2	ug/L		06/22/23 08:49	5	2.0	06/28/23 09:22	JMW	EPA 6020A
Lead	5.1	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Magnesium	50	mg/L	Q4	06/22/23 08:49	5	0.10	06/28/23 09:22	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 09:22	JMW	EPA 6020A
Molybdenum	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Potassium	4.5	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:22	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Sodium	200	mg/L	Q4	06/22/23 08:49	5	0.10	06/28/23 09:22	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02645-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 10:34  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:22	JMW	EPA 6020A
Lithium	35	ug/L		06/22/23 08:49	1	20	06/27/23 12:09	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GF02645-02  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 12:35  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	10	mg/L		06/17/23 03:50	5	5.0	06/17/23 03:50	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/15/23 12:20	1	0.250	06/15/23 12:20	CRD	EPA 300.0 REV 2.1
Sulfate	52	mg/L		06/15/23 12:38	10	10	06/15/23 12:38	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	10.02	Feet		06/14/23 12:35	1		06/14/23 12:35	FIELD	Field*
Dissolved oxygen, Field	0.15	mg/L		06/14/23 12:35	1		06/14/23 12:35	FIELD	Field*
Oxidation Reduction Potential	-72.0	mV		06/14/23 12:35	1	-500	06/14/23 12:35	FIELD	Field*
pH, Field Measured	6.82	pH Units		06/14/23 12:35	1		06/14/23 12:35	FIELD	Field*
Specific Conductance, Field Measured	1275	umhos/cm		06/14/23 12:35	1		06/14/23 12:35	FIELD	Field*
Temperature, Field Measured	18.2	°C		06/14/23 12:35	1		06/14/23 12:35	FIELD	Field*
Turbidity, Field Measured	196	NTU		06/14/23 12:35	1	0.00	06/14/23 12:35	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	720	mg/L		06/21/23 14:18	1	10	06/21/23 14:18	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/21/23 14:18	1	10	06/21/23 14:18	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	780	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 09:26	JMW	EPA 6020A
Arsenic	6.3	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Barium	140	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Boron	72	ug/L		06/22/23 08:49	5	10	06/28/23 09:26	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Calcium	180	mg/L		06/22/23 08:49	5	0.20	06/28/23 09:26	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 09:26	JMW	EPA 6020A
Cobalt	3.4	ug/L		06/22/23 08:49	5	2.0	06/28/23 09:26	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Magnesium	78	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:26	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 09:26	JMW	EPA 6020A
Molybdenum	3.4	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Potassium	0.30	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:26	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Sodium	18	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:26	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02645-02  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 12:35  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:26	JMW	EPA 6020A
Lithium	< 20	ug/L		06/22/23 08:49	1	20	06/27/23 12:12	BRS	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GF02645-03  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 10:33  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	35	mg/L		06/15/23 15:03	10	10	06/15/23 15:03	CRD	EPA 300.0 REV 2.1
Fluoride	0.319	mg/L		06/15/23 14:45	1	0.250	06/15/23 14:45	CRD	EPA 300.0 REV 2.1
Sulfate	21	mg/L		06/15/23 15:03	10	10	06/15/23 15:03	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	27.62	Feet		06/14/23 10:33	1		06/14/23 10:33	FIELD	Field*
Dissolved oxygen, Field	1.4	mg/L		06/14/23 10:33	1		06/14/23 10:33	FIELD	Field*
Oxidation Reduction Potential	-99.0	mV		06/14/23 10:33	1	-500	06/14/23 10:33	FIELD	Field*
pH, Field Measured	7.09	pH Units		06/14/23 10:33	1		06/14/23 10:33	FIELD	Field*
Specific Conductance, Field Measured	1030	umhos/cm		06/14/23 10:33	1		06/14/23 10:33	FIELD	Field*
Temperature, Field Measured	16.2	°C		06/14/23 10:33	1		06/14/23 10:33	FIELD	Field*
Turbidity, Field Measured	340	NTU		06/14/23 10:33	1	0.00	06/14/23 10:33	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	500	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	600	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 09:30	JMW	EPA 6020A
Arsenic	3.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Barium	160	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Boron	120	ug/L		06/22/23 08:49	5	10	06/28/23 09:30	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Calcium	100	mg/L		06/22/23 08:49	5	0.20	06/28/23 09:30	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 09:30	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/22/23 08:49	5	2.0	06/28/23 09:30	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Magnesium	45	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:30	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 09:30	JMW	EPA 6020A
Molybdenum	4.9	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Potassium	0.78	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:30	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Sodium	59	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:30	JMW	EPA 6020A





### ANALYTICAL RESULTS

**Sample:** GF02645-03  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 10:33  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:30	JMW	EPA 6020A
Lithium	< 20	ug/L		06/22/23 08:49	1	20	06/27/23 12:14	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GF02645-04  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 14:24  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	16	mg/L		06/15/23 16:15	5	5.0	06/15/23 16:15	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/15/23 16:15	1	0.250	06/15/23 16:15	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		06/15/23 15:57	1	1.0	06/15/23 15:57	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	23.92	Feet		06/14/23 14:24	1		06/14/23 14:24	FIELD	Field*
Dissolved oxygen, Field	8.2	mg/L		06/14/23 14:24	1		06/14/23 14:24	FIELD	Field*
Oxidation Reduction Potential	-141	mV		06/14/23 14:24	1	-500	06/14/23 14:24	FIELD	Field*
pH, Field Measured	7.09	pH Units		06/14/23 14:24	1		06/14/23 14:24	FIELD	Field*
Specific Conductance, Field Measured	1353	umhos/cm		06/14/23 14:24	1		06/14/23 14:24	FIELD	Field*
Temperature, Field Measured	19.4	°C		06/14/23 14:24	1		06/14/23 14:24	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		06/14/23 14:24	1	0.00	06/14/23 14:24	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	710	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	660	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 09:33	JMW	EPA 6020A
Arsenic	10	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Barium	190	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Boron	92	ug/L		06/22/23 08:49	5	10	06/28/23 09:33	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Calcium	140	mg/L		06/22/23 08:49	5	0.20	06/28/23 09:33	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 09:33	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/22/23 08:49	5	2.0	06/28/23 09:33	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Magnesium	59	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:33	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 09:33	JMW	EPA 6020A
Molybdenum	1.6	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Potassium	1.5	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:33	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Sodium	61	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:33	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02645-04  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 14:24  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:33	JMW	EPA 6020A
Lithium	< 20	ug/L		06/22/23 08:49	1	20	06/27/23 12:15	BRS	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GF02645-05  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 12:08  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	97	mg/L		06/15/23 18:04	10	10	06/15/23 18:04	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/15/23 17:46	1	0.250	06/15/23 17:46	CRD	EPA 300.0 REV 2.1
Sulfate	7.7	mg/L		06/15/23 17:46	1	1.0	06/15/23 17:46	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	28.14	Feet		06/14/23 12:08	1		06/14/23 12:08	FIELD	Field*
Dissolved oxygen, Field	1.7	mg/L		06/14/23 12:08	1		06/14/23 12:08	FIELD	Field*
Oxidation Reduction Potential	-105	mV		06/14/23 12:08	1	-500	06/14/23 12:08	FIELD	Field*
pH, Field Measured	6.73	pH Units		06/14/23 12:08	1		06/14/23 12:08	FIELD	Field*
Specific Conductance, Field Measured	1790	umhos/cm		06/14/23 12:08	1		06/14/23 12:08	FIELD	Field*
Temperature, Field Measured	17.5	°C		06/14/23 12:08	1		06/14/23 12:08	FIELD	Field*
Turbidity, Field Measured	218	NTU		06/14/23 12:08	1	0.00	06/14/23 12:08	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	800	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	930	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 09:37	JMW	EPA 6020A
Arsenic	3.3	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Barium	1300	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Boron	1300	ug/L		06/22/23 08:49	5	10	06/28/23 09:37	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Calcium	120	mg/L		06/22/23 08:49	5	0.20	06/28/23 09:37	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 09:37	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/22/23 08:49	5	2.0	06/28/23 09:37	JMW	EPA 6020A
Lead	1.1	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Magnesium	52	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:37	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 09:37	JMW	EPA 6020A
Molybdenum	2.6	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Potassium	3.5	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:37	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Sodium	170	mg/L		06/22/23 08:49	5	0.10	06/28/23 09:37	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02645-05  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 12:08  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 09:37	JMW	EPA 6020A
Lithium	22	ug/L		06/22/23 08:49	1	20	06/27/23 12:16	BRS	EPA 6010B





**ANALYTICAL RESULTS**

**Sample:** GF02645-06  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 13:40  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	82	mg/L		06/15/23 19:16	10	10	06/15/23 19:16	CRD	EPA 300.0 REV 2.1
Fluoride	0.266	mg/L		06/15/23 18:58	1	0.250	06/15/23 18:58	CRD	EPA 300.0 REV 2.1
Sulfate	52	mg/L		06/15/23 19:16	10	10	06/15/23 19:16	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	14.7	Feet		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Dissolved oxygen, Field	2.3	mg/L		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Oxidation Reduction Potential	-52.0	mV		06/14/23 13:40	1	-500	06/14/23 13:40	FIELD	Field*
pH, Field Measured	6.94	pH Units		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Specific Conductance, Field Measured	1110	umhos/cm		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Temperature, Field Measured	17.0	°C		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Turbidity, Field Measured	27.9	NTU		06/14/23 13:40	1	0.00	06/14/23 13:40	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	490	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	620	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 10:17	JMW	EPA 6020A
Arsenic	15	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Barium	200	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Boron	2300	ug/L		06/22/23 08:49	5	10	06/28/23 10:17	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Calcium	120	mg/L		06/22/23 08:49	5	0.20	06/28/23 10:17	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 10:17	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/22/23 08:49	5	2.0	06/28/23 10:17	JMW	EPA 6020A
Lead	1.7	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Magnesium	55	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:17	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 10:17	JMW	EPA 6020A
Molybdenum	3.9	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Potassium	1.2	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:17	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Sodium	54	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:17	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02645-06  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 13:40  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:17	JMW	EPA 6020A
Lithium	< 20	ug/L		06/22/23 08:49	1	20	06/27/23 12:17	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GF02645-07  
**Name:** AW-19 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 06/14/23 13:40  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	79	mg/L		06/15/23 21:04	10	10	06/15/23 21:04	CRD	EPA 300.0 REV 2.1
Fluoride	0.263	mg/L		06/15/23 20:46	1	0.250	06/15/23 20:46	CRD	EPA 300.0 REV 2.1
Sulfate	51	mg/L		06/15/23 21:04	10	10	06/15/23 21:04	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	14.7	Feet		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Dissolved oxygen, Field	2.3	mg/L		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Oxidation Reduction Potential	-52.0	mV		06/14/23 13:40	1	-500	06/14/23 13:40	FIELD	Field*
pH, Field Measured	6.94	pH Units		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Specific Conductance, Field Measured	1110	umhos/cm		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Temperature, Field Measured	17.0	°C		06/14/23 13:40	1		06/14/23 13:40	FIELD	Field*
Turbidity, Field Measured	27.9	NTU		06/14/23 13:40	1	0.00	06/14/23 13:40	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	480	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	760	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 10:21	JMW	EPA 6020A
Arsenic	16	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Barium	200	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Boron	2300	ug/L		06/22/23 08:49	5	10	06/28/23 10:21	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Calcium	120	mg/L		06/22/23 08:49	5	0.20	06/28/23 10:21	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 10:21	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/22/23 08:49	5	2.0	06/28/23 10:21	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Magnesium	55	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:21	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 10:21	JMW	EPA 6020A
Molybdenum	3.8	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Potassium	0.94	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:21	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Sodium	54	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:21	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02645-07  
**Name:** AW-19 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 06/14/23 13:40  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:21	JMW	EPA 6020A
Lithium	< 20	ug/L		06/22/23 08:49	1	20	06/27/23 12:21	BRS	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GF02645-08  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 15:40  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	97	mg/L		06/15/23 22:17	10	10	06/15/23 22:17	CRD	EPA 300.0 REV 2.1
Fluoride	0.312	mg/L		06/15/23 21:59	1	0.250	06/15/23 21:59	CRD	EPA 300.0 REV 2.1
Sulfate	240	mg/L		06/15/23 22:35	100	100	06/15/23 22:35	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	18.48	Feet		06/14/23 15:40	1		06/14/23 15:40	FIELD	Field*
Dissolved oxygen, Field	2.7	mg/L		06/14/23 15:40	1		06/14/23 15:40	FIELD	Field*
Oxidation Reduction Potential	-28.0	mV		06/14/23 15:40	1	-500	06/14/23 15:40	FIELD	Field*
pH, Field Measured	7.12	pH Units		06/14/23 15:40	1		06/14/23 15:40	FIELD	Field*
Specific Conductance, Field Measured	983.0	umhos/cm		06/14/23 15:40	1		06/14/23 15:40	FIELD	Field*
Temperature, Field Measured	17.4	°C		06/14/23 15:40	1		06/14/23 15:40	FIELD	Field*
Turbidity, Field Measured	6.40	NTU		06/14/23 15:40	1	0.00	06/14/23 15:40	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	190	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		06/16/23 11:42	1	10	06/16/23 11:42	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	680	mg/L		06/15/23 13:34	1	26	06/15/23 13:34	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/22/23 08:49	5	3.0	06/28/23 10:24	JMW	EPA 6020A
Arsenic	1.8	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Barium	59	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Boron	8700	ug/L		06/22/23 08:49	5	10	06/28/23 10:24	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Calcium	110	mg/L		06/22/23 08:49	5	0.20	06/28/23 10:24	JMW	EPA 6020A
Chromium	< 4.0	ug/L		06/22/23 08:49	5	4.0	06/28/23 10:24	JMW	EPA 6020A
Cobalt	< 2.0	ug/L		06/22/23 08:49	5	2.0	06/28/23 10:24	JMW	EPA 6020A
Lead	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Magnesium	36	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:24	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/22/23 08:49	5	0.20	06/28/23 10:24	JMW	EPA 6020A
Molybdenum	17	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Potassium	2.0	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:24	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Sodium	55	mg/L		06/22/23 08:49	5	0.10	06/28/23 10:24	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02645-08  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 06/14/23 15:40  
**Received:** 06/14/23 16:54  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/22/23 08:49	5	1.0	06/28/23 10:24	JMW	EPA 6020A
Lithium	< 20	ug/L		06/22/23 08:49	1	20	06/27/23 12:22	BRS	EPA 6010B





## ANALYTICAL RESULTS

**Sample:** GF02896-01  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 06/15/23 11:03  
**Received:** 06/15/23 15:22  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	76	mg/L	Q4	06/15/23 19:37	25	25	06/15/23 19:37	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/15/23 18:43	1	0.250	06/15/23 18:43	CRD	EPA 300.0 REV 2.1
Sulfate	480	mg/L		06/17/23 05:05	50	50	06/17/23 05:05	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	25.61	Feet		06/15/23 11:03	1		06/15/23 11:03	FIELD	Field*
Dissolved oxygen, Field	2.0	mg/L		06/15/23 11:03	1		06/15/23 11:03	FIELD	Field*
Oxidation Reduction Potential	61.5	mV		06/15/23 11:03	1	-500	06/15/23 11:03	FIELD	Field*
pH, Field Measured	6.82	pH Units		06/15/23 11:03	1		06/15/23 11:03	FIELD	Field*
Specific Conductance, Field Measured	1439	umhos/cm		06/15/23 11:03	1		06/15/23 11:03	FIELD	Field*
Temperature, Field Measured	20.6	°C		06/15/23 11:03	1		06/15/23 11:03	FIELD	Field*
Turbidity, Field Measured	901	NTU		06/15/23 11:03	1	0.00	06/15/23 11:03	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	490	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1600	mg/L		06/16/23 13:34	1	26	06/16/23 13:34	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/23/23 11:12	5	3.0	06/28/23 12:25	JMW	EPA 6020A
Arsenic	1.1	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Barium	110	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Boron	18000	ug/L	Q4	06/23/23 11:12	100	200	06/28/23 13:15	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Calcium	240	mg/L		06/23/23 11:12	5	0.20	06/28/23 12:25	JMW	EPA 6020A
Chromium	13	ug/L		06/23/23 11:12	5	4.0	06/28/23 12:25	JMW	EPA 6020A
Cobalt	4.3	ug/L		06/23/23 11:12	5	2.0	06/28/23 12:25	JMW	EPA 6020A
Lead	3.2	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Magnesium	93	mg/L	Q4	06/23/23 11:12	5	0.10	06/28/23 12:25	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/23/23 11:12	5	0.20	06/28/23 12:25	JMW	EPA 6020A
Molybdenum	1.2	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Potassium	1.2	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:25	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Sodium	73	mg/L	Q4	06/23/23 11:12	5	0.10	06/28/23 12:25	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02896-01  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 06/15/23 11:03  
**Received:** 06/15/23 15:22  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:25	JMW	EPA 6020A
Lithium	< 20	ug/L		06/23/23 11:12	1	20	06/27/23 12:32	BRS	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GF02896-02  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 06/15/23 11:31  
**Received:** 06/15/23 15:22  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	71	mg/L		06/15/23 21:25	10	10	06/15/23 21:25	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		06/15/23 21:07	1	0.250	06/15/23 21:07	CRD	EPA 300.0 REV 2.1
Sulfate	350	mg/L		06/15/23 22:20	100	100	06/15/23 22:20	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	9.2	Feet		06/15/23 11:31	1		06/15/23 11:31	FIELD	Field*
Dissolved oxygen, Field	0.27	mg/L		06/15/23 11:31	1		06/15/23 11:31	FIELD	Field*
Oxidation Reduction Potential	95.0	mV		06/15/23 11:31	1	-500	06/15/23 11:31	FIELD	Field*
pH, Field Measured	6.96	pH Units		06/15/23 11:31	1		06/15/23 11:31	FIELD	Field*
Specific Conductance, Field Measured	1550	umhos/cm		06/15/23 11:31	1		06/15/23 11:31	FIELD	Field*
Temperature, Field Measured	23.9	°C		06/15/23 11:31	1		06/15/23 11:31	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		06/15/23 11:31	1	0.00	06/15/23 11:31	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	410	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		06/27/23 12:04	1	2.0	06/27/23 12:04	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		06/16/23 13:34	1	26	06/16/23 13:34	MKH	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		06/23/23 11:12	5	3.0	06/28/23 12:29	JMW	EPA 6020A
Arsenic	4.5	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Barium	160	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Boron	3600	ug/L		06/23/23 11:12	5	10	06/28/23 12:29	JMW	EPA 6020A
Cadmium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Calcium	170	mg/L		06/23/23 11:12	5	0.20	06/28/23 12:29	JMW	EPA 6020A
Chromium	10	ug/L		06/23/23 11:12	5	4.0	06/28/23 12:29	JMW	EPA 6020A
Cobalt	6.4	ug/L		06/23/23 11:12	5	2.0	06/28/23 12:29	JMW	EPA 6020A
Lead	4.4	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Magnesium	82	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:29	JMW	EPA 6020A
Mercury	< 0.20	ug/L		06/23/23 11:12	5	0.20	06/28/23 12:29	JMW	EPA 6020A
Molybdenum	2.3	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Potassium	2.0	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:29	JMW	EPA 6020A
Selenium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Sodium	74	mg/L		06/23/23 11:12	5	0.10	06/28/23 12:29	JMW	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GF02896-02  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 06/15/23 11:31  
**Received:** 06/15/23 15:22  
**PO #:** 1940007191

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		06/23/23 11:12	5	1.0	06/28/23 12:29	JMW	EPA 6020A
Lithium	< 20	ug/L		06/23/23 11:12	1	20	06/27/23 12:38	BRS	EPA 6010B



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B335919 - No Prep - SM 2540C</u></b>									
<b>Blank (B335919-BLK1)</b>				Prepared & Analyzed: 06/13/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B335919-BS1)</b>				Prepared & Analyzed: 06/13/23					
Solids - total dissolved solids (TDS)	1050	mg/L		1000		105	84.9-109		
<b>Duplicate (B335919-DUP2)</b>				Sample: GF02086-01 Prepared & Analyzed: 06/13/23					
Solids - total dissolved solids (TDS)	755	mg/L			790			5	5
<b><u>Batch B335988 - No Prep - SM 2540C</u></b>									
<b>Blank (B335988-BLK1)</b>				Prepared & Analyzed: 06/14/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B335988-BS1)</b>				Prepared & Analyzed: 06/14/23					
Solids - total dissolved solids (TDS)	943	mg/L		1000		94	84.9-109		
<b>Duplicate (B335988-DUP1)</b>				Sample: GF02086-11 Prepared & Analyzed: 06/14/23					
Solids - total dissolved solids (TDS)	2560	mg/L			2580			0.8	5
<b><u>Batch B336023 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B336023-MS1)</b>				Sample: GF02086-01 Prepared & Analyzed: 06/13/23					
Sulfate	1.63	mg/L		1.500	ND	109	80-120		
Chloride	< 1.0	mg/L	Q1	1.500	29	NR	80-120		
<b>Matrix Spike Dup (B336023-MSD1)</b>				Sample: GF02086-01 Prepared & Analyzed: 06/13/23					
Sulfate	1.73	mg/L		1.500	ND	115	80-120	6	20
Chloride	< 1.0	mg/L	Q2	1.500	29	NR	80-120		20
Fluoride	1.53	mg/L		1.500	ND	102	80-120	2	20
<b><u>Batch B336099 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B336099-BLK1)</b>				Prepared: 06/15/23 Analyzed: 06/20/23					
Lithium	< 20	ug/L							
<b>LCS (B336099-BS1)</b>				Prepared: 06/15/23 Analyzed: 06/20/23					
Lithium	590	ug/L		555.6		106	80-120		
<b>Matrix Spike (B336099-MS1)</b>				Sample: GF02086-11 Prepared: 06/15/23 Analyzed: 06/20/23					
Lithium	850	ug/L		555.6	288	101	75-125		
<b>Matrix Spike Dup (B336099-MSD1)</b>				Sample: GF02086-11 Prepared: 06/15/23 Analyzed: 06/20/23					
Lithium	869	ug/L		555.6	288	105	75-125	2	20
<b><u>Batch B336099 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B336099-BLK1)</b>				Prepared: 06/15/23 Analyzed: 06/26/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Blank (B336099-BLK1)</b>				Prepared: 06/15/23 Analyzed: 06/26/23					
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
<b>LCS (B336099-BS1)</b>				Prepared: 06/15/23 Analyzed: 06/26/23					
Antimony	579	ug/L		555.6		104	80-120		
Arsenic	584	ug/L		555.6		105	80-120		
Barium	577	ug/L		555.6		104	80-120		
Beryllium	547	ug/L		555.6		98	80-120		
Boron	521	ug/L		555.6		94	80-120		
Cadmium	591	ug/L		555.6		106	80-120		
Calcium	6.01	mg/L		5.556		108	80-120		
Chromium	599	ug/L		555.6		108	80-120		
Cobalt	587	ug/L		555.6		106	80-120		
Lead	587	ug/L		555.6		106	80-120		
Magnesium	6.04	mg/L		5.556		109	80-120		
Mercury	56.0	ug/L		55.56		101	80-120		
Molybdenum	576	ug/L		555.6		104	80-120		
Potassium	5.85	mg/L		5.556		105	80-120		
Selenium	587	ug/L		555.6		106	80-120		
Sodium	5.91	mg/L		5.556		106	80-120		
Thallium	581	ug/L		555.6		105	80-120		
<b>Matrix Spike (B336099-MS1)</b>				Sample: GF02086-11		Prepared: 06/15/23 Analyzed: 06/26/23			
Antimony	561	ug/L		555.6	2.71	100	75-125		
Arsenic	738	ug/L		555.6	171	102	75-125		
Barium	568	ug/L		555.6	17.8	99	75-125		
Beryllium	527	ug/L		555.6	ND	95	75-125		
Boron	14300	ug/L	E, Q4	555.6	17200	NR	75-125		
Cadmium	569	ug/L		555.6	1.63	102	75-125		
Calcium	41.4	mg/L		5.556	35.6	103	75-125		
Chromium	564	ug/L		555.6	ND	102	75-125		
Cobalt	553	ug/L		555.6	ND	100	75-125		
Lead	546	ug/L		555.6	ND	98	75-125		
Magnesium	5.74	mg/L		5.556	0.0375	103	75-125		
Mercury	56.8	ug/L		55.56	0.189	102	75-125		
Molybdenum	3590	ug/L		555.6	3160	79	75-125		
Potassium	120	mg/L	Q4	5.556	118	39	75-125		
Selenium	726	ug/L		555.6	182	98	75-125		
Sodium	727	mg/L	E, Q4	5.556	1120	NR	75-125		
Thallium	535	ug/L		555.6	ND	96	75-125		
<b>Matrix Spike Dup (B336099-MSD1)</b>				Sample: GF02086-11		Prepared: 06/15/23 Analyzed: 06/26/23			
Antimony	568	ug/L		555.6	2.71	102	75-125	1	20
Arsenic	738	ug/L		555.6	171	102	75-125	0.04	20
Barium	577	ug/L		555.6	17.8	101	75-125	1	20





**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike Dup (B336099-MSD1)</b>				Sample: GF02086-11		Prepared: 06/15/23 Analyzed: 06/26/23			
Beryllium	531	ug/L		555.6	ND	96	75-125	0.8	20
Boron	14500	ug/L	E, Q4	555.6	17200	NR	75-125	2	20
Cadmium	570	ug/L		555.6	1.63	102	75-125	0.1	20
Calcium	41.5	mg/L		5.556	35.6	105	75-125	0.3	20
Chromium	564	ug/L		555.6	ND	102	75-125	0.05	20
Cobalt	555	ug/L		555.6	ND	100	75-125	0.3	20
Lead	551	ug/L		555.6	ND	99	75-125	0.9	20
Magnesium	5.76	mg/L		5.556	0.0375	103	75-125	0.4	20
Mercury	57.2	ug/L		55.56	0.189	103	75-125	0.7	20
Molybdenum	3610	ug/L		555.6	3160	82	75-125	0.5	20
Potassium	121	mg/L	Q4	5.556	118	43	75-125	0.2	20
Selenium	728	ug/L		555.6	182	98	75-125	0.1	20
Sodium	731	mg/L	E, Q4	5.556	1120	NR	75-125	0.6	20
Thallium	541	ug/L		555.6	ND	97	75-125	1	20
<b><u>Batch B336128 - No Prep - SM 2540C</u></b>									
<b>Blank (B336128-BLK1)</b>				Prepared & Analyzed: 06/15/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B336128-BS1)</b>				Prepared & Analyzed: 06/15/23					
Solids - total dissolved solids (TDS)	983	mg/L		1000		98	84.9-109		
<b>Duplicate (B336128-DUP1)</b>				Sample: GF02645-01		Prepared & Analyzed: 06/15/23			
Solids - total dissolved solids (TDS)	1370	mg/L			1360			1	5
<b><u>Batch B336170 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B336170-MS1)</b>				Sample: GF02086-11		Prepared & Analyzed: 06/14/23			
Chloride	< 1.0	mg/L	Q4	1.500	120	NR	80-120		
<b>Matrix Spike Dup (B336170-MSD1)</b>				Sample: GF02086-11		Prepared & Analyzed: 06/14/23			
Chloride	< 1.0	mg/L	Q4	1.500	120	NR	80-120		20
<b><u>Batch B336245 - No Prep - SM 2540C</u></b>									
<b>Blank (B336245-BLK1)</b>				Prepared & Analyzed: 06/16/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B336245-BS1)</b>				Prepared & Analyzed: 06/16/23					
Solids - total dissolved solids (TDS)	1000	mg/L		1000		100	84.9-109		
<b>Duplicate (B336245-DUP1)</b>				Sample: GF02896-01		Prepared & Analyzed: 06/16/23			
Solids - total dissolved solids (TDS)	1520	mg/L			1550			2	5
<b>Duplicate (B336245-DUP2)</b>				Sample: GF02896-07		Prepared & Analyzed: 06/16/23			
Solids - total dissolved solids (TDS)	15.0	mg/L			15.0			0	5
<b><u>Batch B336274 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B336274-MS3)</b>				Sample: GF02645-01		Prepared & Analyzed: 06/15/23			
Sulfate	4.91	mg/L		1.500	3.14	118	80-120		
Chloride	< 1.0	mg/L	Q4	1.500	46	NR	80-120		
Fluoride	1.44	mg/L		1.500	ND	96	80-120		
<b>Matrix Spike Dup (B336274-MSD3)</b>				Sample: GF02645-01		Prepared & Analyzed: 06/15/23			
Chloride	< 1.0	mg/L	Q4	1.500	46	NR	80-120		20
Fluoride	1.45	mg/L		1.500	ND	96	80-120	0.2	20



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike Dup (B336274-MSD3)</b>				Sample: GF02645-01		Prepared & Analyzed: 06/15/23			
Sulfate	4.87	mg/L		1.500	3.14	115	80-120	0.8	20
<b><u>Batch B336277 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B336277-MS1)</b>				Sample: GF02896-01		Prepared & Analyzed: 06/15/23			
Fluoride	1.60	mg/L		1.500	0.151	97	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	76	NR	80-120		
<b>Matrix Spike Dup (B336277-MSD1)</b>				Sample: GF02896-01		Prepared & Analyzed: 06/15/23			
Fluoride	1.56	mg/L		1.500	0.151	94	80-120	2	20
Chloride	1.0E9	mg/L	Q4	1.500	76	NR	80-120	0	20
<b><u>Batch B336326 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B336326-DUP1)</b>				Sample: GF02086-01		Prepared & Analyzed: 06/16/23			
Alkalinity - bicarbonate as CaCO3	775	mg/L			788			2	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
<b>Duplicate (B336326-DUP2)</b>				Sample: GF02086-06		Prepared & Analyzed: 06/16/23			
Alkalinity - bicarbonate as CaCO3	1100	mg/L			1040			6	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
<b>Duplicate (B336326-DUP3)</b>				Sample: GF02086-11		Prepared & Analyzed: 06/16/23			
Alkalinity - carbonate as CaCO3	200	mg/L			200			0	10
Alkalinity - bicarbonate as CaCO3	< 10	mg/L			ND				10
<b>Duplicate (B336326-DUP4)</b>				Sample: GF02645-01		Prepared & Analyzed: 06/16/23			
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	850	mg/L			850			0	10
<b><u>Batch B336438 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B336438-MS3)</b>				Sample: GF02896-07		Prepared & Analyzed: 06/16/23			
Chloride	1.0E9	mg/L	Q4	1.500	23	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	122	NR	80-120		
<b>Matrix Spike Dup (B336438-MSD3)</b>				Sample: GF02896-07		Prepared & Analyzed: 06/16/23			
Chloride	1.0E9	mg/L	Q4	1.500	23	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	122	NR	80-120	0	20
<b><u>Batch B336745 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B336745-BLK1)</b>				Prepared: 06/22/23 Analyzed: 06/27/23					
Lithium	< 20	ug/L							
<b>LCS (B336745-BS1)</b>				Prepared: 06/22/23 Analyzed: 06/27/23					
Lithium	594	ug/L		555.6		107	80-120		
<b>Matrix Spike (B336745-MS1)</b>				Sample: GF02645-01		Prepared: 06/22/23 Analyzed: 06/27/23			
Lithium	588	ug/L		555.6	34.6	100	75-125		
<b>Matrix Spike Dup (B336745-MSD1)</b>				Sample: GF02645-01		Prepared: 06/22/23 Analyzed: 06/27/23			
Lithium	586	ug/L		555.6	34.6	99	75-125	0.3	20
<b><u>Batch B336745 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B336745-BLK1)</b>				Prepared: 06/22/23 Analyzed: 06/28/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Blank (B336745-BLK1)</b>				Prepared: 06/22/23 Analyzed: 06/28/23					
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
<b>LCS (B336745-BS1)</b>				Prepared: 06/22/23 Analyzed: 06/28/23					
Antimony	545	ug/L		555.6		98	80-120		
Arsenic	559	ug/L		555.6		101	80-120		
Barium	549	ug/L		555.6		99	80-120		
Beryllium	512	ug/L		555.6		92	80-120		
Boron	484	ug/L		555.6		87	80-120		
Cadmium	544	ug/L		555.6		98	80-120		
Calcium	5.81	mg/L		5.556		105	80-120		
Chromium	553	ug/L		555.6		100	80-120		
Cobalt	545	ug/L		555.6		98	80-120		
Lead	528	ug/L		555.6		95	80-120		
Magnesium	5.96	mg/L		5.556		107	80-120		
Mercury	52.5	ug/L		55.56		95	80-120		
Molybdenum	536	ug/L		555.6		96	80-120		
Potassium	5.69	mg/L		5.556		102	80-120		
Selenium	566	ug/L		555.6		102	80-120		
Sodium	5.90	mg/L		5.556		106	80-120		
Thallium	528	ug/L		555.6		95	80-120		
<b>Matrix Spike (B336745-MS1)</b>				Sample: GF02645-01		Prepared: 06/22/23 Analyzed: 06/28/23			
Antimony	517	ug/L		555.6	ND	93	75-125		
Arsenic	543	ug/L		555.6	3.55	97	75-125		
Barium	1610	ug/L		555.6	1110	90	75-125		
Beryllium	514	ug/L		555.6	ND	92	75-125		
Boron	798	ug/L		555.6	334	84	75-125		
Cadmium	541	ug/L		555.6	ND	97	75-125		
Calcium	114	mg/L	Q4	5.556	113	6	75-125		
Chromium	548	ug/L		555.6	8.61	97	75-125		
Cobalt	541	ug/L		555.6	5.15	97	75-125		
Lead	520	ug/L		555.6	5.06	93	75-125		
Magnesium	53.0	mg/L	Q4	5.556	49.9	55	75-125		
Mercury	53.9	ug/L		55.56	ND	97	75-125		
Molybdenum	540	ug/L		555.6	0.789	97	75-125		
Potassium	10.0	mg/L		5.556	4.46	100	75-125		



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike (B336745-MS1)</b>				Sample: GF02645-01		Prepared: 06/22/23 Analyzed: 06/28/23			
Selenium	549	ug/L		555.6	ND	99	75-125		
Sodium	190	mg/L	Q4	5.556	196	NR	75-125		
Thallium	517	ug/L		555.6	ND	93	75-125		
<b>Matrix Spike Dup (B336745-MSD1)</b>				Sample: GF02645-01		Prepared: 06/22/23 Analyzed: 06/28/23			
Antimony	513	ug/L		555.6	ND	92	75-125	0.9	20
Arsenic	539	ug/L		555.6	3.55	96	75-125	0.7	20
Barium	1590	ug/L		555.6	1110	87	75-125	1	20
Beryllium	519	ug/L		555.6	ND	93	75-125	1	20
Boron	795	ug/L		555.6	334	83	75-125	0.4	20
Cadmium	533	ug/L		555.6	ND	96	75-125	1	20
Calcium	113	mg/L	Q4	5.556	113	4	75-125	0.09	20
Chromium	545	ug/L		555.6	8.61	97	75-125	0.6	20
Cobalt	539	ug/L		555.6	5.15	96	75-125	0.5	20
Lead	516	ug/L		555.6	5.06	92	75-125	0.8	20
Magnesium	53.0	mg/L	Q4	5.556	49.9	55	75-125	0.02	20
Mercury	52.7	ug/L		55.56	ND	95	75-125	2	20
Molybdenum	535	ug/L		555.6	0.789	96	75-125	1	20
Potassium	9.94	mg/L		5.556	4.46	99	75-125	1	20
Selenium	551	ug/L		555.6	ND	99	75-125	0.3	20
Sodium	190	mg/L	Q4	5.556	196	NR	75-125	0.01	20
Thallium	510	ug/L		555.6	ND	92	75-125	1	20

**Batch B336880 - SW 3015 - EPA 6010B**

<b>Blank (B336880-BLK1)</b>				Prepared: 06/23/23 Analyzed: 06/27/23					
Lithium	< 20	ug/L							
<b>LCS (B336880-BS1)</b>				Prepared: 06/23/23 Analyzed: 06/27/23					
Lithium	565	ug/L		555.6		102	80-120		
<b>Matrix Spike (B336880-MS1)</b>				Sample: GF02896-01		Prepared: 06/23/23 Analyzed: 06/27/23			
Lithium	558	ug/L		555.6	8.76	99	75-125		
<b>Matrix Spike Dup (B336880-MSD1)</b>				Sample: GF02896-01		Prepared: 06/23/23 Analyzed: 06/27/23			
Lithium	568	ug/L		555.6	8.76	101	75-125	2	20

**Batch B336880 - SW 3015 - EPA 6020A**

<b>Blank (B336880-BLK1)</b>				Prepared: 06/23/23 Analyzed: 06/28/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Blank (B336880-BLK1)</b>				Prepared: 06/23/23 Analyzed: 06/28/23					
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
<b>LCS (B336880-BS1)</b>				Prepared: 06/23/23 Analyzed: 06/28/23					
Antimony	537	ug/L		555.6		97	80-120		
Arsenic	547	ug/L		555.6		98	80-120		
Barium	537	ug/L		555.6		97	80-120		
Beryllium	518	ug/L		555.6		93	80-120		
Boron	495	ug/L		555.6		89	80-120		
Cadmium	538	ug/L		555.6		97	80-120		
Calcium	5.67	mg/L		5.556		102	80-120		
Chromium	548	ug/L		555.6		99	80-120		
Cobalt	544	ug/L		555.6		98	80-120		
Lead	526	ug/L		555.6		95	80-120		
Magnesium	5.96	mg/L		5.556		107	80-120		
Mercury	51.9	ug/L		55.56		93	80-120		
Molybdenum	532	ug/L		555.6		96	80-120		
Potassium	5.61	mg/L		5.556		101	80-120		
Selenium	561	ug/L		555.6		101	80-120		
Sodium	5.90	mg/L		5.556		106	80-120		
Thallium	527	ug/L		555.6		95	80-120		
<b>Matrix Spike (B336880-MS1)</b>				Sample: GF02896-01		Prepared: 06/23/23 Analyzed: 06/28/23			
Antimony	536	ug/L		555.6	ND	97	75-125		
Arsenic	558	ug/L		555.6	1.06	100	75-125		
Barium	660	ug/L		555.6	114	98	75-125		
Beryllium	529	ug/L		555.6	ND	95	75-125		
Boron	13000	ug/L	E, Q4	555.6	18200	NR	75-125		
Cadmium	551	ug/L		555.6	ND	99	75-125		
Calcium	239	mg/L		5.556	238	22	75-125		
Chromium	563	ug/L		555.6	13.4	99	75-125		
Cobalt	542	ug/L		555.6	4.29	97	75-125		
Lead	531	ug/L		555.6	3.22	95	75-125		
Magnesium	95.8	mg/L	Q4	5.556	92.9	53	75-125		
Mercury	55.1	ug/L		55.56	ND	99	75-125		
Molybdenum	558	ug/L		555.6	1.24	100	75-125		
Potassium	6.63	mg/L		5.556	1.18	98	75-125		
Selenium	557	ug/L		555.6	ND	100	75-125		
Sodium	76.4	mg/L	Q4	5.556	73.3	56	75-125		
Thallium	531	ug/L		555.6	ND	96	75-125		
<b>Matrix Spike Dup (B336880-MSD1)</b>				Sample: GF02896-01		Prepared: 06/23/23 Analyzed: 06/28/23			
Antimony	536	ug/L		555.6	ND	96	75-125	0.2	20
Arsenic	557	ug/L		555.6	1.06	100	75-125	0.1	20
Barium	660	ug/L		555.6	114	98	75-125	0.01	20
Beryllium	540	ug/L		555.6	ND	97	75-125	2	20
Boron	13300	ug/L	E, Q4	555.6	18200	NR	75-125	2	20
Cadmium	549	ug/L		555.6	ND	99	75-125	0.3	20



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike Dup (B336880-MSD1)</b>									
	Sample: GF02896-01			Prepared: 06/23/23 Analyzed: 06/28/23					
Calcium	239	mg/L		5.556	238	12	75-125	0.2	20
Chromium	565	ug/L		555.6	13.4	99	75-125	0.4	20
Cobalt	542	ug/L		555.6	4.29	97	75-125	0.05	20
Lead	528	ug/L		555.6	3.22	95	75-125	0.5	20
Magnesium	95.8	mg/L	Q4	5.556	92.9	53	75-125	0.02	20
Mercury	54.5	ug/L		55.56	ND	98	75-125	1	20
Molybdenum	552	ug/L		555.6	1.24	99	75-125	1	20
Potassium	6.66	mg/L		5.556	1.18	99	75-125	0.5	20
Selenium	555	ug/L		555.6	ND	100	75-125	0.5	20
Sodium	76.5	mg/L	Q4	5.556	73.3	57	75-125	0.03	20
Thallium	529	ug/L		555.6	ND	95	75-125	0.4	20
<b><u>Batch B337163 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B337163-DUP1)</b>									
	Sample: GF02896-01			Prepared & Analyzed: 06/27/23					
Alkalinity - carbonate as CaCO3	< 2.0	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	488	mg/L			488			0	10
<b>Duplicate (B337163-DUP2)</b>									
	Sample: GF02896-07			Prepared & Analyzed: 06/27/23					
Alkalinity - carbonate as CaCO3	< 2.0	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	612	mg/L			612			0	10





NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

\* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

Qualifiers

- E Estimated - concentration exceeds the instrument calibration range.
Q1 Matrix Spike failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
Q2 Matrix Spike Duplicate failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
Q3 Matrix Spike/Matrix Spike Duplicate both failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.

Gail Schindler (handwritten signature)



Certified by: Gail Schindler, Project Manager

6702086/2088  
smw 6-13-23

EDW-257-301

Section A  
Required Client Information:  
Company: **Vistra Corp**  
Address: **13498 E. 900th St**  
Email To: **Brian.Voelker@VistraCorp.com**  
Phone: **(217) 753-8911** Fax:  
Requested Due Date/TAT: **10 day**

Section B  
Required Project Information:  
Report To: **Brian Voelker**  
Copy To: **Jason Stuckey**  
Purchase Order No.:  
Project Name:  
Project Number: **2285**

Section C  
Invoice Information:  
Attention: **Jason Stuckey**  
Company Name: **Vistra Corp**  
Address: **see Section A**  
Quote Reference:  
Project Manager:  
Profile #:

REGULATORY AGENCY  
NPDES **GROUND WATER** DRINKING WATER  
UST **RCRA** OTHER  
Site Location **IL**  
STATE:

Page: **1** of **2**

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER WASTE WATER PRODUCT SOLID/SOLID OIL WIPE AIR OTHER TISSUE	SAMPLE TYPE (G-RAB O-COMP)	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> O <sub>2</sub> Methanol Other	Analysis Test ↓ Y/N	Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.	
											DATE	TIME		
1	AP05S													
2	AP07S													
3	AW-01													
4	AW-05													
5	AW-06													
6	AW-08													
7	AW-09													
8	AW-10													
9	AW-11													
10	AW-14													
11	AW-15													
12	AW-15S													
13	AW-16													
14	AW-17													
15	AW-18													
16	AW-19													

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: **Brian Voelker** DATE: **6/12/23** TIME: **16:45**

ACCEPTED BY / AFFILIATION: **Jason Stuckey** DATE: **6-13-23** TIME: **6:30**

Temp in °C: **43**

Received on Ice (Y/N): **Y**

Custody Sealed (Y/N): **N**

Cooler (Y/N): **Y**

Examples Intact (Y/N): **Y**

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: **Brian Voelker**  
 SIGNATURE of SAMPLER: **Brian Voelker**  
 DATE Signed (MM/DD/YYYY): **06/12/23**

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND

6702086  
Ymw 6-13-23

Required Client Information: Company: **Vistra Corp** Address: **13488 E. 900th St**  
 Email To: [Brian.Voelker@VistraCorp.com](mailto:Brian.Voelker@VistraCorp.com) Phone: (217) 753-8811  
 Requested Due Date/TAT: **10 day**

Required Project Information: Report To: **Brian Voelker** Copy To: **Jason Stuckey**  
 Purchase Order No.: Project Name: Project Number: **2285**

Invoice Information: Attention: **Jason Stuckey** Company Name: **Vistra Corp** Address: **see Section A**  
 Quote Reference: Project Manager: Profile #:

REGULATORY AGENCY: **DRINKING WATER** **GROUND WATER** **RCRA** **OTHER**  
 NPDES **UST** **Site Location** **STATE:** **IL**

EDW-257-301

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOLID S SLURRY SL WIPES WIP AIR AS OTHER OT TSSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1			AW-21							
2			SG-01							
3			XPW01A	G	6/12/23	1532	14			
4			XPW02							
5			XPW03							
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

ADDITIONAL COMMENTS: **EDW-23Q2-Rev 0-Part A-Lab**

RELINQUISHED BY / AFFILIATION: *Brenden Blum* DATE: **6/12/23** TIME: **1645**

ACCEPTED BY / AFFILIATION: *Vera Wojan* DATE: **6-13-23** TIME: **630**

SAMPLER NAME AND SIGNATURE: *Brenden Blum* DATE Signed (MM/DD/YYYY): **06/12/23**

PRINT Name of SAMPLER: *Brenden Blum*

SIGNATURE of SAMPLER: *Brenden Blum*

Temp in C: **4.3**

Received on 109 (Y/N): **Y**

Custody Sealed (Y/N): **N**

Cooler (Y/N): **Y**

Samples Intact (Y/N): **Y**



GFO 2086  
VMW 6-13-23

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND

EDW-257-301

**CHAIN-OF-CUSTODY / Analytical Request Document**

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13496 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8911	Project Name:		State Reference:	
Requested Date/Time:	10 day	Project Number:	2285	Project Manager:	
				Profile #:	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER WASTE WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIPE AIR OTHER TISSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
1	AW-10		WG		6/13/23	1520	15			EDW-257-301	
2	AW-11				1354					EDW-845-301	
3	AW-14				1120					EDW-SUP-000	
4	AW-17				1529						
5	XPW 02				1206						
6	XPW 03				1338						
7	AW-10 Dup				1520						

EDW-23Q2-Rev 0-Part A-Lab	RELINQUISHED BY / AFFILIATION Jason R Reed	DATE 6/13/23	TIME 1651	ACCEPTED BY / AFFILIATION Jason R Reed	DATE 6-13-23	TIME 1651	Temp in °C 17.7	Received on Y	Custody Sealed Y	Cooler (Y/N) N	Samples Intact (Y/N) Y
---------------------------	---	-----------------	--------------	---	-----------------	--------------	--------------------	------------------	------------------------	-------------------	------------------------------

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Jason R Reed  
 SIGNATURE of SAMPLER: *Jason R Reed*  
 DATE Signed (MM/DD/YYYY): 6/13/23

GFO2645  
Vmw 6-14-23

# CHAIN-OF-CUSTODY / Analytical Request Document

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT ASH POND  
EDW-257-301

**Section A**  
Required Client Information:  
Company: **Vistra Corp**  
Address: **13498 E. 900th St**  
Email To: **Brian.Voelker@VistraCorp.com**  
Phone: **(217) 753-8911** Fax:  
Requested Due Date/TAT: **10 day**

**Section B**  
Required Project Information:  
Report To: **Brian Voelker**  
Copy To: **Jason Stuckey**  
Purchase Order No.:  
Project Name:  
Project Number: **2285**

**Section C**  
Invoice Information:  
Attention: **Jason Stuckey**  
Company Name: **Vistra Corp**  
Address: **see Section A**  
Quote Reference:  
Project Manager:  
Profile #:

**REGULATORY AGENCY**  
GROUND WATER DRINKING WATER  
NPDES GROUND WATER RCRA OTHER  
UST RCRA OTHER  
Site Location: **IL**  
STATE:

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID S OIL OL WIFE WP AIR AR DUST DR TISSE TIS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> O <sub>2</sub> Methanol Other	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME					
1	APO55		G1	G	6/14/23	1034		15			
2	AW-01		G1	G	6/14/23	1235		15			
3	AW-06		G1	G	6/14/23	1033		15			
4	AW-08		G1	G	6/14/23	1421		15			
5	AW-18		G1	G	6/14/23	1208		15			
6	AW-19 <i>vmw 6-14-23</i>		G1	G	6/14/23	1340 <i>015</i>		15			
7	AW-19 <i>FB DUP</i>		G1	G	6/14/23	1540 <i>13:40</i>		15			
8	AW-21		G1	G	6/14/23	1540 <i>14:23</i>		15			
9	<i>AW-EB-1</i>		G1	G	6/14/23	1603		15			
10	<i>6-14-23</i>										
11											
12											
13											
14											
15											
16											

**ADDITIONAL COMMENTS**  
EDW-23Q2-Rev 0-Part A-Lab

**RELINQUISHED BY / AFFILIATION**  
Brandon Blum

**DATE**  
6-14-23

**TIME**  
1654

**ACCEPTED BY / AFFILIATION**  
K. Wynn

**DATE**  
6-14-23

**TIME**  
1654

**Temp in °C**  
20.5

**Received on**  
Y

**Custody Sealed**  
N

**Cooler (Y/N)**  
N

**Samples Inlet (Y/N)**  
Y

**SAMPLER NAME AND SIGNATURE**  
PRINT Name of SAMPLER: Brandon Blum  
SIGNATURE of SAMPLER: *Brandon Blum*

**DATE SIGNED (MM/DD/YY)**  
6/14/23



GF02896  
Vnuw 6-15-23

**CHAIN-OF-CUSTODY / Analytical Request Document**

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

Section A Required Client Information:  
 Company: **Vistra Corp**  
 Address: **13498 E 900th St**  
 Email To: **Brian.Voelker@VistraCorp.com**  
 Phone: **(217) 753-6811** Fax:

Section B Required Project Information:  
 Report To: **Brian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.:  
 Project Name:  
 Project Number: **2285**

Section C Invoice Information:  
 Attention: **Jason Stuckey**  
 Company Name: **Vistra Corp**  
 Address: **see Section A**  
 Quote Reference:  
 Project Manager:  
 Profile #:

REGULATORY AGENCY  
 NIPDES GROUND WATER DRINKING WATER  
 UST RCRA OTHER  
 Site Location: **IL**  
 STATE:

Requested Due Date/TAT: **10 day**

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLIDIFIED OIL WIPES WP MATERIALS MT OTHER OT TISSELE TS	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Matrix Code (see valid codes to left)	Sample Type (G-RAB C-COMP)	Collected Date	Collected Time	# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub> Methanol Other	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.	Residual Chlorine (Y/N)	SAMPLE CONDITIONS					
												DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C
1		APDTS	WTG		6/15/23	1103	15		Y	EDW-257-301							
2		AW-05	WTG		6/15/23	1131	15			EDW-845-301							
3		FB-02			6/15/23	1400				EDW-SUP-000							
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	

EDW-2302-Rev 0-Part A-Lab

REQUISITIONED BY / AFFILIATION: **Joseph R Reed** DATE: **6/15/23** TIME: **1522**

ACCEPTED BY / AFFILIATION: **Joe Reed** DATE: **6-15-23** TIME: **1522**

SAMPLER NAME AND SIGNATURE: **Joseph R Reed** DATE SIGNED (MM/DD/YYYY): **6/15/23**

PRINT Name of SAMPLER: **Joe Reed**

SIGNATURE of SAMPLER: **Joseph R Reed**

Temp in °C: **23.3**

Received on Ice (Y/N): **Y**

Custody Sealed (Y/N): **N**

Intact (Y/N): **Y**

6/15/23



GF08896  
smw 6-15-23

COC#: 0615-001

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey	Company Name: Vistra Corp	Page: 1 of 1	
Address: 13498 E. 900th St	Copy To: Jason Stuckey		Address: see Section A		
Email To: <a href="mailto:Brian.Voelker@VistraCorp.com">Brian.Voelker@VistraCorp.com</a>	Purchase Order No.:		Quote Reference:		
Phone: (217) 753-8911	Project Name:		Project Manager:		
Requested Due Date/TAT: 10 day	Project Number: 2285		Profile #:		
REGULATORY AGENCY		REGULATORY AGENCY		REGULATORY AGENCY	
GROUND WATER		GROUND WATER		GROUND WATER	
DRINKING WATER		DRINKING WATER		DRINKING WATER	
RCRA		RCRA		RCRA	
UST		UST		UST	
OTHER		OTHER		OTHER	
Site Location		Site Location		Site Location	
STATE: IL		STATE: IL		STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	Sample Matrix Code (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME					
1	APW-01	DRINKING WATER	GW	G	6/14/23	15:44		15	Unpreserved		
2	AW-20	WASTE WATER	↓	↓	6/15/23	10:05		15	H <sub>2</sub> SO <sub>4</sub>		
3	AW-23	WASTE WATER PRODUCT	↓	↓	6/14/23	13:23		15	HNO <sub>3</sub>		
4	EMW-05	WASTE WATER PRODUCT	↓	↓	6/15/23	07:41		15	HCl		
5	DUP-1	WASTE WATER PRODUCT	↓	↓	6/15/23	10:10		15	NaOH + ZnAc		
6									Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>		
7									Methanol		
8									Other		
9											
10											
11											
12											
13											
14											
15											
16											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
EDW-23Q2-Rev 0-Part B-Ramboll	Jason Stuckey	6/15/23	12:27	Jason Stuckey (Pace)	6/15/23	12:27	Received on Ice (Y/N) <input checked="" type="checkbox"/> Custody Sealed Cooler (Y/N) <input checked="" type="checkbox"/> Samples Intact (Y/N) <input checked="" type="checkbox"/>
EMW-05 = MS/MSD1	Jason Stuckey	6/15/23	15:22	Jason Stuckey	6-15-23	15:22	Temp in °C 7.4

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: LAUREN ANDERSON  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE SIGNED (MM/DD/YYYY): 6/15/23



# ANALYTICAL REPORT

July 27, 2023

Revised Report

## Pace IR - Peoria, IL

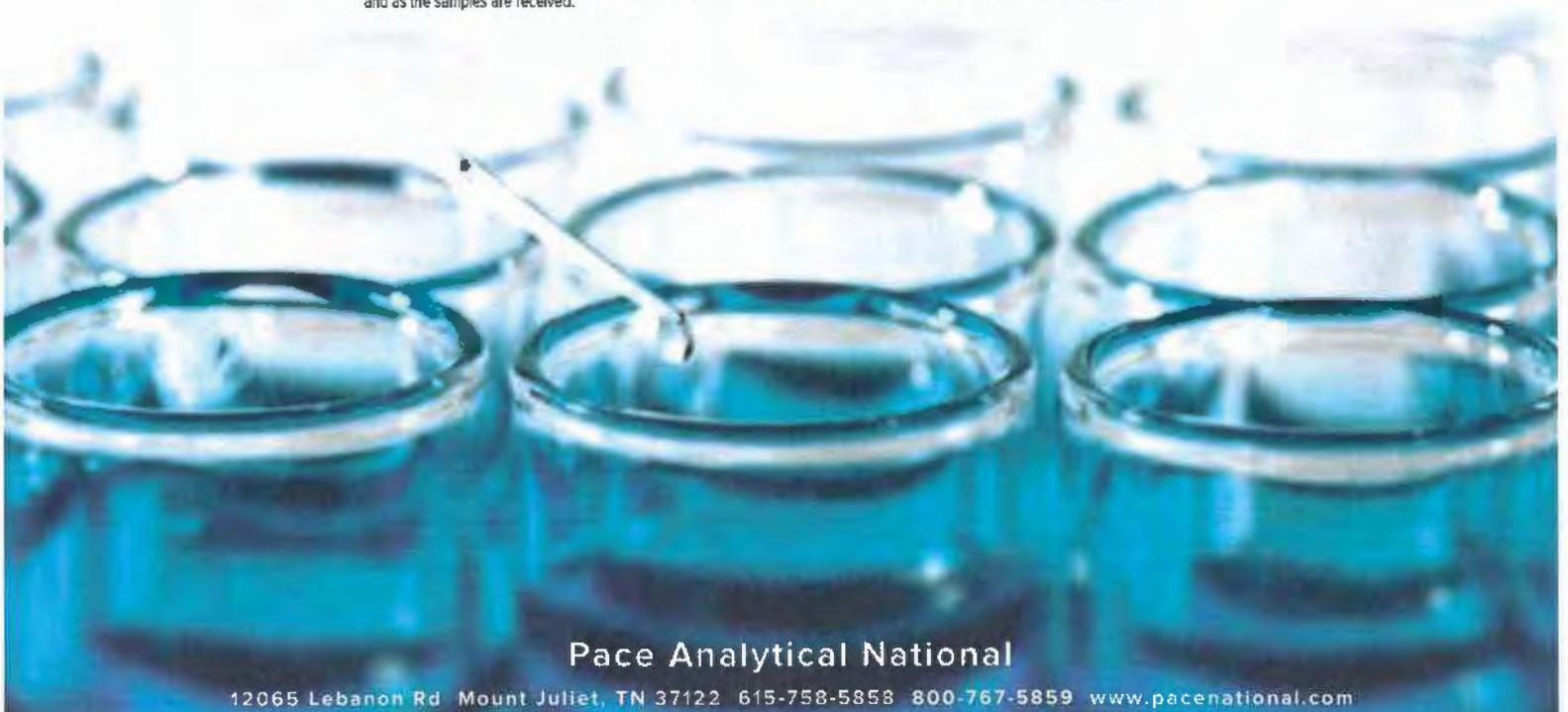
Sample Delivery Group: L1628609  
Samples Received: 06/22/2023  
Project Number: GF02088  
Description: Vistra-Edwards  
Site: 001  
Report To: Gail Schindler  
2231 W. Altorfer Drive  
Peoria, IL 61615

- Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Gl
- <sup>8</sup>Al
- <sup>9</sup>Sc

Entire Report Reviewed By:

Haley Torrence  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

AW-09 L1628609-01 Non-Potable Water  
 Collected by: [blank] Collected date/time: 06/12/23 14:05 Received date/time: 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:26	RGT	Mt. Juliet, TN

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

AW-15 L1628609-02 Non-Potable Water  
 Collected by: [blank] Collected date/time: 06/12/23 14:35 Received date/time: 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

AW-15S L1628609-03 Non-Potable Water  
 Collected by: [blank] Collected date/time: 06/12/23 13:29 Received date/time: 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

AW-16 L1628609-04 Non-Potable Water  
 Collected by: [blank] Collected date/time: 06/12/23 12:52 Received date/time: 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

XPW01A L1628609-05 Non-Potable Water  
 Collected by: [blank] Collected date/time: 06/12/23 15:32 Received date/time: 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

AW-10 DUP L1628609-06 Non-Potable Water  
 Collected by: [blank] Collected date/time: 06/13/23 15:20 Received date/time: 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

AW-10 L1628609-08 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

06/13/23 15:20  
 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

AW-11 L1628609-09 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

06/13/23 12:54  
 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

4 Cn

5 Sr

6 Qc

AW-14 L1628609-10 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

06/13/23 11:20  
 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

7 Gl

8 Al

9 Sc

AW-17 L1628609-11 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

06/13/23 15:20  
 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RRE	Mt. Juliet, TN

XPW02 L1628609-12 Non-Potable Water

Collected by  
 Collected date/time  
 Received date/time

06/13/23 12:06  
 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2094102	1	07/13/23 09:59	07/21/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:19	RGT	Mt. Juliet, TN

XPW03 L1628609-13 Non-Potable Water

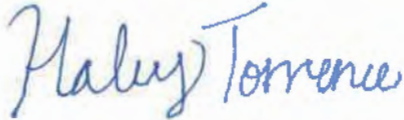
Collected by  
 Collected date/time  
 Received date/time

06/13/23 13:38  
 06/23/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2094102	1	07/13/23 09:59	07/21/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094946	1	07/17/23 12:32	07/21/23 20:53	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094946	1	07/17/23 12:32	07/18/23 19:37	RGT	Mt. Juliet, TN

# CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence  
Project Manager

## Report Revision History

---

Level II Report - Version 1: 07/25/23 15:07

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Ch

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



AW-09 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND SAMPLE RESULTS - 01

Collected date: 07/27/2023 14:05

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.0128	U	0.235	0.430	07/21/2023 16:40	WG2093699
(T) Barium	90.2			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	122			30.0-136	07/21/2023 16:40	WG2093699

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.230	J	0.309	0.490	07/21/2023 16:40	WG2094942

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.230	J	0.201	0.235	07/17/2023 21:26	WG2094942
(T) Borium-133	94.4			30.0-143	07/17/2023 21:26	WG2094942

6 Qc

7 GI

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.18		0.269	0.420	07/21/2023 16:40	WG2093699
(T) Barium	102			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	97.4			30.0-136	07/21/2023 16:40	WG2093699

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.80		0.563	0.508	07/21/2023 16:40	WG2094942

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.61		0.495	0.286	07/17/2023 21:25	WG2094942
(T) Barium-133	95.6			30.0-143	07/17/2023 21:25	WG2094942

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

AW-15S ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT, ASH POND SAMPLE RESULTS - 03

Collected date: 07/27/2023 13:29

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.149	<u>U</u>	0.380	0.687	07/21/2023 16:40	WG2093699
(T) Barium	77.0			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	117			30.0-136	07/21/2023 16:40	WG2093699

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.203	<u>U</u>	0.420	0.713	07/21/2023 16:40	WG2094942

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.203		0.180	0.192	07/17/2023 21:25	WG2094942
(T) Barium-133	85.6			30.0-143	07/17/2023 21:25	WG2094942

6 Qc

7 Gl

8 Al

9 Sc

AW-16

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND **SAMPLE RESULTS - 04**

Collected data on 07/27/23 12:52

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.02		0.295	0.473	07/21/2023 16:40	WG2093699
(T) Borium	93.3			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	106			30.0-136	07/21/2023 16:40	WG2093699

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.74		0.586	0.538	07/21/2023 16:40	WG2094942

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.72		0.506	0.256	07/17/2023 21:25	WG2094942
(T) Barium-133	95.6			30.0-143	07/17/2023 21:25	WG2094942

6 Qc

7 Gl

8 Al

9 Sc

XPW01A EDWARDS POWER PLANT, ASH POND **SAMPLE RESULTS - 05**

Collected date ~~EDW#257630123~~ 07/23 15:32

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.375	<u>U</u>	0.338	0.619	07/21/2023 16:40	<a href="#">WG2093699</a>
(T) Barium	79.4			30.0-143	07/21/2023 16:40	<a href="#">WG2093699</a>
(T) Yttrium	106			30.0-136	07/21/2023 16:40	<a href="#">WG2093699</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0760	<u>U</u>	0.354	0.638	07/21/2023 16:40	<a href="#">WG2094942</a>

<sup>4</sup> Cn

<sup>5</sup> Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0760	<u>J</u>	0.106	0.154	07/17/2023 21:25	<a href="#">WG2094942</a>
(T) Barium-133	98.3			30.0-143	07/17/2023 21:25	<a href="#">WG2094942</a>

<sup>6</sup> Qc

<sup>7</sup> GI

<sup>8</sup> Al

<sup>9</sup> Sc

AW-10 EDWARDS POWER PLANT, ASH POND **SAMPLE RESULTS - 06**

Collected date: 07/27/2023 15:20

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+/-	pCi/l	date / time	
RADIUM-228	1.59		0.311	0.515	07/21/2023 16:40	<a href="#">WG2093699</a>
(T) Barium	87.2			30.0-143	07/21/2023 16:40	<a href="#">WG2093699</a>
(T) Yttrium	101			30.0-136	07/21/2023 16:40	<a href="#">WG2093699</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+/-	pCi/l	date / time	
Combined Radium	2.79		0.608	0.672	07/21/2023 16:40	<a href="#">WG2094946</a>

<sup>4</sup> Cn

<sup>5</sup> Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+/-	pCi/l	date / time	
RADIUM-226	1.19		0.522	0.431	07/18/2023 19:19	<a href="#">WG2094946</a>
(T) Barium-133	78.5			30.0-143	07/18/2023 19:19	<a href="#">WG2094946</a>

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.36		0.343	0.581	07/21/2023 16:40	WG2093699
(f) Barium	84.5			30.0-143	07/21/2023 16:40	WG2093699
(f) Yttrium	98.1			30.0-136	07/21/2023 16:40	WG2093699



Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.95		0.615	0.667	07/21/2023 16:40	WG2094946



Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.59		0.510	0.328	07/18/2023 19:19	WG2094946
(f) Barium-133	99.2			30.0-143	07/18/2023 19:19	WG2094946



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.430	J	0.394	0.696	07/21/2023 16:40	WG2093699
(I) Barium	77.3			30.0-143	07/21/2023 16:40	WG2093699
(I) Yttrium	100			30.0-136	07/21/2023 16:40	WG2093699

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.29		0.672	0.744	07/21/2023 16:40	WG2094946

<sup>4</sup> Cn

<sup>5</sup> Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.86		0.544	0.262	07/18/2023 19:19	WG2094946
(I) Barium-133	96.0			30.0-143	07/18/2023 19:19	WG2094946

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc

AW-14 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT, ASH POND **SAMPLE RESULTS - 10**

Collected date: **EDW-257807** 07/23 11:20

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.55		0.356	0.576	07/21/2023 16:40	<a href="#">WG2093699</a>
(f) Barium	91.7			30.0-143	07/21/2023 16:40	<a href="#">WG2093699</a>
(f) Yttrium	104			30.0-136	07/21/2023 16:40	<a href="#">WG2093699</a>

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.46		0.544	0.667	07/21/2023 16:40	<a href="#">WG2094946</a>

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.918		0.411	0.336	07/18/2023 19:19	<a href="#">WG2094946</a>
(f) Barium-133	96.1			30.0-143	07/18/2023 19:19	<a href="#">WG2094946</a>

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.59		0.342	0.573	07/21/2023 16:40	WG2093699
(T) Barium	87.6			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	103			30.0-136	07/21/2023 16:40	WG2093699

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.97		0.617	0.671	07/21/2023 16:40	WG2094946

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.39		0.514	0.349	07/18/2023 19:19	WG2094946
(T) Barium-133	83.7			30.0-143	07/18/2023 19:19	WG2094946

6 Qc

7 Gl

8 Al

9 Sc

XPW02 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND SAMPLE RESULTS - 12

Collected date: EDW-257680123 12:06

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.172	U	0.284	0.524	07/21/2023 20:53	WG2094102
(f) Barium	102			30.0-143	07/21/2023 20:53	WG2094102
(f) Yttrium	111			30.0-136	07/21/2023 20:53	WG2094102

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.481	J	0.462	0.725	07/21/2023 20:53	WG2094946

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.309	J	0.364	0.501	07/18/2023 19:19	WG2094946
(f) Barium-133	62.1			30.0-143	07/18/2023 19:19	WG2094946

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

XPW03 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT, ASH POND SAMPLE RESULTS - 13

Collected date: EDW#25780123 13:38

L1628609

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.760		0.312	0.553	07/21/2023 20:53	WG2094102
(f) Borium	92.1			30.0-143	07/21/2023 20:53	WG2094102
(f) Yttrium	99.0			30.0-136	07/21/2023 20:53	WG2094102

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.897		0.399	0.675	07/21/2023 20:53	WG2094946

<sup>4</sup> Cn

<sup>5</sup> Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.137	U	0.249	0.387	07/18/2023 19:37	WG2094946
(f) Barium-133	81.3			30.0-143	07/18/2023 19:37	WG2094946

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



**WG2093699**

Radiochemistry by Method 904/9320

**Method Blank (MB)**

(MB) R3952414-1 07/21/23 16:40

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-228	0.282	J	0.186	0.328
(7) Barium	97.5		97.5	
(7) Yttrium	95.0		95.0	

**L1628609-05 Original Sample (OS) • Duplicate (DUP)**

(OS) L1628609-05 07/21/23 16:40 • (DUP) R3952414-5 07/21/23 16:40

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	-0.375	0.338	0.619	0.502	0.392	0.619	1	200	1.70	J	20	3
(7) Barium	79.4			85.7	85.7							
(7) Yttrium	106			111	111							

**Laboratory Control Sample (LCS)**

(LCS) R3952414-2 07/21/23 16:40

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.63	113	80.0-120	
(7) Barium			88.4		
(7) Yttrium			110		

**L1628608-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)**

(OS) L1628608-09 07/21/23 16:40 • (MS) R3952414-3 07/21/23 16:40 • (MSD) R3952414-4 07/21/23 16:40

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	-0.185	9.88	10.1	98.8	101	1	70.0-130			2.22		20
(7) Barium		92.6			95.1	100							
(7) Yttrium		111			106	111							

WG2094102

Radiochemistry by Method 904/9320

Method Blank (MB)

(MB) R3952036-1 07/21/23 20:53

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-228	0.480		0.197	0.349
(7) Barium	98.6		98.6	
(7) Yttrium	87.8		87.8	

L1628609-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1628609-13 07/21/23 20:53 • (DUP) R3952036-5 07/21/23 20:53

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP RPD Limits %	DUP Qualifier	DUP RER Limit
Radium-228	0.760	0.312	0.553	0.433	0.380	0.553	1	54.7	0.664	20	J	3
(7) Barium	92.1			86.0	86.0							
(7) Yttrium	99.0			104	104							

Laboratory Control Sample (LCS)

(LCS) R3952036-2 07/21/23 20:53

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.48	110	80.0-120	
(7) Barium			94.8		
(7) Yttrium			94.9		

L1628609-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628609-12 07/21/23 20:53 • (MS) R3952036-3 07/21/23 20:53 • (MSD) R3952036-4 07/21/23 20:53

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.172	17.1	16.3	101	96.5	1	70.0-130		4.80	4.80		20
(7) Barium		102		97.2	97.2	96.8							
(7) Yttrium		111		118	118								



WG2094942

Radiochemistry by Method SM7500Rø B M

QUALITY CONTROL SUMMARY

L1628609-01.02.03.04.05

Method Blank (MB)

(MB) R3950486-1 07/17/23 21:25

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-226 (7) Barium-133	-0.0120 93.8	U	0.0189 93.8	0.0625

L1628608-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1628608-04 07/17/23 21:25 • (DUP) R3950486-5 07/17/23 21:25

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP RPD Limits %	DUP RER Limit
Radium-226 (7) Barium-133	-0.0607 89.1	0.207	0.394	0.121 94.2	0.176 94.2	0.394	1	200	0.667	20	3

Laboratory Control Sample (LCS)

(LCS) R3950486-2 07/17/23 21:25

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226 (7) Barium-133	5.01	4.64	92.5 94.4	80.0-120	

L1628609-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628609-03 07/17/23 21:25 • (MS) R3950486-3 07/17/23 21:25 • (MSD) R3950486-4 07/17/23 21:25

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MS RER	RPD %	RPD Limits %
Radium-226 (7) Barium-133	20.0	0.203 85.6	18.8	17.7	92.8 87.0	87.2 87.6	1	75.0-125			6.15	20



**WG2094946**

Radiochemistry by Method SM7500Ra B M

**QUALITY CONTROL SUMMARY**

L1628609-06,08,09,10,11,12,13

**Method Blank (MB)**

(MB) R3950913-1 07/18/23 19:19

Analyte	MB Result pCi/l	MB Uncertainty +/-	MB MDA pCi/l
Radium-226 (f) Barium-133	0.00239 80.0	0.0456 80.0	0.0934

**L1628922-12 Original Sample (OS) • Duplicate (DUP)**

(OS) L1628922-12 07/18/23 19:37 • (DUP) R3950913-5 07/18/23 19:19

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP RPD Limits %	DUP RER Limit
Radium-226 (f) Barium-133	6.99 105	1.01	0.217	8.15 112	1.11 112	0.217	1	15.3	0.774	20	3

**Laboratory Control Sample (LCS)**

(LCS) R3950913-2 07/18/23 19:19

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %
Radium-226 (f) Barium-133	5.01	5.25	105	80.0-120

**L1628609-12 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)**

(OS) L1628609-12 07/18/23 19:19 • (MS) R3950913-3 07/18/23 19:19 • (MSD) R3950913-4 07/18/23 19:19

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MS RER	RPD %	RPD Limits %
Radium-226 (f) Barium-133	20.0	0.309	18.3	15.4	90.1	75.2	1	75.0-125	60.6	17.6	17.6	20



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> GI

<sup>8</sup> AI

<sup>9</sup> Sc

# ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Neveda	TN000032021-1
Arizona	A20612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAC00356
Kentucky <sup>1*</sup>	KY90010	South Carolina	B4004002
Kentucky <sup>2</sup>	16	South Dakota	N/a
Louisiana	A130792	Tennessee <sup>14</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>8</sup> Al

<sup>9</sup> Sc



Internal Transfer Chain of Custody



State of Origin: IL  YES  NO  
Cert. Needed:  YES  NO

Owner Received Date: 6/13/2023  
Requested Analysis By: 7/11/2023

Workorder: GF02088  
Report To: Gail Schindler  
Pace Analytical - IL/MO  
2231 W. Altonfer Drive  
Peoria, IL 61615  
800-752-6651

Workorder Name: Vistra - Edwards  
Subcontract To: Pace Analytical - Mt Juliet  
12065 Lebanon Rd  
Mt Juliet TN 37122

Item	Sample ID	Sample Type	Collect Date/Time	Matrix	Requested Analysis	Date/Time	Comments
1	AW-09	GRAB	6/13/2023 14:05	GF02088-01			
2	AW-15	GRAB	6/12/2023 13:29	GF02088-02			
3	AW-15S	GRAB	6/27/2023 13:29	GF02088-03			
4	AW-16	GRAB	6/12/2023 15:52	GF02088-04			
5	XPW01A	GRAB	6/12/2023 15:31	GF02088-05			
6	AW-10	GRAB	6/13/2023 15:20	GF02088-06			
7	AW-10 DUP	GRAB	6/13/2023 15:20	GF02088-07			
8	AW-11	GRAB	6/13/2023 12:54	GF02088-08			
9	AW-14	GRAB	6/13/2023 11:20	GF02088-09			
10	AW-17	GRAB	6/13/2023 15:20	GF02088-10			
11	XPW02	GRAB	6/13/2023 12:06	GF02088-11			
12	XPW03	GRAB	6/13/2023 13:38	GF02088-12			

LAB USE ONLY  
-01  
-02  
-03  
-04  
-05  
-06

Transfer/Released By	Date/Time	Received By	Date/Time	Comments
[Signature]	6/21/23 14:00	Harley Roberts	6/22/23 09:00	Needs reported as 226, 228 and also combined 226/228 Include QC summary and add

Cooler Temperature on Receipt: \_\_\_\_\_ °C Custody Seal: Y or N Received on Ice: Y or N Sample Intact: Y or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist  
COC Seal Present/Intact:  Y  N IF Applicable  
COC Signed/Accurate:  Y  N VOA Zero Headpace:  Y  N  
Bottles Airtight:  Y  N Pres. Correct/Check:  Y  N  
Correct bottles used:  Y  N  
Sufficient volume sent:  Y  N  
RAD Screen <0.5 mR/hr:  Y  N

11628609



**Ship to :**  
Pace Analytical Services, LLC  
1638 Roseytown Rd - Suites 2,3,4  
Greensburg, PA 15601  
  
(724)850-5600

INTER LABORATORY WORK ORDER # **GF02088**

(To be complete by sending lab)

Sending Project No:	<b>GF02088</b>
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	<b>6/20/2023</b>
REQUESTED COMPLETION DATE:	<b>7/11/2023</b>

Sending Region	<b>IR72-IL/MO</b>	Sending Project Mgr.	<b>Gail Schindler</b>
Receiving Region	<b>MT JULIET</b>	External Client	<b>Vistra - Edwards</b>
State of Sample Origin	<b>IL</b>	QC Deliverable	<b>STD Report</b>

All questions should be addressed to sending project manager.

Requested Reportable Units \_\_\_\_\_ Report Wet or Dry Weight? \_\_\_\_\_ Cert Needed: IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		12		12	\$242.10	\$2,905.20
		1		1	\$0.00	\$0.00
		1		1		\$0.00
<b>TOTAL</b>						<b>\$2,905.20</b>

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$2,905.20	\$2,324.16	\$581.04
		<b>TOTAL</b>	<b>\$2,324.16</b>	<b>\$581.04</b>

\* Custom Revenue Allocation

**FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO**

Return Samples to Sending Region:  Yes  No

**CONFIRMATION OF WORK COMPLETED**

Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

Original sent to the receiving lab - Copy kept at the sending lab.  
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.

U1628009

Tracking Numbers	NS A16 Temperature
6319 (0001 0051)	20.6 to 20.6

C217

Internal Transfer Chain of Custody

State of Origin: IL  
Cert. Needed:  YES  NO



Workorder: GF02088  
Requester: Gail Schindler  
Workorder Name: Vistra - Edwards  
Subcontract To: Pace Analytical - Mt Juliet  
12065 Lebanon Rd  
Mt Juliet TN 37122

Owner Received Date: 6/19/2023  
Requested Analysis: Radium: 226/228

Results Required By: 7/11/2023

Item	Sample ID	Sample Type	Collect Date/Time	Matrix	Requested Analysis	Date/Time	Comments
1	AW-09	GRAB	6/12/2023 14:05	GW	X	01	
2	AW-25	GRAB	6/12/2023 15:01	GW	X	02	
3	AW-155	GRAB	6/12/2023 13:29	GW	X	03	
4	AW-16	GRAB	6/12/2023 15:52	GW	X	04	
5	XPW01A	GRAB	6/12/2023 15:32	GW	X	05	
6	AW-10	GRAB	6/13/2023 15:20	GW	X	08	
7	AW-10 DUP	GRAB	6/13/2023 15:20	GW	X	09	
8	AW-11	GRAB	6/13/2023 12:54	GW	X	10	
9	AW-14	GRAB	6/13/2023 11:20	GW	X	11	
10	AW-17	GRAB	6/13/2023 15:20	GW	X	12	
11	XPW02	GRAB	6/13/2023 12:06	GW	X	13	
12	XPW03	GRAB	6/13/2023 13:38	GW	X		

LAB USE ONLY  
-01  
-02  
-03  
-04  
-05  
-08  
-09  
-10  
-11  
-12  
-13

Transfers Requested By: [Signature]  
Date/Time: 6/21/23 14:01

Received by: [Signature]  
Date/Time: 6/23/23 09:00  
Comments: Needs reported as 226, 228 and also combined 226/228. Includes QC summary and add.

Cooler Temperature on Receipt: [Blank]  
Custody Seal Y or N: N  
Received on Ice Y or N: N  
Sample Intact Y or N: N  
In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this GOC document.  
This chain of custody information is available in the owner laboratory.

- Sample Receipts Checklist
- GOC Seal Present/Intact:  Y
  - GOC Signed/Accurate:  Y
  - Bottles arrive intact:  Y
  - Correct bottles used:  Y
  - Sufficient volume sent:  Y
  - RAD Screen <0.5 mR/hr:  Y
  - IF Applicable:
    - VQA Zero Readback:  Y
    - Pres. Correct/Check:  Y

FMT-ALL-C-0021rev.00 24 March 2009





Ship to:  
Pace Analytical Services, LLC  
1630 Roseydown Rd - Miller 234  
Greensburg, PA 15601  
  
(724)850-5600

INTER LABORATORY WORK ORDER # GFD2088

*U1028609*

(To be complete by sending lab)

Sending Project No:	GFD2088
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	6/20/2023
REQUESTED COMPLETION DATE:	7/11/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Gail Schindler
Receiving Region	MT JULIET	External Client	Vistra - Edwards
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units: \_\_\_\_\_ Report Wet or Dry Weight? \_\_\_\_\_ Cert Needed: IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		12		12	\$242.10	\$2,905.20
		1		1	50.00	\$0.00
		1		1		\$0.00
<b>TOTAL</b>						<b>\$2,905.20</b>

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$2,905.20	\$2,324.16	\$581.04
* Custom Revenue Allocation		<b>TOTAL</b>	<b>\$2,324.16</b>	<b>\$581.04</b>

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

Return Samples to Sending Region:  Yes  No

CONFIRMATION OF WORK COMPLETED

Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

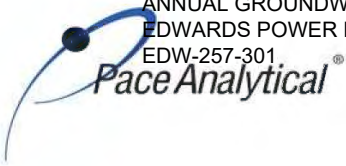
Original sent to the receiving lab - Copy kept at the sending lab.

When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.



U62809

Tracking Numbers	N5 A6 Temperature
6319 6001 0051	20.6 to 20.6
6319 6001 0084	24.5 to 24.5



# ANALYTICAL REPORT

July 25, 2023

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Pace IR - Peoria, IL

Sample Delivery Group: L1628608  
Samples Received: 06/22/2023  
Project Number: GF02677  
Description: Vistra-Edwads  
Site: 001  
Report To: Gail Schindler  
2231 W. Altorfer Drive  
Peoria, IL 61615

Entire Report Reviewed By:

*Haley Torrence*  
[Preliminary Report]

Haley Torrence  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

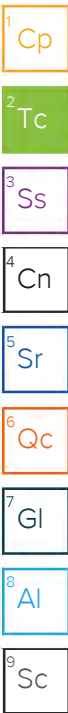
Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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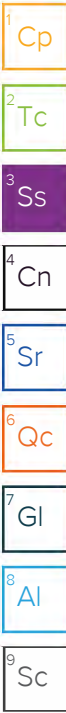


Collected by  
 Collected date/time  
 Received date/time

AP05S L1628608-01 Non-Potable Water

06/14/23 10:34 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN



Collected by  
 Collected date/time  
 Received date/time

AW-01 L1628608-02 Non-Potable Water

06/14/23 12:35 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

AW-06 L1628608-03 Non-Potable Water

06/14/23 10:33 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

AW-08 L1628608-04 Non-Potable Water

06/14/23 14:24 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

AW-18 L1628608-05 Non-Potable Water

06/14/23 12:08 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

AW-19 L1628608-06 Non-Potable Water

06/14/23 13:40 06/22/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:25	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time  
 06/14/23 13:40 06/22/23 09:00

AW-19 DUP L1628608-07 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:26	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time  
 06/14/23 15:40 06/22/23 09:00

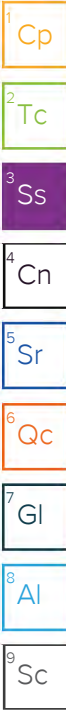
AW-21 L1628608-08 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:26	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time  
 06/14/23 16:03 06/22/23 09:00

EB-01 L1628608-09 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093699	1	07/12/23 18:01	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094942	1	07/14/23 13:00	07/21/23 16:40	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094942	1	07/14/23 13:00	07/17/23 21:26	RGT	Mt. Juliet, TN

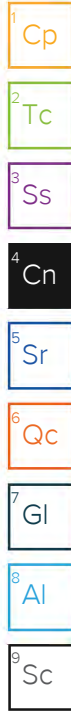




All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

[Preliminary Report]  
*Haley Torrence*

Haley Torrence  
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.30		0.596	1.01	07/20/2023 16:47	<a href="#">WG2093281</a>
(T) Barium	70.8			30.0-143	07/20/2023 16:47	<a href="#">WG2093281</a>
(T) Yttrium	96.1			30.0-136	07/20/2023 16:47	<a href="#">WG2093281</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.53		0.840	1.07	07/20/2023 16:47	<a href="#">WG2094942</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.23		0.592	0.355	07/17/2023 21:25	<a href="#">WG2094942</a>
(T) Barium-133	90.3			30.0-143	07/17/2023 21:25	<a href="#">WG2094942</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

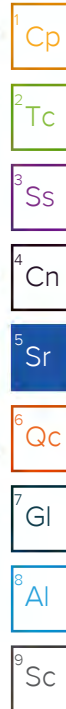
Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.461	<u>U</u>	0.369	0.695	07/20/2023 16:47	<a href="#">WG2093281</a>
(T) Barium	82.0			30.0-143	07/20/2023 16:47	<a href="#">WG2093281</a>
(T) Yttrium	109			30.0-136	07/20/2023 16:47	<a href="#">WG2093281</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.773		0.492	0.725	07/20/2023 16:47	<a href="#">WG2094942</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.773		0.325	0.207	07/17/2023 21:25	<a href="#">WG2094942</a>
(T) Barium-133	99.1			30.0-143	07/17/2023 21:25	<a href="#">WG2094942</a>



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.413	J	0.251	0.447	07/20/2023 16:47	WG2093281
(T) Barium	83.3			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	107			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.910		0.400	0.540	07/20/2023 16:47	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.498		0.311	0.303	07/17/2023 21:25	WG2094942
(T) Barium-133	91.7			30.0-143	07/17/2023 21:25	WG2094942

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.815		0.333	0.583	07/20/2023 16:47	<a href="#">WG2093281</a>
(T) Barium	79.7			30.0-143	07/20/2023 16:47	<a href="#">WG2093281</a>
(T) Yttrium	102			30.0-136	07/20/2023 16:47	<a href="#">WG2093281</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.815		0.392	0.704	07/20/2023 16:47	<a href="#">WG2094942</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	-0.0607	U	0.207	0.394	07/17/2023 21:25	<a href="#">WG2094942</a>
(T) Barium-133	89.1			30.0-143	07/17/2023 21:25	<a href="#">WG2094942</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.86		0.296	0.479	07/20/2023 16:47	<a href="#">WG2093281</a>
(T) Barium	83.1			30.0-143	07/20/2023 16:47	<a href="#">WG2093281</a>
(T) Yttrium	96.5			30.0-136	07/20/2023 16:47	<a href="#">WG2093281</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.92		0.508	0.568	07/20/2023 16:47	<a href="#">WG2094942</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.05		0.413	0.305	07/17/2023 21:25	<a href="#">WG2094942</a>
(T) Barium-133	91.3			30.0-143	07/17/2023 21:25	<a href="#">WG2094942</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.294	J	0.213	0.379	07/21/2023 16:40	WG2093699
(T) Barium	96.3			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	106			30.0-136	07/21/2023 16:40	WG2093699

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.471	J	0.325	0.520	07/21/2023 16:40	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.178	J	0.245	0.356	07/17/2023 21:25	WG2094942
(T) Barium-133	83.9			30.0-143	07/17/2023 21:25	WG2094942

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

EDW-257-301

Radiochemistry by Method 904/9320

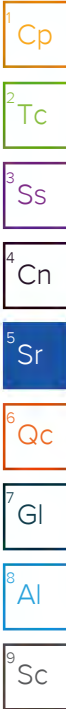
Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.458		0.221	0.387	07/21/2023 16:40	<a href="#">WG2093699</a>
(T) Barium	93.3			30.0-143	07/21/2023 16:40	<a href="#">WG2093699</a>
(T) Yttrium	108			30.0-136	07/21/2023 16:40	<a href="#">WG2093699</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.04		0.400	0.494	07/21/2023 16:40	<a href="#">WG2094942</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.585		0.334	0.307	07/17/2023 21:26	<a href="#">WG2094942</a>
(T) Barium-133	96.5			30.0-143	07/17/2023 21:26	<a href="#">WG2094942</a>



EDW-257-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.103	U	0.259	0.470	07/21/2023 16:40	WG2093699
(T) Barium	83.1			30.0-143	07/21/2023 16:40	WG2093699
(T) Yttrium	93.8			30.0-136	07/21/2023 16:40	WG2093699

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.326	J	0.355	0.573	07/21/2023 16:40	WG2094942

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.224	J	0.243	0.327	07/17/2023 21:26	WG2094942
(T) Barium-133	101			30.0-143	07/17/2023 21:26	WG2094942

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.185	<u>U</u>	0.208	0.389	07/21/2023 16:40	<a href="#">WG2093699</a>
(T) Barium	92.6			30.0-143	07/21/2023 16:40	<a href="#">WG2093699</a>
(T) Yttrium	111			30.0-136	07/21/2023 16:40	<a href="#">WG2093699</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0292	<u>U</u>	0.264	0.494	07/21/2023 16:40	<a href="#">WG2094942</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0292	<u>U</u>	0.163	0.305	07/17/2023 21:26	<a href="#">WG2094942</a>
(T) Barium-133	97.1			30.0-143	07/17/2023 21:26	<a href="#">WG2094942</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



EDW-257-301

Method Blank (MB)

(MB) R3952228-1 07/20/23 16:47

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.237	↓	0.171	0.309
(T) Barium	86.7		86.7	
(T) Yttrium	106		106	

L1628597-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1628597-03 07/20/23 16:47 • (DUP) R3952228-5 07/20/23 16:47

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.234	0.470	0.850	-0.986	0.427	0.850	1	200	1.92	U	20	3
(T) Barium	74.6			88.3	88.3							
(T) Yttrium	102			96.1	96.1							

Laboratory Control Sample (LCS)

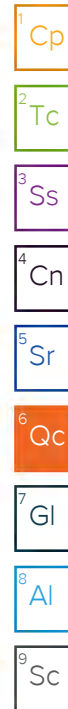
(LCS) R3952228-2 07/20/23 16:47

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.29	106	80.0-120	
(T) Barium			87.9		
(T) Yttrium			106		

L1628608-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628608-02 07/20/23 16:47 • (MS) R3952228-3 07/20/23 16:47 • (MSD) R3952228-4 07/20/23 16:47

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	-0.461	18.0	18.9	107	113	1	70.0-130			5.00		20
(T) Barium		82.0			82.6	79.5							
(T) Yttrium		109			106	93.4							



EDW-257-301

Method Blank (MB)

(MB) R3952414-1 07/21/23 16:40

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.282	↓	0.186	0.328
(T) Barium	97.5		97.5	
(T) Yttrium	95.0		95.0	

L1628609-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1628609-05 07/21/23 16:40 • (DUP) R3952414-5 07/21/23 16:40

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	-0.375	0.338	0.619	0.502	0.392	0.619	1	200	1.70	↓	20	3
(T) Barium	79.4			85.7	85.7							
(T) Yttrium	106			111	111							

Laboratory Control Sample (LCS)

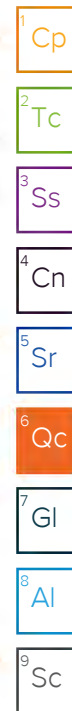
(LCS) R3952414-2 07/21/23 16:40

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.63	113	80.0-120	
(T) Barium			88.4		
(T) Yttrium			110		

L1628608-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628608-09 07/21/23 16:40 • (MS) R3952414-3 07/21/23 16:40 • (MSD) R3952414-4 07/21/23 16:40

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	-0.185	9.88	10.1	98.8	101	1	70.0-130			2.22		20
(T) Barium		92.6			95.1	100							
(T) Yttrium		111			106	111							



EDW-257-301

Method Blank (MB)

(MB) R3950486-1 07/17/23 21:25

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	-0.0120	<u>U</u>	0.0199	0.0625
(T) Barium-133	93.8		93.8	

L1628608-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1628608-04 07/17/23 21:25 • (DUP) R3950486-5 07/17/23 21:25

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	-0.0607	0.207	0.394	0.121	0.176	0.394	1	200	0.667	<u>J</u>	20	3
(T) Barium-133	89.1			94.2	94.2							

Laboratory Control Sample (LCS)

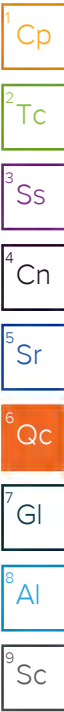
(LCS) R3950486-2 07/17/23 21:25

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.64	92.5	80.0-120	
(T) Barium-133			94.4		

L1628609-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628609-03 07/17/23 21:25 • (MS) R3950486-3 07/17/23 21:25 • (MSD) R3950486-4 07/17/23 21:25

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.203	18.8	17.7	92.8	87.2	1	75.0-125			6.15		20
(T) Barium-133		85.6			83.0	87.6							



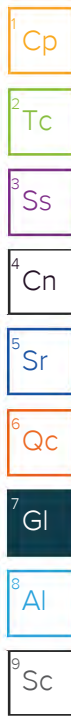
Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.



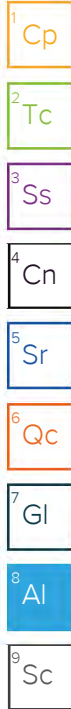
Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

APPENDIX A. ACCREDITATIONS & LOCATIONS  
 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT, ASH POND  
 EDW-257-301

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		



<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

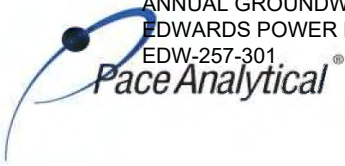
\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.









# ANALYTICAL REPORT

July 25, 2023

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

## Pace IR - Peoria, IL

Sample Delivery Group: L1628597  
Samples Received: 06/22/2023  
Project Number: GF02943  
Description: Vistra-Edwards  
Site: 001  
Report To: Gail Schindler  
2231 W. Altorfer Drive  
Peoria, IL 61615

Entire Report Reviewed By:

*Haley Torrence*  
[Preliminary Report]

Haley Torrence  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

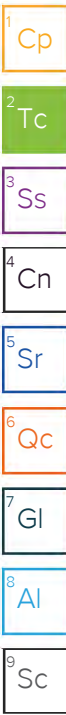
Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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Collected by  
 Collected date/time  
 Received date/time  
 06/15/23 11:03 06/22/23 09:00

AP07S L1628597-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094500	1	07/14/23 10:09	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094500	1	07/14/23 10:09	07/17/23 16:47	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time  
 06/15/23 11:31 06/22/23 09:00

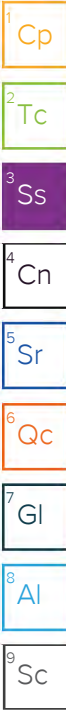
AW-05 L1628597-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094500	1	07/14/23 10:09	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094500	1	07/14/23 10:09	07/17/23 16:47	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time  
 06/15/23 14:00 06/22/23 09:00

EB-02 L1628597-03 Non-Potable Water

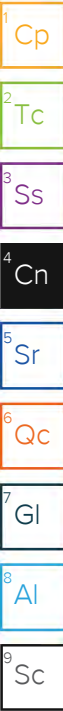
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2093281	1	07/12/23 10:06	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2094500	1	07/14/23 10:09	07/20/23 16:47	SNR	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2094500	1	07/14/23 10:09	07/17/23 16:47	RGT	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

[Preliminary Report]  
*Haley Torrence*

Haley Torrence  
Project Manager





Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.539	J	0.622	1.14	07/20/2023 16:47	WG2093281
(T) Barium	64.7			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	94.0			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.20		0.709	1.19	07/20/2023 16:47	WG2094500

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.664		0.341	0.327	07/17/2023 16:47	WG2094500
(T) Barium-133	105			30.0-143	07/17/2023 16:47	WG2094500

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.55		0.685	1.18	07/20/2023 16:47	<a href="#">WG2093281</a>
(T) Barium	66.6			30.0-143	07/20/2023 16:47	<a href="#">WG2093281</a>
(T) Yttrium	96.6			30.0-136	07/20/2023 16:47	<a href="#">WG2093281</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.09		0.753	1.22	07/20/2023 16:47	<a href="#">WG2094500</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.540		0.313	0.305	07/17/2023 16:47	<a href="#">WG2094500</a>
(T) Barium-133	97.1			30.0-143	07/17/2023 16:47	<a href="#">WG2094500</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.234	U	0.470	0.850	07/20/2023 16:47	WG2093281
(T) Barium	74.6			30.0-143	07/20/2023 16:47	WG2093281
(T) Yttrium	102			30.0-136	07/20/2023 16:47	WG2093281

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.323	U	0.491	0.879	07/20/2023 16:47	WG2094500

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0895	J	0.143	0.222	07/17/2023 16:47	WG2094500
(T) Barium-133	114			30.0-143	07/17/2023 16:47	WG2094500

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

EDW-257-301

Method Blank (MB)

(MB) R3952228-1 07/20/23 16:47

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.237	↓	0.171	0.309
(T) Barium	86.7		86.7	
(T) Yttrium	106		106	

L1628597-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1628597-03 07/20/23 16:47 • (DUP) R3952228-5 07/20/23 16:47

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.234	0.470	0.850	-0.986	0.427	0.850	1	200	1.92	U	20	3
(T) Barium	74.6			88.3	88.3							
(T) Yttrium	102			96.1	96.1							

Laboratory Control Sample (LCS)

(LCS) R3952228-2 07/20/23 16:47

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.29	106	80.0-120	
(T) Barium			87.9		
(T) Yttrium			106		

L1628608-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628608-02 07/20/23 16:47 • (MS) R3952228-3 07/20/23 16:47 • (MSD) R3952228-4 07/20/23 16:47

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	-0.461	18.0	18.9	107	113	1	70.0-130			5.00		20
(T) Barium		82.0			82.6	79.5							
(T) Yttrium		109			106	93.4							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R3950475-1 07/17/23 16:47

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+ / -	pCi/l
Radium-226	0.0509		0.0411	0.0407
(T) Barium-133	93.1		93.1	

L1628597-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1628597-03 07/17/23 16:47 • (DUP) R3950475-5 07/17/23 16:47

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+ / -	pCi/l	pCi/l	+ / -	pCi/l		%			%	
Radium-226	0.0895	0.143	0.222	0.202	0.189	0.222	1	77.4	0.476	J	20	3
(T) Barium-133	114			111	111							

Laboratory Control Sample (LCS)

(LCS) R3950475-2 07/17/23 16:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.67	93.2	80.0-120	
(T) Barium-133			99.2		

L1628545-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1628545-01 07/17/23 16:47 • (MS) R3950475-3 07/17/23 16:47 • (MSD) R3950475-4 07/17/23 16:47

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	1.62	20.6	20.1	94.8	92.3	1	75.0-125			2.46		20
(T) Barium-133		94.1			88.1	98.7							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

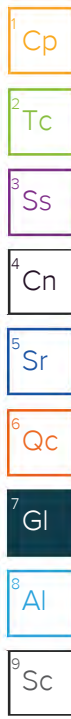
Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.



Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

APPENDIX A. ACCREDITATIONS & LOCATIONS  
 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT, ASH POND  
 EDW-257-301

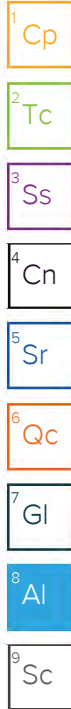
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.









6FO2086/2088  
smw 6-13-23

EDW-257-301

Section A  
Required Client Information:  
Company: **Vistra Corp**  
Address: **13498 E. 900th St**  
Email To: **Brian.Voelker@VistraCorp.com**  
Phone: **(217) 753-8911** Fax:  
Requested Due Date/TAT: **10 day**

Section B  
Required Project Information:  
Report To: **Brian Voelker**  
Copy To: **Jason Stuckey**  
Purchase Order No.:  
Project Name:  
Project Number: **2285**

Section C  
Invoice Information:  
Attention: **Jason Stuckey**  
Company Name: **Vistra Corp**  
Address: **see Section A**  
Quote Reference:  
Project Manager:  
Profile #:

REGULATORY AGENCY  
NPDES **GROUND WATER** DRINKING WATER  
UST RCRA OTHER  
Site Location **IL**  
STATE:

Page: **1** of **2**

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER WASTE WATER PRODUCT SOLID/SOLID OIL WIPE AIR OTHER TISSUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-RAB O-COMP)	COLLECTED DATE TIME	# OF CONTAINERS UNPRESERVED H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> O <sub>2</sub> Methanol Other	Preservatives Y/N	Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.
								DATE	TIME	
1	AP05S				6/12/23 1405	15				
2	AP07S				6/12/23 1407	15				
3	AW-01				6/12/23 1329	15				
4	AW-05				6/12/23 1552	15				
5	AW-06									
6	AW-08									
7	AW-09									
8	AW-10									
9	AW-11									
10	AW-14									
11	AW-15									
12	AW-15S									
13	AW-16									
14	AW-17									
15	AW-18									
16	AW-19									

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: **Brian Voelker** DATE: **6/12/23** TIME: **16:45**

ACCEPTED BY / AFFILIATION: **Brandon Coleman** DATE: **6-13-23** TIME: **6:30**

Temp in °C: **43**

Received on Ice (Y/N): **Y**

Custody Sealed (Y/N): **N**

Cooler (Y/N): **Y**

Examples Intact (Y/N): **Y**

SAMPLER NAME AND SIGNATURE  
PRINT Name of SAMPLER: **Brian Voelker**  
SIGNATURE of SAMPLER: *Brian Voelker*  
DATE Signed (MM/DD/YYYY): **06/12/23**  
DATE Signed (MM/DD/YYYY): **06/12/23**



APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND

6702086  
Ymw 6-13-23

Required Client Information: Company: **Vistra Corp** Address: **13488 E. 900th St**  
 Email To: [Brian.Voelker@VistraCorp.com](mailto:Brian.Voelker@VistraCorp.com) Phone: (217) 753-8811  
 Requested Due Date/TAT: **10 day**

Required Project Information: Report To: **Brian Voelker** Copy To: **Jason Stuckey**  
 Purchase Order No.: Project Name: Project Number: **2285**

Invoice Information: Attention: **Jason Stuckey** Company Name: **Vistra Corp** Address: **see Section A**  
 Quote Reference: Project Manager: Profile #:

REGULATORY AGENCY: NPDES **GROUND WATER** DRINKING WATER  
 UST RCRA OTHER  
 Site Location: STATE: **IL**

EDW-257-301

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW PRODUCT P SOLID S SLURRY SL WIPES WIP AIR AS OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1			AW-21							
2			SG-01							
3			XPW01A	G	6/12/23	1532	14			
4			XPW02							
5			XPW03							
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: *Brenden Blum* DATE: *6/12/23* TIME: *1645*

ACCEPTED BY / AFFILIATION: *Vera Wojan* DATE: *6-13-23* TIME: *630*

Temp in C: *4.3*

Received on: *Y* Cooled (Y/N): *N* Sealed: *N* Samples Intact (Y/N): *Y*

SAMPLER NAME AND SIGNATURE: *Brenden Blum* DATE Signed (MM/DD/YYYY): *06/12/23*

PRINT Name of SAMPLER: *Brenden Blum*

SIGNATURE of SAMPLER: *Brenden Blum*

GFO 2086  
VMW 6-13-23

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND

EDW-257-301

**CHAIN-OF-CUSTODY / Analytical Request Document**

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

**Section A**  
Required Client Information:  
Company: Visira Corp  
Address: 13496 E. 900th St  
Email To: Brian.Voelker@VisiraCorp.com  
Phone: (217) 753-8911 Fax:  
Requested Date/Time/TAT: 10 day

**Section B**  
Required Project Information:  
Report To: Brian Voelker  
Copy To: Jason Stuckey  
Purchase Order No.:  
Project Name:  
Project Number: 2285

**Section C**  
Invoice Information:  
Attention: Jason Stuckey  
Company Name: Visira Corp  
Address: see Section A  
State: IL  
Site Location: IL

**REGULATORY AGENCY**  
NPDES GROUND WATER DRINKING WATER  
UST RCRA OTHER

Page:          of         

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WWT WASTE WATER WOV PRODUCT P SOIL/SOLID SL OIL OL WIPE WIP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Methanol Other	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.	
											Residual Chlorine (Y/N)	Temp in °C		
1	AW-10		WG		6/13/23	1320		15						
2	AW-11					1354								
3	AW-14					1120								
4	AW-17					1529								
5	XPW 02					1206								
6	XPW 03					1338								
7	AW-10 Dup					1520								
8														
9														
10														
11														
12														
13														
14														
15														
16														

**EDW-23Q2-Rev 0-Part A-Lab**

RELINQUISHED BY / AFFILIATION: Jason R Reed DATE: 6/13/23 TIME: 1651

ACCEPTED BY / AFFILIATION: Jason R Reed DATE: 6-13-23 TIME: 1651

Temp in °C: 17.7

Received on: Y Sealed: Y Cooled: N Samples Intact (Y/N): Y

**SAMPLER NAME AND SIGNATURE**  
PRINT Name of SAMPLER: Jason R Reed  
SIGNATURE of SAMPLER: [Signature] DATE Signed (MM/DD/YYYY): 6/13/23

GFO 2677  
 Vnuw 6-14-23

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

**Section A**  
 Required Client Information:  
 Company: **Visira Corp**  
 Address: **13498 E. 900th St**  
 Email To: **Brian.Voelker@VisiraCorp.com**  
 Phone: **(217) 753-8911** Fax:  
 Requested Due Date/TAT: **10 day**

**Section B**  
 Required Project Information:  
 Report To: **Brian Voelker**  
 Copy To: **Jason Stuckey**  
 Purchase Order No.:  
 Project Name:  
 Project Number: **2285**

**Section C**  
 Invoice Information:  
 Attention: **Jason Stuckey**  
 Company Name: **Visira Corp**  
 Address: **see Section A**  
 Quote Reference:  
 Project Manager:  
 Profile #:

**REGULATORY AGENCY**  
 NPDES  GROUND WATER  DRINKING WATER   
 UST  RCRA  OTHER   
 Site Location  IL   
 STATE:

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRECIPITATION P SOIL/SOLID S OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAV C=COMP)	COLLECTED DATE TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.								
								Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> SO <sub>3</sub>	Methanol	Other	Analysis Test ↓	EDW-267-301		EDW-845-301	EDW-SUP-000	Residual Chlorine (Y/N)					
1	APOSS		GT		6/14/23 1034	15																				
2	AW-01		GT		6/14/23 1235	15																				
3	AW-06		GT		6/14/23 1033	15																				
4	AW-08		GT		6/14/23 1421	15																				
5	AW-18		GT		6/14/23 1208	15																				
6	AW-19	run 6-14-23	GT		6/14/23 1340	15																				
7	AW-19 FOR DUP		GT		6/14/23 1540	15																				
8	AW-21		GT		6/14/23 1540	15																				
9	AW-21		GT		6/14/23 1603	15																				
10	AW-21		GT		6/14/23 1603	15																				
11																										
12																										
13																										
14																										
15																										
16																										

**EDW-23Q2-Rev 0-Part A-Lab**

RELINQUISHED BY / AFFILIATION: **Bredden Blevins** DATE: **6-14-23** TIME: **1654**

ACCEPTED BY / AFFILIATION: **Van Wygen** DATE: **6-14-23** TIME: **1654**

RECEIVED ON: **6-14-23** TEMP IN °C: **20.5**

CUSTODY SEALED: **Y** COOLER (Y/N): **N** SAMPLES INTACT (Y/N): **Y**

SAMPLER NAME AND SIGNATURE: **Bredden Blevins** DATE SIGNED (MM/DD/YYYY): **6/14/23**

PRINT Name of SAMPLER: **Bredden Blevins**

SIGNATURE of SAMPLER: **Bredden Blevins**



GFO2943  
 Vmw 6-15-23

**CHAIN-OF-CUSTODY / Analytical Request Document**

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

**Section A**  
 Required Client Information:  
 Company: Vistra Corp  
 Address: 13498 E. 900th St  
 Email To: Brian.Voelker@VistraCorp.com  
 Phone: (217) 753-8811 Fax: \_\_\_\_\_  
 Requested Due Date/TAT: 10 day

**Section B**  
 Required Project Information:  
 Report To: Brian Voelker  
 Copy To: Jason Stuckey  
 Purchase Order No.: \_\_\_\_\_  
 Project Name: \_\_\_\_\_  
 Project Number: 2285

**Section C**  
 Invoice Information:  
 Attention: Jason Stuckey  
 Company Name: Vistra Corp  
 Address: see Section A  
 Quote Reference: \_\_\_\_\_  
 Project Manager: \_\_\_\_\_  
 Profile #: \_\_\_\_\_

REGULATORY AGENCY  
 MPDES GROUND WATER DRINKING WATER  
 UST RCRA OTHER  
 Site Location IL  
 STATE: \_\_\_\_\_

ITEM #	Section D Required Client Information	Valid Matrix Codes CODE DOMESTIC WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WIFE AIR OTHER ISSUE	MATRIX CODE (see yield codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		PRESERVATIVES	ANALYSIS TEST	Requested Analysis Filtered (Y/N)	Project No./ Lab I.D.
					DATE	TIME				
1	SAMPLE ID (A-Z, 0-9 / .) Sample ID MUST BE UNIQUE		WTG		6/15/23	1103	Unpreserved H <sub>2</sub> SO <sub>4</sub> HNO <sub>3</sub> HCl NaOH Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> Mercuric Other	Analysis Test		
2			WTG		6/15/23	1131				
3						6/15/23	1400			
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										

**Section E**  
 ADDITIONAL COMMENTS  
EDW-23Q2-Rev 0-Part A-Lab

RELINQUISHED BY / AFFILIATION: Joseph R Reed DATE: 6/15/23 TIME: 1522

ACCEPTED BY / AFFILIATION: Vanessa Wilson DATE: 6-15-23 TIME: 1522

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: Joseph R Reed  
 SIGNATURE of SAMPLER: Joseph R Reed

DATE SIGNED (MM/DD/YYYY): 6/15/23

Received on 6/15/23 Y N  
 ICA (Y/N) Y  
 Curbody Sealed Y  
 Cooler (Y/N) N  
 Intcd (Y/N) Y



**SAR-3: Depth to Groundwater Measurements**

Plant: EDW  
Event: EDW-23Q2 Rev 1

Well	Unique ID	Episodic	Transducer	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	
									WL from HOBConnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		
AP05S	EDW_AP05#S		X	301	AP									
AP07S	EDW_AP07#S		X	301	AP									
AP08	EDW AP08	X		301	AP	6/12/23	10:34	9.31						BG
AP09	EDW AP09	X		301	AP	6/12/23	10:48	11.40						BG
APW-01	EDW APW-01	X		301	AP	6/12/23	11:04	6.76						BG
AW-01	EDW AW-01		X	301	AP							21615144		
AW-05	EDW AW-05		X	301	AP							21615132		
AW-06	EDW AW-06		X	301	AP							21615127		
AW-08	EDW AW-08		X	301	AP							21615722		
AW-09	EDW AW-09		X	301	AP							21615130		
AW-10	EDW AW-10		X	301	AP							21615754		
AW-11	EDW AW-11		X	301	AP							21615129		
AW-14	EDW AW-14	X		301	AP	6/12/23	10:35	7.33						BG
AW-15	EDW AW-15		X	301	AP							21615761		
AW-15S	EDW AW-15#S		X	301	AP							21629298		
AW-16	EDW AW-16		X	301	AP							21615714		
AW-17	EDW AW-17		X	301	AP							21615756		

**SAR-3: Depth to Groundwater Measurements**

Plant: EDW  
Event: EDW-23Q2 Rev 1

Well	Unique ID	Episodic	Transducer	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Transducer				Initials	
									WL from HOBConnect (ft)	Downloaded Y/N	Data Logger Serial No.	Batt (H/M/L)		
AW-18	EDW_AW-18		X	301	AP						21615763			
AW-19	EDW_AW-19		X	301	AP						21615718			
AW-20	EDW_AW-20	X		301	AP	6/12/23	10:51	17.61					BG	
AW-21	EDW_AW-21		X	301	AP						21615514			
AW-23	EDW_AW-23		X	000	Ameren						21615741			
EMW-05	EDW_EMW-05		X	301	AP						21615739			
OW-01	EDW_OW-01	X		301	AP	6/12/23	10:27	24.39					BG	
OW-02	EDW_OW-02	X		301	AP	6/12/23	10:37	7.95					BG	
PTW-01	EDW_PTW-01	X		301	AP	6/12/23	10:24	26.08					BG	
PTW-02	EDW_PTW-02	X		301	AP	6/12/23	10:39	8.14					BG	
XPW01A	EDW_XPW01A_pore		X	301	AP						21615740			
XPW02	EDW_XPW02_pore		X	301	AP						21615752			
XPW03	EDW_XPW03_pore		X	301	AP						21629300			
SG-01	EDW_YILRIVER		X	301	AP	6/12/23	11:06	441.5			TBD		BG	
SG-02	EDW_YSG-02	X		301	AP									
SG-03	EDW_YSG-03	X		301	AP									

WELL/SAMPLE POINT AP05S

Purge Method: Submersible

Date: 6/14/23 Start Time: 9:15 Finish/Sample Time: 10:34

Well Depth (Bottom) From MP: 40.10 ft Min. Purge Volume: 1.5 Gal

Depth to Water From MP: 5.71 ft Total Purge Volume: 1.8 Gal

Water Column Length:        ft Max Drawdown:        ft

Well Water Volume:        Gal / L Total Drawdown: 0.18 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	9:39	5.90	100	6.84	1657	18.57	-150	0.08	1918
2	9:40	5.91	100	6.84	1678	18.55	-151	0.06	1983
3	9:41	5.71	100	6.85	1699	18.54	-151	0.06	1901
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
3	<u>A.V., 40 mL</u>
1	<u>P, 250 mL, HNO3</u>

Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	<u>A.V., 40 mL, H2SO4</u>

1 P, 500 mL, NaOH + ZnAC  
 Comments very soft bottom

Ferrous Iron Over Range  $> 6$  mg/L  
 S/N-21629301

End DTW 5.89ft

Sampler's Signature: Joseph N. Reed



WELL/SAMPLE POINT **AP07S**

Purge Method: submersible

Date: 6/15/23 Start Time: 945 Finish/Sample Time: 1103

Well Depth (Bottom) From MP: 37.31 ft Min. Purge Volume: 1.5 Gal/L  
 Depth to Water From MP: 25.61 ft Total Purge Volume: 1.8 Gal/L  
 Water Column Length: 311.70 ft Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: 7.08 Gal (L) Total Drawdown: 0.15 ft

Reading (Units)	Time	Depth ft	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1009	26.20	100	686	1404	2055	64.1	2.22	1240
2	1010	26.20	100	683	1423	2055	63.2	2.15	1003
3	1011	26.20	100	682	1439	2057	61.5	1.99	901
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: ATI 600

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign		
Casing locked/secure		
Well cap fits securely.		
Good seal/drainage		
Well has weep holes		

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, <del>300</del> mL) <u>1000mL</u>
1	<u>NaOH+ZnAc (500ml)</u>
1	<u>2.5L HNO3</u>

15

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, <del>300</del> mL) <u>1000mL</u>
3	<u>TOC</u>

Ferrous Iron 0.247 mg/L

Comments S/N - 21615552

End DTW 25.76 Sampler's Signature: [Signature]



WELL/SAMPLE POINT AW-01

Purge Method: Bladder

Date: 6/14/23 Start Time: 1100 Finish/Sample Time: 1235

Well Depth (Bottom) From MP: 9ump ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 10.02 ft Total Purge Volume: 1.8 Gal / L

Water Column Length:        ft Max Drawdown:        ft

Well Water Volume:        Gal / L Total Drawdown: 10.74 ft

Reading (Units)	Time	Depth ft	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1125	12.55	100	6.81	1231	18.57	-74	0.23	206
2	1126	12.79	100	6.81	1250	18.40	-73	0.19	196
3	1127	13.07	100	6.82	1275	18.22	-72	0.15	196
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:  
Odor:  None  Slight  Mod.  Strong  
Color:  None  Slight  Mod.  Strong  
Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) / L
3	A.V.U 40mL
1	P, 250mL, HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	A.V, 40mL, H2SO4

Ferrous Iron 6.267 mg/L

Comments 5/12/16 15144

End DTW 20.76 Sampler's Signature: Joseph R Reed

WELL/SAMPLE POINT AW-05

Purge Method: Dedicated PUMP

Date: 6-15-23 Start Time: 09:50 Finish/Sample Time: 11:31

Well Depth (Bottom) From MP: 22.14 ft TOP OF PUMP Min. Purge Volume: 1.5 Gal/L

Depth to Water From MP: 09:20 ft Total Purge Volume: 1.8 Gal/L

Water Column Length: 12.94 ft Max Drawdown: NA ft

Well Water Volume: 2.0 Gal/L Total Drawdown: 0.13 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	10:14	09.35	100	6.99	1,540	23.92	99	0.34	+1000
2	10:15	09.33	100	6.97	1,550	23.97	98	0.28	+1000
3	10:16	09.32	100	6.96	1,550	23.81	95	0.27	+1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

> 1000  
> 1000  
> 1000

Field Meter: Horiba

Sample Appearance:  
Odor:  None  Slight  Mod.  Strong  
Color:  None  Slight  Mod.  Strong  
Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	<u>2-ZNAC</u>
1	<u>2.5% HCL</u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	<u>TOC</u>

Ferrous Iron 3.010 mg/L

Comments NA FD -> 09.33

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-06

Purge Method: Bladder

Date: 6/14/23 Start Time: 0910 Finish/Sample Time: 1033

Well Depth (Bottom) From MP: 41.82 ft *end DTW* Min. Purge Volume: 1.5 Gal (L)  
 Depth to Water From MP: 27.62 ft *37.55* Total Purge Volume: 1.9 Gal (L)  
 Water Column Length: 14.20 ft Max Drawdown:      ft  
 Well Water Volume: 8.60 Gal (L) Total Drawdown: 9.93 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	0928	30.38	100	7.06	1050	16.13	-98	1.50	379
2	0929	30.53	100	7.09	1060	16.15	-98	1.43	370
3	0930	30.60	100	7.09	1030	16.18	-99	1.41	340
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1L
3	A V U 40mL
1	P, 2.5L HNO3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250mL) 1L
3	A,V, 40mL, H2SO4

Ferrous Iron 2.250 mg/L

Comments: Transducer #21615127

Sampler's Signature: Brenden Shivers

WELL/SAMPLE POINT AW-08

Purge Method: Pump

Date: 6/13/23 Start Time: 1303 Finish/Sample Time: 1424

Well Depth (Bottom) From MP: Pump ft Min. Purge Volume: 1.5 Gal/L  
 Depth to Water From MP: 23.92 ft Total Purge Volume: 1.9 Gal/L  
 Water Column Length:      ft Max Drawdown:      ft  
 Well Water Volume:      Gal/L Total Drawdown:      ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1320	26.44	100	7.13	1322	19.38	-153	8.14	0.0
2	1321	26.62	100	7.12	1350	19.38	-150	8.15	0.0
3	1322	26.80	100	7.09	1353	19.38	-141	8.16	0.0
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
3	A.V, 40mL
1	P, 250mL, HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	A.V, 40mL, H2SO4

1 P, 500mL, NaOH+ZnAC

Ferrous Iron Over Range mg/L

Comments \_\_\_\_\_

End 36.56 DTW  
 Sampler's Signature: Joseph R Reed

WELL/SAMPLE POINT AW-09

Purge Method: Dedicated Bladder

Date: 6/12/23 Start Time: 1234 Finish/Sample Time: 1405

Well Depth (Bottom) From MP: 47.20 ft  
 Depth to Water From MP: 26.65 ft  
 Water Column Length: 20.55 ft  
 Well Water Volume: 12.45 Gal / L

Min. Purge Volume: 1.5 Gal / L  
 Total Purge Volume: 1.8 Gal / L  
 Max Drawdown: — ft  
 Total Drawdown: — ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1256	29.89	100	6.89	1540	16.22	-122	1.86	72.0
2	1257	30.03	100	6.89	1540	16.21	-122	1.79	70.9
3	1258	30.19	100	6.89	1550	16.19	-122	1.71	67.2
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Well cap fits securely.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Good seal/drainage	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) JL
1	P, 2.5L, HNO3
1	P, 500ml, NaOH + Zn Ac
3	A, V, U, 40 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250 mL) JL
3	A, V, 40 mL, H2SO4

Ferrous Iron Over Range <sup>> 6</sup> mg/L

Comments Transducer # 21615130  
Photometer sample was bright orange

Sampler's Signature: Brendan Hines



WELL/SAMPLE POINT AW-10

Purge Method: Submersible Bladder

Date: 6/13/23 Start Time: 1304 Finish/Sample Time: 1520

Well Depth (Bottom) From MP: 1.96 ft  
 Depth to Water From MP: 1.96 ft  
 Water Column Length: — ft  
 Well Water Volume: — Gal / L

Min. Purge Volume: 1.5 Gal / L  
 Total Purge Volume: 1.8 Gal / L  
 Max Drawdown: — ft  
 Total Drawdown: 7.12 ft

Reading (Units)	Time	Depth ft	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1321	3.18	100	6.92	2202	21.40	-153	0.02	1831
2	1322	3.24	100	6.91	2188	21.29	-153	0.02	1002
3	1323	3.31	100	6.91	2174	21.09	-151	0.01	991
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C.V, 40mL, HCL)
3+3	VOAS (C.V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3+3	TOC (A.V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1+1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1+1	General (P, 250 mL) 1000
1+1	2.5 L HNO3
1+1	NaOH + Zn Ac (500mL)

(15)  
+  
(15)

Filtered	
Qty	Bottles
1+1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1+1	General (P, 250 mL) 1000
3+3	TOC 40 mL

Ferrous iron Over Range <sup>>6</sup> mg/L

Comments Well has a duplicate taken

End DTW  
9.08

Sampler's Signature: Joseph A. Paul

WELL/SAMPLE POINT AW-11

Purge Method: B ladder

Date: 6/13/23 Start Time: 1129 Finish/Sample Time: 1254

Well Depth (Bottom) From MP: pump ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 5.72 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: - ft Max Drawdown: - ft

Well Water Volume: - Gal / L Total Drawdown: 0.01 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1145	5.79	100	7.05	1776	17.60	-163	0.02	312
2	1146	5.79	100	7.04	1760	17.58	-162	0.07	321
3	1147	5.79	100	7.03	1757	17.58	-160	0.10	329
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, <del>25</del> mL) <u>1000 mL</u>
1	<u>2.5 L HNO<sub>3</sub></u>
1	<u>NaOH + Zn Ac (500 mL)</u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, <del>500</del> mL) <u>1000 mL</u>
3	<u>TOC</u>

Ferrous Iron Over Range <sup>>6</sup> mg/L

Comments End DTW - 5.73

Sampler's Signature: Joseph R Reed

WELL/SAMPLE POINT **AW-14**

Purge Method: Bladder

Date: 6/13/23 Start Time: 1000 Finish/Sample Time: 1120

Well Depth (Bottom) From MP: pdmp ft Min. Purge Volume: 1.5 Gal/L  
Depth to Water From MP: 7.29 ft Total Purge Volume: 1.8 Gal/L  
Water Column Length: — ft Max Drawdown: — ft  
Well Water Volume: — Gal/L Total Drawdown: 11.16 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1016	9.50	100	6.88	1873	18.11	-152	0.15	5.77
2	1017	9.65	100	6.88	1874	18.09	-152	0.15	15.05
3	1018	9.80	100	6.88	1875	17.95	-152	0.14	10.41
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: AT600

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
Color:  None  Slight  Mod.  Strong  
Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	
Casing locked/secure	<input checked="" type="checkbox"/>	
Well cap fits securely.	<input checked="" type="checkbox"/>	
Good seal/drainage	<input checked="" type="checkbox"/>	
Well has weep holes	<input checked="" type="checkbox"/>	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, <del>50</del> mL) <u>1000 mL</u>
1	<u>NaOH + Zn Ac (500mL)</u>
1	<u>2.5 L HNO3</u>

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, <del>50</del> mL) <u>1000mL</u>
3	<u>TOC</u>

Ferrous Iron Over Range <sup>>6</sup> mg/L

Comments: End DTW 18.45

Sampler's Signature: Joseph R. Reed

WELL/SAMPLE POINT AW-15

Purge Method: Dedicated PUMP

Date: 6-12-23 Start Time: 13:07 Finish/Sample Time: 14:35

Well Depth (Bottom) From MP: PUMP ft  
 Depth to Water From MP: 08.48 ft  
 Water Column Length: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal/L

Min. Purge Volume: 1.5 Gal/L  
 Total Purge Volume: 1.8 Gal/L  
 Max Drawdown: NA ft  
 Total Drawdown: 0.08 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	13:27	8.54	100	6.63	1,980	17.56	-97	0.38	43.8
2	13:28	8.53	100	6.62	1,980	17.43	-98	0.36	44.1
3	13:29	8.55	100	6.63	1,970	17.39	-101	0.27	46.5
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, <del>250mL</del> ) 1L
1	P, 2.5L, HNO3
1	P, 500mL, NaOH + Zn AC
3	A,V, U, 40mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, <del>500mL</del> ) 1L
3	A, V, 40mL, H2SO4

Ferrous Iron >6 OVER RANGE mg/L

Comments FD -> 08.56

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-15S

Purge Method: Bladder

Date: 6/12/27 Start Time: 1225 Finish/Sample Time: 1329

Well Depth (Bottom) From MP: JR Pump 485 ft Min. Purge Volume: 1.5 Gal/L

Depth to Water From MP: 9.87 ft Total Purge Volume: 1.8 Gal/L

Water Column Length: - ft Max Drawdown: - ft

Well Water Volume: - Gal/L Total Drawdown: 5.07 ft

End DTW 14.90

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1245	11.38	100	6.66	1840	15.86	42	6.20	29.1
2	1246	11.40	100	6.66	1830	15.85	40	6.09	23.8
3	1247	11.39	100	6.65	1840	15.95	38	6.00	29.1
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3 + 1	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000
1	2.52 HNO3
1	NaOH + ZnAc 500mL

15

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250mL) 1000mL
3	TOC

Ferrous Iron 0.109 mg/L

Comments \_\_\_\_\_

Sampler's Signature: Joseph R Reed



WELL/SAMPLE POINT **AW-16**

Purge Method: Bladder

Date: 6/12/23 Start Time: 1445 Finish/Sample Time: 1552

Well Depth (Bottom) From MP: Pump ft Min. Purge Volume: 1.5 Gal/L

Depth to Water From MP: 2030 ft Total Purge Volume: 1.8 Gal/L

Water Column Length: — ft Max Drawdown: — ft

Well Water Volume: — Gal/L Total Drawdown: 5.43 ft

End DTM: 25.73

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1504	25.73	100	6.54	2110	17.90	-100	0.61	91.9
2	1505	25.73	100	6.53	2120	17.90	-100	0.57	80.2
3	1506	25.73	100	6.51	2110	17.88	-101	0.51	77.4
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: HoriBa

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL
1	2.5L HNO3
1	NaOH + ZnAc 500mL

13

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250mL) 1000 mL
	TOC

Ferrous Iron Over Range >6 mg/L

Comments

Sampler's Signature: Joseph A Read

WELL/SAMPLE POINT AW-17

Purge Method: Dedicated Bladder

Date: 6/13/23 Start Time: 1350 Finish/Sample Time: 1520

Well Depth (Bottom) From MP: 56.25 ft  
 Depth to Water From MP: 25.38 ft  
 Water Column Length: 30.87 ft  
 Well Water Volume: 18.69 Gal  $\text{\textcircled{D}}$

Min. Purge Volume: 1.6 Gal  $\text{\textcircled{D}}$   
 Total Purge Volume: 1.9 Gal  $\text{\textcircled{D}}$   
 Max Drawdown: — ft  
 Total Drawdown: 1.81 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1410	26.55	100	7.08	1890	17.20	-111	0.64	148
2	1411	26.61	100	7.06	1910	17.11	-111	0.61	150
3	1412	26.60	100	7.05	1910	17.65	-111	0.69	124
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, <del>250mL</del> 1L)
3	A.V.U. 40mL
1	P, 2.5L, HNO3
1	P, 500mL, NaOH + ZnAC

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, <del>250mL</del> 1L)
3	A.V. 40mL, H2SO4

Ferrous Iron Over Range <sup>>6</sup> mg/L

Comments Transducer # 2161575C

Sampler's Signature: Brenden [Signature]

WELL/SAMPLE POINT **AW-18**

Purge Method: Bladder

Date: 6/13/22 Start Time: 1044 Finish/Sample Time: 1208

Well Depth (Bottom) From MP: 51.62 ft Min. Purge Volume: 1.5 Gal  L  
 Depth to Water From MP: 28.14 ft Total Purge Volume: 1.8 Gal  L  
 Water Column Length: 23.48 ft Max Drawdown: — ft  
 Well Water Volume: 14.22 Gal  L Total Drawdown: 4.39 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1059	29.62	100	6.73	1820	17.68	-102	1.92	235
2	1100	29.71	100	6.73	1810	17.58	-103	1.80	221
3	1101	29.77	100	6.73	1790	17.52	-105	1.73	218
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horioba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, <del>250mL</del> 1L)
3	A, V, V, 40mL
1	P, 2.5L, HNO3
1	P, 500mL, NaOH+ZnAc

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL)
3	A, V, 40mL, H2SO4

Ferrous Iron Over Range <sup>>6</sup> mg/L

Comments: Transducer # 21615763

Sampler's Signature: Brendan [Signature]

WELL/SAMPLE POINT **AW-19**

Purge Method: Bladder

Date: 6/13/23 Start Time: 12:17 Finish/Sample Time: 1340

Well Depth (Bottom) From MP: 38.34 ft  
 Depth to Water From MP: 14.70 ft  
 Water Column Length: 23.64 ft  
 Well Water Volume: 14.32 ~~8.26~~ Gal (L)  
 Min. Purge Volume: 1.5 Gal (L)  
 Total Purge Volume: 1.8 Gal (L)  
 Max Drawdown:        ft  
 Total Drawdown: 3.20 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1235	16.41	100	6.93	1120	17.06	-52	2.31	94.2
2	1236	16.48	100	6.93	1110	17.02	-52	2.36	31.4
3	1237	16.55	100	6.94	1110	16.99	-52	2.33	27.9
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3+3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1+1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1+1	General (P, 250 mL)
3+3	A V 40 mL U
1+1	P, 2.5L, HNO3
1+1	P, 500 mL, NaOH + ZnAc

Filtered	
Qty	Bottles
1+1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1+1	General (P,500mL)
3+3	A, V, 40 mL, H2SO4

Ferrous Iron Over Range >6 mg/L

Comments: Transducer #21615718 Field Dupe Filled here

Sampler's Signature: Brenden Hagan

WELL/SAMPLE POINT **AW-21**

Purge Method: Bladder

Date: 6/13/23 <sup>14 Dec</sup> Start Time: 1418 Finish/Sample Time: 1540

Well Depth (Bottom) From MP: 33.50 ft Top of Pump Min. Purge Volume: 1.5 Gal (L)

Depth to Water From MP: 18.48 ft Total Purge Volume: 1.8 Gal (L)

Water Column Length:      ft Max Drawdown:      ft

Well Water Volume:      Gal / L Total Drawdown: 1.56 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1433	19.49	100	7.10	975	17.81	-22	2.77	6.6
2	1434	19.57	100	7.11	980	17.46	-25	2.74	5.6
3	1435	19.56	100	7.12	983	17.41	-28	2.71	6.4
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
3	A.V. 40 mL
1	P, 2.5L, HNO3
1	P, 500 mL, NaOH + Zn AC

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	A.V. 40 mL, H2SO4

Ferrous Iron 1.445 mg/L

Comments: Transducer # 21615514

Sampler's Signature: [Signature]



WELL/SAMPLE POINT XPW01A

Purge Method: Dedicated Bladder

Date: 6/12/23 Start Time: 1402 Finish/Sample Time: 1532

Well Depth (Bottom) From MP: 36.43 ft  
 Depth to Water From MP: 12.94 ft 13.02  
 Water Column Length: 23.49 ft  
 Well Water Volume: 14.23 Gal/Ⓛ  
 Min. Purge Volume: 1.5 Gal/Ⓛ  
 Total Purge Volume: 1.8 Gal/Ⓛ  
 Max Drawdown: — ft  
 Total Drawdown: 0.08 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1442	13.12	100	11.85	2120	17.54	-121	2.39	0.0
2	1443	13.12	100	11.86	2120	17.45	-124	2.27	0.0
3	1444	13.12	100	11.86	2110	17.41	-125	2.24	0.0
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: HoriBa

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1L
1	P, 500mL, NaOH+ZnAC
3	A, V, U, 40mL

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1L
3	A, V, 40mL H2SO4

Ferrous Iron 0.131 mg/L

Comments Transducer #21615740

Sampler's Signature: Brendan Shanon

WELL/SAMPLE POINT XPW02

Purge Method: Dedicated Bladder

Date: 6/13/23 Start Time: ~~0955~~ 8:47 Finish/Sample Time: 1206

Well Depth (Bottom) From MP: 40.63 ft 1042  
 Depth to Water From MP: 22.13 ft  
 Water Column Length: 18.50 ft  
 Well Water Volume: 11.20 Gal (L)  
 Min. Purge Volume: 15 Gal/L  
 Total Purge Volume: 19 Gal/L  
 Max Drawdown:      ft  
 Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1059	22.13	100	12.28	5030	17.27	-109	1.44	9.9
2	1100	22.13	100	12.28	5050	17.23	-110	1.37	8.7
3	1101	22.13	100	12.29	5010	17.13	-113	1.30	8.8
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P, 250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL)
3	A.V.U 40mL
1	P, 2.5L, HNO3
1	P, 500ml, NaOH + ZnAc

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) <u>IL</u>
3	A.V. 40mL, H2SO4

Ferrous Iron 6.532 mg/L

Comments Transducer #21615752

Sampler's Signature: Brendan Elman

WELL/SAMPLE POINT XPW03

Purge Method: Dedicated Bladder

Date: 6/13/23 Start Time: 1215 Finish/Sample Time: 1338

Well Depth (Bottom) From MP: 31.52 ft  
 Depth to Water From MP: 18.22 ft  
 Water Column Length: 13.30 ft  
 Well Water Volume: 8.05 Gal   
 Min. Purge Volume: 1.5 Gal   
 Total Purge Volume: 18 Gal   
 Max Drawdown: — ft  
 Total Drawdown: 0.18 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1233	18.40	100	11.82	2200	17.81	-196	3.72	2.1
2	1234	18.40	100	11.86	2190	17.67	-198	3.68	6.1
3	1235	18.40	100	11.90	2170	17.74	-199	3.66	5.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P, 250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
3	A.V. U 40ml
1	2.5L P, HNO3
1	P, 500mL, NaOH + ZnAC

Filtered	
Qty	Bottles
1	Metals (P, 250mL, HNO3)
	Ammonia (P, 250mL, H2SO4)
1	General (P, 500mL)
3	A.V. 40mL, H2SO4

Ferrous Iron 5.521 mg/L

Comments Transducer # 21629300

Sampler's Signature: Brendan Blum

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Brendan Glennon</b>			Location: <b>Edwards</b>		
Weather: <b>65° Mostly Sunny 12 mph SE</b>			Environment: <b>Gravel</b>		
Multiparameter Water Meter		Make: <b>AQ Hribar</b>	Model: <b>200</b>	Serial Number: <b>PW26YJ03</b>	
Water Level Meter		Make: <b>Itron</b>	Model: <b>200</b>	Serial Number: <b>19FF211192HB</b>	

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.92	s.u.	±0.1 s.u.	P	N	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.04	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%				Geotech	4GK328	Nov-22
ORP	240	mV	±15 mV				InSitu	3GC927	Dec-22
DO (Zero pt)	0.05	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.7	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

SC 2000  
2GK2086  
Exp. Nov-23  
W-118  
ORP

Approx. every 4 hrs, unless only one well

### ICV (Initial Calibration Verification)

Time: **11:20**

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.15	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24
pH 7.00b	6.93	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.86	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1010	µS/cm	±5%			Ricca	4205H64	May-24

3GD927  
Exp. Jan-24  
Bg 8/9/23

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time: **16:00**

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	N	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1031	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.05	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <b>Brendan Glennon</b>	Date: <b>6/12/23</b>
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### Multiparameter Meter Field Calibration Checklist

Field Personnel:	KYLE LANE			Location:	EDWARDS POWER				
Weather:	59 to 75 sunny			Environment:	Dry				
Multiparameter Water Meter	Make:	Horiba	Model:	V-5000	Serial Number:	SL91L594A			
Water Level Meter	Make:	Heron	Model:	Water temp. probe	Serial Number:	19FF2202131ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	6.92	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
pH 10.00a	9.99	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2037	µS/cm	±5%	P	NA	NA	Geotech	3GA1071	Jan-24
ORP	214	mV	±15 mV	P	NA	NA	InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	98.4%	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.33	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:	11:49			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	3.92	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	Mar-24		
pH 7.00b	6.89	s.u.	±0.15 s.u.	P	NA	Geotech	2GC931	Mar-24		
pH 10.00b	9.92	s.u.	±0.15 s.u.	P	NA	Geotech	2GE820	May-24		
SC 1000	1000	µS/cm	±5%	P	NA	Ricca	4207N97	Jul-24		

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:	NA			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023	
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023	
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024	
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24	
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025	
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:	14:18			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a	4.04	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023	
7.00a	7.00	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023	
10.00a	10.00	s.u.	±0.1 s.u.	P	NA	NA	MSI	M082-04	3/25/2024	
SC 1000	1020	µS/cm	±5%	P	NA	NA	Ricca	4207N97	Jul-24	
DO (Zero pt)	0.86	mg/L	±0.1 mg/L	P	NA	NA	Macron	#000228049	8/26/2025	
Turbidity (DI)	0.0	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)	

Comments:

Signature:	<i>Kyle Lane</i>	Date:	6/2-23
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Joe Reed</b>				Location: <b>Edwards power station</b>					
Weather:				Environment: <b>dusty/gravel/grass</b>					
Multiparameter Water Meter		Make: <b>aquatrol</b>	Model: <b>600</b>	Serial Number: <b>739449</b>					
Water Level Meter		Make: <b>solinst</b>	Model: <b>100</b>	Serial Number: <b>33459</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.01</b>	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	<b>7.00</b>	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	<b>10.01</b>	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	<b>1.5</b>	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>2011</b>	µS/cm	±5%	P	N		Geotech	<del>1GK328</del>	<del>Nov-22</del>
ORP	<b>231</b>	mV	±15 mV	P	N		InSitu	<del>2GC922</del>	<del>Dec-22</del>
DO (Zero pt)	<b>0.04</b>	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	<b>98.9</b>	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.0</b>	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <b>935</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<b>3.99</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24	
pH 7.00b	<b>7.00</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GC931	Mar-24	
pH 10.00b	<b>7.98</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24	
SC 1000	<b>1009.</b>	µS/cm	±5%	P	N	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <b>1550</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.02</b>	s.u.	±0.1 s.u.	P	N		MSI	L315-04	11/22/2023
pH 7.00a	<b>7.00</b>	s.u.	±0.1 s.u.	P	N		MSI	L172-33	6/23/2023
pH 10.00a	<b>10.01</b>	s.u.	±0.1 s.u.	P	N		MSI	L354-22	1/5/2024
SC 1000	<b>1019</b>	µS/cm	±5%	P	N		Ricca	2108D48	Jul-23
DO (Zero pt)	<b>0.04</b>	mg/L	±0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	<b>0.0</b>	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <b>Joseph R Reed</b>	Date: <b>6/13/23</b>
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5G 2000  
 26K086  
 Exp. Nov 23  
 LA 7/28  
 ORP  
 36D927  
 Exp. Jan 24  
 8G  
 8/9/23



## Multiparameter Meter Field Calibration Checklist

Field Personnel: Brendan Glennon Location: Edwards

Weather: 69° Mostly Cloudy 12 mph E Environment: Grave Road

Multiparameter Water Meter Make: Fribra Model: BOS2 Serial Number: PL0264JD3

Water Level Meter Make: Heron Model: Dier-T Serial Number: 19FF2111924B

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	±0.1 s.u.	P	N	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.08	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	11.12	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2030	µS/cm	±5%	P	N		Geotech	16K328	Nov-23
ORP	241	mV	±15 mV	P	N		InSitu	26C827	Dec-23
DO (Zero pt)	0.07	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	99.1	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

CU  
7/21  
  
SC 2000  
26K328  
Nov-23  
LA 7/18  
  
ORP  
360927  
Exp Jan 24  
SC 8/4/23

Approx. every 4 hrs, unless only one well

### ICV (Initial Calibration Verification) Time: 0910

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.10	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24
pH 7.00b	7.04	s.u.	±0.15 s.u.	P	N	Geotech	2GC931	Mar-24
pH 10.00b	10.00	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24
SC 1000	1010	µS/cm	±5%	P	N	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification) Time: 1540

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	N	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.08	s.u.	±0.1 s.u.	P	N		MSI	L172-33	6/23/2023
pH 10.00a	9.91	s.u.	±0.1 s.u.	P	N		MSI	L354-22	1/5/2024
SC 1000	1041	µS/cm	±5%	P	N		Ricca	2108D48	Jul-23
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification) Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: Brendan Glennon Date: 6/13/23

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Brendan Glennon</u>				Location: <u>Edwards</u>					
Weather: <u>70° Partly Cloudy 4 mph S</u>				Environment: <u>Gravel Road</u>					
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>D-5000</u>	Serial Number: <u>PW26VJDB3</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>200ft.</u>	Serial Number: <u>19FF2111924B # 2</u>					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.94</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>9.96</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>18</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1430</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Geotech	<del>16K328</del>	<del>Nov-22</del>
ORP	<u>235</u>	mV	±15 mV	<u>P</u>	<u>N</u>	<u>N/A</u>	InSitu	<del>26C827</del>	<del>Dec-22</del>
DO (Zero pt)	<u>0.08</u>	mg/L	±0.1	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.1</u>	%	97-100%	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>0820</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.10</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC243	Mar-24	
pH 7.00b	<u>7.06</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC931	Mar-24	
pH 10.00b	<u>9.91</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GE820	May-24	
SC 1000	<u>981</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>1545</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1014</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>6.09</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>Brendan Glennon</u>	Date: <u>6/13/23</u> <u>14 06</u>
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SC 2000  
26K0816  
Nov. 23  
26 7/18  
ORP  
360927  
Exp Jan-24  
BGA 8/9/23

### Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed			Location:	Edwards Power					
Weather:	70° Part Cloudy Wind 4 mph			Environment:	Dusty Gravel / grass					
Multiparameter Water Meter	Make:	Aquatroll	Model:	600	Serial Number:	739449				
Water Level Meter	Make:	Solinst	Model:	101	Serial Number:	33459				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023	
pH 7.00a	7.02	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023	
pH 10.00a	10.03	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024	
SC Zero (DI)	4.51	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)	
SC 2000	226	µS/cm	±5%	P	N		Geotech	2GK328	Nov-23	
ORP	226	mV	±15 mV	P	N		InSitu	2GC827	Dec-23	
DO (Zero pt)	0.04	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025	
DO (Saturated)	99.1	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)	
Turbidity (DI)	0.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)	
Approx. every 4 hrs, unless only one well										
ICV (Initial Calibration Verification)					Time:	855				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	N	Geotech	2GC243	Mar-24		
pH 7.00b	7.00	s.u.	±0.15 s.u.	P	N	Geotech	2GC931	Mar-24		
pH 10.00b	4.99	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24		
SC 1000	1022	µS/cm	±5%	P	N	Ricca	4205H64	May-24		
Approx. every 4 hrs, unless only one well										
CCV (Continued Calibration Verification):					Time:	1600				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	N		MSI	L315-04	11/22/2023	
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	N		MSI	L172-33	6/23/2023	
pH 10.00a	10.03	s.u.	±0.1 s.u.	P	N		MSI	L354-22	1/5/2024	
SC 1000	1009	µS/cm	±5%	P	N		Ricca	2108D48	Jul-23	
DO (Zero pt)	0.07	mg/L	±0.1 mg/L	P	N		Macron	#000228049	8/26/2025	
Turbidity (DI)	0.1	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)	
Approx. every 4 hrs, unless only one well										
CCV (Continued Calibration Verification):					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023	
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023	
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024	
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23	
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025	
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)	
Comments:										
Signature:	Joseph A. Reed				Date:	6/14/23				

SC 2000  
2GK086  
Nov. 23  
LM 7/18  
ORP  
3G0927  
Exp. Jan 24  
BGI 8/9/23

23°C

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Mike Lane</u>			Location: <u>EDWARDS Power</u>		
Weather: <u>55° to 91° sunny</u>			Environment: <u>DRY</u>		
Multiparameter Water Meter	Make: <u>HORIBA</u>	Model: <u>V-5000</u>	Serial Number: <u>4L9K39HA</u>		
Water Level Meter	Make: <u>HORON</u>	Model: <u>WATER TAP</u>	Serial Number: <u>19FF2202131M2</u>		

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.04</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>9.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>28.10</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2020</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	<u>NA</u>	Geotech	3GA1071	Jan-24
ORP	<u>116</u>	mV	±15 mV	<u>P</u>	<u>NA</u>	<u>NA</u>	InSitu	2G1762	Jun-23
DO (Zero pt)	<u>0.03</u>	mg/L	±0.1	<u>P</u>	<u>NA</u>	<u>NA</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.6</u>	%	97-100%	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0</u>	NTU	<2 NTU	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>09:18</u>
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Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>3.97</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GE870	Mar-24
pH 7.00b	<u>6.94</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GC931	Mar-24
pH 10.00b	<u>9.96</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GE820	May-24
SC 1000	<u>940</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>NA</u>
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>NA</u>	s.u.	±0.1 s.u.	<u>NA</u>	<u>NA</u>	<u>NA</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>NA</u>	s.u.	±0.1 s.u.	<u>NA</u>	<u>NA</u>	<u>NA</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>NA</u>	s.u.	±0.1 s.u.	<u>NA</u>	<u>NA</u>	<u>NA</u>	MSI	M082-04	3/25/2024
SC 1000	<u>NA</u>	µS/cm	±5%	<u>NA</u>	<u>NA</u>	<u>NA</u>	Ricca	4207N97	Jul-24
DO (Zero pt)	<u>NA</u>	mg/L	±0.1 mg/L	<u>NA</u>	<u>NA</u>	<u>NA</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>NA</u>	NTU	<2 NTU	<u>NA</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>13:29</u>
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<u>7.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L344-09	12/14/2023
7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L343-07	12/9/2023
10.00a	<u>10.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	M082-04	3/25/2024
SC 1000	<u>1006</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	<u>NA</u>	Ricca	4207N97	Jul-24
DO (Zero pt)	<u>0.01</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NA</u>	<u>NA</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0</u>	NTU	<2 NTU	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Comments:

NA

Signature: <u>[Signature]</u>	Date: <u>6-15-23</u>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Joe Reed</b>			Location: <b>Edward Power Station</b>		
Weather: <b>75-91°F Sunny wind 4-8 mph</b>			Environment: <b>Gravel / Dusty / grassy</b>		
Multiparameter Water Meter	Make: <b>Aquatroll</b>	Model: <b>600</b>	Serial Number: <b>739449</b>		
Water Level Meter	Make: <b>Solinst</b>	Model: <b>101</b>	Serial Number: <b>TR739449 33459</b>		

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.02</b>	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	<b>7.04</b>	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	<b>10.03</b>	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	<b>1.1</b>	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>2002.1</b>	µS/cm	±5%	P	N		Geotech	3GA1071	Jan-24
ORP	<b>220.1</b>	mV	±15 mV	P	N		InSitu	2G1762	Jun-23
DO (Zero pt)	<b>0.04</b>	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	<b>97.9</b>	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.0</b>	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

### ICV (Initial Calibration Verification)

Time: **9:15**

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<b>4.01</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	Mar-24
pH 7.00b	<b>7.02</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GC931	Mar-24
pH 10.00b	<b>10.00</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24
SC 1000	<b>991</b>	µS/cm	±5%	P	N	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification)

Time: **14:35**

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.03</b>	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	<b>7.01</b>	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	<b>10.05</b>	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC 1000	<b>1011</b>	µS/cm	±5%	P	N		Ricca	4207N97	Jul-24
DO (Zero pt)	<b>4.05</b>	mg/L	±0.1 mg/L	P	N		Macron	#000228049	8/26/2025
Turbidity (DI)	<b>0.0</b>	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification)

Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	<b>Joseph R Reed</b>	Date:	<b>6/15/23</b>
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**Pace Analytical Services, LLC**  
2231 W. Altorfer Drive  
Peoria, IL 61615  
(800)752-6651

October 12, 2023

Brian Voelker  
Vistra - Edwards  
604 Pierce Boulevard  
O'Fallon, IL 62269

Dear Brian Voelker:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or [lisa.grant@pacelabs.com](mailto:lisa.grant@pacelabs.com).

Sincerely,

A handwritten signature in black ink that reads "Diane Billings". The signature is written in a cursive, flowing style.

Diane Billings  
Project Manager





**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

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Work Order    GH04348

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order    GH04366

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order    GH04553

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order    GH04572

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order    GH04842

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order    GH04878

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided





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Work Order    GH05495

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order    GH05497

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order    GH05632

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order    GH05671

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



## ANALYTICAL RESULTS

**Sample:** GH04348-01  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	51	mg/L	Q4	08/22/23 13:37	10	10	08/22/23 19:26	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/22/23 12:39	1	1.0	08/22/23 18:28	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	25.21	Feet		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Dissolved oxygen, Field	0.12	mg/L		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Oxidation Reduction Potential	-120	mV		08/21/23 14:28	1	-500	08/21/23 14:28	FIELD	Field*
pH, Field Measured	6.96	pH Units		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Specific Conductance, Field Measured	1970	umhos/cm		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Temperature, Field Measured	20.8	°C		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Turbidity, Field Measured	9.70	NTU		08/21/23 14:28	1	0.00	08/21/23 14:28	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Fluoride	< 0.250	mg/L		08/29/23 17:13	1	0.250	08/29/23 17:13	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1200	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 11:20	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Barium	1100	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Boron	440	ug/L		08/28/23 08:52	5	10	08/31/23 08:03	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Calcium	140	mg/L		08/28/23 08:52	5	0.20	08/29/23 11:20	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 11:20	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 11:20	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Mercury	0.39	ug/L		08/28/23 08:52	5	0.20	08/29/23 11:20	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:20	TJJ	EPA 6020A
Lithium	32	ug/L		08/28/23 08:52	1	20	08/29/23 10:17	BRS	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GH04348-02  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 16:01  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	54	mg/L		08/22/23 14:16	10	10	08/22/23 20:43	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/22/23 13:57	1	1.0	08/22/23 20:24	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	26.14	Feet		08/21/23 16:01	1		08/21/23 16:01	FIELD	Field*
Dissolved oxygen, Field	1.3	mg/L		08/21/23 16:01	1		08/21/23 16:01	FIELD	Field*
Oxidation Reduction Potential	-106	mV		08/21/23 16:01	1	-500	08/21/23 16:01	FIELD	Field*
pH, Field Measured	6.95	pH Units		08/21/23 16:01	1		08/21/23 16:01	FIELD	Field*
Specific Conductance, Field Measured	1620	umhos/cm		08/21/23 16:01	1		08/21/23 16:01	FIELD	Field*
Temperature, Field Measured	25.1	°C		08/21/23 16:01	1		08/21/23 16:01	FIELD	Field*
Turbidity, Field Measured	140	NTU		08/21/23 16:01	1	0.00	08/21/23 16:01	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Fluoride	< 0.250	mg/L		08/29/23 17:15	1	0.250	08/29/23 17:15	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	930	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 11:31	TJJ	EPA 6020A
Arsenic	3.2	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Barium	1000	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Boron	410	ug/L		08/28/23 08:52	5	10	08/31/23 08:11	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Calcium	110	mg/L		08/28/23 08:52	5	0.20	08/29/23 11:31	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 11:31	TJJ	EPA 6020A
Cobalt	2.2	ug/L		08/28/23 08:52	5	2.0	08/29/23 11:31	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Mercury	0.41	ug/L		08/28/23 08:52	5	0.20	08/29/23 11:31	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:31	TJJ	EPA 6020A
Lithium	34	ug/L		08/28/23 08:52	1	20	08/29/23 10:29	BRS	EPA 6010B





## ANALYTICAL RESULTS

**Sample:** GH04348-04  
**Name:** AW 16 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	50	mg/L		08/22/23 16:31	10	10	08/22/23 22:20	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/22/23 15:33	1	1.0	08/22/23 22:00	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	25.21	Feet		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Dissolved oxygen, Field	0.12	mg/L		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Oxidation Reduction Potential	-120	mV		08/21/23 14:28	1	-500	08/21/23 14:28	FIELD	Field*
pH, Field Measured	6.96	pH Units		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Specific Conductance, Field Measured	1970	umhos/cm		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Temperature, Field Measured	20.8	°C		08/21/23 14:28	1		08/21/23 14:28	FIELD	Field*
Turbidity, Field Measured	9.70	NTU		08/21/23 14:28	1	0.00	08/21/23 14:28	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Fluoride	< 0.250	mg/L		08/29/23 17:17	1	0.250	08/29/23 17:17	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1200	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 11:39	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Barium	1100	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Boron	440	ug/L		08/28/23 08:52	5	10	08/31/23 08:17	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Calcium	140	mg/L		08/28/23 08:52	5	0.20	08/29/23 11:39	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 11:39	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 11:39	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 11:39	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:39	TJJ	EPA 6020A
Lithium	34	ug/L		08/28/23 08:52	1	20	08/29/23 10:43	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GH04553-01  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	12	mg/L	Q3	08/23/23 12:22	5	5.0	08/23/23 12:22	CRD	EPA 300.0 REV 2.1
Sulfate	52	mg/L		08/25/23 02:39	10	10	08/25/23 02:39	TMS	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	10.28	Feet		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Dissolved oxygen, Field	0.51	mg/L		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Oxidation Reduction Potential	-95.0	mV		08/22/23 14:28	1	-500	08/22/23 14:28	FIELD	Field*
pH, Field Measured	6.64	pH Units		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Specific Conductance, Field Measured	1450	umhos/cm		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Temperature, Field Measured	24.7	°C		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Turbidity, Field Measured	8.50	NTU		08/22/23 14:28	1	0.00	08/22/23 14:28	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Fluoride	0.280	mg/L		08/30/23 18:00	1	0.250	08/30/23 18:00	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	830	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 11:47	TJJ	EPA 6020A
Arsenic	5.1	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Barium	130	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Boron	92	ug/L		08/28/23 08:52	5	10	08/31/23 08:23	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Calcium	190	mg/L		08/28/23 08:52	5	0.20	08/29/23 11:47	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 11:47	TJJ	EPA 6020A
Cobalt	3.8	ug/L		08/28/23 08:52	5	2.0	08/29/23 11:47	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 11:47	TJJ	EPA 6020A
Molybdenum	4.1	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 11:47	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 10:53	BRS	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GH04553-02  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 12:57  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	79	mg/L		08/23/23 13:20	10	10	08/23/23 13:20	CRD	EPA 300.0 REV 2.1
Sulfate	55	mg/L		08/23/23 13:20	10	10	08/23/23 13:20	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	14.1	Feet		08/22/23 12:57	1		08/22/23 12:57	FIELD	Field*
Dissolved oxygen, Field	0.96	mg/L		08/22/23 12:57	1		08/22/23 12:57	FIELD	Field*
Oxidation Reduction Potential	-57.0	mV		08/22/23 12:57	1	-500	08/22/23 12:57	FIELD	Field*
pH, Field Measured	6.49	pH Units		08/22/23 12:57	1		08/22/23 12:57	FIELD	Field*
Specific Conductance, Field Measured	1050	umhos/cm		08/22/23 12:57	1		08/22/23 12:57	FIELD	Field*
Temperature, Field Measured	20.0	°C		08/22/23 12:57	1		08/22/23 12:57	FIELD	Field*
Turbidity, Field Measured	24.6	NTU		08/22/23 12:57	1	0.00	08/22/23 12:57	FIELD	Field*
<b>General Chemistry - PIA</b>									
Fluoride	0.313	mg/L		08/30/23 18:04	1	0.250	08/30/23 18:04	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	680	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 12:09	TJJ	EPA 6020A
Arsenic	12	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Barium	200	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 08:51	TJJ	EPA 6020A
Boron	2900	ug/L		08/28/23 08:52	5	10	08/31/23 08:51	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Calcium	120	mg/L		08/28/23 08:52	5	0.20	08/29/23 12:09	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 12:09	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 12:09	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 12:09	TJJ	EPA 6020A
Molybdenum	3.6	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:09	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 10:57	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GH04553-04  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 16:04  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	83	mg/L		08/23/23 15:35	50	50	08/23/23 15:35	CRD	EPA 300.0 REV 2.1
Fluoride	0.303	mg/L		08/23/23 14:18	1	0.250	08/23/23 14:18	CRD	EPA 300.0 REV 2.1
Sulfate	280	mg/L		08/23/23 15:35	50	50	08/23/23 15:35	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	17.47	Feet		08/22/23 16:04	1		08/22/23 16:04	FIELD	Field*
Dissolved oxygen, Field	7.7	mg/L		08/22/23 16:04	1		08/22/23 16:04	FIELD	Field*
Oxidation Reduction Potential	130	mV		08/22/23 16:04	1	-500	08/22/23 16:04	FIELD	Field*
pH, Field Measured	6.53	pH Units		08/22/23 16:04	1		08/22/23 16:04	FIELD	Field*
Specific Conductance, Field Measured	1050	umhos/cm		08/22/23 16:04	1		08/22/23 16:04	FIELD	Field*
Temperature, Field Measured	18.6	°C		08/22/23 16:04	1		08/22/23 16:04	FIELD	Field*
Turbidity, Field Measured	15.0	NTU		08/22/23 16:04	1	0.00	08/22/23 16:04	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	820	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 12:16	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Barium	58	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 16:22	TJJ	EPA 6020A
Boron	12000	ug/L		08/28/23 08:52	100	200	08/31/23 08:57	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Calcium	120	mg/L		08/28/23 08:52	5	0.20	08/29/23 12:16	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 12:16	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 12:16	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 12:16	TJJ	EPA 6020A
Molybdenum	29	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Selenium	3.8	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:16	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 11:12	BRS	EPA 6010B



**ANALYTICAL RESULTS**

**Sample:** GH04553-07  
**Name:** AW01 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	9.9	mg/L		08/23/23 17:31	5	5.0	08/23/23 17:31	CRD	EPA 300.0 REV 2.1
Sulfate	51	mg/L		08/23/23 17:51	50	50	08/23/23 17:51	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	10.28	Feet		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Dissolved oxygen, Field	0.51	mg/L		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Oxidation Reduction Potential	-95.0	mV		08/22/23 14:28	1	-500	08/22/23 14:28	FIELD	Field*
pH, Field Measured	6.64	pH Units		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Specific Conductance, Field Measured	1450	umhos/cm		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Temperature, Field Measured	24.7	°C		08/22/23 14:28	1		08/22/23 14:28	FIELD	Field*
Turbidity, Field Measured	8.50	NTU		08/22/23 14:28	1	0.00	08/22/23 14:28	FIELD	Field*
<b>General Chemistry - PIA</b>									
Fluoride	0.282	mg/L		08/30/23 18:07	1	0.250	08/30/23 18:07	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	820	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 12:36	TJJ	EPA 6020A
Arsenic	5.2	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Barium	130	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 09:06	TJJ	EPA 6020A
Boron	89	ug/L		08/28/23 08:52	5	10	08/31/23 09:06	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Calcium	190	mg/L		08/28/23 08:52	5	0.20	08/29/23 12:36	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 12:36	TJJ	EPA 6020A
Cobalt	3.9	ug/L		08/28/23 08:52	5	2.0	08/29/23 12:36	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 12:36	TJJ	EPA 6020A
Molybdenum	3.4	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:36	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 11:25	BRS	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GH04553-08  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 11:11  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	91	mg/L		08/25/23 02:20	25	25	08/25/23 02:20	TMS	EPA 300.0 REV 2.1
Sulfate	6.9	mg/L		08/23/23 18:10	1	1.0	08/23/23 18:10	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	27.97	Feet		08/22/23 11:11	1		08/22/23 11:11	FIELD	Field*
Dissolved oxygen, Field	1.0	mg/L		08/22/23 11:11	1		08/22/23 11:11	FIELD	Field*
Oxidation Reduction Potential	-119	mV		08/22/23 11:11	1	-500	08/22/23 11:11	FIELD	Field*
pH, Field Measured	6.59	pH Units		08/22/23 11:11	1		08/22/23 11:11	FIELD	Field*
Specific Conductance, Field Measured	1730	umhos/cm		08/22/23 11:11	1		08/22/23 11:11	FIELD	Field*
Temperature, Field Measured	19.0	°C		08/22/23 11:11	1		08/22/23 11:11	FIELD	Field*
Turbidity, Field Measured	29.3	NTU		08/22/23 11:11	1	0.00	08/22/23 11:11	FIELD	Field*
<b>General Chemistry - PIA</b>									
Fluoride	< 0.250	mg/L		08/30/23 18:09	1	0.250	08/30/23 18:09	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	850	mg/L		08/24/23 10:01	1	26	08/24/23 12:08	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 12:40	TJJ	EPA 6020A
Arsenic	2.6	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Barium	1300	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 09:08	TJJ	EPA 6020A
Boron	1200	ug/L		08/28/23 08:52	5	10	08/31/23 09:08	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Calcium	130	mg/L		08/28/23 08:52	5	0.20	08/29/23 12:40	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 12:40	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 12:40	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 12:40	TJJ	EPA 6020A
Molybdenum	3.2	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:40	TJJ	EPA 6020A
Lithium	25	ug/L		08/28/23 08:52	1	20	08/29/23 11:34	BRS	EPA 6010B





### ANALYTICAL RESULTS

Sample: GH04842-01  
Name: AP05S  
Matrix: Ground Water - Grab

Sampled: 08/23/23 13:04  
Received: 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	41	mg/L	Q4	08/24/23 11:29	10	10	08/24/23 11:29	TMS	EPA 300.0 REV 2.1
Sulfate	5.6	mg/L	Q3	08/24/23 10:31	1	1.0	08/24/23 10:31	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	6.07	Feet		08/23/23 13:04	1		08/23/23 13:04	FIELD	Field*
Dissolved oxygen, Field	1.3	mg/L		08/23/23 13:04	1		08/23/23 13:04	FIELD	Field*
Oxidation Reduction Potential	-133	mV		08/23/23 13:04	1	-500	08/23/23 13:04	FIELD	Field*
pH, Field Measured	6.88	pH Units		08/23/23 13:04	1		08/23/23 13:04	FIELD	Field*
Specific Conductance, Field Measured	1490	umhos/cm		08/23/23 13:04	1		08/23/23 13:04	FIELD	Field*
Temperature, Field Measured	26.7	°C		08/23/23 13:04	1		08/23/23 13:04	FIELD	Field*
Turbidity, Field Measured	39.7	NTU		08/23/23 13:04	1	0.00	08/23/23 13:04	FIELD	Field*
<b>General Chemistry - PIA</b>									
Fluoride	< 0.250	mg/L		08/30/23 18:15	1	0.250	08/30/23 18:15	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	890	mg/L	B2, M	08/25/23 10:34	1	26	08/25/23 11:45	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 12:43	TJJ	EPA 6020A
Arsenic	1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Barium	830	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 09:11	TJJ	EPA 6020A
Boron	320	ug/L		08/28/23 08:52	5	10	08/31/23 09:11	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Calcium	100	mg/L		08/28/23 08:52	5	0.20	08/29/23 12:43	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 12:43	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 12:43	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 12:43	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 12:43	TJJ	EPA 6020A
Lithium	27	ug/L		08/28/23 08:52	1	20	08/29/23 11:38	BRS	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GH04842-03  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 15:53  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	24	mg/L		08/24/23 13:06	5	5.0	08/24/23 13:06	TMS	EPA 300.0 REV 2.1
Sulfate	1.8	mg/L		08/24/23 12:46	1	1.0	08/24/23 12:46	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	7.06	Feet		08/23/23 15:53	1		08/23/23 15:53	FIELD	Field*
Dissolved oxygen, Field	1.1	mg/L		08/23/23 15:53	1		08/23/23 15:53	FIELD	Field*
Oxidation Reduction Potential	-132	mV		08/23/23 15:53	1	-500	08/23/23 15:53	FIELD	Field*
pH, Field Measured	6.99	pH Units		08/23/23 15:53	1		08/23/23 15:53	FIELD	Field*
Specific Conductance, Field Measured	1720	umhos/cm		08/23/23 15:53	1		08/23/23 15:53	FIELD	Field*
Temperature, Field Measured	23.2	°C		08/23/23 15:53	1		08/23/23 15:53	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		08/23/23 15:53	1	0.00	08/23/23 15:53	FIELD	Field*
<b>General Chemistry - PIA</b>									
Fluoride	< 0.250	mg/L		08/30/23 18:17	1	0.250	08/30/23 18:17	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	960	mg/L	B2	08/25/23 10:34	1	26	08/25/23 11:45	CPS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 13:14	TJJ	EPA 6020A
Arsenic	5.2	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Barium	840	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 09:17	TJJ	EPA 6020A
Boron	180	ug/L		08/28/23 08:52	5	10	08/31/23 09:17	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Calcium	170	mg/L		08/28/23 08:52	5	0.20	08/29/23 13:14	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 13:14	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 13:14	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 13:14	TJJ	EPA 6020A
Molybdenum	1.4	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:14	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 11:46	BRS	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GH04842-04  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 12:55  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	34	mg/L		08/24/23 14:23	10	10	08/24/23 14:23	TMS	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/24/23 13:25	1	1.0	08/24/23 13:25	TMS	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	9	Feet		08/23/23 12:55	1		08/23/23 12:55	FIELD	Field*
Dissolved oxygen, Field	0.45	mg/L		08/23/23 12:55	1		08/23/23 12:55	FIELD	Field*
Oxidation Reduction Potential	-140	mV		08/23/23 12:55	1	-500	08/23/23 12:55	FIELD	Field*
pH, Field Measured	6.78	pH Units		08/23/23 12:55	1		08/23/23 12:55	FIELD	Field*
Specific Conductance, Field Measured	2050	umhos/cm		08/23/23 12:55	1		08/23/23 12:55	FIELD	Field*
Temperature, Field Measured	19.5	°C		08/23/23 12:55	1		08/23/23 12:55	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		08/23/23 12:55	1	0.00	08/23/23 12:55	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Fluoride	< 0.250	mg/L		08/30/23 18:18	1	0.250	08/30/23 18:18	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1100	mg/L	B2	08/25/23 10:34	1	26	08/25/23 11:45	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 13:18	TJJ	EPA 6020A
Arsenic	1.3	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Barium	1800	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 09:40	TJJ	EPA 6020A
Boron	370	ug/L		08/28/23 08:52	5	10	08/31/23 09:40	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Calcium	140	mg/L		08/28/23 08:52	5	0.20	08/29/23 13:18	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 13:18	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 13:18	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 13:18	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:18	TJJ	EPA 6020A
Lithium	28	ug/L		08/28/23 08:52	1	20	08/29/23 11:50	BRS	EPA 6010B



**ANALYTICAL RESULTS**

**Sample:** GH04842-05  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 14:25  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	31	mg/L		08/24/23 15:02	10	10	08/24/23 15:02	TMS	EPA 300.0 REV 2.1
Sulfate	570	mg/L		08/24/23 15:22	100	100	08/24/23 15:22	TMS	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	9.75	Feet		08/23/23 14:25	1		08/23/23 14:25	FIELD	Field*
Dissolved oxygen, Field	0.35	mg/L		08/23/23 14:25	1		08/23/23 14:25	FIELD	Field*
Oxidation Reduction Potential	-29.0	mV		08/23/23 14:25	1	-500	08/23/23 14:25	FIELD	Field*
pH, Field Measured	6.92	pH Units		08/23/23 14:25	1		08/23/23 14:25	FIELD	Field*
Specific Conductance, Field Measured	1730	umhos/cm		08/23/23 14:25	1		08/23/23 14:25	FIELD	Field*
Temperature, Field Measured	25.1	°C		08/23/23 14:25	1		08/23/23 14:25	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		08/23/23 14:25	1	0.00	08/23/23 14:25	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Fluoride	0.284	mg/L		08/30/23 18:21	1	0.250	08/30/23 18:21	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1400	mg/L	B2	08/25/23 10:34	1	26	08/25/23 11:45	CPS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/28/23 08:52	5	3.0	08/29/23 13:22	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Barium	87	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/31/23 16:28	TJJ	EPA 6020A
Boron	5700	ug/L		08/28/23 08:52	20	40	08/31/23 09:42	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Calcium	270	mg/L		08/28/23 08:52	5	0.20	08/29/23 13:22	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/28/23 08:52	5	4.0	08/29/23 13:22	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/28/23 08:52	5	2.0	08/29/23 13:22	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/28/23 08:52	5	0.20	08/29/23 13:22	TJJ	EPA 6020A
Molybdenum	2.7	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/28/23 08:52	5	1.0	08/29/23 13:22	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/28/23 08:52	1	20	08/29/23 11:59	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GH05495-01  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 10:47  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	83	mg/L	Q4	08/29/23 12:19	50	50	08/29/23 12:19	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		08/29/23 11:21	1	0.250	08/29/23 11:21	CRD	EPA 300.0 REV 2.1
Sulfate	240	mg/L	Q4	08/29/23 12:19	50	50	08/29/23 12:19	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	25.19	Feet		08/28/23 10:47	1		08/28/23 10:47	FIELD	Field*
Dissolved oxygen, Field	9.8	mg/L		08/28/23 10:47	1		08/28/23 10:47	FIELD	Field*
Oxidation Reduction Potential	44.0	mV		08/28/23 10:47	1	-500	08/28/23 10:47	FIELD	Field*
pH, Field Measured	6.95	pH Units		08/28/23 10:47	1		08/28/23 10:47	FIELD	Field*
Specific Conductance, Field Measured	1420	umhos/cm		08/28/23 10:47	1		08/28/23 10:47	FIELD	Field*
Temperature, Field Measured	20.6	°C		08/28/23 10:47	1		08/28/23 10:47	FIELD	Field*
Turbidity, Field Measured	101	NTU		08/28/23 10:47	1	0.00	08/28/23 10:47	FIELD	Field*
<b>General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	880	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 14:56	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Barium	73	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Boron	9400	ug/L		08/31/23 08:50	20	40	09/08/23 08:16	TJJ	EPA 6020A
Cadmium	1.3	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Calcium	160	mg/L	Q4	08/31/23 08:50	5	0.20	09/06/23 14:56	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/31/23 08:50	5	4.0	09/06/23 14:56	TJJ	EPA 6020A
Cobalt	2.9	ug/L		08/31/23 08:50	5	2.0	09/06/23 14:56	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/31/23 08:50	5	0.20	09/06/23 14:56	TJJ	EPA 6020A
Molybdenum	1.1	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 14:56	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/31/23 08:50	1	20	09/06/23 09:10	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GH05495-02  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 14:49  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	78	mg/L		08/29/23 12:58	50	50	08/29/23 12:58	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		08/29/23 12:38	1	0.250	08/29/23 12:38	CRD	EPA 300.0 REV 2.1
Sulfate	460	mg/L		08/29/23 12:58	50	50	08/29/23 12:58	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	8.93	Feet		08/28/23 14:49	1		08/28/23 14:49	FIELD	Field*
Dissolved oxygen, Field	0.49	mg/L		08/28/23 14:49	1		08/28/23 14:49	FIELD	Field*
Oxidation Reduction Potential	26.0	mV		08/28/23 14:49	1	-500	08/28/23 14:49	FIELD	Field*
pH, Field Measured	7.01	pH Units		08/28/23 14:49	1		08/28/23 14:49	FIELD	Field*
Specific Conductance, Field Measured	1730	umhos/cm		08/28/23 14:49	1		08/28/23 14:49	FIELD	Field*
Temperature, Field Measured	21.4	°C		08/28/23 14:49	1		08/28/23 14:49	FIELD	Field*
Turbidity, Field Measured	697	NTU		08/28/23 14:49	1	0.00	08/28/23 14:49	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Solids - total dissolved solids (TDS)	1200	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 15:08	TJJ	EPA 6020A
Arsenic	3.3	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Barium	130	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Boron	8600	ug/L		08/31/23 08:50	20	40	09/08/23 08:25	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Calcium	180	mg/L		08/31/23 08:50	5	0.20	09/06/23 15:08	TJJ	EPA 6020A
Chromium	7.3	ug/L		08/31/23 08:50	5	4.0	09/06/23 15:08	TJJ	EPA 6020A
Cobalt	5.3	ug/L		08/31/23 08:50	5	2.0	09/06/23 15:08	TJJ	EPA 6020A
Lead	3.7	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Mercury	0.44	ug/L		08/31/23 08:50	5	0.20	09/06/23 15:08	TJJ	EPA 6020A
Molybdenum	2.5	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:08	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/31/23 08:50	1	20	09/06/23 09:27	BRS	EPA 6010B





## ANALYTICAL RESULTS

**Sample:** GH05495-03  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 16:10  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	33	mg/L		08/29/23 13:36	10	10	08/29/23 13:36	CRD	EPA 300.0 REV 2.1
Fluoride	0.284	mg/L		08/29/23 13:17	1	0.250	08/29/23 13:17	CRD	EPA 300.0 REV 2.1
Sulfate	27	mg/L		08/29/23 13:36	10	10	08/29/23 13:36	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	27.52	Feet		08/28/23 16:10	1		08/28/23 16:10	FIELD	Field*
Dissolved oxygen, Field	2.0	mg/L		08/28/23 16:10	1		08/28/23 16:10	FIELD	Field*
Oxidation Reduction Potential	-85.0	mV		08/28/23 16:10	1	-500	08/28/23 16:10	FIELD	Field*
pH, Field Measured	7.00	pH Units		08/28/23 16:10	1		08/28/23 16:10	FIELD	Field*
Specific Conductance, Field Measured	1110	umhos/cm		08/28/23 16:10	1		08/28/23 16:10	FIELD	Field*
Temperature, Field Measured	23.3	°C		08/28/23 16:10	1		08/28/23 16:10	FIELD	Field*
Turbidity, Field Measured	36.3	NTU		08/28/23 16:10	1	0.00	08/28/23 16:10	FIELD	Field*
<b>General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	560	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 15:11	TJJ	EPA 6020A
Arsenic	5.2	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Barium	190	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Boron	130	ug/L		08/31/23 08:50	5	10	09/08/23 08:28	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Calcium	120	mg/L		08/31/23 08:50	5	0.20	09/06/23 15:11	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/31/23 08:50	5	4.0	09/06/23 15:11	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/31/23 08:50	5	2.0	09/06/23 15:11	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/31/23 08:50	5	0.20	09/06/23 15:11	TJJ	EPA 6020A
Molybdenum	6.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:11	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/31/23 08:50	1	20	09/06/23 09:37	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GH05495-04  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 14:40  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	15	mg/L		08/29/23 14:15	5	5.0	08/29/23 14:15	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		08/29/23 13:56	1	0.250	08/29/23 13:56	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/29/23 13:56	1	1.0	08/29/23 13:56	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	24.76	Feet		08/28/23 14:40	1		08/28/23 14:40	FIELD	Field*
Dissolved oxygen, Field	12	mg/L		08/28/23 14:40	1		08/28/23 14:40	FIELD	Field*
Oxidation Reduction Potential	-120	mV		08/28/23 14:40	1	-500	08/28/23 14:40	FIELD	Field*
pH, Field Measured	6.93	pH Units		08/28/23 14:40	1		08/28/23 14:40	FIELD	Field*
Specific Conductance, Field Measured	473.0	umhos/cm		08/28/23 14:40	1		08/28/23 14:40	FIELD	Field*
Temperature, Field Measured	19.9	°C		08/28/23 14:40	1		08/28/23 14:40	FIELD	Field*
Turbidity, Field Measured	116	NTU		08/28/23 14:40	1	0.00	08/28/23 14:40	FIELD	Field*
<b>General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	720	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 15:15	TJJ	EPA 6020A
Arsenic	9.8	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Barium	190	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Boron	120	ug/L		08/31/23 08:50	5	10	09/08/23 08:31	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Calcium	140	mg/L		08/31/23 08:50	5	0.20	09/06/23 15:15	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/31/23 08:50	5	4.0	09/06/23 15:15	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/31/23 08:50	5	2.0	09/06/23 15:15	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/31/23 08:50	5	0.20	09/06/23 15:15	TJJ	EPA 6020A
Molybdenum	1.8	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:15	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/31/23 08:50	1	20	09/06/23 09:42	BRS	EPA 6010B



### ANALYTICAL RESULTS

Sample: GH05495-05  
Name: AW-10  
Matrix: Ground Water - Grab

Sampled: 08/28/23 13:04  
Received: 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	86	mg/L		08/29/23 15:32	25	25	08/29/23 15:32	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/29/23 15:13	1	1.0	08/29/23 15:13	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	2.35	Feet		08/28/23 13:04	1		08/28/23 13:04	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		08/28/23 13:04	1		08/28/23 13:04	FIELD	Field*
Oxidation Reduction Potential	-111	mV		08/28/23 13:04	1	-500	08/28/23 13:04	FIELD	Field*
pH, Field Measured	6.42	pH Units		08/28/23 13:04	1		08/28/23 13:04	FIELD	Field*
Specific Conductance, Field Measured	2370	umhos/cm		08/28/23 13:04	1		08/28/23 13:04	FIELD	Field*
Temperature, Field Measured	20.3	°C		08/28/23 13:04	1		08/28/23 13:04	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		08/28/23 13:04	1	0.00	08/28/23 13:04	FIELD	Field*
<b>General Chemistry - PIA</b>									
Fluoride	< 0.250	mg/L		09/06/23 17:29	1	0.250	09/06/23 17:29	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1300	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 15:27	TJJ	EPA 6020A
Arsenic	13	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Barium	1100	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Boron	500	ug/L		08/31/23 08:50	5	10	09/08/23 08:34	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Calcium	140	mg/L		08/31/23 08:50	5	0.20	09/06/23 15:27	TJJ	EPA 6020A
Chromium	10	ug/L		08/31/23 08:50	5	4.0	09/06/23 15:27	TJJ	EPA 6020A
Cobalt	7.7	ug/L		08/31/23 08:50	5	2.0	09/06/23 15:27	TJJ	EPA 6020A
Lead	8.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/31/23 08:50	5	0.20	09/06/23 15:27	TJJ	EPA 6020A
Molybdenum	1.1	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:27	TJJ	EPA 6020A
Lithium	48	ug/L		08/31/23 08:50	1	20	09/06/23 09:46	BRS	EPA 6010B



### ANALYTICAL RESULTS

**Sample:** GH05495-06  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 11:10  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	32	mg/L		08/29/23 16:11	10	10	08/29/23 16:11	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/29/23 15:52	1	1.0	08/29/23 15:52	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	6.37	Feet		08/28/23 11:10	1		08/28/23 11:10	FIELD	Field*
Dissolved oxygen, Field	0.24	mg/L		08/28/23 11:10	1		08/28/23 11:10	FIELD	Field*
Oxidation Reduction Potential	-96.0	mV		08/28/23 11:10	1	-500	08/28/23 11:10	FIELD	Field*
pH, Field Measured	6.29	pH Units		08/28/23 11:10	1		08/28/23 11:10	FIELD	Field*
Specific Conductance, Field Measured	1990	umhos/cm		08/28/23 11:10	1		08/28/23 11:10	FIELD	Field*
Temperature, Field Measured	16.8	°C		08/28/23 11:10	1		08/28/23 11:10	FIELD	Field*
Turbidity, Field Measured	100	NTU		08/28/23 11:10	1	0.00	08/28/23 11:10	FIELD	Field*
<b>General Chemistry - PIA</b>									
Fluoride	< 0.250	mg/L		09/06/23 17:31	1	0.250	09/06/23 17:31	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1000	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 15:31	TJJ	EPA 6020A
Arsenic	11	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Barium	870	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Boron	240	ug/L		08/31/23 08:50	5	10	09/08/23 08:36	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Calcium	170	mg/L		08/31/23 08:50	5	0.20	09/06/23 15:31	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/31/23 08:50	5	4.0	09/06/23 15:31	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		08/31/23 08:50	5	2.0	09/06/23 15:31	TJJ	EPA 6020A
Lead	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/31/23 08:50	5	0.20	09/06/23 15:31	TJJ	EPA 6020A
Molybdenum	1.7	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 15:31	TJJ	EPA 6020A
Lithium	21	ug/L		08/31/23 08:50	1	20	09/06/23 09:50	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GH05632-01  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 08/29/23 11:50  
**Received:** 08/29/23 14:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	28	mg/L		08/30/23 03:09	10	10	08/30/23 03:09	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		08/30/23 02:50	1	0.250	08/30/23 02:50	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		08/30/23 02:50	1	1.0	08/30/23 02:50	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	26.73	Feet		08/29/23 11:50	1		08/29/23 11:50	FIELD	Field*
Dissolved oxygen, Field	4.5	mg/L		08/29/23 11:50	1		08/29/23 11:50	FIELD	Field*
Oxidation Reduction Potential	-94.0	mV		08/29/23 11:50	1	-500	08/29/23 11:50	FIELD	Field*
pH, Field Measured	7.12	pH Units		08/29/23 11:50	1		08/29/23 11:50	FIELD	Field*
Specific Conductance, Field Measured	1500	umhos/cm		08/29/23 11:50	1		08/29/23 11:50	FIELD	Field*
Temperature, Field Measured	18.2	°C		08/29/23 11:50	1		08/29/23 11:50	FIELD	Field*
Turbidity, Field Measured	177	NTU		08/29/23 11:50	1	0.00	08/29/23 11:50	FIELD	Field*
<b>General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	840	mg/L		08/30/23 11:25	1	26	08/30/23 14:07	LAL2	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		08/31/23 08:50	5	3.0	09/06/23 16:01	TJJ	EPA 6020A
Arsenic	17	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Barium	390	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Boron	310	ug/L		08/31/23 08:50	5	10	09/08/23 09:07	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Calcium	120	mg/L		08/31/23 08:50	5	0.20	09/06/23 16:01	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		08/31/23 08:50	5	4.0	09/06/23 16:01	TJJ	EPA 6020A
Cobalt	3.0	ug/L		08/31/23 08:50	5	2.0	09/06/23 16:01	TJJ	EPA 6020A
Lead	1.3	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		08/31/23 08:50	5	0.20	09/06/23 16:01	TJJ	EPA 6020A
Molybdenum	21	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		08/31/23 08:50	5	1.0	09/06/23 16:01	TJJ	EPA 6020A
Lithium	< 20	ug/L		08/31/23 08:50	1	20	09/06/23 10:12	BRS	EPA 6010B



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B342013 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B342013-MS1)</b>		<b>Sample: GH04348-01</b>		<b>Prepared &amp; Analyzed: 08/22/23</b>					
Chloride	< 1.0	mg/L	Q4	1.500	51	NR	80-120		
Sulfate	2.24	mg/L		1.500	0.615	108	80-120		
<b>Matrix Spike Dup (B342013-MSD1)</b>		<b>Sample: GH04348-01</b>		<b>Prepared &amp; Analyzed: 08/22/23</b>					
Sulfate	2.23	mg/L		1.500	0.615	108	80-120	0.3	20
Chloride	< 1.0	mg/L	Q4	1.500	51	NR	80-120		20
<b><u>Batch B342111 - No Prep - SM 2540C</u></b>									
<b>Blank (B342111-BLK1)</b>		<b>Prepared &amp; Analyzed: 08/24/23</b>							
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B342111-BS1)</b>		<b>Prepared &amp; Analyzed: 08/24/23</b>							
Solids - total dissolved solids (TDS)	970	mg/L		1000		97	84.9-109		
<b>Duplicate (B342111-DUP1)</b>		<b>Sample: GH04348-01</b>		<b>Prepared &amp; Analyzed: 08/24/23</b>					
Solids - total dissolved solids (TDS)	1180	mg/L			1160			0.9	5
<b>Duplicate (B342111-DUP2)</b>		<b>Sample: GH04553-01</b>		<b>Prepared &amp; Analyzed: 08/24/23</b>					
Solids - total dissolved solids (TDS)	860	mg/L			830			4	5
<b><u>Batch B342126 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B342126-MS1)</b>		<b>Sample: GH04553-01</b>		<b>Prepared &amp; Analyzed: 08/23/23</b>					
Fluoride	1.65	mg/L		1.500	ND	110	80-120		
Chloride	< 1.0	mg/L	Q1	1.500	12	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	ND	NR	80-120		
<b>Matrix Spike Dup (B342126-MSD1)</b>		<b>Sample: GH04553-01</b>		<b>Prepared &amp; Analyzed: 08/23/23</b>					
Chloride	< 1.0	mg/L	Q2	1.500	12	NR	80-120		20
Sulfate	1.00E9	mg/L	Q4	1.500	ND	NR	80-120	0	20
Fluoride	1.64	mg/L		1.500	ND	109	80-120	1	20
<b><u>Batch B342242 - No Prep - SM 2540C</u></b>									
<b>Blank (B342242-BLK1)</b>		<b>Prepared &amp; Analyzed: 08/25/23</b>							
Solids - total dissolved solids (TDS)	< 17	mg/L	B2						
<b>LCS (B342242-BS1)</b>		<b>Prepared &amp; Analyzed: 08/25/23</b>							
Solids - total dissolved solids (TDS)	937	mg/L		1000		94	84.9-109		
<b>Duplicate (B342242-DUP1)</b>		<b>Sample: GH04842-01</b>		<b>Prepared &amp; Analyzed: 08/25/23</b>					
Solids - total dissolved solids (TDS)	835	mg/L	M		890			6	5
<b><u>Batch B342256 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B342256-MS2)</b>		<b>Sample: GH04842-01</b>		<b>Prepared &amp; Analyzed: 08/24/23</b>					
Chloride	< 1.0	mg/L	Q4	1.500	41	NR	80-120		
Sulfate	7.47	mg/L	Q1	1.500	5.56	127	80-120		
<b>Matrix Spike Dup (B342256-MSD2)</b>		<b>Sample: GH04842-01</b>		<b>Prepared &amp; Analyzed: 08/24/23</b>					
Chloride	< 1.0	mg/L	Q4	1.500	41	NR	80-120		20
Sulfate	7.41	mg/L	Q2	1.500	5.56	123	80-120	0.8	20
<b><u>Batch B342344 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B342344-BLK1)</b>		<b>Prepared: 08/28/23 Analyzed: 08/29/23</b>							
Lithium	< 20	ug/L							





**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>LCS (B342344-BS1)</b>				Prepared: 08/28/23 Analyzed: 08/29/23					
Lithium	540	ug/L		555.6		97	80-120		
<b>Matrix Spike (B342344-MS1)</b>				Sample: GH04348-01 Prepared: 08/28/23 Analyzed: 08/29/23					
Lithium	546	ug/L		555.6	32.3	93	75-125		
<b>Matrix Spike Dup (B342344-MSD1)</b>				Sample: GH04348-01 Prepared: 08/28/23 Analyzed: 08/29/23					
Lithium	552	ug/L		555.6	32.3	94	75-125	1	20
<b><u>Batch B342344 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B342344-BLK1)</b>				Prepared: 08/28/23 Analyzed: 08/29/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Selenium	< 1.0	ug/L							
Thallium	< 1.0	ug/L							
<b>LCS (B342344-BS1)</b>				Prepared: 08/28/23 Analyzed: 08/29/23					
Antimony	574	ug/L		555.6		103	80-120		
Arsenic	555	ug/L		555.6		100	80-120		
Barium	560	ug/L		555.6		101	80-120		
Beryllium	572	ug/L		555.6		103	80-120		
Boron	551	ug/L		555.6		99	80-120		
Cadmium	537	ug/L		555.6		97	80-120		
Calcium	5.64	mg/L		5.556		101	80-120		
Chromium	561	ug/L		555.6		101	80-120		
Cobalt	545	ug/L		555.6		98	80-120		
Lead	556	ug/L		555.6		100	80-120		
Mercury	52.3	ug/L		55.56		94	80-120		
Molybdenum	521	ug/L		555.6		94	80-120		
Selenium	566	ug/L		555.6		102	80-120		
Thallium	528	ug/L		555.6		95	80-120		
<b>Matrix Spike (B342344-MS1)</b>				Sample: GH04348-01 Prepared: 08/28/23 Analyzed: 08/29/23					
Antimony	560	ug/L		555.6	ND	101	75-125		
Arsenic	555	ug/L		555.6	ND	100	75-125		
Barium	1660	ug/L		555.6	1140	93	75-125		
Beryllium	556	ug/L		555.6	ND	100	75-125		
Boron	951	ug/L		555.6	436	93	75-125		
Cadmium	535	ug/L		555.6	ND	96	75-125		
Calcium	150	mg/L		5.556	145	95	75-125		
Chromium	552	ug/L		555.6	ND	99	75-125		
Cobalt	531	ug/L		555.6	1.49	95	75-125		



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike (B342344-MS1)</b>				Sample: GH04348-01		Prepared: 08/28/23 Analyzed: 08/29/23			
Lead	538	ug/L		555.6	ND	97	75-125		
Mercury	53.2	ug/L		55.56	0.389	95	75-125		
Molybdenum	541	ug/L		555.6	ND	97	75-125		
Selenium	568	ug/L		555.6	ND	102	75-125		
Thallium	509	ug/L		555.6	ND	92	75-125		
<b>Matrix Spike Dup (B342344-MSD1)</b>				Sample: GH04348-01		Prepared: 08/28/23 Analyzed: 08/29/23			
Antimony	564	ug/L		555.6	ND	102	75-125	0.7	20
Arsenic	555	ug/L		555.6	ND	100	75-125	0.03	20
Barium	1670	ug/L		555.6	1140	95	75-125	0.7	20
Beryllium	547	ug/L		555.6	ND	98	75-125	2	20
Boron	971	ug/L		555.6	436	96	75-125	2	20
Cadmium	537	ug/L		555.6	ND	97	75-125	0.4	20
Calcium	148	mg/L	Q4	5.556	145	65	75-125	1	20
Chromium	554	ug/L		555.6	ND	100	75-125	0.4	20
Cobalt	531	ug/L		555.6	1.49	95	75-125	0.01	20
Lead	543	ug/L		555.6	ND	98	75-125	0.9	20
Mercury	54.4	ug/L		55.56	0.389	97	75-125	2	20
Molybdenum	541	ug/L		555.6	ND	97	75-125	0.004	20
Selenium	568	ug/L		555.6	ND	102	75-125	0.04	20
Thallium	513	ug/L		555.6	ND	92	75-125	0.7	20
<b><u>Batch B342514 - No Prep - SM 4500F C 1997</u></b>									
<b>Matrix Spike (B342514-MS4)</b>				Sample: GH04348-04		Prepared & Analyzed: 08/29/23			
Fluoride	1.09	mg/L		1.000	0.0810	101	80-120		
<b>Matrix Spike Dup (B342514-MSD4)</b>				Sample: GH04348-04		Prepared & Analyzed: 08/29/23			
Fluoride	1.10	mg/L		1.000	0.0810	102	80-120	1	20
<b><u>Batch B342591 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Matrix Spike (B342591-MS1)</b>				Sample: GH05495-01		Prepared & Analyzed: 08/29/23			
Fluoride	1.73	mg/L		1.500	0.215	101	80-120		
Chloride	< 1.0	mg/L	Q4	1.500	83	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	240	NR	80-120		
<b>Matrix Spike Dup (B342591-MSD1)</b>				Sample: GH05495-01		Prepared & Analyzed: 08/29/23			
Fluoride	1.69	mg/L		1.500	0.215	99	80-120	2	20
Sulfate	1.00E9	mg/L	Q4	1.500	240	NR	80-120	0	20
Chloride	< 1.0	mg/L	Q4	1.500	83	NR	80-120		20
<b><u>Batch B342596 - No Prep - SM 2540C</u></b>									
<b>Blank (B342596-BLK1)</b>				Prepared & Analyzed: 08/30/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B342596-BS1)</b>				Prepared & Analyzed: 08/30/23					
Solids - total dissolved solids (TDS)	1020	mg/L		1000		102	84.9-109		
<b>Duplicate (B342596-DUP1)</b>				Prepared & Analyzed: 08/30/23					
Solids - total dissolved solids (TDS)	905	mg/L			875			3	5
<b>Duplicate (B342596-DUP2)</b>				Prepared & Analyzed: 08/30/23					
Solids - total dissolved solids (TDS)	840	mg/L			840			0	5



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B342610 - No Prep - SM 4500F C 1997</u></b>									
<b>Matrix Spike (B342610-MS1)</b>	<b>Sample: GH04553-01</b>			<b>Prepared &amp; Analyzed: 08/30/23</b>					
Fluoride	1.29	mg/L		1.000	0.280	101	80-120		
<b>Matrix Spike (B342610-MS2)</b>	<b>Sample: GH04842-04</b>			<b>Prepared &amp; Analyzed: 08/30/23</b>					
Fluoride	1.09	mg/L		1.000	0.0820	101	80-120		
<b>Matrix Spike Dup (B342610-MSD1)</b>	<b>Sample: GH04553-01</b>			<b>Prepared &amp; Analyzed: 08/30/23</b>					
Fluoride	1.32	mg/L		1.000	0.280	104	80-120	2	20
<b>Matrix Spike Dup (B342610-MSD2)</b>	<b>Sample: GH04842-04</b>			<b>Prepared &amp; Analyzed: 08/30/23</b>					
Fluoride	1.09	mg/L		1.000	0.0820	101	80-120	0.5	20
<b><u>Batch B342684 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B342684-BLK1)</b>	<b>Prepared: 08/31/23 Analyzed: 09/06/23</b>								
Lithium	< 20	ug/L							
<b>LCS (B342684-BS1)</b>	<b>Prepared: 08/31/23 Analyzed: 09/06/23</b>								
Lithium	526	ug/L		555.6		95	80-120		
<b>Matrix Spike (B342684-MS1)</b>	<b>Sample: GH05495-01</b>			<b>Prepared: 08/31/23 Analyzed: 09/06/23</b>					
Lithium	512	ug/L		555.6	6.12	91	75-125		
<b>Matrix Spike Dup (B342684-MSD1)</b>	<b>Sample: GH05495-01</b>			<b>Prepared: 08/31/23 Analyzed: 09/06/23</b>					
Lithium	514	ug/L		555.6	6.12	91	75-125	0.4	20
<b><u>Batch B342684 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B342684-BLK1)</b>	<b>Prepared: 08/31/23 Analyzed: 09/06/23</b>								
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Selenium	< 1.0	ug/L							
Thallium	< 1.0	ug/L							
<b>LCS (B342684-BS1)</b>	<b>Prepared: 08/31/23 Analyzed: 09/06/23</b>								
Antimony	560	ug/L		555.6		101	80-120		
Arsenic	547	ug/L		555.6		98	80-120		
Barium	545	ug/L		555.6		98	80-120		
Beryllium	541	ug/L		555.6		97	80-120		
Boron	534	ug/L		555.6		96	80-120		
Cadmium	536	ug/L		555.6		97	80-120		
Calcium	5.40	mg/L		5.556		97	80-120		
Chromium	547	ug/L		555.6		99	80-120		
Cobalt	545	ug/L		555.6		98	80-120		
Lead	564	ug/L		555.6		102	80-120		



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>LCS (B342684-BS1)</b>				Prepared: 08/31/23 Analyzed: 09/06/23					
Mercury	51.5	ug/L		55.56		93	80-120		
Molybdenum	535	ug/L		555.6		96	80-120		
Selenium	555	ug/L		555.6		100	80-120		
Thallium	544	ug/L		555.6		98	80-120		
<b>Matrix Spike (B342684-MS1)</b>				Sample: GH05495-01		Prepared: 08/31/23 Analyzed: 09/06/23			
Antimony	548	ug/L		555.6	ND	99	75-125		
Arsenic	541	ug/L		555.6	ND	97	75-125		
Barium	603	ug/L		555.6	72.6	96	75-125		
Beryllium	534	ug/L		555.6	ND	96	75-125		
Boron	9940	ug/L		555.6	9390	99	75-125		
Cadmium	527	ug/L		555.6	1.27	95	75-125		
Calcium	160	mg/L	Q4	5.556	157	54	75-125		
Chromium	531	ug/L		555.6	ND	96	75-125		
Cobalt	525	ug/L		555.6	2.92	94	75-125		
Lead	542	ug/L		555.6	0.900	97	75-125		
Mercury	51.8	ug/L		55.56	ND	93	75-125		
Molybdenum	536	ug/L		555.6	1.06	96	75-125		
Selenium	543	ug/L		555.6	ND	98	75-125		
Thallium	528	ug/L		555.6	ND	95	75-125		
<b>Matrix Spike Dup (B342684-MSD1)</b>				Sample: GH05495-01		Prepared: 08/31/23 Analyzed: 09/06/23			
Antimony	547	ug/L		555.6	ND	99	75-125	0.08	20
Arsenic	554	ug/L		555.6	ND	100	75-125	2	20
Barium	622	ug/L		555.6	72.6	99	75-125	3	20
Beryllium	550	ug/L		555.6	ND	99	75-125	3	20
Boron	10300	ug/L	Q2	555.6	9390	157	75-125	3	20
Cadmium	542	ug/L		555.6	1.27	97	75-125	3	20
Calcium	161	mg/L	Q4	5.556	157	71	75-125	0.6	20
Chromium	548	ug/L		555.6	ND	99	75-125	3	20
Cobalt	538	ug/L		555.6	2.92	96	75-125	2	20
Lead	556	ug/L		555.6	0.900	100	75-125	3	20
Mercury	52.6	ug/L		55.56	ND	95	75-125	2	20
Molybdenum	547	ug/L		555.6	1.06	98	75-125	2	20
Selenium	558	ug/L		555.6	ND	100	75-125	3	20
Thallium	540	ug/L		555.6	ND	97	75-125	2	20

## NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

\* Not a TNI accredited analyte

### Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279  
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

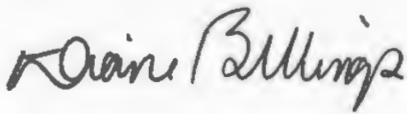
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

### Qualifiers

- B2 Contamination does not impact data since sample result is greater than ten times the contamination level found in the blank.
- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- Q1 Matrix Spike failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q2 Matrix Spike Duplicate failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q3 Matrix Spike/Matrix Spike Duplicate both failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.



Certified by: Diane Billings, Project Manager



WELL/SAMPLE POINT AP05S

Purge Method: PORTABLE PUMP

Date: 8-23-23 Start Time: 11:30

Finish/Sample Time: 13:04

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
Depth to Water From MP: 6.07 ft  
Water Column Length: \_\_\_\_\_ ft  
Well Water Volume: \_\_\_\_\_ Gal / L

Min. Purge Volume: 1.5 Gal / L  
Total Purge Volume: 1.8 Gal / L  
Max Drawdown: NA ft  
Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	11:50	06.43	1.00	2.02	1470	26.7	-131	1.47	43.1
2	11:51	06.42	1.00	6.91	1,490	26.7	-132	1.30	40.9
3	11:52	06.43	1.00	6.88	1,490	26.6	-133	1.26	39.7
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:  
Odor:  None  Slight  Mod.  Strong  
Color:  None  Slight  Mod.  Strong  
Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C.V, 40mL, HCL)
<u>2</u>	VOAS (C.V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250 mL)
<u>1</u>	<u>2.5 L AP03</u>
<u>1</u>	<u>500 mL ZREC</u>

Filtered	
Qty	Bottles
<u>1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P,500mL)
<u>1</u>	<u>+ etc</u>

Ferrous Iron over range mg/L

Comments NA

Sampler's Signature: [Signature]



WELL/SAMPLE POINT AP07S

Purge Method: Portable pump

Date: 8/28/23 Start Time: 0945 Finish/Sample Time: 1047

Well Depth (Bottom) From MP: 37.35 ft Min. Purge Volume: 1.0 Gal (L)  
 Depth to Water From MP: 25.19 ft Total Purge Volume: 1.4 Gal (L)  
 Water Column Length: 12.16 ft Max Drawdown: - ft  
 Well Water Volume: 7.36 Gal (L) Total Drawdown: 0.97 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1007	25.77	100	6.78	1430	20.49	42	10.12	135
2	1010	25.95	100	6.97	1430	20.55	43	9.90	114
3	1012	25.98	100	6.95	1420	20.59	44	9.81	101
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	2.5L HNO3
1	NaOH + ZnAc

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	TOC

Ferrous Iron 0.097 mg/L

Comments Final DTW = 26.16'

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-01

Purge Method: Debricate 1 pump

Date: 8/22/23 Start Time: 1158 Finish/Sample Time: 1428

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Depth to Water From MP: 10.28 ft  
 Total Purge Volume: 1500 Gal / L (M)  
 Water Column Length: \_\_\_\_\_ ft  
 Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L  
 Total Drawdown: 15.62 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1221	11.72	100	6.63	1470	24.89	-91	0.57	15.2
2	1223	11.90	100	6.64	1470	24.73	-92	0.54	10.0
3	1225	12.05	100	6.64	1450	24.70	-95	0.51	8.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C.V, 40mL, HCL)
313	VOAs (C.V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
363	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
161	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
161	General (P, 250 mL) <u>500mL 100mL</u>
161	(P, 500mL, NaOH & ZnAc) <u>8/22/23</u>
161	(P, 2.5L, HNO3)

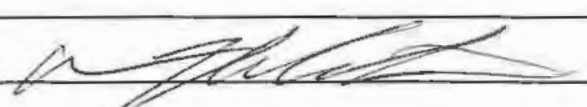
15415

Filtered	
Qty	Bottles
111	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
161	General (P,500mL) <u>1000mL</u>
363	TOC (A, V, 40mL, H2SO4)

Ferrous Iron Over range mg/L

Comments Final DW 25.90

Sampler's Signature: \_\_\_\_\_



WELL/SAMPLE POINT AW-05

Purge Method: Dedicated pump

Date: 8/28/23 Start Time: 1335 Finish/Sample Time: 1449

Well Depth (Bottom) From MP: Pump ft  
 Depth to Water From MP: 8.93 ft  
 Water Column Length: — ft  
 Well Water Volume: — Gal/L

Min. Purge Volume: 1.0 Gal (D)  
 Total Purge Volume: 1.3 Gal (L)  
 Max Drawdown: — ft  
 Total Drawdown: 0.31 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1346	9.09	100	7.03	1720	21.49	55	0.66	645
2	1347	9.10	100	7.01	1730	21.14	40	0.65	687
3	1349	9.10	100	7.01	1730	21.45	26	0.49	697
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	/	
Casing locked/secure	/	
Well cap fits securely.	/	
Good seal/drainage	/	
Well has weep holes	/	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	2.5L HNO3
1	NaOH + Zn Ac

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	TDC

Ferrous Iron 4.189 mg/L

Comments Final DTW = 9.24'

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-06

Purge Method: Dedicated Blaster

Date: 5/28/2023 Start Time: 1450 Finish/Sample Time: 1610

Well Depth (Bottom) From MP: \_\_\_\_\_ ft Min. Purge Volume: \_\_\_\_\_ Gal / L

Depth to Water From MP: 27.52 ft Total Purge Volume: 1000 Gal / L (1000)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 10.43 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1505	29.64	100	7.08	1110	23.40	-78	2.02	43.7
2	1507	29.50	100	7.02	1110	23.37	-77	2.08	40.4
3	1509	29.97	100	7.00	1110	23.28	-85	2.00	36.3
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
<u>3</u>	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250 mL) 1000mV
<u>1</u>	(P, 500mL, HNO3)
<u>1</u>	(P, 250mL, HNO3)

(15)

Filtered	
Qty	Bottles
<u>1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P, 500mL) 1000mV
<u>3</u>	TOC (A,V, 40mL, H2SO4)

APR 8/28/23 Ferrous Iron 0.553 mg/L

Comments Final DTW 37.95 AL

Sampler's Signature: \_\_\_\_\_

WELL/SAMPLE POINT AW-08

Purge Method: Descaled pump

Date: 8/28/2023 Start Time: 1315 Finish/Sample Time: 1440

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Depth to Water From MP: 24.76 ft  
 Total Purge Volume: \_\_\_\_\_ Gal / L  
 Water Column Length: \_\_\_\_\_ ft  
 Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L  
 Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1332	24.17	100	6.88	489	19.79	-118	12.14	117
2	1334	30.34	100	6.85	436	19.89	-115	12.38	67.3
3	1336	30.34	100	6.90	455	19.83	-119	12.40	112
4	1338	30.72	100	6.83	473	19.90	-120	12.36	116
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000mL
1	(P, 500mL, H2SO4) NaOH H2NAC
1	(P, 250mL, HNO3)

15

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL)
3	TOC (A, V, 40mL, H2SO4)

Comments: Final DTW 39.63 PL  
 Check valve issues cause flow rate to fluctuate between 25-200 ml/min

Ferrous Iron over range mg/L

Sampler's Signature: \_\_\_\_\_

WELL/SAMPLE POINT AW-09

Purge Method: Bladder pump

Date: 8/29/23 Start Time: 1000 Finish/Sample Time: 1150

Well Depth (Bottom) From MP: pump ft  
 Depth to Water From MP: 26.73 ft  
 Water Column Length: — ft  
 Well Water Volume: — Gal / L

Min. Purge Volume: 1.5 Gal   
 Total Purge Volume: 1.8 Gal   
 Max Drawdown: — ft  
 Total Drawdown: 12.22 ft

End DTW  
38.95

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1030	2980	100	7.18	1470	18.23	-90	4.84	211
2	1031	2999	100	7.13	1490	18.23	-93	4.69	194
3	1032	3021	100	7.12	1500	18.20	-94	4.50	177
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	
Casing locked/secure	<input checked="" type="checkbox"/>	
Well cap fits securely.	<input checked="" type="checkbox"/>	
Good seal/drainage	<input checked="" type="checkbox"/>	
Well has weep holes	<input checked="" type="checkbox"/>	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL
1	2.5 L HNO3
1	Zn acetate 500 mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250 mL) 1000
3	TOC

Ferrous Iron Over Range mg/L

Comments \_\_\_\_\_

Sampler's Signature: Joseph R Paul



WELL/SAMPLE POINT AW-10

Purge Method: Dedicated Bladder

Date: 8/28/2023 Start Time: 1115 Finish/Sample Time: 1304

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Depth to Water From MP: 2.35 ft  
 Total Purge Volume: 1500 Gal / L (L)  
 Water Column Length: \_\_\_\_\_ ft  
 Max Drawdown: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L  
 Total Drawdown: 3.40 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1158	4.04	100	6.43	2370	20.30	-107	0.00	0.0
2	1200	4.14	100	6.42	2370	20.35	-110	0.00	0.0
3	1202	4.24	100	6.42	2370	20.29	-111	0.00	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
<u>3</u>	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, <del>250</del> mL) 1000mL
<u>1</u>	(P, 500mL NaOH + 2AA)
<u>1</u>	(P, 2.5L, HNO3)

15

Filtered	
Qty	Bottles
<u>1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P,500mL)
<u>3</u>	TOC (A,V, 40mL, H2SO4)

Ferrous Iron Over range mg/L

Comments Final DTW 5.75 AL

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-11

Purge Method: Debrisless Blender

Date: 8/28/2023 Start Time: 0945 Finish/Sample Time: 1110

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Depth to Water From MP: 6.37 ft  
 Water Column Length: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L  
 Min. Purge Volume: \_\_\_\_\_ Gal / L  
 Total Purge Volume: 1500 Gal / L ml  
 Max Drawdown: \_\_\_\_\_ ft  
 Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1005	6.37	100	6.30	2010	16.83	-94	0.23	120
2	1007	6.37	100	6.29	1990	16.75	-95	0.21	108
3	1009	6.37	100	6.29	1990	16.78	-96	0.24	100
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250ml) 1000 ml
1	(P, 500ml, NaOH + 2NAL)
1	(P, 2.5L, HNO3)

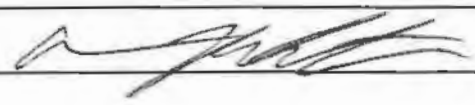
15

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500ml) 1000 ml
3	TOC (A, 40mL, H2SO4)

App 7/25/23  
 Ferrous Iron 6 OVER RANGE mg/L

Comments: Final ATW - 6.37 ft

Sampler's Signature: \_\_\_\_\_



WELL/SAMPLE POINT AW-14

Purge Method: Dedicated Bladder

Date: 8/23/23 Start Time: 1430 Finish/Sample Time: 1553

Well Depth (Bottom) From MP: \_\_\_\_\_ ft Min. Purge Volume: \_\_\_\_\_ Gal / L

Depth to Water From MP: 7.06 ft Total Purge Volume: 1500 Gal / L 72

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 10.00 ft

APP 8/23/23 APP 8/23/23

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1448	8.43	100	7.14	1650	23.10	-130	1.16	0.0
2	1450	8.95	100	7.07	1680	23.16	-132	1.13	0.0
3	1452	9.10	100	6.99	1720	23.18	-132	1.09	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000mL
1	CP 500mL NaOH (200mL)
1	CP 250mL HNO3

15

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1000mL
3	TOC (A,V, 40mL, H2SO4)

Ferrous Iron Over range mg/L

Comments Annual DEW 1706

Sampler's Signature: \_\_\_\_\_

WELL/SAMPLE POINT AW-15

Purge Method: Descaled Bladder

Date: 8/23/23 Start Time: 1130 Finish/Sample Time: 1255

Well Depth (Bottom) From MP: \_\_\_\_\_ ft Min. Purge Volume: \_\_\_\_\_ Gal / L

Depth to Water From MP: 9.00 ft Total Purge Volume: 1500 Gal / L (mL)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 0.20 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1149	9.17	100	6.78	2040	19.34	-139	0.55	0.0
2	1151	9.18	100	6.78	2040	19.40	-140	0.42	0.0
3	1153	9.19	100	6.78	2050	19.48	-140	0.45	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
<u>3</u>	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250 mL) 1000 mL
<u>1</u>	(P, 500mL NaOH vial)
<u>1</u>	(P, 250L, HNO3)

15

Filtered	
Qty	Bottles
<u>1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P, 500mL) 1000 mL
<u>3</u>	TOC (A,V, 40mL, H2SO4)

Ferrous Iron Over range mg/L

Comments Final DTU 9.20

Sampler's Signature: \_\_\_\_\_

WELL/SAMPLE POINT AW-15S

Purge Method: Defloculant Bladder

Date: 8/23/23 Start Time: 1258 Finish/Sample Time: 1425

Well Depth (Bottom) From MP: \_\_\_\_\_ ft Min. Purge Volume: \_\_\_\_\_ Gal / L

Depth to Water From MP: 9.75 ft Total Purge Volume: 1500 Gal / L (1500)

Water Column Length: \_\_\_\_\_ ft Max Drawdown: \_\_\_\_\_ ft

Well Water Volume: \_\_\_\_\_ Gal / L Total Drawdown: 500 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1318	10.95	100	6.92	1720	25.12	-30	0.40	0.0
2	1320	11.00	100	6.92	1730	25.05	-29	0.39	0.0
3	1322	11.05	100	6.92	1730	25.10	-29	0.35	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
<u>3</u>	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250 mL)
<u>1</u>	(P, 500mL, NaOH & ZnAc)
<u>1</u>	(P, 250mL, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1</u>	General (P, 500mL) 1000mL
<u>3</u>	TOC (A, V, 40mL, H2SO4)

Ferrous Iron 0.433 mg/L

Comments Final DTW 14.75 PL

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-16

Purge Method: Dedicator Pump

Date: 8-21-23 Start Time: 12:05 Finish/Sample Time: 14:18 1428 ML

Well Depth (Bottom) From MP: 56.80 ~~ft~~ Top of Pump Min. Purge Volume: 1.5 Gal/L

Depth to Water From MP: 25.21 ft Total Purge Volume: 1.8 Gal/L

Water Column Length: 31.59 ft Max Drawdown: NA ft

Well Water Volume: 5.054 Gal/L App 8/21/23 Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	12:25	25.87	100	7.01	2,000	20.92	-119	0.21	9.0
2	12:26	25.90	100	6.99	1,990	20.89	-120	0.18	8.5
3	12:27	25.91	100	6.96	1,970	20.81	-120	0.12	9.7
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:  
Odor:  None  Slight  Mod.  Strong  
Color:  None  Slight  Mod.  Strong  
Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
<u>2</u>	VOAs (C,V, 40mL, HCL)
<u>3+3</u>	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
<u>3+3</u>	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
<u>1+1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1+1</u>	General (P, 250 mL)
<u>1+1</u>	<u>2.5 L HNO3</u>
<u>1+1</u>	<u>P, 500 mL, ZNAC</u>

30

Filtered	
Qty	Bottles
<u>1+1</u>	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
<u>1+1</u>	General (P,500mL)
<u>3+3</u>	<u>TOC</u>

Ferrous Iron 5.161 mg/L

Comments FD-26.11 DUP were GRABED

Sampler's Signature: [Signature]



WELL/SAMPLE POINT AW-17

Purge Method: Dedicated Pump

Date: 8-21-23 Start Time: 14:32 Finish/Sample Time: 16:01

Well Depth (Bottom) From MP: 56.62 ft TOP OF PUMP Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 26.14 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: 30.48 ft Max Drawdown: NA ft

Well Water Volume: 4,876 Gal / L Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	14:50	26.84	100	7.04	1,620	25.29	-103	1.53	137
2	14:51	26.82	100	6.99	1,630	25.15	-104	1.41	141
3	14:52	26.83	100	6.95	1,620	25.06	-106	1.30	140
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	2.5 L HNO3
1	500 mL ZNAC

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Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	90 L 40 mL

Ferrous Iron OVER RANGE

Comments FD → 27.91

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-18

Purge Method: Dedicated Pump

Date: 8-22-23 Start Time: 09:43 Finish/Sample Time: 11:11

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Min. Purge Volume: 1.5 Gal / L  
 Depth to Water From MP: 27.97 ft  
 Total Purge Volume: 1.8 Gal / L  
 Water Column Length: \_\_\_\_\_ ft  
 Max Drawdown: NA ft  
 Well Water Volume: \_\_\_\_\_ Gal / L  
 Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	10:03	29.48	100	6.62	1,740	18.92	-117	1.30	33.7
2	10:04	29.51	100	6.60	1,730	18.91	-118	1.15	32.9
3	10:05	29.56	100	6.59	1,730	18.99	-119	1.05	29.3
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL)
1	25 L HNO3
1	500 mL, 20mL

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	TOC

Ferrous Iron over range mg/L

Comments FD → 32.11

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-19

Purge Method: Dedicated Pump

Date: 8-22-23 Start Time: 11:30 Finish/Sample Time: 12:57

Well Depth (Bottom) From MP: \_\_\_\_\_ ft  
 Depth to Water From MP: 14.10 ft  
 Water Column Length: \_\_\_\_\_ ft  
 Well Water Volume: \_\_\_\_\_ Gal / L

Min. Purge Volume: 1.5 Gal / L  
 Total Purge Volume: 1.8 Gal / L  
 Max Drawdown: NA ft  
 Total Drawdown: \_\_\_\_\_ ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	11:50	16.03	100	6.51	1,050	20.01	-58	1.10	279
2	11:51	16.11	100	6.50	1,060	20.07	-58	1.00	268
3	11:52	16.20	100	6.49	1,050	20.03	-57	0.96	246
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanlon

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
3	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	2.5 L HNO3
1	500 mL Znac

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL)
3	TOC

Ferrous Iron 2673 mg/L

Comments FD - 18.12

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-21

Purge Method: Dedicated Pump

Date: 8-22-23 Start Time: 14:40 Finish/Sample Time: 16:07

Well Depth (Bottom) From MP:        ft  
 Min. Purge Volume: 1.5 Gal / L  
 Depth to Water From MP: 12.47 ft  
 Total Purge Volume: 1.8 Gal / L  
 Water Column Length:        ft  
 Max Drawdown: NA ft  
 Well Water Volume:        Gal / L  
 Total Drawdown:        ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	14:58	18.80	100	6.55	1,040	18.73	141	7.89	16.2
2	14:59	18.84	100	6.54	1,040	18.64	136	7.74	15.7
3	15:00	18.88	100	6.53	1,050	18.59	130	7.69	15.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HORIBA

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

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Unfiltered	
Qty	Bottles
3	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
6	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL)
1	2.5 L, HNO3
1	500 mL, 2% NaOH

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2SO4)
3	General (P,500mL)
	+ OC

Ferrous Iron 5.247 mg/L  
 Over Range <sup>BC</sup> 9/12/23

Comments FD 19.89

Sampler's Signature: [Signature]

### Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Kyle Lane</i>				Location: <i>EDWARD Power</i>					
Weather: <i>84° to 93° sunny</i>				Environment: <i>dry</i>					
Multiparameter Water Meter		Make: <i>Hanba</i>	Model: <i>V-500</i>	Serial Number: <i>PW26yJ03</i>					
Water Level Meter		Make: <i>Heron</i>	Model: <i>water tap</i>	Serial Number: <i>19FF2202131ML</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.02</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.95</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.00</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2040</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	<i>NA</i>	Geotech	3GA1071	Jan-24
ORP	<i>7.14</i>	mV	±15 mV	<i>P</i>	<i>NA</i>	<i>NA</i>	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.01</i>	mg/L	±0.1	<i>P</i>	<i>NA</i>	<i>NA</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.00</i>	%	97-100%	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.40</i>	NTU	<2 NTU	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)						Time: <i>11:40</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>3.94</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GE870	May-24	
pH 7.00b	<i>7.01</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GF113	Jun-24	
pH 10.00b	<i>10.03</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GE820	May-24	
SC 1000	<i>10.30</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	Ricca	4209A12	Aug-23	
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time: <i>NA</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	022361-01	12/27/2024
SC 1000	<i>/</i>	µS/cm	±5%	<i>/</i>	<i>/</i>	<i>/</i>	Ricca	4209A12	Aug-23
DO (Zero pt)	<i>/</i>	mg/L	±0.1 mg/L	<i>/</i>	<i>/</i>	<i>/</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>/</i>	NTU	<2 NTU	<i>/</i>	<i>/</i>	<i>/</i>	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time: <i>16:35</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<i>4.03</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023067-01	3/14/2025
7.00a	<i>6.94</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	023051-02	2/21/2025
10.00a	<i>9.95</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NA</i>	<i>NA</i>	MSI	022361-01	12/27/2024
SC 1000	<i>10.10</i>	µS/cm	±5%	<i>P</i>	<i>NA</i>	<i>NA</i>	Ricca	4209A12	Aug-23
DO (Zero pt)	<i>0.01</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>NA</i>	<i>NA</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0</i>	NTU	<2 NTU	<i>P</i>	<i>NA</i>	<i>NA</i>	Pace Labs	N/A (DI)	N/A (DI)
Comments: <i>NA</i>									
Signature: <i>[Signature]</i>				Date: <i>8-21-2023</i>					

## Multiparameter Meter Field Calibration Checklist

Field Personnel:	Auron Remberton	Location:	Edwards power station
Weather:	84° - 90° Wind partly cloudy NE 7 mph	Environment:	grass, gravel D:16

Multiparameter Water Meter	Make:	Hanna	Model:	US000	Serial Number:	U4U1 FIVE
Water Level Meter	Make:	Hanna	Model:	D:000-7	Serial Number:	3717-T

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	NO	-	MSI	023067-01	3/14/2025
pH 7.00a	6.75	s.u.	±0.1 s.u.	P	YES	7.00	MSI	023051-02	2/21/2025
pH 10.00a	9.92	s.u.	±0.1 s.u.	P	NO	-	MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	µS/cm	0 < 25 µS/cm	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%	I	-	-	Geotech	3GA1071	Jan-24
ORP	226	mV	±15 mV	I	-	-	InSitu	3GD927	Jan-24
DO (Zero pt)	0.00	mg/L	±0.1	I	-	-	Macron	#000228049	8/26/2025
DO (Saturated)	118.77	%	97-100%	I	-	-	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	< 2 NTU	I	-	-	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well 224 @ 29°

ICV (Initial Calibration Verification)						Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	3.02	s.u.	±0.15 s.u.	P	-	Geotech	2GE870	May-24		
pH 7.00b	6.86	s.u.	±0.15 s.u.	I	-	Geotech	2GF113	Jun-24		
pH 10.00b	10.05	s.u.	±0.15 s.u.	I	-	Geotech	2GE820	May-24		
SC 1000	1000	µS/cm	±5%	I	-	Ricca	4209A12	Aug-23		

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.		
pH 4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025		
pH 7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025		
pH 10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024		
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23		
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025		
Turbidity (DI)		NTU	< 2 NTU				Pace Labs	N/A (DI)	N/A (DI)		

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.		
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025		
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025		
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024		
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23		
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025		
Turbidity (DI)		NTU	< 2 NTU				Pace Labs	N/A (DI)	N/A (DI)		

Comments: Only one well samples

Signature:		Date:	8/21/2023
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron McKeown</i>			Location: <i>Edwards power station</i>		
Weather: <i>73°-72°L sunny wind NE 5mph</i>			Environment: <i>grass, gravel, dirt</i>		
Multiparameter Water Meter	Make: <i>Hanna</i>	Model: <i>U5000</i>	Serial Number: <i>U4U1FTVF</i>		
Water Level Meter	Make: <i>Heron</i>	Model: <i>Dip-T</i>	Serial Number: <i>3717-T</i>		

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.92</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>9.94</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>0.0</i>	µS/cm	0<25 µS/cm	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>19.60</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>	<i>N/A</i>	Geotech	3GA1071	Jan-24
ORP	<i>236</i>	mV	±15 mV	<i>P</i>	<i>NO</i>	<i>N/A</i>	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	<i>P</i>	<i>NO</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>113.3</i>	%	97-100%	<i>P</i>	<i>yes</i>	<i>100.0</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

*22° @ 25°C*

ICV (Initial Calibration Verification)					Time: <i>0845</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>4.04</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GE870	May-24
pH 7.00b	<i>6.88</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GF113	Jun-24
pH 10.00b	<i>9.99</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	2GE820	May-24
SC 1000	<i>9.94</i>	µS/cm	±5%	<i>P</i>	<i>N/A</i>	Ricca	4209A12	Aug-23

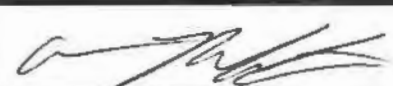
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1600</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.97</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.24</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	022361-01	12/27/2024
SC 1000	<i>9.98</i>	µS/cm	±5%	<i>P</i>	<i>NO</i>	<i>N/A</i>	Ricca	4209A12	Aug-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	<i>P</i>	<i>NO</i>	<i>N/A</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>P</i>	<i>NO</i>	<i>N/A</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: 	Date: <i>8/22/2023</i>
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### Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Kyle Lane</b>				Location: <b>EDWARD Power</b>					
Weather: <b>9:00 Sunny</b>				Environment: <b>DNV</b>					
Multiparameter Water Meter		Make: <b>HANNA</b>	Model: <b>V-5000</b>	Serial Number: <b>PW264JD3</b>					
Water Level Meter		Make: <b>HANNA</b>	Model: <b>water tape</b>	Serial Number: <b>19FF220213ML</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.37	s.u.	±0.1 s.u.	F	9/5	4.00	MSI	023067-01	3/14/2025
pH 7.00a	7.93	s.u.	±0.1 s.u.	P	NA	NA	MSI	023051-02	2/21/2025
pH 10.00a	9.97	s.u.	±0.1 s.u.	P	NA	NA	MSI	022361-01	12/27/2024
SC Zero (DI)	0.20	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1.970	µS/cm	±5%	P	NA	NA	Geotech	3GA1071	Jan-24
ORP	212	mV	±15 mV	P	NA	NA	InSitu	3GD927	Jan-24
DO (Zero pt)	0.08	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	97.53	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.9	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)						Time: <b>08:40</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	May-24	
pH 7.00b	7.04	s.u.	±0.15 s.u.	P	NA	Geotech	2GF113	Jun-24	
pH 10.00b	10.09	s.u.	±0.15 s.u.	P	NA	Geotech	2GE820	May-24	
SC 1000	9.00	µS/cm	±5%	P	NA	Ricca	4209A12	Aug-23	
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time: <b>NA</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023067-01	3/14/2025
pH 7.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023051-02	2/21/2025
pH 10.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	022361-01	12/27/2024
SC 1000	/	µS/cm	±5%	/	/	/	Ricca	4209A12	Aug-23
DO (Zero pt)	/	mg/L	±0.1 mg/L	/	/	/	Macron	#000228049	8/26/2025
Turbidity (DI)	/	NTU	<2 NTU	/	/	/	Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
CCV (Continued Calibration Verification):						Time: <b>1A:20</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.02	s.u.	±0.1 s.u.	P	NA	NA	MSI	023067-01	3/14/2025
7.00a	7.05	s.u.	±0.1 s.u.	P	NA	NA	MSI	023051-02	2/21/2025
10.00a	9.99	s.u.	±0.1 s.u.	P	NA	NA	MSI	022361-01	12/27/2024
SC 1000	9.40	µS/cm	±5%	P	NA	NA	Ricca	4209A12	Aug-23
DO (Zero pt)	0.01	mg/L	±0.1 mg/L	P	NA	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	/	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Comments: <b>NA</b>									
Signature: <b>[Signature]</b>						Date: <b>8-22-2023</b>			

## Multiparameter Meter Field Calibration Checklist

Field Personnel: Aaron Pemberton Location: Edwards

Weather: 82°-87° Sunny Wind SW 7mph Environment: grass, gravel, dirt

Multiparameter Water Meter Make: HORIBA Model: V5000 Serial Number: VHVI FTVF

Water Level Meter Make: Heron Model: 0-APP-7 Serial Number: 3717-7

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.05</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>9.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	022361-01	12/27/2024
SC Zero (DI)	<u>0.0</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2010</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Geotech	3GA1071	Jan-24
ORP	<u>222</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>N/A</u>	InSitu	3GD927	Jan-24
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>17.6</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well 226 @ 27°C

### ICV (Initial Calibration Verification)

Time: 0843

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.00</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	2GE870	May-24
pH 7.00b	<u>6.91</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	2GF113	Jun-24
pH 10.00b	<u>10.07</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	2GE820	May-24
SC 1000	<u>990</u>	µS/cm	±5%	<u>P</u>	<u>N/A</u>	Ricca	4209A12	Aug-23

Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time: 1600

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.10</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	022361-01	12/27/2024
SC 1000	<u>989</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Ricca	4209A12	Aug-23
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

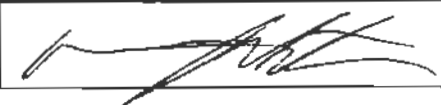
Approx. every 4 hrs, unless only one well

### CCV (Continued Calibration Verification):

Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:  Date: 8/23/23

### Multiparameter Meter Field Calibration Checklist

Field Personnel:	KYU LATE			Location:	EDWARDS POWER				
Weather:	90° Sunny			Environment:	Dry				
Multiparameter Water Meter	Make:	Horiba	Model:	V-500	Serial Number:	PW264303			
Water Level Meter	Make:	MERON	Model:	water tape	Serial Number:	19FF220213ML			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	NA	NA	MSI	023067-01	3/14/2025
pH 7.00a	6.91	s.u.	±0.1 s.u.	P	NA	NA	MSI	023051-02	2/21/2025
pH 10.00a	9.99	s.u.	±0.1 s.u.	P	NA	NA	MSI	022361-01	12/27/2024
SC Zero (DI)	0.00	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1980	µS/cm	±5%	P	NA	NA	Geotech	3GA1071	Jan-24
ORP	210	mV	±15 mV	P	NA	NA	InSitu	3GD927	Jan-24
DO (Zero pt)	0.03	mg/L	±0.1	P	NA	NA	Macron	#000228049	8/26/2025
DO (Saturated)	92.00	%	97-100%	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.6	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:	08:46			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	4.14	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	May-24		
pH 7.00b	6.88	s.u.	±0.15 s.u.	P	NA	Geotech	2GF113	Jun-24		
pH 10.00b	10.05	s.u.	±0.15 s.u.	P	NA	Geotech	2GE820	May-24		
SC 1000	970	µS/cm	±5%	P	NA	Ricca	4209A12	Aug-23		

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:	NA				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.		
pH 4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025		
pH 7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025		
pH 10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024		
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23		
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025		
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)		

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.		
4.00a	4.06	s.u.	±0.1 s.u.	P	NA	NA	MSI	023067-01	3/14/2025		
7.00a	7.00	s.u.	±0.1 s.u.	P	NA	NA	MSI	023051-02	2/21/2025		
10.00a	9.98	s.u.	±0.1 s.u.	P	NA	NA	MSI	022361-01	12/27/2024		
SC 1000	1018	µS/cm	±5%	P	NA	NA	Ricca	4209A12	Aug-23		
DO (Zero pt)	0.06	mg/L	±0.1 mg/L	P	NA	NA	Macron	#000228049	8/26/2025		
Turbidity (DI)	0	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)		

Comments:

Signature:		Date:	8-23-2023
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>JD</u>				Location: <u>Vista Edwards</u>					
Weather: <u>71-81°F sunny wind NE 7-8 mph</u>				Environment: <u>grass, road</u>					
Multiparameter Water Meter		Make: <u>Hanba</u>	Model: <u>U-5000</u>	Serial Number: <u>YL9K 39HA</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dipper-T</u>	Serial Number: <u>11FF22093054L</u>					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.97</u>	s.u.	±0.1 s.u.	<u>pass</u>	<u>No</u>	<u>NA</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>6.54</u>	s.u.	±0.1 s.u.	<u>fail</u>	<u>yes</u>	<u>7.00</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>9.99</u>	s.u.	±0.1 s.u.	<u>pass</u>	<u>No</u>	<u>NA</u>	MSI	022361-01	12/27/2024
SC Zero (DI)	<u>20</u>	µS/cm	0<25 µS/cm	<u>↓</u>	<u>L</u>	<u>↓</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1970</u>	µS/cm	±5%	<u>↓</u>	<u>L</u>	<u>↓</u>	Geotech	3GA1071	Jan-24
ORP	<u>184</u>	mV	±15 mV	<u>fail</u>	<u>yes</u>	<u>230</u>	InSitu	3GD927	Jan-24
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1	<u>pass</u>	<u>No</u>	<u>NA</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>97.7</u>	%	97-100%	<u>↓</u>	<u>L</u>	<u>↓</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>1.2</u>	NTU	<2 NTU	<u>↓</u>	<u>L</u>	<u>↓</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)				Time: <u>0930</u>					
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Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>3.89</u>	s.u.	±0.15 s.u.	<u>pass</u>	<u>NA</u>	Geotech	2GE870	May-24
pH 7.00b	<u>6.73</u>	s.u.	±0.15 s.u.	<u>↓</u>	<u>↓</u>	Geotech	2GF113	Jun-24
pH 10.00b	<u>9.95</u>	s.u.	±0.15 s.u.	<u>↓</u>	<u>↓</u>	Geotech	2GE820	May-24
SC 1000	<u>954</u>	µS/cm	±5%	<u>↓</u>	<u>↓</u>	Ricca	4209A12	Aug-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):				Time: <u>80 8/28</u>					
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.10</u>	s.u.	±0.1 s.u.	<u>pass</u>	<u>No</u>	<u>NA</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.09</u>	s.u.	±0.1 s.u.	<u>↓</u>	<u>↓</u>	<u>↓</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.	<u>↓</u>	<u>↓</u>	<u>↓</u>	MSI	022361-01	12/27/2024
SC 1000	<u>1030</u>	µS/cm	±5%	<u>↓</u>	<u>↓</u>	<u>↓</u>	Ricca	4209A12	Aug-23
DO (Zero pt)	<u>0.10</u>	mg/L	±0.1 mg/L	<u>↓</u>	<u>↓</u>	<u>↓</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.8</u>	NTU	<2 NTU	<u>↓</u>	<u>↓</u>	<u>↓</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):				Time:					
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>[Signature]</u>	Date: <u>8/28/23</u>
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### Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pumberlin			Location:	Edwards power station				
Weather:	65-81° Sunny wind NE 4-10			Environment:	grass, gravel, dirt				
Multiparameter Water Meter	Make:	Hosiron	Model:	JS000	Serial Number:	PW26YJ D3			
Water Level Meter	Make:	Heron	Model:	Dipper 7	Serial Number:	3717-T			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.00	s.u.	±0.1 s.u.	P	I	I	MSI	023051-02	2/21/2025
pH 10.00a	9.98	s.u.	±0.1 s.u.	I	I	I	MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	I	I	I	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1990	µS/cm	±5%	I	I	I	Geotech	3GA1071	Jan-24
ORP	233	mV	±15 mV	I	I	I	InSitu	3GD927	Jan-24
DO (Zero pt)	0.09	mg/L	±0.1	I	I	I	Macron	#000228049	8/26/2025
DO (Saturated)	9.9	%	97-100%	I	I	I	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	2.0	NTU	<2 NTU	I	I	I	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:	0924			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	3.91	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	May-24		
pH 7.00b	7.00	s.u.	±0.15 s.u.	I	I	Geotech	2GF113	Jun-24		
pH 10.00b	10.00	s.u.	±0.15 s.u.	I	I	Geotech	2GE820	May-24		
SC 1000	978	µS/cm	±5%	I	I	Ricca	4209A12	Aug-23		

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:	1617			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	4.06	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025	
pH 7.00a	7.02	s.u.	±0.1 s.u.	I	I	I	MSI	023051-02	2/21/2025	
pH 10.00a	10.09	s.u.	±0.1 s.u.	I	I	I	MSI	022361-01	12/27/2024	
SC 1000	988	µS/cm	±5%	I	I	I	Ricca	4209A12	Aug-23	
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	I	I	I	Macron	#000228049	8/26/2025	
Turbidity (DI)	1.0	NTU	<2 NTU	I	I	I	Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025	
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025	
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024	
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23	
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025	
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)	

Comments:

Signature:		Date:	8/28 / 2023
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### Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Joe Reed</b>		Location: <b>Edwards Power</b>	
Weather:		Environment:	
Multiparameter Water Meter	Make: <b>Horiba</b>	Model: <b>U5000</b>	Serial Number: <b>Y29KJ9HA</b>
Water Level Meter	Make: <b>Heron</b>	Model: <b>1900</b>	Serial Number: <b>19FF211192HB</b>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.04</b>	s.u.	±0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	<b>7.01</b>	s.u.	±0.1 s.u.	P	N		MSI	023051-02	2/21/2025
pH 10.00a	<b>10.05</b>	s.u.	±0.1 s.u.	P	N		MSI	022361-01	12/27/2024
SC Zero (DI)	<b>1.0</b>	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>1990</b>	µS/cm	±5%	P	N		Geotech	3GA1071	Jan-24
ORP	<b>240</b>	mV	±15 mV	P	N		InSitu	3GD927	Jan-24
DO (Zero pt)	<b>0.05</b>	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	<b>97.9</b>	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.1</b>	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <b>9:25</b>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<b>4.00</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	May-24	
pH 7.00b	<b>7.98</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GF113	Jun-24	
pH 10.00b	<b>10.98</b>	s.u.	±0.15 s.u.	P	N	Geotech	2GE820	May-24	
SC 1000	<b>1000</b>	µS/cm	±5%	P	N	Ricca	4209A12	Aug-23	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
pH 7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <b>Joseph R Reed</b>	Date: <b>8/29/23</b>
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PH04366  
VMW 8-22-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		NPDES    GROUND WATER    DRINKING WATER		
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		UST    RCRA    OTHER		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		Site Location		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		STATE: <b>IL</b>		
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:				
				Profile #:				

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / .) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX    CODE DRINKING WATER    DW WATER    WT WASTE WATER    WW PRODUCT    P SOIL/SOLID    SL OIL    OL WIPE    WP AIR    AR OTHER    OT TISSUE    TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No. / Lab I.D.							
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Methanol	Other					Y/N	Y/N	Y/N	Y/N	Y/N	Y/N	Y/N
1	AP05S																										
2	AP07S																										
3	APW-01																										
4	AW-01																										
5	AW-05																										
6	AW-06																										
7	AW-08																										
8	AW-09																										
9	AW-10																										
10	AW-11																										
11	AW-14																										
12	AW-15																										
13	AW-15S																										
14	AW-16		WT G		8/21/23	1428		15	X	X	X																
15	AW-17		WT G		8/21/23	1601		15	X	X	X																
16	AW-18																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
EDW-23Q3-Rev 0	<i>[Signature]</i>	8/21/23	1707	<i>[Signature]</i>	8/22/23	700	0.6	Y	N	Y	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Huron Perimeter</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/21/23		

G#04366  
MMW 8-22-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		NPDES <b>GROUND WATER</b> DRINKING WATER		
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		UST RCRA OTHER		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		Site Location		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		STATE: <b>IL</b>		
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Project No. / Lab I.D.		
				Profile #:				

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AER AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ EDW-257-301 EDW-945-301 EDW-SUP-000 EDW-CAP-301	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No. / Lab I.D.
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other				
1	AW-19																			
2	AW-20																			
3	AW-21																			
4	AW-23																			
5	EMW-05																			
6	SG-01																			
7	SG-02																			
8	SG-03																			
9	XPW01A		WT 6		8/21/23	1515		X	X	X										
10	XPW02																			
11	XPW03																			
12	Field Blank																			
13	AW 16 Dup		WT 6		8/21/23	1428		15	X	X										
14	XPW01A Dup		WT 6		8/21/23	1515		15	X	X										
15																				
16																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>[Signature]</i>	8/21/23	1707	<i>[Signature]</i>	8-22-23	700	0.6	Y	N	Y

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>[Signature]</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/21/23		

GHO 4553  
Jmw 8-22-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		NPDES    GROUND WATER    DRINKING WATER		
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		UST    RCRA    OTHER		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		Site Location		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		STATE: <b>IL</b>		
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Profile #:		

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX    CODE DRINKING WATER    DW WATER    WT WASTE WATER    WW PRODUCT    P SOIL/SOLID    SL OIL    OL WIPE    WP AIR    AR OTHER    OT TISSUE    TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ EDW-257-301 EDW-845-301 EDW-SUP-000 EDW-CAP-301	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other				
1	AP05S																			
2	AP07S																			
3	APW-01																			
4	AW-01		WT G		8/22/23	1428	15	X	X	X										
5	AW-05																			
6	AW-06																			
7	AW-08																			
8	AW-09																			
9	AW-10																			
10	AW-11																			
11	AW-14																			
12	AW-15																			
13	AW-15S																			
14	AW-16																			
15	AW-17																			
16	AW-18		WT G		8/22/23	1111	15	X	X	X										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>[Signature]</i>	8/22/23	1640	<i>[Signature]</i>	8-22-23	1640	18.2	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Anna Remberta</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/22/23		



GH04553  
Vmw 8-22-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: <b>2</b> of <b>2</b>	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</b>	
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		UST    RCRA    OTHER	Site Location STATE: <b>IL</b>
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:			
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX    CODE DRINKING WATER    DW WATER    WT WASTE WATER    WW PRODUCT    P SOIL/SOLID    SL OIL    OL WIFE    WFP AIR    AR OTHER    OT TISSUE    TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test (Y/N)	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.		
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301				
1	AW-19		WT	G	8/22/23	1257	16	X	X	X															
2	AW-20		WT	G	8/22/23	1434	15	X	X	X															
3	AW-21		WT	G	8/23/23	1604	15	X	X	X															
4	AW-23																								
5	EMW-05																								
6	SG-01																								
7	SG-02																								
8	SG-03																								
9	XPW01A																								
10	XPW02		WT	G	8/22/23	1557	15	X	X	X															
11	XPW03																								
12	Field Blank		WT	G	8/22/23	1111	15	X	X	X															
13	A/W01 Dup		WT	G	8/22/23	1428	15	X	X	X															
14																									
15																									
16																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
<b>EDW-23Q3-Rev 0</b>	<i>[Signature]</i>	8/22/23	1640	<i>[Signature]</i>	8-22-23	1640	18.2	Y	N	Y			
<b>SAMPLER NAME AND SIGNATURE</b>							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)			
PRINT Name of SAMPLER: <i>Aaron Plunkerton</i>													
SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed (MM/DD/YY): <b>08/22/23</b>													

GH04572  
VMW 8-22-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 1 of 2	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</b>	
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		NPDES      GROUND WATER      DRINKING WATER	
Phone: (217) 753-8911    Fax:		Project Name:		Quote Reference:		UST      RCRA      OTHER	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Site Location	
				Profile #:		STATE: <b>IL</b>	

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX    CODE DRINKING WATER    DW WATER                WT WASTE WATER        WW PRODUCT             P SOIL/SOLID            SL OIL                     OL WPE                    WP AR                      AR OTHER                 OT TISSUE                TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.				
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301						
																								Y			
1	AP05S																										
2	AP07S																										
3	APW-01																										
4	AW-01																										
5	AW-05																										
6	AW-06																										
7	AW-08																										
8	AW-09																										
9	AW-10																										
10	AW-11																										
11	AW-14																										
12	AW-15																										
13	AW-15S																										
14	AW-16																										
15	AW-17																										
16	AW-18																										
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS																
EDW-23Q3-Rev 0			<i>[Signature]</i>		8/22/23	1640	<i>[Signature]</i>		8-22-23	1640	18.2	Y	N	Y													
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)														
PRINT Name of SAMPLER: <i>Harry Rimbalkin</i>																											
SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed (MM/DD/YY): 08/22/23																											

GHO4572  
Inv 8-22-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	Page: 2 of 2
Company: <b>Vistra Corp</b>	Report To: <b>Brian Voelker</b>	Attention: <b>Jason Stuckey</b>	<b>REGULATORY AGENCY</b>
Address: <b>13498 E. 900th St</b>	Copy To: <b>Jason Stuckey</b>	Company Name: <b>Vistra Corp</b>	
Email To: <b>Brian.Voelker@VistraCorp.com</b>	Purchase Order No.:	Address: <b>see Section A</b>	
Phone: (217) 753-8911 Fax:	Project Name:	Quote Reference:	
Requested Due Date/TAT: <b>10 day</b>	Project Number: <b>2285</b>	Project Manager:	NPDES <b>GROUND WATER</b> <b>DRINKING WATER</b>
		Profile #:	UST <b>RCRA</b> <b>OTHER</b>
			Site Location
			STATE: <b>IL</b>

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Test					
																	EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301		
1	AW-19		W/G	G	8/22/23	1257	15	X	X													
2	AW-20		W/G	G	8/22/23	1434	15	X	X													
3	AW-21		W/G	G	8/22/23	1604	15	X	X													
4	AW-23																					
5	EMW-05																					
6	SG-01																					
7	SG-02																					
8	SG-03																					
9	XPW01A																					
10	XPW02		W/G	G	8/22/23	1557	15	X	X													
11	XPW03																					
12	Field Blank		W/G	G	8/22/23	1111	15	X	X													
13	AW01 Dup		W/G	G	8/22/23	1428	15	X	X													
14																						
15																						
16																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>[Signature]</i>	8/22/23	1640	<i>[Signature]</i>	8-22-23	1640	18.2	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Avatar Remberton</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>				
DATE Signed (MM/DD/YY):		08/22/23			

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VMW 8-23-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		NPDES GROUND WATER DRINKING WATER		
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		UST RCRA OTHER		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		Site Location		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		STATE: <b>IL</b>		
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Profile #:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED DATE TIME	SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
							Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	EDW-257-301	EDW-845-301				
1	AP05S	WT G	8/23/23	1304	15	X	X	X												
2	AP07S																			
3	APW-01	WT G	8/23/23	1442	16	X	X	Y												
4	AW-01																			
5	AW-05																			
6	AW-06																			
7	AW-08																			
8	AW-09																			
9	AW-10																			
10	AW-11																			
11	AW-14	WT G	8/23/23	1553	15	X	X	X												
12	AW-15	WT G	8/23/23	1255	15	X	X	X												
13	AW-15S	WT G	8/23/23	1425	16	X	X	X												
14	AW-16																			
15	AW-17																			
16	AW-18																			

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0		<i>[Signature]</i>		8/23/23	1634	<i>[Signature]</i>		8-23-23	1634	11.7	Y	N	Y
SAMPLER NAME AND SIGNATURE						Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)				
PRINT Name of SAMPLER: <i>Aaron Pemberton</i>						DATE Signed (MM/DD/YY):							
SIGNATURE of SAMPLER: <i>[Signature]</i>						08/23/23							



GH04878  
mmw 8:24-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Address: <b>see Section A</b>		NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/>		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/>		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		Site Location		IL
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		STATE:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ (Y/N)	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
								Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	Methanol	Other				
1	AP05S	WT G		8/23/23	1304	15	X	X	X										
2	AP07S																		
3	APW-01	WT G		8/23/23	1442	15	X	X	Y										
4	AW-01																		
5	AW-05																		
6	AW-06																		
7	AW-08																		
8	AW-09																		
9	AW-10																		
10	AW-11																		
11	AW-14	WT G		8/23/23	1553	15	X	X	X										
12	AW-15	WT G		8/23/23	1255	15	X	X	X										
13	AW-15S	WT G		8/23/23	1425	15	X	X	X										
14	AW-16																		
15	AW-17																		
16	AW-18																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>[Signature]</i>	8/23/23	1634	<i>[Signature]</i>	8-23-23	1634	11.7	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Aaron Penickton</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/23/23		



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mmw 8-24-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 2 of 2	
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</b>	
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		NPDES      GROUND WATER      DRINKING WATER UST          RCRA                      OTHER	
Phone: (217) 753-8911    Fax:		Project Name:		Quote Reference:		Site Location	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		STATE: <b>IL</b>	
				Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX    CODE DRINKING WATER    DW WATER                    WT WASTE WATER        WW PRODUCT                P SOL/SOLID                SL OIL                            OL WIPE                        WP AIR                            AR OTHER                      OT TISSUE                      TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.	
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	EDW-257-301	EDW-845-301	EDW-SUP-000			EDW-CAP-301
1	AW-19																						
2	AW-20																						
3	AW-21																						
4	AW-23																						
5	EMW-05		WT G			8/23/23	10AM	15	X	X	X												
6	SG-01																						
7	SG-02																						
8	SG-03																						
9	XPW01A																						
10	XPW02																						
11	XPW03																						
12	Field Blank																						
13	E B 01		WT G			8/23/23	1600	15	X	X	X												
14																							
15																							
16																							

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS			
EDW-23Q3-Rev 0		<i>[Signature]</i>		8/23/23		1634		<i>[Signature]</i>		8-23-23		1634		11.7	Y	N	Y
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)				
PRINT Name of SAMPLER: <b>Aaron Hamberlin</b>																	
SIGNATURE of SAMPLER: <i>[Signature]</i>														DATE Signed (MM/DD/YY): <b>08/23/23</b>			

GH05495  
vmw 8-29-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		Address: <b>see Section A</b>		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		NPDES <b>GROUND WATER</b> <b>DRINKING WATER</b>		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		UST <b>RCRA</b> <b>OTHER</b>		
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		Site Location <b>IL</b>		
						STATE:		

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No / Lab I.D.			
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301					
1	AP05S																									
2	AP07S		WT	G	8/28/23	1047	15	X	X	X																
3	APW-01																									
4	AW-01																									
5	AW-05		WT	G	8/28/23	1449	15	X	X	X																
6	AW-06		WT	G	8/28/23	1610	15	X	X	X																
7	AW-08		WT	G	8/28/23	1440	15	X	X	X																
8	AW-09																									
9	AW-10		WT	G	8/28/23	1304	15	X	X	X																
10	AW-11		WT	G	8/28/23	1110	15	X	X	X																
11	AW-14																									
12	AW-15																									
13	AW-15S																									
14	AW-16																									
15	AW-17																									
16	AW-18																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
EDW-23Q3-Rev 0	<i>[Signature]</i>	08/28/23	1701	<i>[Signature]</i>	8-29-23	700	2.9	Y	N	Y			

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Container (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Arron Rembert</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/28/23		

GH05495  
VMW 8-29-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<table border="1"> <tr> <th colspan="3">REGULATORY AGENCY</th> </tr> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> <tr> <td>Site Location</td> <td>IL</td> <td></td> </tr> <tr> <td colspan="2">Requested Due Date/TAT: 10 day</td> <td colspan="2">Project Number: 2285</td> <td colspan="2">Profile #:</td> <td>STATE:</td> <td></td> <td></td> </tr> </table>			REGULATORY AGENCY			NPDES	GROUND WATER	DRINKING WATER	UST	RCRA	OTHER	Site Location	IL		Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		STATE:		
REGULATORY AGENCY																													
NPDES	GROUND WATER	DRINKING WATER																											
UST	RCRA	OTHER																											
Site Location	IL																												
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:		STATE:																							
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>																									
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>																									
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>																									
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:																									
		Project Manager:		Project Manager:																									

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.				
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301						
1	AW-19																										
2	AW-20																										
3	AW-21																										
4	AW-23																										
5	EMW-05		WT	G	8/28/23	1320	15	X	X	X																	
6	SG-01																										
7	SG-02																										
8	SG-03																										
9	XPW01A																										
10	XPW02																										
11	XPW03		WT	G	8/28/23	1616	15	X	X	X																	
12	Field Blank																										
13	EB02		WT	G	8/28/23	1625	15	X	X	X																	
14																											
15																											
18																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>[Signature]</i>	08/28/23	1701	<i>[Signature]</i>	8/29/23	700	2.9	Y	N	Y
SAMPLER NAME AND SIGNATURE							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:										
SIGNATURE of SAMPLER:										
							DATE Signed (MM/DD/YY):	08/28/23		

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MMW 8-29-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		Address: <b>see Section A</b>		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Circle Reference:		NPDES <b>GROUND WATER</b> <b>DRINKING WATER</b>		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		UST <b>RCRA</b> <b>OTHER</b>		
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		Site Location <b>IL</b>		
						STATE: <b>IL</b>		

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No / Lab I.D.		
						DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Methanol	Other	Analysis Test ↓	EDW-257-301	EDW-845-301	EDW-SUP-000			EDW-CAP-301	
																							MATRIX CODE (see valid codes to left)
1	AP05S																						
2	AP07S			WT 6	8/28/23	1047	15	X	X	X													
3	APW-01																						
4	AW-01																						
5	AW-05			WT 6	8/28/23	1449	15	X	X	X													
6	AW-06			WT 6	8/28/23	1610	15	X	X	X													
7	AW-08			WT 6	8/28/23	1440	15	X	X	X													
8	AW-09																						
9	AW-10			WT 6	8/28/23	1304	15	X	X	X													
10	AW-11			WT 6	8/28/23	1110	15	X	X	X													
11	AW-14																						
12	AW-15																						
13	AW-15S																						
14	AW-16																						
15	AW-17																						
16	AW-18																						
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS													
EDW-23Q3-Rev 0		<i>[Signature]</i>		08/28/23	1701	<i>[Signature]</i>		8-29-23	700	2.9	Y	N	Y										

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Correct (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Arron Remkeker</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/28/23		



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mmw 8-29-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>								
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> </table>			NPDES	GROUND WATER	DRINKING WATER	UST	RCRA	OTHER
NPDES	GROUND WATER	DRINKING WATER												
UST	RCRA	OTHER												
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Site Location</td> <td>IL</td> <td></td> </tr> <tr> <td>STATE:</td> <td></td> <td></td> </tr> </table>			Site Location	IL		STATE:		
Site Location	IL													
STATE:														
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>										
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:										
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:										
				Profile #:										

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.	
							Preservatives												
							Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Test ↓	EDW-257-301			EDW-845-301
1	AP05S																		
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3	APW-01																		
4	AW-01																		
5	AW-05																		
6	AW-06																		
7	AW-08																		
8	AW-09		8/29/23	1150		15													
9	AW-10																		
10	AW-11																		
11	AW-14																		
12	AW-15																		
13	AW-15S																		
14	AW-16																		
15	AW-17																		
16	AW-18																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>Joe Reed</i>	8/29/23	1409	<i>Joe Reed</i>	8/29-23	1409	1.7	Y	N	Y
<b>SAMPLER NAME AND SIGNATURE</b>							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Joe Reed</i>										
SIGNATURE of SAMPLER: <i>Joe Reed</i>										
DATE Signed (MM/DD/YY): <i>8/29/23</i>										



GHS632  
NW 8-29-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>			
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>				NPDES <b>GROUND WATER</b> DRINKING WATER	
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>				UST    RCRA    OTHER	
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>				Site Location	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:				STATE: <b>IL</b>	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		Profile #:			

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX    CODE	MATRIX CODE <small>(see valid codes to left)</small>	SAMPLE TYPE <small>(G=GRAB C=COMP)</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Y/N ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No / Lab I.D.								
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other												
1	AW-19																											
2	AW-20																											
3	AW-21																											
4	AW-23																											
5	EMW-05				8/29/23	1249		1																				
6	SG-01																											
7	SG-02																											
8	SG-03																											
9	XPW01A																											
10	XPW02																											
11	XPW03																											
12	Field Blank																											
13																												
14																												
15																												
16																												

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0		<i>Joseph A Reed</i>		8/29/23	1409	<i>Jason Stuckey</i>		8/29/23	1409	1.7	Y	N	Y
SAMPLER NAME AND SIGNATURE										Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooled (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Joe Reed</i>													
SIGNATURE of SAMPLER: <i>Joseph A Reed</i>													

GH05671  
JMU 8-29-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Address: <b>see Section A</b>		NPDES <b>GROUND WATER</b> <b>DRINKING WATER</b>		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		UST <b>RCRA</b> <b>OTHER</b>		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		Site Location		IL
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		STATE:		

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓ EDW-257-301 EDW-845-301 EDW-SUP-000 EDW-CAP-301	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No / Lab ID.	
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol					Other
1	AP05S																			
2	AP07S																			
3	APW-01																			
4	AW-01																			
5	AW-05																			
6	AW-06																			
7	AW-08																			
8	AW-09				8/29/23	1150	15													
9	AW-10																			
10	AW-11																			
11	AW-14																			
12	AW-15																			
13	AW-15S																			
14	AW-16																			
15	AW-17																			
16	AW-18																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>Joseph R Reed</i>	8/29/23	1409	<i>Joe Reed</i>	8/29-23	1409	1.7	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:					
		DATE Signed (MM/DD/YYYY): 8/29/23			



**Pace Analytical Services, LLC**  
2231 W. Altorfer Drive  
Peoria, IL 61615  
(800)752-6651

October 11, 2023

Brian Voelker  
Vistra - Edwards  
604 Pierce Boulevard  
O'Fallon, IL 62269

Dear Brian Voelker:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or [lisa.grant@pacelabs.com](mailto:lisa.grant@pacelabs.com).

Sincerely,

A handwritten signature in black ink that reads "Diane Billings". The signature is written in a cursive, flowing style.

Diane Billings  
Project Manager



**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

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Work Order    GH04366

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



---

Work Order    GH04572

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order    GH04878

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided





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Work Order    GH05497

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order    GH05671

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



**ANALYTICAL RESULTS**

**Sample:** GH04366-01  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04366-02  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 16:01  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04366-03  
**Name:** XPW01A  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 15:15  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04366-04  
**Name:** AW 16 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis



**ANALYTICAL RESULTS**

**Sample:** GH04366-05  
**Name:** XPW01A DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/21/23 15:15  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04572-01  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04572-02  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 11:11  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04572-03  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 12:57  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis



**ANALYTICAL RESULTS**

**Sample:**  
**Name:**  
**Matrix:**

**Sampled:**  
**Received:**

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04572-05  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 16:04  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04572-06  
**Name:** XPW02  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 15:57  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04572-07  
**Name:** FIELD BLANK  
**Matrix:** DI Water - Field Blank

**Sampled:** 08/22/23 11:11  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis



**ANALYTICAL RESULTS**

**Sample:** GH04572-08  
**Name:** AW-01 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04878-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 13:04  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:**  
**Name:**  
**Matrix:**

**Sampled:**  
**Received:**

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04878-03  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 15:53  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis





**ANALYTICAL RESULTS**

**Sample:** GH04878-04  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 12:55  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04878-05  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 14:25  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:**  
**Name:**  
**Matrix:**

**Sampled:**  
**Received:**

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH04878-07  
**Name:** EB 01  
**Matrix:** DI Water - Equipment Blank

**Sampled:** 08/23/23 16:00  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis



**ANALYTICAL RESULTS**

**Sample:** GH05497-01  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 10:47  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH05497-02  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 14:49  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH05497-03  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 16:10  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH05497-04  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 14:40  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis



**ANALYTICAL RESULTS**

**Sample:** GH05497-05  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 13:04  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH05497-06  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 11:10  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:**  
**Name:**  
**Matrix:**

**Sampled:**  
**Received:**

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH05497-08  
**Name:** XPW03  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 16:16  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis



**ANALYTICAL RESULTS**

**Sample:** GH05497-09  
**Name:** EB 02  
**Matrix:** DI Water - Equipment Blank

**Sampled:** 08/28/23 16:25  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**Sample:** GH05671-01  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 08/29/23 11:50  
**Received:** 08/29/23 14:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Dissolved Gases by GC/FID - Pace Analytical - Indianapolis

**ANALYTICAL RESULTS**

**Sample:** GH04366-01  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	3.95	pCi/L			1	0.616	09/18/23 21:28	PACE	904.0 903.0
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**Sample:** GH04366-02  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 16:01  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Miscellaneous - Pace Analytical - Mt Juliet, Tn

Rad 226 and 228-Subcontract	2.64	pCi/L			1	0.748	09/18/23 21:28	PACE	904.0 903.0
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**ANALYTICAL RESULTS**

**Sample:** GH04366-03  
**Name:** XPW01A  
**Matrix:** Ground Water - Grab

**Sampled:** 08/21/23 15:15  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.01	pCi/L			1	0.57	09/18/23 21:28	PACE	904.0 903.0

**Sample:** GH04366-04  
**Name:** AW 16 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/21/23 14:28  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	5.15	pCi/L			1	0.749	09/18/23 21:28	PACE	904.0 903.0

**Sample:** GH04366-05  
**Name:** XPW01A DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/21/23 15:15  
**Received:** 08/22/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.731	pCi/L			1	0.657	09/18/23 21:28	PACE	904.0 903.0

**Sample:** GH04572-01  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.13	pCi/L			1	0.545	09/08/23 18:01	PACE	904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GH04572-02  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 11:11  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	6.06	pCi/L			1	0.545	09/08/23 18:01	PACE	904.0 903.0

**Sample:** GH04572-03  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 12:57  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.75	pCi/L			1	0.553	09/08/23 18:01	PACE	904.0 903.0

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									

**Sample:** GH04572-05  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 16:04  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.936	pCi/L			1	0.438	09/09/23 00:14	PACE	904.0 903.0





**ANALYTICAL RESULTS**

**Sample:** GH04572-06  
**Name:** XPW02  
**Matrix:** Ground Water - Grab

**Sampled:** 08/22/23 15:57  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.12	pCi/L			1	0.416	09/09/23 00:14	PACE	904.0 903.0

**Sample:** GH04572-07  
**Name:** FIELD BLANK  
**Matrix:** DI Water - Field Blank

**Sampled:** 08/22/23 11:11  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.48	pCi/L			1	0.642	09/08/23 23:19	PACE	904.0 903.0

**Sample:** GH04572-08  
**Name:** AW-01 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 08/22/23 14:28  
**Received:** 08/22/23 16:40

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.558	pCi/L			1	0.543	09/08/23 23:19	PACE	904.0 903.0

**Sample:** GH04878-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 08/23/23 13:04  
**Received:** 08/23/23 16:34

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.4	pCi/L			1	0.661	09/08/23 23:19	PACE	904.0 903.0



**ANALYTICAL RESULTS**

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

**Sample:** GH04878-03 **Sampled:** 08/23/23 15:53  
**Name:** AW-14 **Received:** 08/23/23 16:34  
**Matrix:** Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	3.53	pCi/L			1	0.791	09/08/23 23:19	PACE	904.0 903.0
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**Sample:** GH04878-04 **Sampled:** 08/23/23 12:55  
**Name:** AW-15 **Received:** 08/23/23 16:34  
**Matrix:** Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	6.12	pCi/L			1	0.62	09/08/23 23:19	PACE	904.0 903.0
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**Sample:** GH04878-05 **Sampled:** 08/23/23 14:25  
**Name:** AW-15S **Received:** 08/23/23 16:34  
**Matrix:** Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	1.02	pCi/L			1	0.589	09/08/23 23:19	PACE	904.0 903.0
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**ANALYTICAL RESULTS**

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Sample:** GH04878-07 **Sampled:** 08/23/23 16:00  
**Name:** EB 01 **Received:** 08/23/23 16:34  
**Matrix:** DI Water - Equipment Blank

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	0.103 U	pCi/L			1	0.781	09/08/23 23:19	PACE	904.0 903.0
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**Sample:** GH05497-01 **Sampled:** 08/28/23 10:47  
**Name:** AP07S **Received:** 08/29/23 07:00  
**Matrix:** Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	1.26	pCi/L			1	0.483	09/22/23 14:40	PACE	904.0 903.0
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**Sample:** GH05497-02 **Sampled:** 08/28/23 14:49  
**Name:** AW-05 **Received:** 08/29/23 07:00  
**Matrix:** Ground Water - Grab

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	0.0965 U	pCi/L			1	0.919	09/22/23 14:40	PACE	904.0 903.0
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**ANALYTICAL RESULTS**

**Sample:** GH05497-03  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 16:10  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.107 U	pCi/L			1	0.484	09/22/23 14:40	PACE	904.0 903.0

**Sample:** GH05497-04  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 14:40  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.434 J	pCi/L			1	0.591	09/22/23 14:40	PACE	904.0 903.0

**Sample:** GH05497-05  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 13:04  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	4.03	pCi/L			1	0.736	09/22/23 14:40	PACE	904.0 903.0

**Sample:** GH05497-06  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 11:10  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.45	pCi/L			1	0.534	09/22/23 14:40	PACE	904.0 903.0



**ANALYTICAL RESULTS**

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

**Sample:** GH05497-08  
**Name:** XPW03  
**Matrix:** Ground Water - Grab

**Sampled:** 08/28/23 16:16  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	0.261 J	pCi/L			1	0.607	09/22/23 14:40	PACE	904.0 903.0
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**Sample:** GH05497-09  
**Name:** EB 02  
**Matrix:** DI Water - Equipment Blank

**Sampled:** 08/28/23 16:25  
**Received:** 08/29/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	0.263 J	pCi/L			1	0.621	09/22/23 14:40	PACE	904.0 903.0
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**Sample:** GH05671-01  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 08/29/23 11:50  
**Received:** 08/29/23 14:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	1.52	pCi/L			1	0.551	09/18/23 21:28	PACE	904.0 903.0
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**QC SAMPLE RESULTS**

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Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

\* Not a TNI accredited analyte

Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

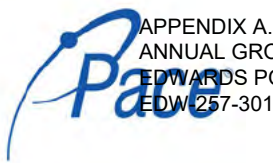
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Diane Billings, Project Manager



August 31, 2023

Gail Shindler  
Pace Peoria  
2231 W Altorfer Dr  
Peoria, IL 61615

RE: Project: GH04366/Vistra Edwards  
Pace Project No.: 50352721

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 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 - Indianapolis

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

Sincerely,

Heather Patterson  
heather.patterson@pacelabs.com  
(317)228-3146  
Project Manager

Enclosures

cc: Diane Billings, Pace IL/MO  
Janet Clutters, Pace Analytical Peoria  
Taylor Cordle, Pace Analytical Peoria  
Jon Robert Handshy, Pace Hazelwood  
Amy Holmes, Pace Hazelwood  
Chenise Lambert-Sykes, Pace Analytical Peoria  
Erin Lane, Pace Peoria  
Jennifer Solomon, Pace Analytical Peoria



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### CERTIFICATIONS

Project: GH04366/Vistra Edwards  
Pace Project No.: 50352721

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**Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
Wisconsin Laboratory #: 999788130  
USDA Foreign Soil Permit #: 525-23-13-23119  
USDA Compliance Agreement #: IN-SL-22-001

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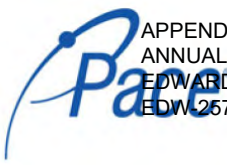
**SAMPLE SUMMARY**

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50352721001	AW-16	Water	08/21/23 14:28	08/29/23 09:30
50352721002	AW-17	Water	08/21/23 16:01	08/29/23 09:30
50352721003	XPW01A	Water	08/21/23 15:15	08/29/23 09:30
50352721004	AW-16 DUP	Water	08/21/23 14:28	08/29/23 09:30
50352721005	XPW01A DUP	Water	08/21/23 15:15	08/29/23 09:30

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**SAMPLE ANALYTE COUNT**

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50352721001	AW-16	RSK 175 Modified	JRW	3	PASI-I
50352721002	AW-17	RSK 175 Modified	JRW	3	PASI-I
50352721003	XPW01A	RSK 175 Modified	JRW	3	PASI-I
50352721004	AW-16 DUP	RSK 175 Modified	JRW	3	PASI-I
50352721005	XPW01A DUP	RSK 175 Modified	JRW	3	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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**SUMMARY OF DETECTION**

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50352721001	AW-16					
50352721002	AW-17					
50352721003	XPW01A					
50352721004	AW-16 DUP					
50352721005	XPW01A DUP					

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### ANALYTICAL RESULTS

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

<b>Sample: AW-16</b>	<b>Lab ID: 50352721001</b>	Collected: 08/21/23 14:28	Received: 08/29/23 09:30	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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**ANALYTICAL RESULTS**

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

<b>Sample:</b> AW-17	<b>Lab ID:</b> 50352721002	Collected: 08/21/23 16:01	Received: 08/29/23 09:30	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

<b>Sample:</b> XPW01A	<b>Lab ID:</b> 50352721003	Collected: 08/21/23 15:15	Received: 08/29/23 09:30	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

<b>Sample: AW-16 DUP</b>		<b>Lab ID: 50352721004</b>	Collected: 08/21/23 14:28	Received: 08/29/23 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

<b>Sample:</b> XPW01A DUP	<b>Lab ID:</b> 50352721005	Collected: 08/21/23 15:15	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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**QUALITY CONTROL DATA**

Project: GH04366/Vistra Edwards  
Pace Project No.: 50352721

QC Batch: 750650 Analysis Method: RSK 175 Modified  
QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50352721001, 50352721002, 50352721003, 50352721004, 50352721005

METHOD BLANK: 3440264 Matrix: Water  
Associated Lab Samples: 50352721001, 50352721002, 50352721003, 50352721004, 50352721005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
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LABORATORY CONTROL SAMPLE: 3440265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
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SAMPLE DUPLICATE: 3440448

Parameter	Units	50352721003 Result	Dup Result	RPD	Max RPD	Qualifiers
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Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: GH04366/Vistra Edwards  
Pace Project No.: 50352721

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### 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.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: GH04366/Vistra Edwards  
 Pace Project No.: 50352721

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50352721001	AW-16	RSK 175 Modified	750650		
50352721002	AW-17	RSK 175 Modified	750650		
50352721003	XPW01A	RSK 175 Modified	750650		
50352721004	AW-16 DUP	RSK 175 Modified	750650		
50352721005	XPW01A DUP	RSK 175 Modified	750650		

**REPORT OF LABORATORY ANALYSIS**

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WO#: 50352721



50352721

State of Origin: IL  
Cert. Needed:  YES  NO



Owner Received Date: 8/22/2023  
Results Required By: 9/6/2023

Workorder Name: VISTRA EDWARDS

Report To: Subcontract To: Requested Analysis:

DIANE BILLINGS  
Pace Analytical - IL/MO  
2231 W. Altorfer Drive  
Peoria, IL 61615  
800-752-6651

Pace Analytical Services, LLC  
7726 Moller Road  
Indianapolis, IN 46268  
(317)228-3105

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	RSK 175	LAB USE ONLY													
1	AW-16	GRAB	8/21/2023 14:28	GH04366-01	GW	X														
2	AW-17	GRAB	8/21/2023 16:01	GH04366-02	GW	X														
3	XPW01A	GRAB	8/21/2023 15:15	GH04366-03	GW	X														
4	AW-16 DUP	GRAB	8/21/2023 14:28	GH04366-04	GW	X														
5	XPW01A DUP	GRAB	8/21/2023 15:15	GH04366-05	GW	X														
6																				
7																				
8																				
9																				
10																				
11																				
12																				

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1	<i>[Signature]</i>	8/26/23 0935	FedEx		
2	FedEx	8-29-23 0930	<i>[Signature]</i> / PACE	8-29-23 0930	
3					Include QC summary and edd

Cooler Temperature on Receipt 1.8 °C Custody Seal Y or N Received on Ice Y or N Sample Intact Y or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
This chain of custody is considered complete as is since this information is available in the owner laboratory.

F IN Q-290 REV 23 JUN 2023



**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: NMS 08-29-2023 1124

1. Courier:  FED EX  UPS  CLIENT  PACE  NOW/JETT  OTHER \_\_\_\_\_
2. Custody Seal on Cooler/Box Present:  Yes  No  
(If yes) Seals Intact:  Yes  No (leave blank if no seals were present)
3. Thermometer: **1 2 3 4 5 6 7 8 A B C D E F G H**  
1.8 / 1.8
4. Cooler Temperature(s): 1.8 / 1.8     
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material:  Bubble Wrap  Bubble Bags  
 None  Other Styrofoam
6. Ice Type:  Wet  Blue  None
7. If temp. is over 6°C or under 0°C, was the PM notified?:  Yes  No  
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			<input checked="" type="checkbox"/>
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC? Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:





# ANALYTICAL REPORT

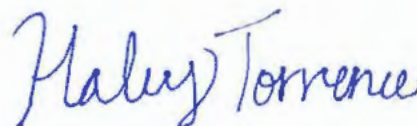
October 03, 2023

## Pace IR - Peoria, IL

Sample Delivery Group: L1653843  
Samples Received: 08/29/2023  
Project Number: GH04366  
Description: Vistra-Edwards  
Site: 001  
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc

Entire Report Reviewed By:



Haley Torrence  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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SAMPLE SUMMARY

AW-16 L1653843-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2132560	1	09/14/23 18:09	09/18/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/18/23 21:28	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

Collected by  
Collected date/time 08/21/23 14:28  
Received date/time 08/29/23 09:00

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

AW-17 L1653843-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2132560	1	09/14/23 18:09	09/18/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/18/23 21:28	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 15:33	RGT	Mt. Juliet, TN

Collected by  
Collected date/time 08/21/23 16:01  
Received date/time 08/29/23 09:00

XPW01A L1653843-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2132560	1	09/14/23 18:09	09/18/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/18/23 21:28	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 15:33	RGT	Mt. Juliet, TN

Collected by  
Collected date/time 08/21/23 15:15  
Received date/time 08/29/23 09:00

AW 16 DUP L1653843-04 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2132560	1	09/14/23 18:09	09/18/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/18/23 21:28	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 15:33	RGT	Mt. Juliet, TN

Collected by  
Collected date/time 08/21/23 14:28  
Received date/time 08/29/23 09:00

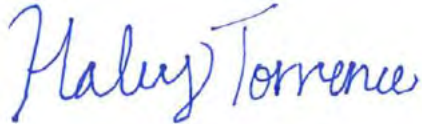
XPW01A DUP L1653843-05 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2132560	1	09/14/23 18:09	09/18/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/18/23 21:28	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 15:33	RGT	Mt. Juliet, TN

Collected by  
Collected date/time 08/21/23 15:15  
Received date/time 08/29/23 09:00

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence  
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

AW-16

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS 01  
L1653843

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.18		0.327	0.548	09/18/2023 21:28	<a href="#">WG2132560</a>
(f) Barium	107			30.0-143	09/18/2023 21:28	<a href="#">WG2132560</a>
(f) Yttrium	104			30.0-136	09/18/2023 21:28	<a href="#">WG2132560</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 G
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.95		0.602	0.616	09/18/2023 21:28	<a href="#">WG2130036</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.77		0.505	0.281	09/15/2023 19:27	<a href="#">WG2130036</a>
(f) Barium-133	91.9			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>



AW-17

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS - 02  
L1653843

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.15		0.386	0.667	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Barium	104			30.0-143	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Yttrium	101			30.0-136	09/18/2023 21:28	<a href="#">WG2132560</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.64		0.500	0.748	09/18/2023 21:28	<a href="#">WG2130036</a>

<sup>4</sup> Cn

<sup>5</sup> Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.494		0.318	0.338	09/15/2023 15:33	<a href="#">WG2130036</a>
(T) Barium-133	92.4			30.0-143	09/15/2023 15:33	<a href="#">WG2130036</a>

<sup>6</sup> Qc

<sup>7</sup> Gl

<sup>c</sup> Al

<sup>9</sup> Sc

XPW01A

APPENDIX A.

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Collected date/

EDWARDS POWER PLANT, ASH POND

L1653843

EDW-257-301

SAMPLE RESULTS 03

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.867		0.242	0.432	09/18/2023 21:28	<a href="#">WG2132560</a>
(f) Barium	111			30.0-143	09/18/2023 21:28	<a href="#">WG2132560</a>
(f) Yttrium	94.6			30.0-136	09/18/2023 21:28	<a href="#">WG2132560</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 G
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.01		0.343	0.570	09/18/2023 21:28	<a href="#">WG2130036</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.144	J	0.243	0.372	09/15/2023 15:33	<a href="#">WG2130036</a>
(f) Barium-133	79.6			30.0-143	09/15/2023 15:33	<a href="#">WG2130036</a>



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.75		0.410	0.695	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Barium	115			30.0-143	09/18/2023 21:28	<a href="#">WG2132560</a>
(T) Yttrium	91.2			30.0-136	09/18/2023 21:28	<a href="#">WG2132560</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	5.15		0.734	0.749	09/18/2023 21:28	<a href="#">WG2130036</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.41		0.609	0.279	09/15/2023 15:33	<a href="#">WG2130036</a>
(T) Barium-133	86.0			30.0-143	09/15/2023 15:33	<a href="#">WG2130036</a>

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.715		0.286	0.519	09/18/2023 21:28	<a href="#">WG2132560</a>
(f) Barium	88.9			30.0-143	09/18/2023 21:28	<a href="#">WG2132560</a>
(f) Yttrium	103			30.0-136	09/18/2023 21:28	<a href="#">WG2132560</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.731		0.361	0.657	09/18/2023 21:28	<a href="#">WG2130036</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0164	<u>U</u>	0.221	0.403	09/15/2023 15:33	<a href="#">WG2130036</a>
(f) Barium-133	91.1			30.0-143	09/15/2023 15:33	<a href="#">WG2130036</a>

6 Qc

7 G

8 Al

9 Sc

Data not pertinent to the compliance monitoring was removed.

Method Blank (MB)

(MB) R3975641-1 09/18/23 21:28

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.779		0.218	0.390
(T) Barium	79.4		79.4	
(T) Yttrium	103		103	

L1650771-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1650771-01 09/18/23 21:28 • (DUP) R3975641-5 09/18/23 21:28

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.80	0.243	0.400	1.93	0.465	0.821	1	6.65	0.236		20	3
(T) Barium	121			84.6	84.6							
(T) Yttrium	92.0			83.2	83.2							

Laboratory Control Sample (LCS)

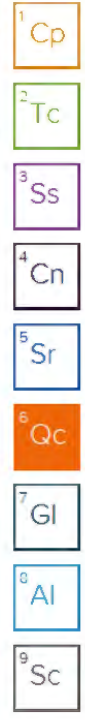
(LCS) R3975641-2 09/18/23 21:28

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.90	97.9	80.0-120	
(T) Barium			96.1		
(T) Yttrium			98.1		

L1650762-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650762-07 09/18/23 21:28 • (MS) R3975641-3 09/18/23 21:28 • (MSD) R3975641-4 09/18/23 21:28

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	-0.538	8.83	9.60	88.3	96.0	1	70.0-130			8.35		20
(T) Barium		135			126	112							
(T) Yttrium		108			87.6	95.3							



WG2130058

Radiochemist: M. H. ...  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

Data not pertinent to the compliance monitoring was removed.

# QUALITY CONTROL SUMMARY

L1653843-01,02,03,04,05

## Method Blank (MB)

(MB) R3981103-1 09/15/23 15:33

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+/-	pCi/l
Radium-226	0.00320	<u>U</u>	0.0756	0.145
(T) Barium-133	52.0		52.0	

## L1652263-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1652263-09 09/15/23 19:27 • (DUP) R3981103-5 09/15/23 15:33

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+/-	pCi/l	pCi/l	+/-	pCi/l		%			%	
Radium-226	0.228	0.212	0.264	-0.0166	0.126	0.300	1	200	0.993	<u>U</u>	20	3
(T) Barium-133	107			86.4	86.4							

## Laboratory Control Sample (LCS)

(LCS) R3981103-2 09/15/23 15:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	5.62	112	80.0-120	
(T) Barium-133			64.5		

## L1651386-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1651386-07 09/15/23 19:27 • (MS) R3981103-3 09/15/23 15:33 • (MSD) R3981103-4 09/15/23 15:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.799	21.5	17.9	104	85.4	1	75.0-125			18.4		20
(T) Barium-133		92.7			82.5	84.5							

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gf
- 8 Al
- 9 Sc



## Guide to Reading and Understanding Your Laboratory Report

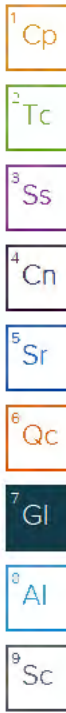
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1</sup> & <sup>6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 <sup>6</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





Internal Transfer Chain of Custody



State of Origin: IL  
Cert. Needed:  YES  NO

Owner Received Date: 8/22/2023  
Results Required By: 9/15/2023

Workorder: GH04366 Workorder Name: Vistra - Edwards

Report To:	Subcontract To:	Requested Analysis
Diane Billings Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122	

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers				Radium 226/228	LAB USE ONLY
1	AW-16	GRAB	8/21/2023 14:28	GH04366-01	GW					X	-01
2	AW-17	GRAB	8/21/2023 16:01	GH04366-02	GW					X	-02
3	XPW01A	GRAB	8/21/2023 15:15	GH04366-03	GW					X	-03
4	AW 16 DUP	GRAB	8/21/2023 14:28	GH04366-04	GW					X	-04
5	XPW01A DUP	GRAB	8/21/2023 15:15	GH04366-05	GW					X	-05
6											
7											
8											
9											
10											

L1653843

Transfers	Released By	Date/Time	Received By	Date/Time	Comments
1			Hailu Rotuber	8/29/23 0900	Needs reported as 226, 228 and also combined 226/228
2					
3					Include QC summary

Cooler Temperature on Receipt \_\_\_\_\_ °C Custody Seal Y or N Received on Ice Y or N Sample Intact Y or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist  
 COC Seal Present/Intact:  Y  N If Applicable  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 PA Screen <0.5 mR/hr:  Y  N  
 VOA Zero Headpace:  Y  N  
 Pres. Correct/Check:  Y  N

Amb

63192053786

Internal Transfer Chain of Custody \_\_\_\_\_

State of Origin: IL  
Cert. Needed:  YES  NO



Workorder: GH04366

Workorder Name: Vistra - Edwards

Owner Received

Results Required

Date: 8/22/2023

By: 9/15/2023

Report To:	Subcontract To:	Requested Analysis
Diane Billings Pace Analytical - IL/MO 2231 W. Altorfer Drive Peoria, IL 61615 800-752-6651	Pace Analytical - Mt Juliet 12065 Lebanon Rd Mt Juliet TN 37122	

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Radium 226/228	LAB USE ONLY
1	AW-16	GRAB	8/21/2023 14:28	GH04366-01	GW		X	-01
2	AW-17	GRAB	8/21/2023 16:01	GH04366-02	GW		X	-02
3	XPW01A	GRAB	8/21/2023 15:15	GH04366-03	GW		X	-03
4	AW 16 DUP	GRAB	8/21/2023 14:28	GH04366-04	GW		X	-04
5	XPW01A DUP	GRAB	8/21/2023 15:15	GH04366-05	GW		X	-05
6								
7								
8								
9								
10								

L11653543  
LAB USE ONLY

Transfers/Release	Date/Time	Received By	Date/Time	Comments
1	8/20/23	Haidin Robinson	8/29/23 09:00	Needs reported as 226, 228 and also combined 226/228
2				
3	8/26/23 09:00			Include QC summary

Cooler Temperature on Receipt \_\_\_\_\_ °C    Custody Seal  Y or  N    Received on Ice  Y or  N    Sample Intact  Y or  N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist  
 COC Seal Present Intact:  Y /  N  
 COC Signed Accurately:  Y /  N  
 Bottle/Label Intact:  Y /  N  
 Correct Bottle Used:  Y /  N  
 Sufficient Volume Sent:  Y /  N  
 QA Screened:  Y /  N  
 If Applicable  
 MCA Zero Headspace:  Y /  N  
 Equip. Correct Checks:  Y /  N  
 Amb

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L1653843



Ship to :  
 Pace Analytical - Mt Juliet  
 12065 Lebanon Rd  
 Mt Juliet TN 37122

INTER\_LABORATORY WORK ORDER # GH04366

(To be complete by sending lab)

Sending Project No:	GH04366
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	8/31/2023
REQUESTED COMPLETION DATE:	9/15/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Diane Billings
Receiving Region	MT Juliet	External Client	Vistra-Edwards
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units \_\_\_\_\_ Report Wet or Dry Weight? \_\_\_\_\_ Cert Needed: IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		5		5	\$242.10	\$1,210.50
					\$0.00	\$0.00
					\$0.00	\$0.00
<b>TOTAL</b>						<b>\$1,210.50</b>

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$1,210.50	\$968.40	\$242.10
* Custom Revenue Allocation		<b>TOTAL</b>	<b>\$968.40</b>	<b>\$242.10</b>

**FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO**

Return Samples to Sending Region:  Yes  No

**CONFIRMATION OF WORK COMPLETED**

Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

Original sent to the receiving lab - Copy kept at the sending lab.

When work completed, Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.





September 11, 2023

Gail Shindler  
Pace Peoria  
2231 W Altorfer Dr  
Peoria, IL 61615

RE: Project: GH04572/VISTRA EDWARDS  
Pace Project No.: 50352712

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 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 - Indianapolis

Revised report replaces report dated 08/31/23. Revised to change client sample ID for sample -008 per client request.  
091123hmp

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

Sincerely,

Heather Patterson  
heather.patterson@pacelabs.com  
(317)228-3146  
Project Manager

Enclosures

cc: Diane Billings, Pace IL/MO  
Janet Clutters, Pace Analytical Peoria  
Taylor Cordle, Pace Analytical Peoria  
Jon Robert Handshy, Pace Hazelwood  
Amy Holmes, Pace Hazelwood  
Chenise Lambert-Sykes, Pace Analytical Peoria  
Erin Lane, Pace Peoria  
Jennifer Solomon, Pace Analytical Peoria



**REPORT OF LABORATORY ANALYSIS**

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### CERTIFICATIONS

Project: GH04572/VISTRA EDWARDS  
Pace Project No.: 50352712

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**Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
Wisconsin Laboratory #: 999788130  
USDA Foreign Soil Permit #: 525-23-13-23119  
USDA Compliance Agreement #: IN-SL-22-001

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**SAMPLE SUMMARY**

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50352712001	AW-01	Water	08/22/23 14:28	08/29/23 09:30
50352712002	AW-18	Water	08/22/23 11:11	08/29/23 09:30
50352712003	AW-19	Water	08/22/23 12:57	08/29/23 09:30
50352712005	AW-21	Water	08/22/23 16:04	08/29/23 09:30
50352712006	XPW02	Water	08/22/23 15:57	08/29/23 09:30
50352712007	FIELD BLANK	Water	08/22/23 11:11	08/29/23 09:30
50352712008	AW-01 DUP	Water	08/22/23 14:28	08/29/23 09:30

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**SAMPLE ANALYTE COUNT**

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50352712001	AW-01	RSK 175 Modified	JRW	3	PASI-I
50352712002	AW-18	RSK 175 Modified	JRW	3	PASI-I
50352712003	AW-19	RSK 175 Modified	JRW	3	PASI-I
50352712005	AW-21	RSK 175 Modified	JRW	3	PASI-I
50352712006	XPW02	RSK 175 Modified	JRW	3	PASI-I
50352712007	FIELD BLANK	RSK 175 Modified	JRW	3	PASI-I
50352712008	AW-01 DUP	RSK 175 Modified	JRW	3	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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**SUMMARY OF DETECTION**

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50352712001	AW-01					
50352712002	AW-18					
50352712003	AW-19					
50352712006	XPW02					
50352712008	AW-01 DUP					

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS**

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample: AW-01</b>	<b>Lab ID: 50352712001</b>	Collected: 08/22/23 14:28	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

**REPORT OF LABORATORY ANALYSIS**

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**ANALYTICAL RESULTS**

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample: AW-18</b>	<b>Lab ID: 50352712002</b>	Collected: 08/22/23 11:11	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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**ANALYTICAL RESULTS**

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample:</b> AW-19	<b>Lab ID:</b> 50352712003	Collected: 08/22/23 12:57	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04572/MISTRA EDWARDS  
 Pace Project No.: 50352712

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>RSK 175 Headspace</b>	Analytical Method: RSK 175 Modified Pace Analytical Services - Indianapolis							

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample: AW-21</b>		<b>Lab ID: 50352712005</b>	Collected: 08/22/23 16:04	Received: 08/29/23 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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**ANALYTICAL RESULTS**

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample: XPW02</b>	<b>Lab ID: 50352712006</b>	Collected: 08/22/23 15:57	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample: FIELD BLANK</b>		<b>Lab ID: 50352712007</b>	Collected: 08/22/23 11:11	Received: 08/29/23 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

<b>Sample: AW-01 DUP</b>		<b>Lab ID: 50352712008</b>	Collected: 08/22/23 14:28	Received: 08/29/23 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: GH04572/MISTRA EDWARDS  
Pace Project No.: 50352712

QC Batch: 750650 Analysis Method: RSK 175 Modified  
QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50352712001, 50352712002, 50352712003, 50352712004, 50352712005, 50352712006, 50352712007, 50352712008

METHOD BLANK: 3440264 Matrix: Water  
Associated Lab Samples: 50352712001, 50352712002, 50352712003, 50352712004, 50352712005, 50352712006, 50352712007, 50352712008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
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LABORATORY CONTROL SAMPLE: 3440265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
-----------	-------	-------------	------------	-----------	--------------	------------

SAMPLE DUPLICATE: 3440448

Parameter	Units	50352721003 Result	Dup Result	RPD	Max RPD	Qualifiers
-----------	-------	--------------------	------------	-----	---------	------------

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

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## QUALIFIERS

Project: GH04572/VISTRA EDWARDS  
Pace Project No.: 50352712

---

### 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.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

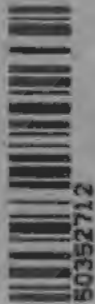
Project: GH04572/VISTRA EDWARDS  
 Pace Project No.: 50352712

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50352712001	AW-01	RSK 175 Modified	750650		
50352712002	AW-18	RSK 175 Modified	750650		
50352712003	AW-19	RSK 175 Modified	750650		
50352712005	AW-21	RSK 175 Modified	750650		
50352712006	XPW02	RSK 175 Modified	750650		
50352712007	FIELD BLANK	RSK 175 Modified	750650		
50352712008	AW-01 DUP	RSK 175 Modified	750650		

**REPORT OF LABORATORY ANALYSIS**

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W0#: 50352712



State of Origin: IL  YES  NO  
Cert. Needed:  YES  NO

Owner Received Date: 8/23/2023 By: 9/7/2023  
Requested Analysis

Workorder: GH04572 Workorder Name: VISTRA EDWARDS

Report To: Subcontract To:

DIANE BILLINGS  
Pace Analytical - IL/MO  
2231 W. Altoner Drive  
Peoria, IL 61615  
800-752-6651

Pace Analytical Services, LLC  
7726 Moller Road  
Indianapolis, IN 46268  
(317)228-3105

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	Date/Time	Received By	Date/Time	Comments
1	AW-01	GRAB	8/22/2023 14:28	GH04572-01	GW					
2	AW-18	GRAB	8/22/2023 11:11	GH04572-02	GW					
3	AW-19	GRAB	8/22/2023 12:57	GH04572-03	GW					
4	AW-20	GRAB	8/22/2023 14:34	GH04572-04	GW					
6	XPW02	GRAB	8/22/2023 15:57	GH04572-06	GW					
7	FIELD BLANK	GRAB	8/22/2023 11:11	GH04572-07	GW					
8	AP-01-DUP 45 9-8-23	GRAB	8/22/2023 14:28	GH04572-08	GW					
9										
10										
11										
12										
Transfers Released By: <i>[Signature]</i> Date/Time: 8/26/23 09:35										
1								FedEx		
2								Michelle Smith / PACE	8-29-23 09:30	
3										Include QC summary and add

Transfers Released By: *[Signature]* Date/Time: 8/26/23 09:35  
 Received By: Michelle Smith / PACE Date/Time: 8-29-23 09:30  
 Cooler Temperature on Receipt: 1.8 °C Custody Seal:  Y or N Received on Ice:  Y or N Sample Intact:  Y or N  
 \*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.  
 This chain of custody is considered complete as is since this information is available in the owner laboratory.





**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: NMS 08-29-2013 1124

1. Courier:  FED EX  UPS  CLIENT  PACE  NOW/JETT  OTHER \_\_\_\_\_

2. Custody Seal on Cooler/Box Present:  Yes  No

(If yes) Seals Intact:  Yes  No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H

4. Cooler Temperature(s): 1.8 / 1.8     
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material:  Bubble Wrap  Bubble Bags  
 None  Other Styrofoam

6. Ice Type:  Wet  Blue  None

7. If temp. is over 6°C or under 0°C, was the PM notified?:  Yes  No  
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED? Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			<input checked="" type="checkbox"/>
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			<input checked="" type="checkbox"/>
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
			Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Containter Count form for details	Present <input checked="" type="checkbox"/>	Absent	No VOA Vials Sent
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?			<input checked="" type="checkbox"/>

COMMENTS:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# ANALYTICAL REPORT

September 13, 2023

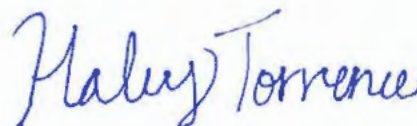
## Pace IR - Peoria, IL

Sample Delivery Group: L1650654  
Samples Received: 08/29/2023  
Project Number: GH04572  
Description: VISTRA EDWARDS

Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc

Entire Report Reviewed By:



Haley Torrence  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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SAMPLE SUMMARY

AW-01 L1650654-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 18:01	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 18:01	RGT	Mt. Juliet, TN

Collected by  
Collected date/time 08/22/23 14:28  
Received date/time 08/29/23 09:00

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

AW-18 L1650654-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 18:01	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 18:01	RGT	Mt. Juliet, TN

Collected by  
Collected date/time 08/22/23 11:11  
Received date/time 08/29/23 09:00

AW-19 L1650654-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 18:01	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 18:01	RGT	Mt. Juliet, TN

Collected by  
Collected date/time 08/22/23 12:57  
Received date/time 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
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AW-21 L1650654-05 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/09/23 00:14	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/09/23 00:14	RGT	Mt. Juliet, TN

Collected by  
Collected date/time 08/22/23 16:04  
Received date/time 08/29/23 09:00

XPW02 L1650654-06 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/09/23 00:14	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/09/23 00:14	RGT	Mt. Juliet, TN

Collected by  
Collected date/time 08/22/23 15:57  
Received date/time 08/29/23 09:00

SAMPLE SUMMARY

FIELD BLANK L1650654-07 Non-Potable Water

Collected by  
 Collected date/time 08/22/23 11:11  
 Received date/time 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

AW-01 DUP L1650654-08 Non-Potable Water

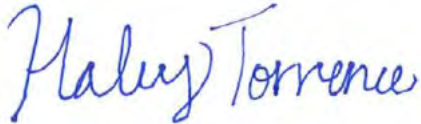
Collected by  
 Collected date/time 08/22/23 14:28  
 Received date/time 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Gl
- <sup>8</sup>Al
- <sup>9</sup>Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence  
Project Manager

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc



AW-01

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS 01  
L1650654

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.980		0.284	0.474	09/06/2023 20:57	<a href="#">WG2125239</a>
(f) Barium	108			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(f) Yttrium	108			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.13		0.341	0.545	09/08/2023 18:01	<a href="#">WG2123822</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.147	J	0.189	0.269	09/08/2023 18:01	<a href="#">WG2123822</a>
(f) Barium-133	101			30.0-143	09/08/2023 18:01	<a href="#">WG2123822</a>

6 Qc

7 G

8 Al

9 Sc

AW-18

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS 02  
L1650654

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	3.12		0.332	0.482	09/06/2023 20:57	<a href="#">WG2125239</a>
(f) Barium	111			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(f) Yttrium	100			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 G
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	6.06		0.747	0.545	09/08/2023 18:01	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.94		0.669	0.255	09/08/2023 18:01	<a href="#">WG2123822</a>
(f) Barium-133	115			30.0-143	09/08/2023 18:01	<a href="#">WG2123822</a>



AW-19

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS 03

L1650654

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.801		0.247	0.412	09/06/2023 20:57	<a href="#">WG2125239</a>
(f) Barium	103			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(f) Yttrium	102			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 G
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.75		0.486	0.553	09/08/2023 18:01	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.952		0.419	0.369	09/08/2023 18:01	<a href="#">WG2123822</a>
(f) Barium-133	103			30.0-143	09/08/2023 18:01	<a href="#">WG2123822</a>

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

AW-21

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS - 05  
L1650654

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.796		0.234	0.388	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	92.3			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	105			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.936		0.280	0.438	09/09/2023 00:14	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.140	J	0.154	0.203	09/09/2023 00:14	<a href="#">WG2123822</a>
(T) Barium-133	98.5			30.0-143	09/09/2023 00:14	<a href="#">WG2123822</a>

XPW02

APPENDIX A.

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Collected date/

EDWARDS POWER PLANT, ASH POND

L1650654

EDW-257-301

SAMPLE RESULTS 06

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.12		0.207	0.326	09/06/2023 20:57	<a href="#">WG2125239</a>
(f) Barium	110			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(f) Yttrium	107			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 G
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.12		0.242	0.416	09/09/2023 00:14	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.000	<u>U</u>	0.125	0.259	09/09/2023 00:14	<a href="#">WG2123822</a>
(f) Barium-133	103			30.0-143	09/09/2023 00:14	<a href="#">WG2123822</a>

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.746		0.308	0.522	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	115			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	98.3			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.48		0.509	0.642	09/08/2023 23:19	<a href="#">WG2123822</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.739		0.405	0.374	09/08/2023 23:19	<a href="#">WG2123822</a>
(T) Barium-133	83.1			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>

6 Qc

7 G

8 Al

9 Sc



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.221	J	0.251	0.439	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	102			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	94.0			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.558		0.371	0.543	09/08/2023 23:19	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.338		0.273	0.320	09/08/2023 23:19	<a href="#">WG2123822</a>
(T) Barium-133	99.4			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>



Data not pertinent to the compliance monitoring was removed.

Method Blank (MB)

(MB) R3972128-1 09/06/23 20:57

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.235	J	0.179	0.311
(T) Barium	116		116	
(T) Yttrium	103		103	

L1650713-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1650713-07 09/06/23 20:57 • (DUP) R3972128-5 09/06/23 20:57

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.103	0.419	0.735	1.28	0.335	0.735	1	170	2.19		20	3
(T) Barium	110			109	109							
(T) Yttrium	89.6			109	109							

Laboratory Control Sample (LCS)

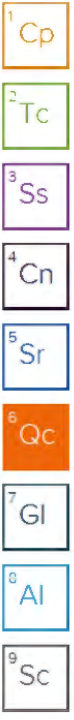
(LCS) R3972128-2 09/06/23 20:57

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.94	98.8	80.0-120	
(T) Barium			121		
(T) Yttrium			102		

L1650654-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650654-07 09/06/23 20:57 • (MS) R3972128-3 09/06/23 20:57 • (MSD) R3972128-4 09/06/23 20:57

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.746	17.3	16.1	99.4	91.7	1	70.0-130			7.66		20
(T) Barium		115			115	111							
(T) Yttrium		98.3			107	99.9							



Method Blank (MB)

(MB) R3971134-4 09/09/23 00:14

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+/-	pCi/l
Radium-226	0.0117	<u>U</u>	0.0229	0.0411
(T) Barium-133	60.1		60.1	

L1650654-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1650654-01 09/08/23 18:01 • (DUP) R3971134-3 09/08/23 18:01

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+/-	pCi/l	pCi/l	+/-	pCi/l		%			%	
Radium-226	0.147	0.189	0.269	-0.0296	0.156	0.269	1	200	0.722	<u>U</u>	20	3
(T) Barium-133	101			77.2	77.2							

Laboratory Control Sample (LCS)

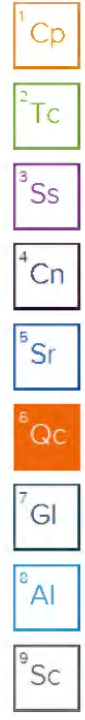
(LCS) R3971134-5 09/09/23 14:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	4.02	80.2	80.0-120	
(T) Barium-133			76.9		

L1650713-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650713-05 09/08/23 23:19 • (MS) R3971134-1 09/08/23 18:01 • (MSD) R3971134-2 09/08/23 18:01

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.280	18.0	19.4	88.8	95.7	1	75.0-125			7.42		20
(T) Barium-133		73.3			79.8	77.1							





## Guide to Reading and Understanding Your Laboratory Report

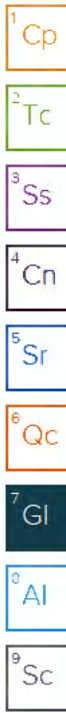
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

### Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1</sup> & <sup>6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 <sup>6</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

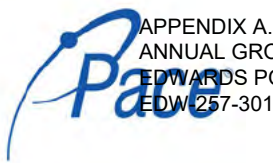
\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.









August 31, 2023

Gail Shindler  
Pace Peoria  
2231 W Altorfer Dr  
Peoria, IL 61615

RE: Project: GH04878/VISTRA EDWARDS  
Pace Project No.: 50352715

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on August 29, 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 - Indianapolis

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

Sincerely,

Heather Patterson  
heather.patterson@pacelabs.com  
(317)228-3146  
Project Manager

Enclosures

cc: Diane Billings, Pace IL/MO  
Janet Clutters, Pace Analytical Peoria  
Taylor Cordle, Pace Analytical Peoria  
Jon Robert Handshy, Pace Hazelwood  
Amy Holmes, Pace Hazelwood  
Chenise Lambert-Sykes, Pace Analytical Peoria  
Erin Lane, Pace Peoria  
Jennifer Solomon, Pace Analytical Peoria



**REPORT OF LABORATORY ANALYSIS**

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### CERTIFICATIONS

Project: GH04878/MISTRA EDWARDS  
Pace Project No.: 50352715

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**Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
Wisconsin Laboratory #: 999788130  
USDA Foreign Soil Permit #: 525-23-13-23119  
USDA Compliance Agreement #: IN-SL-22-001

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**SAMPLE SUMMARY**

Project: GH04878/VISTRA EDWARDS  
 Pace Project No.: 50352715

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50352715001	AP05S	Water	08/23/23 13:04	08/29/23 09:30
50352715003	AW-14	Water	08/23/23 15:53	08/29/23 09:30
50352715004	AW-15	Water	08/23/23 12:55	08/29/23 09:30
50352715005	AW-15S	Water	08/23/23 14:25	08/29/23 09:30
50352715007	EB 01	Water	08/23/23 16:00	08/29/23 09:30

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**SAMPLE ANALYTE COUNT**

Project: GH04878/VISTRA EDWARDS  
 Pace Project No.: 50352715

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50352715001	AP05S	RSK 175 Modified	JRW	3	PASI-I
50352715003	AW-14	RSK 175 Modified	JRW	3	PASI-I
50352715004	AW-15	RSK 175 Modified	JRW	3	PASI-I
50352715005	AW-15S	RSK 175 Modified	JRW	3	PASI-I
50352715007	EB 01	RSK 175 Modified	JRW	3	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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**SUMMARY OF DETECTION**

Project: GH04878/VISTRA EDWARDS  
 Pace Project No.: 50352715

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50352715001	AP05S					
50352715003	AW-14					
50352715004	AW-15					
50352715005	AW-15S					
50352715007	EB 01					

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### ANALYTICAL RESULTS

Project: GH04878/VISTRA EDWARDS  
 Pace Project No.: 50352715

<b>Sample: AP05S</b>	<b>Lab ID: 50352715001</b>	Collected: 08/23/23 13:04	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>RSK 175 Headspace</b>	Analytical Method: RSK 175 Modified Pace Analytical Services - Indianapolis							

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### ANALYTICAL RESULTS

Project: GH04878/VISTRA EDWARDS  
 Pace Project No.: 50352715

<b>Sample: AW-14</b>	<b>Lab ID: 50352715003</b>	Collected: 08/23/23 15:53	Received: 08/29/23 09:30	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04878/VISTRA EDWARDS  
 Pace Project No.: 50352715

<b>Sample:</b> AW-15	<b>Lab ID:</b> 50352715004	Collected: 08/23/23 12:55	Received: 08/29/23 09:30	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04878/VISTRA EDWARDS  
 Pace Project No.: 50352715

<b>Sample: AW-15S</b>		<b>Lab ID: 50352715005</b>	Collected: 08/23/23 14:25	Received: 08/29/23 09:30	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH04878/MISTRA EDWARDS  
 Pace Project No.: 50352715

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>RSK 175 Headspace</b>	Analytical Method: RSK 175 Modified Pace Analytical Services - Indianapolis							

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### ANALYTICAL RESULTS

Project: GH04878/VISTRA EDWARDS  
 Pace Project No.: 50352715

<b>Sample: EB 01</b>	<b>Lab ID: 50352715007</b>	Collected: 08/23/23 16:00	Received: 08/29/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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**QUALITY CONTROL DATA**

Project: GH04878/MISTRA EDWARDS  
Pace Project No.: 50352715

QC Batch: 750650 Analysis Method: RSK 175 Modified  
QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50352715001, 50352715002, 50352715003, 50352715004, 50352715005, 50352715006, 50352715007

METHOD BLANK: 3440264 Matrix: Water  
Associated Lab Samples: 50352715001, 50352715002, 50352715003, 50352715004, 50352715005, 50352715006, 50352715007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
-----------	-------	--------------	-----------------	----------	------------

LABORATORY CONTROL SAMPLE: 3440265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
-----------	-------	-------------	------------	-----------	--------------	------------

SAMPLE DUPLICATE: 3440448

Parameter	Units	50352721003 Result	Dup Result	RPD	Max RPD	Qualifiers
-----------	-------	--------------------	------------	-----	---------	------------

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

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## QUALIFIERS

Project: GH04878/MISTRA EDWARDS  
Pace Project No.: 50352715

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### 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.  
Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: GH04878/VISTRA EDWARDS  
 Pace Project No.: 50352715

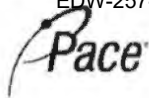
Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50352715001	AP05S	RSK 175 Modified	750650		
50352715003	AW-14	RSK 175 Modified	750650		
50352715004	AW-15	RSK 175 Modified	750650		
50352715005	AW-15S	RSK 175 Modified	750650		
50352715007	EB 01	RSK 175 Modified	750650		

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**SAMPLE CONDITION UPON RECEIPT FORM**

Date/Time and Initials of person examining contents: NMS 08-29-2013 1124

1. Courier:  FED EX  UPS  CLIENT  PACE  NOW/JETT  OTHER \_\_\_\_\_
2. Custody Seal on Cooler/Box Present:  Yes  No  
(If yes) Seals Intact:  Yes  No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H
4. Cooler Temperature(s): 1.8 / 1.8     
(Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material:  Bubble Wrap  Bubble Bags  
 None  Other Styrofoam
6. Ice Type:  Wet  Blue  None
7. If temp. is over 6°C or under 0°C, was the PM notified?:  Yes  No  
Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			<input checked="" type="checkbox"/>
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:		Residual Chlorine Check (SVOC 625 Pest/PCB 608)	<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	<input checked="" type="checkbox"/>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Trip Blank Present?		<input checked="" type="checkbox"/>	
Extra labels on Terracore Vials? (soils only)		<input checked="" type="checkbox"/>	Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

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# ANALYTICAL REPORT

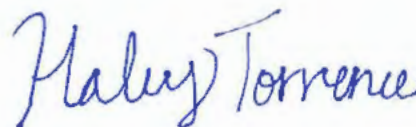
September 13, 2023

## Pace IR - Peoria, IL

Sample Delivery Group:	L1650713
Samples Received:	08/29/2023
Project Number:	GH04878
Description:	Vistra Edwards
Site:	01
Report To:	Diane Billings 2231 W. Altorfer Drive Peoria, IL 61615

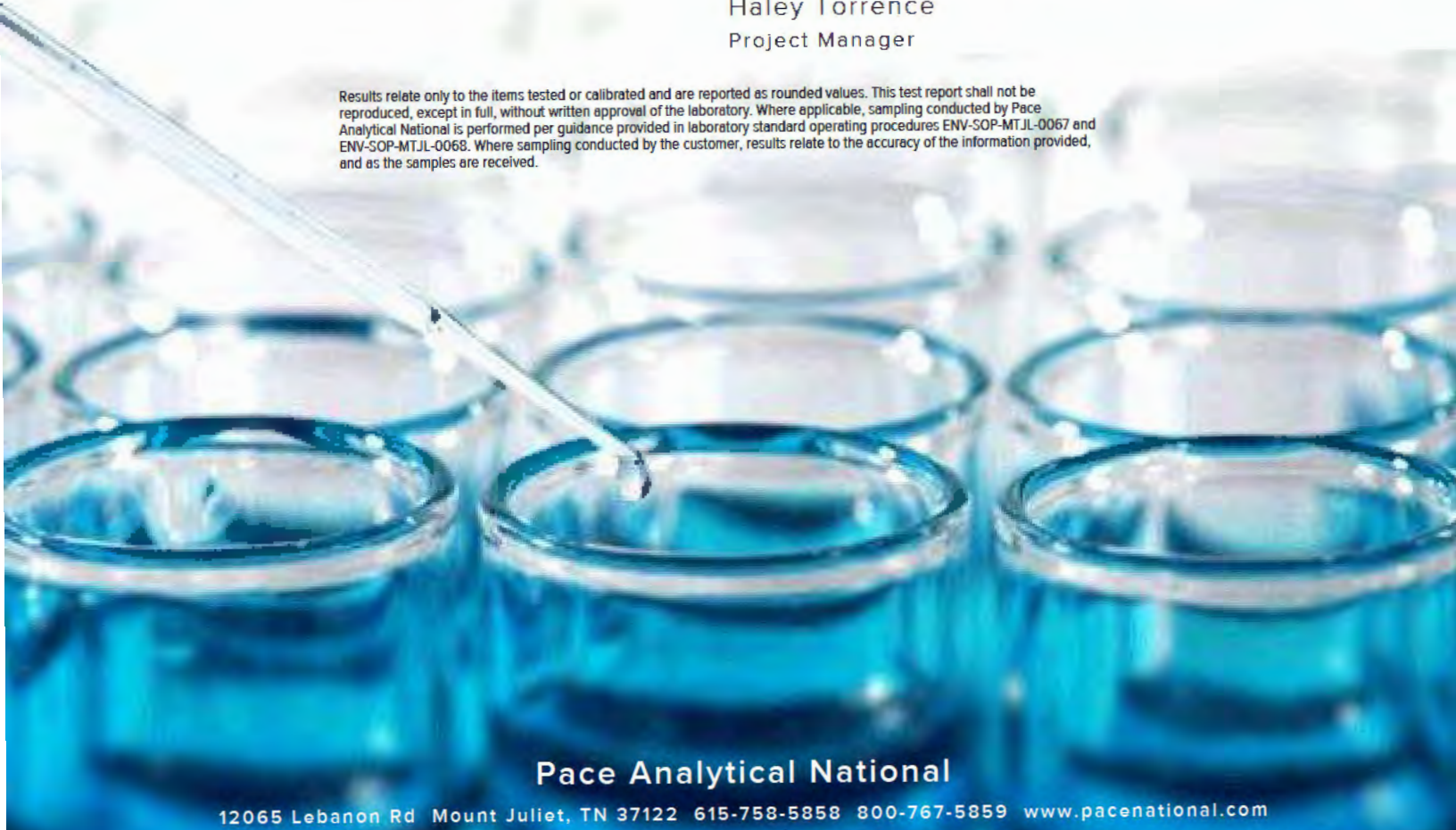
- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc

Entire Report Reviewed By:



Haley Torrence  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)



TABLE OF CONTENTS

**Cp: Cover Page**

**Tc: Table of Contents**

**Ss: Sample Summary**

**Cn: Case Narrative**

**Sr: Sample Results**

AP05S L1650713-01

AW-14 L1650713-03

AW-15 L1650713-04

AW-15S L1650713-05

EB01 L1650713-07

**Qc: Quality Control Summary**

Radiochemistry by Method 904/9320

Radiochemistry by Method SM7500Ra B M

**Gl: Glossary of Terms**

**Al: Accreditations & Locations**

**Sc: Sample Chain of Custody**

1  
2  
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17

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

SAMPLE SUMMARY

AP05S L1650713-01 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/23/23 13:04 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

AW-14 L1650713-03 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/23/23 15:53 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

AW-15 L1650713-04 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/23/23 12:55 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

AW-15S L1650713-05 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/23/23 14:25 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
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SAMPLE SUMMARY

EB01 L1650713-07 Non-Potable Water

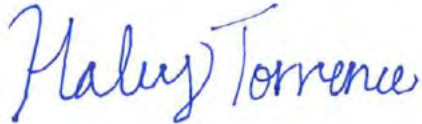
Collected by  
 Collected date/time 08/23/23 16:00  
 Received date/time 08/29/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2125239	1	09/01/23 13:21	09/06/23 20:57	ALG	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2123822	1	09/01/23 16:58	09/08/23 23:19	ALG	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2123822	1	09/01/23 16:58	09/08/23 23:19	RGT	Mt. Juliet, TN

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Gl
- <sup>8</sup>Al
- <sup>9</sup>Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



AP05S

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS\_01  
L1650713

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.519	J	0.320	0.552	09/06/2023 20:57	WG2125239
(T) Barium	108			30.0-143	09/06/2023 20:57	WG2125239
(T) Yttrium	96.5			30.0-136	09/06/2023 20:57	WG2125239

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.40		0.519	0.661	09/08/2023 23:19	WG2123822

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.879		0.408	0.364	09/08/2023 23:19	WG2123822
(T) Barium-133	98.4			30.0-143	09/08/2023 23:19	WG2123822

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc



AW-14

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS - 03  
L1650713

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.99		0.446	0.704	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	103			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	91.6			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.53		0.563	0.791	09/08/2023 23:19	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.547		0.343	0.361	09/08/2023 23:19	<a href="#">WG2123822</a>
(T) Barium-133	109			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>

AW-15

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS 04  
L1650713

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	3.91		0.380	0.554	09/06/2023 20:57	<a href="#">WG2125239</a>
(f) Barium	114			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(f) Yttrium	109			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 G
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	6.12		0.697	0.620	09/08/2023 23:19	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	2.21		0.584	0.279	09/08/2023 23:19	<a href="#">WG2123822</a>
(f) Barium-133	103			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>

AW-155

APPENDIX A.

ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Collected date/

EDWARDS POWER PLANT, ASH POND

EDW-257-301

SAMPLE RESULTS 05

L1650713

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.737		0.261	0.439	09/06/2023 20:57	<a href="#">WG2125239</a>
(f) Barium	101			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(f) Yttrium	104			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.02		0.396	0.589	09/08/2023 23:19	<a href="#">WG2123822</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.280	J	0.298	0.392	09/08/2023 23:19	<a href="#">WG2123822</a>
(f) Barium-133	73.3			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>

6 Qc

7 G

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

EB01

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS 07  
L1650713

Collected date: 08/13/23 06:09

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.103	<u>U</u>	0.419	0.735	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Barium	110			30.0-143	09/06/2023 20:57	<a href="#">WG2125239</a>
(T) Yttrium	89.6			30.0-136	09/06/2023 20:57	<a href="#">WG2125239</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.103	<u>U</u>	0.433	0.781	09/08/2023 23:19	<a href="#">WG2123822</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.000	<u>U</u>	0.111	0.265	09/08/2023 23:19	<a href="#">WG2123822</a>
(T) Barium-133	96.3			30.0-143	09/08/2023 23:19	<a href="#">WG2123822</a>



Method Blank (MB)  
EDW-257-301

(MB) R3972128-1 09/06/23 20:57

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.235	J	0.179	0.311
(T) Barium	116		116	
(T) Yttrium	103		103	

L1650713-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1650713-07 09/06/23 20:57 • (DUP) R3972128-5 09/06/23 20:57

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.103	0.419	0.735	1.28	0.335	0.735	1	170	2.19		20	3
(T) Barium	110			109	109							
(T) Yttrium	89.6			109	109							

Laboratory Control Sample (LCS)

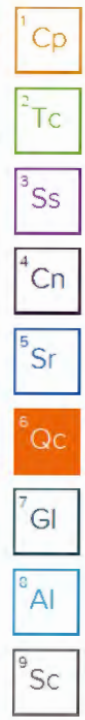
(LCS) R3972128-2 09/06/23 20:57

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.94	98.8	80.0-120	
(T) Barium			121		
(T) Yttrium			102		

L1650654-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650654-07 09/06/23 20:57 • (MS) R3972128-3 09/06/23 20:57 • (MSD) R3972128-4 09/06/23 20:57

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.746	17.3	16.1	99.4	91.7	1	70.0-130			7.66		20
(T) Barium		115			115	111							
(T) Yttrium		98.3			107	99.9							





Method Blank (MB)

(MB) R3971134-4 09/09/23 00:14

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-226	0.0117	<u>U</u>	0.0229	0.0411
(T) Barium-133	60.1		60.1	

L1650654-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1650654-01 09/08/23 18:01 • (DUP) R3971134-3 09/08/23 18:01

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.147	0.189	0.269	-0.0296	0.156	0.269	1	200	0.722	<u>U</u>	20	3
(T) Barium-133	101			77.2	77.2							

Laboratory Control Sample (LCS)

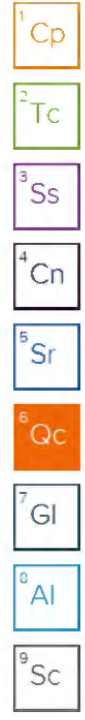
(LCS) R3971134-5 09/09/23 14:33

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	4.02	80.2	80.0-120	
(T) Barium-133			76.9		

L1650713-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650713-05 09/08/23 23:19 • (MS) R3971134-1 09/08/23 18:01 • (MSD) R3971134-2 09/08/23 18:01

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.280	18.0	19.4	88.8	95.7	1	75.0-125			7.42		20
(T) Barium-133		73.3			79.8	77.1							



Guide to Reading and Understanding Your Laboratory Report

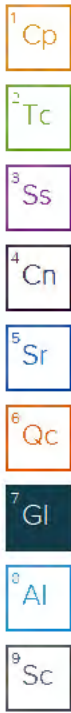
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.





Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1</sup> & <sup>6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 <sup>6</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.







September 11, 2023

Gail Shindler  
Pace Peoria  
2231 W Altorfer Dr  
Peoria, IL 61615

RE: Project: GH05497/Vistra - Edwards  
Pace Project No.: 50353062

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on September 01, 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 - Indianapolis

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

Sincerely,

Heather Patterson  
heather.patterson@pacelabs.com  
(317)228-3146  
Project Manager

Enclosures

cc: Diane Billings, Pace IL/MO  
Janet Clutters, Pace Analytical Peoria  
Taylor Cordle, Pace Analytical Peoria  
Jon Robert Handshy, Pace Hazelwood  
Amy Holmes, Pace Hazelwood  
Chenise Lambert-Sykes, Pace Analytical Peoria  
Erin Lane, Pace Peoria  
Jennifer Solomon, Pace Analytical Peoria



**REPORT OF LABORATORY ANALYSIS**

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### CERTIFICATIONS

Project: GH05497/Vistra - Edwards  
Pace Project No.: 50353062

---

**Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
Wisconsin Laboratory #: 999788130  
USDA Foreign Soil Permit #: 525-23-13-23119  
USDA Compliance Agreement #: IN-SL-22-001

---

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: GH05497/Vistra - Edwards  
Pace Project No.: 50353062

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50353062001	AP07S	Water	08/28/23 10:47	09/01/23 09:30
50353062002	AW-05	Water	08/28/23 14:49	09/01/23 09:30
50353062003	AW-06	Water	08/28/23 16:10	09/01/23 09:30
50353062004	AW-08	Water	08/28/23 14:40	09/01/23 09:30
50353062005	AW-10	Water	08/28/23 13:04	09/01/23 09:30
50353062006	AW-11	Water	08/28/23 11:10	09/01/23 09:30
50353062008	XPW03	Water	08/28/23 16:16	09/01/23 09:30
50353062009	EB 02	Water	08/28/23 16:25	09/01/23 09:30

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**SAMPLE ANALYTE COUNT**

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50353062001	AP07S	RSK 175 Modified	TAY	3	PASI-I
50353062002	AW-05	RSK 175 Modified	TAY	3	PASI-I
50353062003	AW-06	RSK 175 Modified	TAY	3	PASI-I
50353062004	AW-08	RSK 175 Modified	TAY	3	PASI-I
50353062005	AW-10	RSK 175 Modified	TAY	3	PASI-I
50353062006	AW-11	RSK 175 Modified	TAY	3	PASI-I
50353062008	XPW03	RSK 175 Modified	TAY	3	PASI-I
50353062009	EB 02	RSK 175 Modified	TAY	3	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

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**SUMMARY OF DETECTION**

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
50353062004	AW-08					
50353062005	AW-10					
50353062006	AW-11					
50353062008	XPW03					

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample: AP07S</b>	<b>Lab ID: 50353062001</b>	Collected: 08/28/23 10:47	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample: AW-05</b>	<b>Lab ID: 50353062002</b>	Collected: 08/28/23 14:49	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample: AW-06</b>	<b>Lab ID: 50353062003</b>	Collected: 08/28/23 16:10	Received: 09/01/23 09:30	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample: AW-08</b>	<b>Lab ID: 50353062004</b>	Collected: 08/28/23 14:40	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample:</b> AW-10	<b>Lab ID:</b> 50353062005	Collected: 08/28/23 13:04	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample:</b> AW-11	<b>Lab ID:</b> 50353062006	Collected: 08/28/23 11:10	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace** Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

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### ANALYTICAL RESULTS

Project: GH05497/Mistra - Edwards  
 Pace Project No.: 50353062

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>RSK 175 Headspace</b>	Analytical Method: RSK 175 Modified Pace Analytical Services - Indianapolis							

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample:</b> XPW03	<b>Lab ID:</b> 50353062008	Collected: 08/28/23 16:16	Received: 09/01/23 09:30	Matrix: Water					
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual	

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

<b>Sample: EB 02</b>	<b>Lab ID: 50353062009</b>	Collected: 08/28/23 16:25	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: GH05497/Vistra - Edwards  
Pace Project No.: 50353062

QC Batch: 751446 Analysis Method: RSK 175 Modified  
QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50353062001, 50353062002, 50353062003, 50353062007, 50353062009

METHOD BLANK: 3443675 Matrix: Water  
Associated Lab Samples: 50353062001, 50353062002, 50353062003, 50353062007, 50353062009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
-----------	-------	--------------	-----------------	----------	------------

LABORATORY CONTROL SAMPLE: 3443676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
-----------	-------	-------------	------------	-----------	--------------	------------

SAMPLE DUPLICATE: 3443677

Parameter	Units	50353062001 Result	Dup Result	RPD	Max RPD	Qualifiers
-----------	-------	--------------------	------------	-----	---------	------------

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

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**QUALITY CONTROL DATA**

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

QC Batch: 751593 Analysis Method: RSK 175 Modified  
 QC Batch Method: RSK 175 Modified Analysis Description: RSK 175 HEADSPACE  
 Laboratory: Pace Analytical Services - Indianapolis  
 Associated Lab Samples: 50353062004, 50353062005, 50353062006, 50353062008

METHOD BLANK: 3444332 Matrix: Water  
 Associated Lab Samples: 50353062004, 50353062005, 50353062006, 50353062008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
-----------	-------	--------------	-----------------	----------	------------

LABORATORY CONTROL SAMPLE: 3444333

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
-----------	-------	-------------	------------	-----------	--------------	------------

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

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## QUALIFIERS

Project: GH05497/Vistra - Edwards  
Pace Project No.: 50353062

### 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.  
 Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.  
 TNI - The NELAC Institute.

### BATCH QUALIFIERS

Batch: 751593  
 [BM] Matrix precision data could not be provided for this analytical batch due to insufficient sample volume.

### ANALYTE QUALIFIERS

BM Matrix precision data could not be provided for this analytical batch due to insufficient sample volume.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: GH05497/Vistra - Edwards  
 Pace Project No.: 50353062

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50353062001	AP07S	RSK 175 Modified	751446		
50353062002	AW-05	RSK 175 Modified	751446		
50353062003	AW-06	RSK 175 Modified	751446		
50353062004	AW-08	RSK 175 Modified	751593		
50353062005	AW-10	RSK 175 Modified	751593		
50353062006	AW-11	RSK 175 Modified	751593		
50353062008	XPW03	RSK 175 Modified	751593		
50353062009	EB 02	RSK 175 Modified	751446		

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE CONDITION UPON RECEIPT FORM**



Date/Time and Initials of person examining contents: 9/1/23 19:43 TH

1. Courier:  FED EX  UPS  CLIENT  PACE  NOW/JETT  OTHER \_\_\_\_\_

2. Custody Seal on Cooler/Box Present:  Yes  No  
 (If yes) Seals Intact:  Yes  No (leave blank if no seals were present)

3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H

4. Cooler Temperature(s): 1.8/2.1     
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material:  Bubble Wrap  Bubble Bags  
 None  Other \_\_\_\_\_

6. Ice Type:  Wet  Blue  None

7. If temp. is over 6°C or under 0°C, was the PM notified?:  Yes  No  
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			<input checked="" type="checkbox"/>
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			<u>Present</u>	<u>Absent</u>	<u>N/A</u>
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	<u>Present</u>	<u>Absent</u>	<u>No VOA Vials Sent</u>
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

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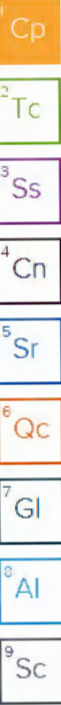


# ANALYTICAL REPORT

October 03, 2023

## Pace IR - Peoria, IL

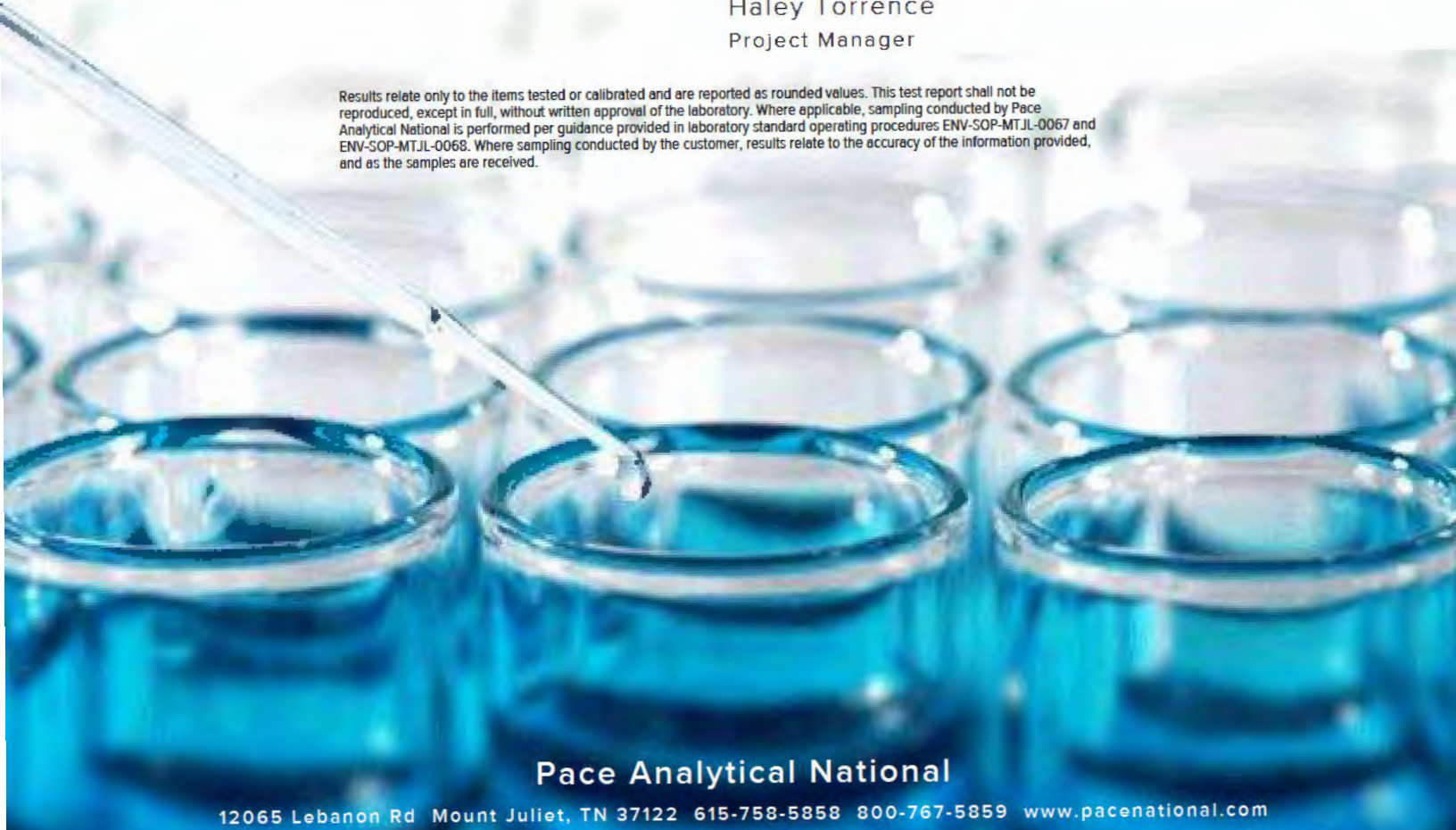
Sample Delivery Group: L1652263  
Samples Received: 09/01/2023  
Project Number: GH05497  
Description: Vistra-Edwards  
Site: 001  
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615



Entire Report Reviewed By:

Haley Torrence  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



**Pace Analytical National**

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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<b>Sr: Sample Results</b>	6	<sup>3</sup> Ss
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	12	<sup>7</sup> Gl
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APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE SUMMARY

AP07S L1652263-01 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/28/23 10:47 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

<sup>4</sup>Cn

<sup>5</sup>Sr

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

AW-05 L1652263-02 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/28/23 14:49 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

AW-06 L1652263-03 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/28/23 16:10 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

AW-08 L1652263-04 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/28/23 14:40 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

AW-10 L1652263-05 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/28/23 13:04 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

AW-11 L1652263-06 Non-Potable Water

Collected by  
Collected date/time  
Received date/time  
08/28/23 11:10 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

SAMPLE SUMMARY

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 G
- 8 Al
- 9 Sc

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
--------	-------	----------	-----------------------	--------------------	---------	----------

XPW03 L1652263-08 Non-Potable Water

Collected by  
 Collected date/time 08/28/23 16:16  
 Received date/time 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

EB 02 L1652263-09 Non-Potable Water

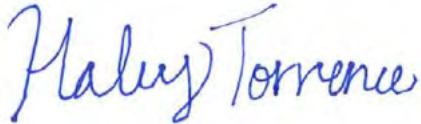
Collected by  
 Collected date/time 08/28/23 16:25  
 Received date/time 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2129013	1	09/08/23 19:25	09/22/23 14:40	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/22/23 14:40	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN



CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc

AP07S

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS 01  
L1652263

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.134	<u>U</u>	0.217	0.405	09/22/2023 14:40	<a href="#">WG2129013</a>
(f) Barium	119			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(f) Yttrium	94.0			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 G
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.26		0.474	0.483	09/22/2023 14:40	<a href="#">WG2130036</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.13		0.421	0.263	09/15/2023 19:27	<a href="#">WG2130036</a>
(f) Barium-133	93.3			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>



AW-05

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS 02

L1652263

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.0372	<u>U</u>	0.474	0.887	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Barium	107			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Yttrium	78.9			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0965	<u>U</u>	0.498	0.919	09/22/2023 14:40	<a href="#">WG2130036</a>

<sup>4</sup> Cn

<sup>5</sup> Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.0965	<u>J</u>	0.154	0.240	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	93.6			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

<sup>6</sup> Qc

<sup>7</sup> G

<sup>8</sup> Al

<sup>9</sup> Sc

AW-06

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS 03

Collected date/ 09/22/2023 L1652263

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.253	<u>U</u>	0.228	0.437	09/22/2023 14:40	<a href="#">WG2129013</a>
(f) Barium	116			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(f) Yttrium	109			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 G
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.107	<u>U</u>	0.270	0.484	09/22/2023 14:40	<a href="#">WG2130036</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.107	<u>J</u>	0.144	0.208	09/15/2023 19:27	<a href="#">WG2130036</a>
(f) Barium-133	109			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

AW-08

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS 04  
L1652263

Collected date/

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.876	<u>U</u>	0.264	0.517	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Barium	139			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Yttrium	98.1			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.434	<u>J</u>	0.388	0.591	09/22/2023 14:40	<a href="#">WG2130036</a>

<sup>4</sup> Cn

<sup>5</sup> Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.434		0.285	0.287	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	99.3			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

<sup>6</sup> Qc

<sup>7</sup> G

<sup>8</sup> Al

<sup>9</sup> Sc

AW-10

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS - 05  
L1652263

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	2.26		0.387	0.658	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Barium	132			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Yttrium	94.5			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.03		0.678	0.736	09/22/2023 14:40	<a href="#">WG2130036</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.77		0.557	0.329	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	89.5			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

AW-11

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS 06  
L1652263

Collected date/

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.953		0.266	0.471	09/22/2023 14:40	<a href="#">WG2129013</a>
(f) Barium	113			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(f) Yttrium	94.9			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.45		0.559	0.534	09/22/2023 14:40	<a href="#">WG2130036</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	1.50		0.492	0.251	09/15/2023 19:27	<a href="#">WG2130036</a>
(f) Barium-133	93.7			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

6 Qc

7 G

8 Al

9 Sc



Radiochemistry by Method 904/9320

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch

<sup>1</sup>Cp

<sup>2</sup>Tc

<sup>3</sup>Ss

Radiochemistry by Method Calculation

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch

<sup>4</sup>Cn

<sup>5</sup>Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result pCi/l	Qualifier	Uncertainty + / -	MDA pCi/l	Analysis Date date / time	Batch

<sup>6</sup>Qc

<sup>7</sup>Gl

<sup>8</sup>Al

<sup>9</sup>Sc

XPW03

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS - 08

Collected date: 09/22/2023

L1652263

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	-0.340	<u>U</u>	0.295	0.559	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Barium	113			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(T) Yttrium	105			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

1 Cp

2 Tc

3 Ss

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.261	<u>J</u>	0.368	0.607	09/22/2023 14:40	<a href="#">WG2130036</a>

4 Cn

5 Sr

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.261		0.220	0.236	09/15/2023 19:27	<a href="#">WG2130036</a>
(T) Barium-133	92.2			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

6 Qc

7 Gl

8 Al

9 Sc

EB 02

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS 09

Collected date/ 09/22/2023 L1652263

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	0.0351	<u>U</u>	0.301	0.562	09/22/2023 14:40	<a href="#">WG2129013</a>
(f) Barium	120			30.0-143	09/22/2023 14:40	<a href="#">WG2129013</a>
(f) Yttrium	90.0			30.0-136	09/22/2023 14:40	<a href="#">WG2129013</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 G
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.263	<u>J</u>	0.368	0.621	09/22/2023 14:40	<a href="#">WG2130036</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.228	<u>J</u>	0.212	0.264	09/15/2023 19:27	<a href="#">WG2130036</a>
(f) Barium-133	107			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>

Method Blank (MB)

(MB) R3978600-1 09/22/23 14:40

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	-0.0308	<u>U</u>	0.174	0.328
(T) Barium	116		116	
(T) Yttrium	117		117	

L1652263-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1652263-01 09/22/23 14:40 • (DUP) R3978600-5 09/22/23 14:40

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.134	0.217	0.405	0.537	0.326	0.597	1	120	1.03	<u>J</u>	20	3
(T) Barium	119			116	116							
(T) Yttrium	94.0			95.8	95.8							

Laboratory Control Sample (LCS)

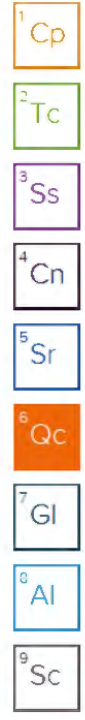
(LCS) R3978600-2 09/22/23 14:40

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.57	91.3	80.0-120	
(T) Barium			90.3		
(T) Yttrium			98.1		

L1650760-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650760-02 09/22/23 14:40 • (MS) R3978600-3 09/22/23 14:40 • (MSD) R3978600-4 09/22/23 14:40

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	0.352	14.3	11.8	140	114	1	70.0-130	<u>J5</u>		19.4		20
(T) Barium		104			122	95.0							
(T) Yttrium		89.0			78.5	83.7							





Method Blank (MB)

(MB) R3981103-1 09/15/23 15:33

Analyte	MB Result	MB Qualifier	MB Uncertainty	MB MDA
	pCi/l		+/-	pCi/l
Radium-226	0.00320	<u>U</u>	0.0756	0.145
(T) Barium-133	52.0		52.0	

L1652263-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1652263-09 09/15/23 19:27 • (DUP) R3981103-5 09/15/23 15:33

Analyte	Original Result	Original Uncertainty	Original MDA	DUP Result	DUP Uncertainty	DUP MDA	Dilution	DUP RPD	DUP RER	DUP Qualifier	DUP RPD Limits	DUP RER Limit
	pCi/l	+/-	pCi/l	pCi/l	+/-	pCi/l		%			%	
Radium-226	0.228	0.212	0.264	-0.0166	0.126	0.300	1	200	0.993	<u>U</u>	20	3
(T) Barium-133	107			86.4	86.4							

Laboratory Control Sample (LCS)

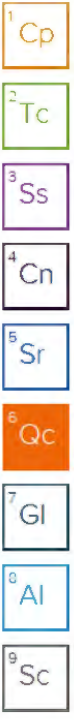
(LCS) R3981103-2 09/15/23 15:33

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	pCi/l	pCi/l	%	%	
Radium-226	5.01	5.62	112	80.0-120	
(T) Barium-133			64.5		

L1651386-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1651386-07 09/15/23 19:27 • (MS) R3981103-3 09/15/23 15:33 • (MSD) R3981103-4 09/15/23 15:33

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	MS RER	RPD Limits
	pCi/l	pCi/l	pCi/l	pCi/l	%	%		%			%		%
Radium-226	20.0	0.799	21.5	17.9	104	85.4	1	75.0-125			18.4		20
(T) Barium-133		92.7			82.5	84.5							





Guide to Reading and Understanding Your Laboratory Report

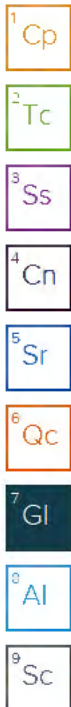
The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
U	Below Detectable Limits: Indicates that the analyte was not detected.



Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1</sup> & <sup>6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 <sup>6</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

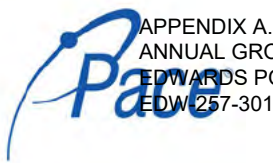
\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.









September 11, 2023

Gail Shindler  
Pace Peoria  
2231 W Altorfer Dr  
Peoria, IL 61615

RE: Project: GH05671/ Vistra - Edwards  
Pace Project No.: 50353060

Dear Gail Shindler:

Enclosed are the analytical results for sample(s) received by the laboratory on September 01, 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 - Indianapolis

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

Sincerely,

Heather Patterson  
heather.patterson@pacelabs.com  
(317)228-3146  
Project Manager

Enclosures

cc: Diane Billings, Pace IL/MO  
Janet Clutters, Pace Analytical Peoria  
Taylor Cordle, Pace Analytical Peoria  
Jon Robert Handshy, Pace Hazelwood  
Amy Holmes, Pace Hazelwood  
Chenise Lambert-Sykes, Pace Analytical Peoria  
Erin Lane, Pace Peoria  
Jennifer Solomon, Pace Analytical Peoria



**REPORT OF LABORATORY ANALYSIS**

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### CERTIFICATIONS

Project: GH05671/ Vistra - Edwards  
Pace Project No.: 50353060

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**Pace Analytical Services Indianapolis**

7726 Moller Road, Indianapolis, IN 46268  
Illinois Accreditation #: 200074  
Indiana Drinking Water Laboratory #: C-49-06  
Kansas/TNI Certification #: E-10177  
Kentucky UST Agency Interest #: 80226  
Kentucky WW Laboratory ID #: 98019  
Michigan Drinking Water Laboratory #9050

Ohio VAP Certified Laboratory #: CL0065  
Oklahoma Laboratory #: 9204  
Texas Certification #: T104704355  
Wisconsin Laboratory #: 999788130  
USDA Foreign Soil Permit #: 525-23-13-23119  
USDA Compliance Agreement #: IN-SL-22-001

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### REPORT OF LABORATORY ANALYSIS

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### SAMPLE SUMMARY

Project: GH05671/ Vistra - Edwards  
Pace Project No.: 50353060

Lab ID	Sample ID	Matrix	Date Collected	Date Received
50353060001	AW-09	Water	08/29/23 11:50	09/01/23 09:30

### REPORT OF LABORATORY ANALYSIS

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**SAMPLE ANALYTE COUNT**

Project: GH05671/ Vistra - Edwards  
 Pace Project No.: 50353060

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
50353060001	AW-09	RSK 175 Modified	TAY	3	PASI-I

PASI-I = Pace Analytical Services - Indianapolis

**REPORT OF LABORATORY ANALYSIS**

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**SUMMARY OF DETECTION**

Project: GH05671/ Vistra - Edwards  
 Pace Project No.: 50353060

Lab Sample ID	Client Sample ID						
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers	
50353060001	AW-09						

**REPORT OF LABORATORY ANALYSIS**

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### ANALYTICAL RESULTS

Project: GH05671/ Vistra - Edwards  
 Pace Project No.: 50353060

<b>Sample:</b> AW-09	<b>Lab ID:</b> 50353060001	Collected: 08/29/23 11:50	Received: 09/01/23 09:30	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual

**RSK 175 Headspace**  
 Analytical Method: RSK 175 Modified  
 Pace Analytical Services - Indianapolis

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: GH05671/ Vistra - Edwards  
Pace Project No.: 50353060

QC Batch: 751804      Analysis Method: RSK 175 Modified  
QC Batch Method: RSK 175 Modified      Analysis Description: RSK 175 HEADSPACE  
Laboratory: Pace Analytical Services - Indianapolis  
Associated Lab Samples: 50353060001

METHOD BLANK: 3445357      Matrix: Water  
Associated Lab Samples: 50353060001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
-----------	-------	--------------	-----------------	----------	------------

LABORATORY CONTROL SAMPLE: 3445358

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
-----------	-------	-------------	------------	-----------	--------------	------------

SAMPLE DUPLICATE: 3445359

Parameter	Units	50353070015 Result	Dup Result	RPD	Max RPD	Qualifiers
-----------	-------	--------------------	------------	-----	---------	------------

SAMPLE DUPLICATE: 3445360

Parameter	Units	50353070016 Result	Dup Result	RPD	Max RPD	Qualifiers
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Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

**REPORT OF LABORATORY ANALYSIS**

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## QUALIFIERS

Project: GH05671/ Vistra - Edwards  
Pace Project No.: 50353060

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### 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.

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: GH05671/ Vistra - Edwards  
 Pace Project No.: 50353060

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
50353060001	AW-09	RSK 175 Modified	751804		

**REPORT OF LABORATORY ANALYSIS**

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**SAMPLE CONDITION UPON RECEIPT FORM**

Pace

Date/Time and Initials of person examining contents: 9/1/23 19:43 TH

1. Courier:  FED EX  UPS  CLIENT  PACE  NOW/JETT  OTHER \_\_\_\_\_
2. Custody Seal on Cooler/Box Present:  Yes  No  
 (If yes) Seals Intact:  Yes  No (leave blank if no seals were present)
3. Thermometer: 1 2 3 4 5 6 7 8 A B C D E F G H
4. Cooler Temperature(s): 1.8/2.1     
 (Initial/Corrected) RECORD TEMPS OF ALL COOLERS RECEIVED (use Comments below to add more)

5. Packing Material:  Bubble Wrap  Bubble Bags  
 None  Other \_\_\_\_\_
6. Ice Type:  Wet  Blue  None
7. If temp. is over 6°C or under 0°C, was the PM notified?:  Yes  No  
 Cooler temp should be above freezing to 6°C

All discrepancies will be written out in the comments section below.

	Yes	No		Yes	No	N/A
USDA Regulated Soils? (HI, ID, NY, WA, OR, CA, NM, TX, OK, AR, LA, TN, AL, MS, NC, SC, GA, FL, or Puerto Rico)		<input checked="" type="checkbox"/>	All containers needing acid/base preservation have been pH CHECKED?: Exceptions: VOA, coliform, LLHg, O&G, RAD CHEM, and any container with a septum cap or preserved with HCl.			<input checked="" type="checkbox"/>
Short Hold Time Analysis (48 hours or less)? Analysis:		<input checked="" type="checkbox"/>	Circle: HNO3 (<2) H2SO4 (<2) NaOH (>10) NaOH/ZnAc (>9) Any non-conformance to pH recommendations will be noted on the container count form			<input checked="" type="checkbox"/>
Time 5035A TC placed in Freezer or Short Holds To Lab	Time:			Present	Absent	N/A
Rush TAT Requested (4 days or less):		<input checked="" type="checkbox"/>	Residual Chlorine Check (SVOC 625 Pest/PCB 608)			<input checked="" type="checkbox"/>
Custody Signatures Present?	<input checked="" type="checkbox"/>		Residual Chlorine Check (Total/Amenable/Free Cyanide)			<input checked="" type="checkbox"/>
Containers Intact?:	<input checked="" type="checkbox"/>		Headspace Wisconsin Sulfide?			<input checked="" type="checkbox"/>
Sample Label (IDs/Dates/Times) Match COC?: Except TCs, which only require sample ID	<input checked="" type="checkbox"/>		Headspace in VOA Vials (>6mm): See Container Count form for details	Present	Absent	No VOA Vials Sent
Extra labels on Terracore Vials? (soils only)			Trip Blank Present?			<input checked="" type="checkbox"/>
			Trip Blank Custody Seals?:			<input checked="" type="checkbox"/>

COMMENTS:

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# ANALYTICAL REPORT

October 03, 2023

## Pace IR - Peoria, IL

Sample Delivery Group: L1652265  
Samples Received: 09/01/2023  
Project Number: GH05671  
Description: Vistra-Edwards  
Site: 001  
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615



Entire Report Reviewed By:

Haley Torrence  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 [www.pacenational.com](http://www.pacenational.com)

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TABLE OF CONTENTS

**Cp: Cover Page**

**Tc: Table of Contents**

**Ss: Sample Summary**

**Cn: Case Narrative**

**Sr: Sample Results**

**AW-09 L1652265-01**

**Qc: Quality Control Summary**

**Radiochemistry by Method 904/9320**

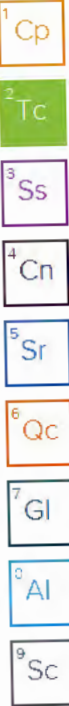
**Radiochemistry by Method SM7500Ra B M**

**Gl: Glossary of Terms**

**Al: Accreditations & Locations**

**Sc: Sample Chain of Custody**

1  
2  
3  
4  
5  
5  
6  
6  
7  
8  
9  
10



SAMPLE SUMMARY

AW-09 L1652265-01 Non-Potable Water

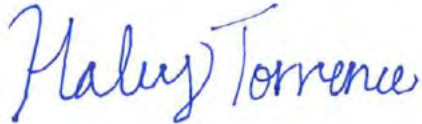
Collected by  
 Collected date/time 08/29/23 11:50  
 Received date/time 09/01/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2132560	1	09/14/23 18:09	09/18/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2130036	1	09/11/23 15:41	09/18/23 21:28	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2130036	1	09/11/23 15:41	09/15/23 19:27	RGT	Mt. Juliet, TN

- <sup>1</sup>Cp
- <sup>2</sup>Tc
- <sup>3</sup>Ss
- <sup>4</sup>Cn
- <sup>5</sup>Sr
- <sup>6</sup>Qc
- <sup>7</sup>Gl
- <sup>8</sup>Al
- <sup>9</sup>Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Haley Torrence  
Project Manager

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Qc
- <sup>7</sup> Gl
- <sup>8</sup> Al
- <sup>9</sup> Sc



AW-09

APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE RESULTS 01  
L1652265

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-228	1.12		0.287	0.506	09/18/2023 21:28	<a href="#">WG2132560</a>
(f) Barium	112			30.0-143	09/18/2023 21:28	<a href="#">WG2132560</a>
(f) Yttrium	100			30.0-136	09/18/2023 21:28	<a href="#">WG2132560</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 G
- 8 Al
- 9 Sc

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.52		0.374	0.551	09/18/2023 21:28	<a href="#">WG2130036</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
RADIUM-226	0.402		0.240	0.218	09/15/2023 19:27	<a href="#">WG2130036</a>
(f) Barium-133	91.8			30.0-143	09/15/2023 19:27	<a href="#">WG2130036</a>



Data not pertinent to the compliance monitoring was removed.

Method Blank (MB)

(MB) R3975641-1 09/18/23 21:28

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty + / -	MB MDA pCi/l
Radium-228	0.779		0.218	0.390
(T) Barium	79.4		79.4	
(T) Yttrium	103		103	

L1650771-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1650771-01 09/18/23 21:28 • (DUP) R3975641-5 09/18/23 21:28

Analyte	Original Result pCi/l	Original Uncertainty + / -	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty + / -	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.80	0.243	0.400	1.93	0.465	0.821	1	6.65	0.236		20	3
(T) Barium	121			84.6	84.6							
(T) Yttrium	92.0			83.2	83.2							

Laboratory Control Sample (LCS)

(LCS) R3975641-2 09/18/23 21:28

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.90	97.9	80.0-120	
(T) Barium			96.1		
(T) Yttrium			98.1		

L1650762-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1650762-07 09/18/23 21:28 • (MS) R3975641-3 09/18/23 21:28 • (MSD) R3975641-4 09/18/23 21:28

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	-0.538	8.83	9.60	88.3	96.0	1	70.0-130			8.35		20
(T) Barium		135			126	112							
(T) Yttrium		108			87.6	95.3							

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gf
- 8 Al
- 9 Sc

Method Blank (MB)

(MB) R3981103-1 09/15/23 15:33

Analyte	MB Result pCi/l	MB Qualifier	MB Uncertainty +/-	MB MDA pCi/l
Radium-226	0.00320	<u>U</u>	0.0756	0.145
(T) Barium-133	52.0		52.0	

L1652263-09 Original Sample (OS) • Duplicate (DUP)

(OS) L1652263-09 09/15/23 19:27 • (DUP) R3981103-5 09/15/23 15:33

Analyte	Original Result pCi/l	Original Uncertainty +/-	Original MDA pCi/l	DUP Result pCi/l	DUP Uncertainty +/-	DUP MDA pCi/l	Dilution	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.228	0.212	0.264	-0.0166	0.126	0.300	1	200	0.993	<u>U</u>	20	3
(T) Barium-133	107			86.4	86.4							

Laboratory Control Sample (LCS)

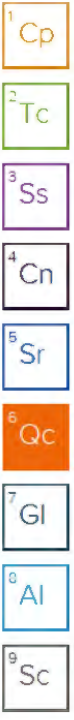
(LCS) R3981103-2 09/15/23 15:33

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.01	5.62	112	80.0-120	
(T) Barium-133			64.5		

L1651386-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1651386-07 09/15/23 19:27 • (MS) R3981103-3 09/15/23 15:33 • (MSD) R3981103-4 09/15/23 15:33

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.799	21.5	17.9	104	85.4	1	75.0-125			18.4		20
(T) Barium-133		92.7			82.5	84.5							





Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 GI
- 8 AI
- 9 Sc

Qualifier Description

U	Below Detectable Limits: Indicates that the analyte was not detected.
---	---

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1</sup> & <sup>6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA – ISO 17025 <sup>6</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





Internal Transfer Chain of Custody



State of Origin: IL  
Cert. Needed:  YES  NO

Owner Received Date: 8/29/2023 Results Required By: 9/12/2023

Workorder: GH05671 Workorder Name: Vistra - Edwards

Report To: Diane Billings  
Pace Analytical - IL/MO  
2231 W. Altorfer Drive  
Peoria, IL 61615  
800-752-6651

Subcontract To: Pace Analytical - Mt Juliet  
12065 Lebanon Rd  
Mt Juliet TN 37122

Requested Analysis

PH-10BDH4321 TRC-2144141  
CR6-20221V  
PH-10BDH4321 TRC-2144141  
CR6-20221V

1204

LAB USE ONLY

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers														
						1	2	3	4	5	6	7	8	9	10					
1	AW-09	GRAB	8/29/2023 11:50	GH05671-01	GW	X														
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

Transfers Released By	Date/Time	Received By	Date/Time	Comments
1	8/31/23 11:30	[Signature]	9/11/23 0400	Needs reported as 226, 228 and also combined 226/228
2				
3				Include QC summary and edd

Cooler Temperature on Receipt \_\_\_\_\_ °C Custody Seal  or N Received on Ice  or N Sample Intact  or N

\*\*\*In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist 6319 6005 5697  
 COC Seal Present/Intact:  Y  N  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 RAD Screen <0.5 mR/hr:  Y  N  
 VOA Zero Headspace:  Y  N  
 Pres. Correct/Check:  Y  N  
 GRAB 8 18-2 + 0 = 18-2





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

116522165

INTER LABORATORY WORK ORDER # GH05671  
(To be complete by sending lab)

Sending Project No:	GH05671
Receiving Project No:	
Check Box for Consolidated Invoice:	<input type="checkbox"/>
Date Prepared:	8/30/2023
REQUESTED COMPLETION DATE:	9/12/2023

Sending Region	IR72-IL/MO	Sending Project Mgr.	Diane Billings
Receiving Region	MT JULIET	External Client	Vistra - Edwards
State of Sample Origin	IL	QC Deliverable	STD Report

All questions should be addressed to sending project manager.

Requested Reportable Units \_\_\_\_\_

Report Wet or Dry Weight? \_\_\_\_\_

Cart Needed: \_\_\_\_\_

IL

WORK REQUESTED						
Method Description	Container Type	Quantity of	Preservative	Quantity of	Unit Price	Amount
Radium 226/228		1		1	\$242.10	\$242.10
		1		1	\$0.00	\$0.00
		1		1	\$0.00	\$0.00
<b>TOTAL</b>						<b>\$242.10</b>

Special Requirements: Report as 226, 228 & combined 226/228. Include QC summary

Receiving Region Department	Acctg. Code	Totals from above	Revenue Allocation	
			Receiving Region (80%)	Client Services Dept.
radiological	38	\$242.10	\$193.68	\$48.42
* Custom Revenue Allocation		TOTAL	\$193.68	\$48.42

Return Samples to Sending Region:  Yes  No

FOR ANALYTICAL WORK COMPLETED THIS SECTION ALSO

CONFIRMATION OF WORK COMPLETED

Date Completed: \_\_\_\_\_ Receiving Project Manager: \_\_\_\_\_

Original sent to the receiving lab - Copy kept at the sending lab.  
When work completed: Original sent to the ABM at the receiving laboratory. Copies are made to corporate as needed.





GH04366  
MMW 8-22-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Address: <b>see Section A</b>		NPDES <b>GROUND WATER</b> <b>DRINKING WATER</b>		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		UST <b>RCRA</b> <b>OTHER</b>		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		Site Location		<b>IL</b>
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		STATE:		

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to list)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test #	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No. / Lab I.D.	
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	EDW-257-301	EDW-845-301		EDW-SUP-000	EDW-CAP-301					
1	AW-19																									
3	AW-21																									
6	SG-01																									
7	SG-02																									
8	SG-03																									
9	XPW01A			W/G	6	8/21/23	1515		X	X	X															
10	XPW02																									
11	XPW03																									
12	Field Blank																									
13	AW 16 Dup			W/G	6	8/21/23	1428		X	X	X															
14	XPW01A Dup			W/G	6	8/21/23	1515		X	X	X															
15																										
16																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS						
<b>EDW-23Q3-Rev 0</b>	<i>[Signature]</i>	8/21/23	1707	<i>[Signature]</i>	8-22-23	700	0.6	Y	N	Y			

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Brian Voelker</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/21/23		

GH04572  
Vmw 8-22-23

**CHAIN-OF-CUSTODY / Analytical Request Document**

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Page: 1 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <u>Vistra Corp</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>		NPDES    GROUND WATER    DRINKING WATER		
Address: <u>13496 E. 900th St</u>		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>		UST    RCRA    OTHER		
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Address: <u>see Section A</u>		Site Location		
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Quote Reference:		STATE: <u>IL</u>		
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		Project Manager:		Profile #:		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
						DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other				
1	AP05S																		
2	AP07S																		
4	AW-01			<u>47.6</u>	<u>8/22/23</u>	<u>1428</u>	<u>15</u>	<u>X</u>	<u>X</u>	<u>X</u>									
5	AW-05																		
6	AW-06																		
7	AW-08																		
8	AW-09																		
9	AW-10																		
10	AW-11																		
11	AW-14																		
12	AW-15																		
13	AW-15S																		
14	AW-16																		
15	AW-17																		
16	AW-18			<u>47.6</u>	<u>8/22/23</u>	<u>1111</u>	<u>15</u>	<u>X</u>	<u>X</u>	<u>X</u>									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<u>EDW-23Q3-Rev 0</u>	<u>[Signature]</u>	<u>8/22/23</u>	<u>1640</u>	<u>[Signature]</u>	<u>8-22-23</u>	<u>1640</u>	<u>18.2</u>	<u>Y</u>	<u>N</u>	<u>Y</u>	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<u>Anna Plumb</u>				
SIGNATURE of SAMPLER:	<u>[Signature]</u>	DATE Signed (MM/DD/YY):	<u>08/22/23</u>		



**CHAIN-OF-CUSTODY / Analytical Request Document**

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <u>Vistra Corp</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Jason Stuckey</u>		NPDES    GROUND WATER    DRINKING WATER		
Address: <u>13498 E. 900th St</u>		Copy To: <u>Jason Stuckey</u>		Company Name: <u>Vistra Corp</u>		UST    RCRA    OTHER		
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Address: <u>see Section A</u>		Site Location		
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Quote Reference:		STATE: <u>IL</u>		
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		Project Manager:		Profile #		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE    CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
			DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other				
1	AW-19		W/G	8/22/23	1257	16	X	X										
3	AW-21		W/G	8/22/23	1604	15	X	X										
6	SG-01																	
7	SG-02																	
8	SG-03																	
9	XPW01A																	
10	XPW02		W/G	8/22/23	1557	15	X	X										
11	XPW03																	
12	Field Blank		W/G	8/22/23	1111	15	X	X										
13	AV01 Dup		W/G	8/22/23	1428	15	X	X										
14																		
15																		
16																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>[Signature]</i>	8/22/23	1640	<i>[Signature]</i>	8-22-23	1640	18.2	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Jason Penick</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY): 08/22/23			



G#04878  
Vmw 8-24-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 1 of 2							
Company: <b>Visira Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		<b>REGULATORY AGENCY</b>							
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Visira Corp</b>									
Email To: <b>Brian.Voelker@VisiraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> </table>		NPDES	GROUND WATER	DRINKING WATER	UST	RCRA	OTHER
NPDES	GROUND WATER	DRINKING WATER											
UST	RCRA	OTHER											
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		Site Location							
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project Manager:		STATE: <b>IL</b>							
				Profile #:									

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.
						Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>	Methanol	Other	↓ Analysis Test ↓	EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301			
	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	MATRIX CODE	DATE	TIME																	
1	AP05S	WT G	8/23/23	1304	15	X	X	X													
2	AP07S																				
4	AW-01																				
5	AW-05																				
6	AW-06																				
7	AW-08																				
8	AW-09																				
9	AW-10																				
10	AW-11																				
11	AW-14	WT G	8/23/23	1553	15	X	X	X													
12	AW-15	WT G	8/23/23	1255	15	X	X	X													
13	AW-15S	WT G	8/23/23	1425	16	X	X	X													
14	AW-16																				
15	AW-17																				
16	AW-18																				

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0		<i>[Signature]</i>		8/23/23	1634	<i>[Signature]</i>		8-23-23	1634	117	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Container (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Aaron Penick</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/23/23		

GH04878  
MMW 8-24-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b> NPDES    GROUND WATER    DRINKING WATER UST      RCRA                  OTHER Site Location:                                  IL STATE:		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>				
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>				
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Address: <b>see Section A</b>				
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Quote Reference:		Project Manager: Profile #:		
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Project:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
						Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Methanol	Other	EDW-257-301	EDW-845-301				
1	AW-19																		
3	AW-21																		
6	SG-01																		
7	SG-02																		
8	SG-03																		
9	XPW01A																		
10	XPW02																		
11	XPW03																		
12	Field Blank																		
13	EBO1			8/23/23	1600	15	X	X	X										
14																			
15																			
16																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
EDW-23Q3-Rev 0	<i>[Signature]</i>	8/23/23	1634	<i>[Signature]</i>	8-23-23	1634	11.7 Y N Y

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Adam Pemberton</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	08/23/23		



GHO5497  
Mw 8-29-23

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		Address: <b>see Section A</b>		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Order Reference:		MPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/>		
Phone: <b>(217) 753-8911</b>   Fac:		Project Name:		Project Manager:		UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/>		
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		Site Location: <b>IL</b>		
						STATE: <b>IL</b>		

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 /, -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE	COLLECTED	PRESERVATIVES	ANALYSIS TEST	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab ID.	
						DATE	TIME	UNPRESERVED	H <sub>2</sub> SO <sub>4</sub>			HNO <sub>3</sub>
1	APO5S											
2	AP07S	WT 6	8/28/23 1047	15 X X X								
4	AW-01											
5	AW-05	WT 6	8/28/23 1449	15 X X X								
6	AW-06	WT 6	8/28/23 1610	15 X X X								
7	AW-08	WT 6	8/28/23 1440	15 X X X								
8	AW-09											
9	AW-10	WT 6	8/28/23 1304	15 X X X								
10	AW-11	WT 6	8/28/23 1110	15 X X X								
11	AW-14											
12	AW-15											
13	AW-15S											
14	AW-16											
15	AW-17											
16	AW-18											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
EDW-23Q3-Rev 0	<i>[Signature]</i>	08/28/23	1701	<i>[Signature]</i>	8-29-23	700 29	Y	N/Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Container (Y/N)	Sample Intact (Y/N)
PRINT Name of SAMPLER:	<i>Arron Remickler</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YYYY):	08/28/23		

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

Section A  
Requested Client Information:  
Company: **Vistra Corp**  
Address: **13498 E. 900th St**  
Phone: **(217) 753-8911** Fax:  
Requested Due Date/TIME: **10 day**

Section B  
Requested Project Information:  
Report To: **Brian Voelker**  
Copy To: **Jason Stuckey**  
Purchase Order No.:  
Project Name:  
Project Number: **2285**

Section C  
Invoicing Information:  
Attention: **Jason Stuckey**  
Company Name: **Vistra Corp**  
Address: **see Section A**  
Quote Reference:  
Product Manager:  
Project #:

REGULATORY AGENCY  
NPDES GROUND WATER DRINKING WATER  
UST RCRA OTHER  
Site Location STATE: **IL**

Page: **2** of **2**

GH05497  
YMW 8-29-23

ITEM #	Specimen ID (incl. Use / ) Sample ID MUST BE UNIQUE	VALID Matrix Codes MATRIX CODE (see valid codes to list) SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No / Lab ID.
			Unpreserved	H <sub>2</sub> SO <sub>4</sub>					HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Y				
1	AW-19																		
3	AW-21																		

Specimen ID (incl. Use / ) Sample ID MUST BE UNIQUE	VALID Matrix Codes MATRIX CODE (see valid codes to list) SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No / Lab ID.
		Unpreserved	H <sub>2</sub> SO <sub>4</sub>					HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Y				
4	SG-Q1																	
7	SG-Q2																	
8	SG-Q3																	
9	XPW01A																	
10	XPW02																	
11	XPW03																	
12	Field Blank																	
13	Field Blank																	
14																		
15																		
16																		
17																		
18																		
19																		

ADDITIONAL COMMENTS: **EDW-2303-Rev 0**

REQUISITIONED BY / APPLICATION: *[Signature]* DATE: **08/28/23** TIME: **1701**

ACCEPTED BY / APPLICATION: *[Signature]* DATE: **8/29/23** TIME: **700**

Temp in °C: **29**

Received on ice (Y/N): **Y**

Custody Sealed Cooler (Y/N): **N**

Samples Intact (Y/N): **Y**

SAMPLER NAME AND SIGNATURE: *[Signature]*

PROJECT NAME OF SAMPLER: **Edwards Power Plant**

SIGNATURE OF SAMPLER: *[Signature]* DATE SIGNED (MANDATORY): **08/28/23**



GH05671  
JMS 8-29-23

**CHAIN-OF-CUSTODY / Analytical Request Document**

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		
Address: <b>13498 E. 900th St</b>		Copy To: <b>Jason Stuckey</b>		Company Name: <b>Vistra Corp</b>		Address: <b>see Section A</b>		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		HPDES <b>GROUND WATER</b> DRINKING WATER		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		UST <b>RCRA</b> OTHER		
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		Site Location		
						STATE: <b>IL</b>		

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No / Lab I.D.				
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Methanol	Other					EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-CAP-301
1	APOSS																							
2	AP07S																							
4	AW-01																							
5	AW-05																							
6	AW-06																							
7	AW-08																							
8	AW-09				8/29/23	1150	15																	
9	AW-10																							
10	AW-11																							
11	AW-14																							
12	AW-15																							
13	AW-15S																							
14	AW-16																							
15	AW-17																							
16	AW-18																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q3-Rev 0	<i>Joseph R Reed</i>	1/09	8/29/23	<i>Joe Reed</i>	8-29-23	1409	1.7	Y	N	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Refrigerated on Ice (Y/N)	Custody Sealed Container (Y/N)	Sample Intact (Y/N)
PRINT Name of SAMPLER:	<i>Joe Reed</i>				
SIGNATURE of SAMPLER:	<i>Joseph R Reed</i>	DATE Signed (MM/DD/YYYY):	8/29/23		





**Pace Analytical Services, LLC**  
2231 W. Altorfer Drive  
Peoria, IL 61615  
(800)752-6651

December 02, 2023

Brian Voelker  
Vistra - Edwards  
604 Pierce Boulevard  
O'Fallon, IL 62269

Dear Brian Voelker:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or [lisa.grant@pacelabs.com](mailto:lisa.grant@pacelabs.com).

Sincerely,

A handwritten signature in black ink that reads "Diane Billings". The signature is written in a cursive, flowing style.

Diane Billings  
Project Manager



**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

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Work Order    GK00258

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order    GK00477

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order    GK00654

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



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Work Order    GK00898

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided





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Work Order    GK03315

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YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



## ANALYTICAL RESULTS

**Sample:** GK00258-01  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 11/01/23 11:33  
**Received:** 11/01/23 16:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	53	mg/L	Q4	11/08/23 15:09	10	10	11/08/23 15:09	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L	Q3	11/08/23 14:15	1	0.250	11/08/23 14:15	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		11/08/23 14:15	1	1.0	11/08/23 14:15	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	26.8	Feet		11/01/23 11:33	1		11/01/23 11:33	FIELD	Field*
Dissolved oxygen, Field	0.88	mg/L		11/01/23 11:33	1		11/01/23 11:33	FIELD	Field*
Oxidation Reduction Potential	-115	mV		11/01/23 11:33	1	-500	11/01/23 11:33	FIELD	Field*
pH, Field Measured	6.80	pH Units		11/01/23 11:33	1		11/01/23 11:33	FIELD	Field*
Specific Conductance, Field Measured	1840	umhos/cm		11/01/23 11:33	1		11/01/23 11:33	FIELD	Field*
Temperature, Field Measured	13.1	°C		11/01/23 11:33	1		11/01/23 11:33	FIELD	Field*
Turbidity, Field Measured	118	NTU		11/01/23 11:33	1	0.00	11/01/23 11:33	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	890	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1000	mg/L		11/02/23 10:02	1	26	11/02/23 11:10	LAL2	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		11/02/23 08:47	5	3.0	11/09/23 12:01	TJJ	EPA 6020A
Arsenic	3.6	ug/L		11/02/23 08:47	5	1.0	11/10/23 11:18	TJJ	EPA 6020A
Barium	970	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:01	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/10/23 11:18	TJJ	EPA 6020A
Boron	420	ug/L		11/02/23 08:47	5	10	11/10/23 11:18	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:01	TJJ	EPA 6020A
Calcium	100	mg/L		11/02/23 08:47	5	0.20	11/09/23 12:01	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/02/23 08:47	5	4.0	11/09/23 12:01	TJJ	EPA 6020A
Cobalt	2.2	ug/L		11/02/23 08:47	5	2.0	11/09/23 12:01	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:01	TJJ	EPA 6020A
Magnesium	41	mg/L		11/02/23 08:47	5	0.10	11/09/23 12:01	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/02/23 08:47	5	0.20	11/09/23 12:01	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:01	TJJ	EPA 6020A
Potassium	4.2	mg/L		11/02/23 08:47	5	0.10	11/09/23 12:01	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/10/23 11:18	TJJ	EPA 6020A
Sodium	210	mg/L		11/02/23 08:47	5	0.10	11/09/23 12:01	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00258-01  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 11/01/23 11:33  
**Received:** 11/01/23 16:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:01	TJJ	EPA 6020A
Lithium	33	ug/L		11/02/23 08:47	1	20	11/06/23 11:04	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GK00258-02  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 11/01/23 12:55  
**Received:** 11/01/23 16:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	89	mg/L		11/08/23 15:45	10	10	11/08/23 15:45	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/08/23 15:27	1	0.250	11/08/23 15:27	CRD	EPA 300.0 REV 2.1
Sulfate	8.2	mg/L		11/08/23 15:27	1	1.0	11/08/23 15:27	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	28.03	Feet		11/01/23 12:55	1		11/01/23 12:55	FIELD	Field*
Dissolved oxygen, Field	0.88	mg/L		11/01/23 12:55	1		11/01/23 12:55	FIELD	Field*
Oxidation Reduction Potential	-111	mV		11/01/23 12:55	1	-500	11/01/23 12:55	FIELD	Field*
pH, Field Measured	6.84	pH Units		11/01/23 12:55	1		11/01/23 12:55	FIELD	Field*
Specific Conductance, Field Measured	1840	umhos/cm		11/01/23 12:55	1		11/01/23 12:55	FIELD	Field*
Temperature, Field Measured	13.4	°C		11/01/23 12:55	1		11/01/23 12:55	FIELD	Field*
Turbidity, Field Measured	149	NTU		11/01/23 12:55	1	0.00	11/01/23 12:55	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	780	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	800	mg/L	M	11/02/23 10:02	1	26	11/02/23 11:10	LAL2	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		11/02/23 08:47	5	3.0	11/09/23 12:05	TJJ	EPA 6020A
Arsenic	4.2	ug/L		11/02/23 08:47	5	1.0	11/10/23 11:22	TJJ	EPA 6020A
Barium	1500	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:05	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/10/23 11:22	TJJ	EPA 6020A
Boron	330	ug/L		11/02/23 08:47	5	10	11/10/23 11:22	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:05	TJJ	EPA 6020A
Calcium	120	mg/L		11/02/23 08:47	5	0.20	11/09/23 12:05	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/02/23 08:47	5	4.0	11/09/23 12:05	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/02/23 08:47	5	2.0	11/09/23 12:05	TJJ	EPA 6020A
Lead	1.3	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:05	TJJ	EPA 6020A
Magnesium	55	mg/L		11/02/23 08:47	5	0.10	11/09/23 12:05	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/02/23 08:47	5	0.20	11/09/23 12:05	TJJ	EPA 6020A
Molybdenum	1.5	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:05	TJJ	EPA 6020A
Potassium	4.5	mg/L		11/02/23 08:47	5	0.10	11/09/23 12:05	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/10/23 11:22	TJJ	EPA 6020A
Sodium	200	mg/L		11/02/23 08:47	5	0.10	11/09/23 12:05	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00258-02  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 11/01/23 12:55  
**Received:** 11/01/23 16:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:05	TJJ	EPA 6020A
Lithium	27	ug/L		11/02/23 08:47	1	20	11/06/23 11:06	BRS	EPA 6010B





### ANALYTICAL RESULTS

Sample: GK00258-03  
Name: AW-19  
Matrix: Ground Water - Grab

Sampled: 11/01/23 14:12  
Received: 11/01/23 16:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	77	mg/L		11/08/23 16:21	10	10	11/08/23 16:21	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/08/23 16:03	1	0.250	11/08/23 16:03	CRD	EPA 300.0 REV 2.1
Sulfate	57	mg/L		11/08/23 16:21	10	10	11/08/23 16:21	CRD	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	14.19	Feet		11/01/23 14:12	1		11/01/23 14:12	FIELD	Field*
Dissolved oxygen, Field	1.0	mg/L		11/01/23 14:12	1		11/01/23 14:12	FIELD	Field*
Oxidation Reduction Potential	-66.0	mV		11/01/23 14:12	1	-500	11/01/23 14:12	FIELD	Field*
pH, Field Measured	7.05	pH Units		11/01/23 14:12	1		11/01/23 14:12	FIELD	Field*
Specific Conductance, Field Measured	1140	umhos/cm		11/01/23 14:12	1		11/01/23 14:12	FIELD	Field*
Temperature, Field Measured	14.4	°C		11/01/23 14:12	1		11/01/23 14:12	FIELD	Field*
Turbidity, Field Measured	79.1	NTU		11/01/23 14:12	1	0.00	11/01/23 14:12	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	460	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	760	mg/L		11/02/23 10:02	1	26	11/02/23 11:10	LAL2	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		11/02/23 08:47	5	3.0	11/09/23 12:25	TJJ	EPA 6020A
Arsenic	10	ug/L		11/02/23 08:47	5	1.0	11/10/23 11:40	TJJ	EPA 6020A
Barium	190	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:25	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/10/23 11:40	TJJ	EPA 6020A
Boron	3200	ug/L		11/02/23 08:47	5	10	11/10/23 11:40	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:25	TJJ	EPA 6020A
Calcium	120	mg/L		11/02/23 08:47	5	0.20	11/09/23 12:25	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/02/23 08:47	5	4.0	11/09/23 12:25	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/02/23 08:47	5	2.0	11/09/23 12:25	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:25	TJJ	EPA 6020A
Magnesium	54	mg/L		11/02/23 08:47	5	0.10	11/09/23 12:25	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/02/23 08:47	5	0.20	11/09/23 12:25	TJJ	EPA 6020A
Molybdenum	4.1	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:25	TJJ	EPA 6020A
Potassium	0.90	mg/L		11/02/23 08:47	5	0.10	11/09/23 12:25	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/10/23 11:40	TJJ	EPA 6020A
Sodium	54	mg/L		11/02/23 08:47	5	0.10	11/09/23 12:25	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00258-03  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 11/01/23 14:12  
**Received:** 11/01/23 16:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		11/02/23 08:47	5	1.0	11/09/23 12:25	TJJ	EPA 6020A
Lithium	< 20	ug/L		11/02/23 08:47	1	20	11/06/23 11:08	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GK00477-01  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 11/02/23 13:19  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	34	mg/L	Q4	11/08/23 21:43	10	10	11/08/23 21:43	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/08/23 21:25	1	0.250	11/08/23 21:25	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		11/08/23 21:25	1	1.0	11/08/23 21:25	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	10.11	Feet		11/02/23 13:19	1		11/02/23 13:19	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		11/02/23 13:19	1		11/02/23 13:19	FIELD	Field*
Oxidation Reduction Potential	-95.0	mV		11/02/23 13:19	1	-500	11/02/23 13:19	FIELD	Field*
pH, Field Measured	6.98	pH Units		11/02/23 13:19	1		11/02/23 13:19	FIELD	Field*
Specific Conductance, Field Measured	1948	umhos/cm		11/02/23 13:19	1		11/02/23 13:19	FIELD	Field*
Temperature, Field Measured	14.0	°C		11/02/23 13:19	1		11/02/23 13:19	FIELD	Field*
Turbidity, Field Measured	2.50	NTU		11/02/23 13:19	1	0.00	11/02/23 13:19	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	1000	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		11/06/23 09:04	5	3.0	11/14/23 13:28	TJJ	EPA 6020A
Arsenic	1.8	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:28	TJJ	EPA 6020A
Barium	1900	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:28	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/13/23 15:23	TJJ	EPA 6020A
Boron	400	ug/L		11/06/23 09:04	5	10	11/13/23 15:23	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:28	TJJ	EPA 6020A
Calcium	140	mg/L		11/06/23 09:04	5	0.20	11/14/23 13:28	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/06/23 09:04	5	4.0	11/14/23 13:28	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/06/23 09:04	5	2.0	11/14/23 13:28	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:28	TJJ	EPA 6020A
Magnesium	59	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:28	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/06/23 09:04	5	0.20	11/14/23 13:28	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:28	TJJ	EPA 6020A
Potassium	4.4	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:28	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 16:52	KMC	EPA 6020A
Sodium	220	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:28	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:28	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00477-01  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 11/02/23 13:19  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	29	ug/L		11/06/23 09:04	1	20	11/13/23 11:11	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GK00477-02  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/02/23 14:31  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	30	mg/L		11/08/23 22:20	10	10	11/08/23 22:20	CRD	EPA 300.0 REV 2.1
Sulfate	550	mg/L		11/08/23 23:14	100	100	11/08/23 23:14	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	9.86	Feet		11/02/23 14:31	1		11/02/23 14:31	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		11/02/23 14:31	1		11/02/23 14:31	FIELD	Field*
Oxidation Reduction Potential	1.00	mV		11/02/23 14:31	1	-500	11/02/23 14:31	FIELD	Field*
pH, Field Measured	6.96	pH Units		11/02/23 14:31	1		11/02/23 14:31	FIELD	Field*
Specific Conductance, Field Measured	1795	umhos/cm		11/02/23 14:31	1		11/02/23 14:31	FIELD	Field*
Temperature, Field Measured	16.1	°C		11/02/23 14:31	1		11/02/23 14:31	FIELD	Field*
Turbidity, Field Measured	1.60	NTU		11/02/23 14:31	1	0.00	11/02/23 14:31	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	500	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
Fluoride	0.258	mg/L		11/13/23 10:51	1	0.250	11/13/23 10:51	TTH	SM 4500F C 1997
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		11/06/23 09:04	5	3.0	11/14/23 13:43	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:43	TJJ	EPA 6020A
Barium	84	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:43	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:43	TJJ	EPA 6020A
Boron	6000	ug/L		11/06/23 09:04	20	40	11/13/23 15:34	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:43	TJJ	EPA 6020A
Calcium	270	mg/L		11/06/23 09:04	5	0.20	11/14/23 13:43	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/06/23 09:04	5	4.0	11/14/23 13:43	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/06/23 09:04	5	2.0	11/14/23 13:43	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:43	TJJ	EPA 6020A
Magnesium	88	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:43	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/06/23 09:04	5	0.20	11/16/23 11:57	TJJ	EPA 6020A
Molybdenum	3.5	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:43	TJJ	EPA 6020A
Potassium	0.84	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:43	TJJ	EPA 6020A
Selenium	1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 17:03	KMC	EPA 6020A
Sodium	55	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:43	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:43	TJJ	EPA 6020A





### ANALYTICAL RESULTS

**Sample:** GK00477-02  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/02/23 14:31  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 20	ug/L		11/06/23 09:04	1	20	11/13/23 11:14	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GK00477-03  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 11/02/23 13:38  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	48	mg/L		11/08/23 23:50	10	10	11/08/23 23:50	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/08/23 23:32	1	0.250	11/08/23 23:32	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		11/08/23 23:32	1	1.0	11/08/23 23:32	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	26	Feet		11/02/23 13:38	1		11/02/23 13:38	FIELD	Field*
Dissolved oxygen, Field	0.86	mg/L		11/02/23 13:38	1		11/02/23 13:38	FIELD	Field*
Oxidation Reduction Potential	-126	mV		11/02/23 13:38	1	-500	11/02/23 13:38	FIELD	Field*
pH, Field Measured	6.71	pH Units		11/02/23 13:38	1		11/02/23 13:38	FIELD	Field*
Specific Conductance, Field Measured	2180	umhos/cm		11/02/23 13:38	1		11/02/23 13:38	FIELD	Field*
Temperature, Field Measured	14.6	°C		11/02/23 13:38	1		11/02/23 13:38	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		11/02/23 13:38	1	0.00	11/02/23 13:38	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	1100	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		11/06/23 09:04	5	3.0	11/14/23 13:47	TJJ	EPA 6020A
Arsenic	1.2	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:47	TJJ	EPA 6020A
Barium	1100	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:47	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/13/23 15:37	TJJ	EPA 6020A
Boron	420	ug/L		11/06/23 09:04	5	10	11/13/23 15:37	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:47	TJJ	EPA 6020A
Calcium	150	mg/L		11/06/23 09:04	5	0.20	11/14/23 13:47	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/06/23 09:04	5	4.0	11/14/23 13:47	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/06/23 09:04	5	2.0	11/14/23 13:47	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:47	TJJ	EPA 6020A
Magnesium	63	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:47	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/06/23 09:04	5	0.20	11/14/23 13:47	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:47	TJJ	EPA 6020A
Potassium	4.7	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:47	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 17:18	KMC	EPA 6020A
Sodium	260	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:47	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:47	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00477-03  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 11/02/23 13:38  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	29	ug/L		11/06/23 09:04	1	20	11/13/23 11:15	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GK00477-04  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 11/02/23 13:10  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	97	mg/L		11/09/23 00:26	10	10	11/09/23 00:26	CRD	EPA 300.0 REV 2.1
Fluoride	0.399	mg/L		11/09/23 00:08	1	0.250	11/09/23 00:08	CRD	EPA 300.0 REV 2.1
Sulfate	260	mg/L		11/09/23 00:44	100	100	11/09/23 00:44	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	17.69	Feet		11/02/23 13:10	1		11/02/23 13:10	FIELD	Field*
Dissolved oxygen, Field	2.4	mg/L		11/02/23 13:10	1		11/02/23 13:10	FIELD	Field*
Oxidation Reduction Potential	46.0	mV		11/02/23 13:10	1	-500	11/02/23 13:10	FIELD	Field*
pH, Field Measured	7.16	pH Units		11/02/23 13:10	1		11/02/23 13:10	FIELD	Field*
Specific Conductance, Field Measured	1100	umhos/cm		11/02/23 13:10	1		11/02/23 13:10	FIELD	Field*
Temperature, Field Measured	15.4	°C		11/02/23 13:10	1		11/02/23 13:10	FIELD	Field*
Turbidity, Field Measured	20.0	NTU		11/02/23 13:10	1	0.00	11/02/23 13:10	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	160	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		11/06/23 09:04	5	3.0	11/14/23 13:51	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:51	TJJ	EPA 6020A
Barium	51	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:51	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:51	TJJ	EPA 6020A
Boron	12000	ug/L		11/06/23 09:04	20	40	11/13/23 15:51	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:51	TJJ	EPA 6020A
Calcium	120	mg/L		11/06/23 09:04	5	0.20	11/14/23 13:51	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/06/23 09:04	5	4.0	11/14/23 13:51	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/06/23 09:04	5	2.0	11/14/23 13:51	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:51	TJJ	EPA 6020A
Magnesium	39	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:51	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/06/23 09:04	5	0.20	11/14/23 13:51	TJJ	EPA 6020A
Molybdenum	28	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:51	TJJ	EPA 6020A
Potassium	1.6	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:51	TJJ	EPA 6020A
Selenium	3.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 17:22	KMC	EPA 6020A
Sodium	62	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:51	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:51	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00477-04  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 11/02/23 13:10  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	< 20	ug/L		11/06/23 09:04	1	20	11/13/23 11:17	BRS	EPA 6010B





## ANALYTICAL RESULTS

**Sample:** GK00477-06  
**Name:** AW-16 FD  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 11/02/23 13:38  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	48	mg/L		11/09/23 01:39	10	10	11/09/23 01:39	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/09/23 01:20	1	0.250	11/09/23 01:20	CRD	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		11/09/23 01:20	1	1.0	11/09/23 01:20	CRD	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	26	Feet		11/02/23 13:38	1		11/02/23 13:38	FIELD	Field*
Dissolved oxygen, Field	0.86	mg/L		11/02/23 13:38	1		11/02/23 13:38	FIELD	Field*
Oxidation Reduction Potential	-126	mV		11/02/23 13:38	1	-500	11/02/23 13:38	FIELD	Field*
pH, Field Measured	6.71	pH Units		11/02/23 13:38	1		11/02/23 13:38	FIELD	Field*
Specific Conductance, Field Measured	2180	umhos/cm		11/02/23 13:38	1		11/02/23 13:38	FIELD	Field*
Temperature, Field Measured	14.6	°C		11/02/23 13:38	1		11/02/23 13:38	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		11/02/23 13:38	1	0.00	11/02/23 13:38	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	1100	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/13/23 09:44	1	10	11/13/23 09:44	CPS	SM 2320B 1997*
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		11/06/23 09:04	5	3.0	11/14/23 13:59	TJJ	EPA 6020A
Arsenic	1.1	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:59	TJJ	EPA 6020A
Barium	1100	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:59	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/13/23 15:57	TJJ	EPA 6020A
Boron	420	ug/L		11/06/23 09:04	5	10	11/13/23 15:57	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:59	TJJ	EPA 6020A
Calcium	150	mg/L		11/06/23 09:04	5	0.20	11/14/23 13:59	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/06/23 09:04	5	4.0	11/14/23 13:59	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/06/23 09:04	5	2.0	11/14/23 13:59	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:59	TJJ	EPA 6020A
Magnesium	63	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:59	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/06/23 09:04	5	0.20	11/14/23 13:59	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:59	TJJ	EPA 6020A
Potassium	4.7	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:59	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 17:30	KMC	EPA 6020A
Sodium	260	mg/L		11/06/23 09:04	5	0.10	11/14/23 13:59	TJJ	EPA 6020A
Thallium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 13:59	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00477-06

**Name:** AW-16 FD

**Matrix:** Ground Water - Field Duplicate

**Sampled:** 11/02/23 13:38

**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Lithium	31	ug/L		11/06/23 09:04	1	20	11/13/23 11:19	BRS	EPA 6010B



### ANALYTICAL RESULTS

Sample: GK00654-01  
Name: AP07S  
Matrix: Ground Water - Grab

Sampled: 11/03/23 13:20  
Received: 11/03/23 15:03

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	73	mg/L	Q4	11/09/23 16:03	50	50	11/09/23 16:03	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/09/23 13:03	1	0.250	11/09/23 13:03	TMS	EPA 300.0 REV 2.1
Sulfate	180	mg/L	Q4	11/09/23 16:03	50	50	11/09/23 16:03	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	25.15	Feet		11/03/23 13:20	1		11/03/23 13:20	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		11/03/23 13:20	1		11/03/23 13:20	FIELD	Field*
Oxidation Reduction Potential	-56.0	mV		11/03/23 13:20	1	-500	11/03/23 13:20	FIELD	Field*
pH, Field Measured	7.50	pH Units		11/03/23 13:20	1		11/03/23 13:20	FIELD	Field*
Specific Conductance, Field Measured	1320	umhos/cm		11/03/23 13:20	1		11/03/23 13:20	FIELD	Field*
Temperature, Field Measured	16.2	°C		11/03/23 13:20	1		11/03/23 13:20	FIELD	Field*
Turbidity, Field Measured	2.90	NTU		11/03/23 13:20	1	0.00	11/03/23 13:20	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	310	mg/L		11/15/23 13:05	1	10	11/15/23 13:05	LAL2/CP S	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/15/23 13:05	1	10	11/15/23 13:05	LAL2/CP S	SM 2320B 1997*
Solids - total dissolved solids (TDS)	720	mg/L		11/08/23 14:24	1	26	11/08/23 15:45	OGS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		11/06/23 09:04	5	3.0	11/14/23 14:33	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:33	TJJ	EPA 6020A
Barium	48	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:33	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:33	TJJ	EPA 6020A
Boron	8200	ug/L		11/06/23 09:04	20	40	11/13/23 16:05	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:33	TJJ	EPA 6020A
Calcium	130	mg/L		11/06/23 09:04	5	0.20	11/14/23 14:33	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/06/23 09:04	5	4.0	11/14/23 14:33	TJJ	EPA 6020A
Cobalt	2.6	ug/L		11/06/23 09:04	5	2.0	11/14/23 14:33	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:33	TJJ	EPA 6020A
Magnesium	49	mg/L		11/06/23 09:04	5	0.10	11/14/23 14:33	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/06/23 09:04	5	0.20	11/14/23 14:33	TJJ	EPA 6020A
Molybdenum	1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:33	TJJ	EPA 6020A
Potassium	0.48	mg/L		11/06/23 09:04	5	0.10	11/14/23 14:33	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 17:33	KMC	EPA 6020A
Sodium	63	mg/L		11/06/23 09:04	5	0.10	11/14/23 14:33	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00654-01  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/23 13:20  
**Received:** 11/03/23 15:03

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:33	TJJ	EPA 6020A
Lithium	< 20	ug/L		11/06/23 09:04	1	20	11/13/23 11:23	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GK00654-02  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/23 14:10  
**Received:** 11/03/23 15:03

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	33	mg/L		11/09/23 16:39	10	10	11/09/23 16:39	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/09/23 16:21	1	0.250	11/09/23 16:21	TMS	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		11/09/23 16:21	1	1.0	11/09/23 16:21	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	6.9	Feet		11/03/23 14:10	1		11/03/23 14:10	FIELD	Field*
Dissolved oxygen, Field	1.9	mg/L		11/03/23 14:10	1		11/03/23 14:10	FIELD	Field*
Oxidation Reduction Potential	-148	mV		11/03/23 14:10	1	-500	11/03/23 14:10	FIELD	Field*
pH, Field Measured	6.87	pH Units		11/03/23 14:10	1		11/03/23 14:10	FIELD	Field*
Specific Conductance, Field Measured	1850	umhos/cm		11/03/23 14:10	1		11/03/23 14:10	FIELD	Field*
Temperature, Field Measured	14.8	°C		11/03/23 14:10	1		11/03/23 14:10	FIELD	Field*
Turbidity, Field Measured	169	NTU		11/03/23 14:10	1	0.00	11/03/23 14:10	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	980	mg/L		11/15/23 13:05	1	10	11/15/23 13:05	LAL2/CP S	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/15/23 13:05	1	10	11/15/23 13:05	LAL2/CP S	SM 2320B 1997*
Solids - total dissolved solids (TDS)	870	mg/L		11/08/23 14:24	1	26	11/08/23 15:45	OGS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		11/06/23 09:04	5	3.0	11/14/23 14:37	TJJ	EPA 6020A
Arsenic	11	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:37	TJJ	EPA 6020A
Barium	840	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:37	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/13/23 16:08	TJJ	EPA 6020A
Boron	260	ug/L		11/06/23 09:04	5	10	11/13/23 16:08	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:37	TJJ	EPA 6020A
Calcium	160	mg/L		11/06/23 09:04	5	0.20	11/14/23 14:37	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/06/23 09:04	5	4.0	11/14/23 14:37	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/06/23 09:04	5	2.0	11/14/23 14:37	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:37	TJJ	EPA 6020A
Magnesium	72	mg/L		11/06/23 09:04	5	0.10	11/14/23 14:37	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/06/23 09:04	5	0.20	11/14/23 14:37	TJJ	EPA 6020A
Molybdenum	2.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:37	TJJ	EPA 6020A
Potassium	2.8	mg/L		11/06/23 09:04	5	0.10	11/14/23 14:37	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 17:37	KMC	EPA 6020A
Sodium	160	mg/L		11/06/23 09:04	5	0.10	11/14/23 14:37	TJJ	EPA 6020A





### ANALYTICAL RESULTS

**Sample:** GK00654-02  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/23 14:10  
**Received:** 11/03/23 15:03

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:37	TJJ	EPA 6020A
Lithium	< 20	ug/L		11/06/23 09:04	1	20	11/13/23 11:24	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GK00654-03  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/23 13:14  
**Received:** 11/03/23 15:03

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	28	mg/L		11/09/23 17:52	5	5.0	11/09/23 17:52	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/09/23 17:34	1	0.250	11/09/23 17:34	TMS	EPA 300.0 REV 2.1
Sulfate	6.5	mg/L		11/09/23 17:34	1	1.0	11/09/23 17:34	TMS	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	7.82	Feet		11/03/23 13:14	1		11/03/23 13:14	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		11/03/23 13:14	1		11/03/23 13:14	FIELD	Field*
Oxidation Reduction Potential	-128	mV		11/03/23 13:14	1	-500	11/03/23 13:14	FIELD	Field*
pH, Field Measured	6.76	pH Units		11/03/23 13:14	1		11/03/23 13:14	FIELD	Field*
Specific Conductance, Field Measured	1840	umhos/cm		11/03/23 13:14	1		11/03/23 13:14	FIELD	Field*
Temperature, Field Measured	14.5	°C		11/03/23 13:14	1		11/03/23 13:14	FIELD	Field*
Turbidity, Field Measured	330	NTU		11/03/23 13:14	1	0.00	11/03/23 13:14	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	1000	mg/L		11/15/23 13:05	1	10	11/15/23 13:05	LAL2/CP S	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/15/23 13:05	1	10	11/15/23 13:05	LAL2/CP S	SM 2320B 1997*
Solids - total dissolved solids (TDS)	980	mg/L		11/08/23 14:24	1	26	11/08/23 15:45	OGS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 3.0	ug/L		11/06/23 09:04	5	3.0	11/14/23 14:40	TJJ	EPA 6020A
Arsenic	4.1	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:40	TJJ	EPA 6020A
Barium	830	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:40	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:40	TJJ	EPA 6020A
Boron	240	ug/L		11/06/23 09:04	20	40	11/13/23 16:11	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:40	TJJ	EPA 6020A
Calcium	170	mg/L		11/06/23 09:04	5	0.20	11/14/23 14:40	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/06/23 09:04	5	4.0	11/14/23 14:40	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/06/23 09:04	5	2.0	11/14/23 14:40	TJJ	EPA 6020A
Lead	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:40	TJJ	EPA 6020A
Magnesium	69	mg/L		11/06/23 09:04	5	0.10	11/14/23 14:40	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/06/23 09:04	5	0.20	11/14/23 14:40	TJJ	EPA 6020A
Molybdenum	1.8	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:40	TJJ	EPA 6020A
Potassium	3.1	mg/L		11/06/23 09:04	5	0.10	11/14/23 14:40	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 17:41	KMC	EPA 6020A
Sodium	150	mg/L		11/06/23 09:04	5	0.10	11/14/23 14:40	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00654-03  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/23 13:14  
**Received:** 11/03/23 15:03

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		11/06/23 09:04	5	1.0	11/14/23 14:40	TJJ	EPA 6020A
Lithium	< 20	ug/L		11/06/23 09:04	1	20	11/13/23 11:25	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GK00898-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 11:00  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	46	mg/L	Q4	11/10/23 16:19	10	10	11/10/23 16:19	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/10/23 15:24	1	0.250	11/10/23 15:24	TMS	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L	Q3	11/10/23 15:24	1	1.0	11/10/23 15:24	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	6.3	Feet		11/06/23 11:00	1		11/06/23 11:00	FIELD	Field*
Dissolved oxygen, Field	1.5	mg/L		11/06/23 11:00	1		11/06/23 11:00	FIELD	Field*
Oxidation Reduction Potential	-127	mV		11/06/23 11:00	1	-500	11/06/23 11:00	FIELD	Field*
pH, Field Measured	6.80	pH Units		11/06/23 11:00	1		11/06/23 11:00	FIELD	Field*
Specific Conductance, Field Measured	1670	umhos/cm		11/06/23 11:00	1		11/06/23 11:00	FIELD	Field*
Temperature, Field Measured	15.6	°C		11/06/23 11:00	1		11/06/23 11:00	FIELD	Field*
Turbidity, Field Measured	531	NTU		11/06/23 11:00	1	0.00	11/06/23 11:00	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	800	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	960	mg/L		11/09/23 12:50	1	26	11/09/23 14:48	OGS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		11/09/23 07:19	5	3.0	11/14/23 16:55	TJJ	EPA 6020A
Arsenic	2.7	ug/L		11/09/23 07:19	5	1.0	11/14/23 16:55	TJJ	EPA 6020A
Barium	1000	ug/L		11/09/23 07:19	5	1.0	11/14/23 16:55	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/13/23 17:19	TJJ	EPA 6020A
Boron	330	ug/L		11/09/23 07:19	5	10	11/13/23 17:19	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 16:55	TJJ	EPA 6020A
Calcium	110	mg/L		11/09/23 07:19	5	0.20	11/14/23 16:55	TJJ	EPA 6020A
Chromium	6.7	ug/L		11/09/23 07:19	5	4.0	11/14/23 16:55	TJJ	EPA 6020A
Cobalt	4.2	ug/L		11/09/23 07:19	5	2.0	11/14/23 16:55	TJJ	EPA 6020A
Lead	3.8	ug/L		11/09/23 07:19	5	1.0	11/14/23 16:55	TJJ	EPA 6020A
Magnesium	48	mg/L		11/09/23 07:19	5	0.10	11/16/23 14:43	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/09/23 07:19	5	0.20	11/16/23 14:43	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 16:55	TJJ	EPA 6020A
Potassium	4.3	mg/L		11/09/23 07:19	5	0.10	11/14/23 16:55	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 15:48	KMC	EPA 6020A
Sodium	180	mg/L		11/09/23 07:19	5	0.10	11/15/23 12:41	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00898-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 11:00  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 16:55	TJJ	EPA 6020A
Lithium	32	ug/L		11/09/23 07:19	1	20	11/13/23 11:31	BRS	EPA 6010B





## ANALYTICAL RESULTS

**Sample:** GK00898-03  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 14:40  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	10	mg/L		11/10/23 17:31	5	5.0	11/10/23 17:31	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/10/23 17:13	1	0.250	11/10/23 17:13	TMS	EPA 300.0 REV 2.1
Sulfate	50	mg/L		11/10/23 17:31	5	5.0	11/10/23 17:31	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	9.9	Feet		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Oxidation Reduction Potential	-83.0	mV		11/06/23 14:40	1	-500	11/06/23 14:40	FIELD	Field*
pH, Field Measured	6.76	pH Units		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Specific Conductance, Field Measured	1340	umhos/cm		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Temperature, Field Measured	17.9	°C		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Turbidity, Field Measured	304	NTU		11/06/23 14:40	1	0.00	11/06/23 14:40	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	700	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	770	mg/L		11/09/23 12:50	1	26	11/09/23 14:48	OGS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		11/09/23 07:19	5	3.0	11/14/23 17:10	TJJ	EPA 6020A
Arsenic	12	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:10	TJJ	EPA 6020A
Barium	140	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:10	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/13/23 17:31	TJJ	EPA 6020A
Boron	86	ug/L		11/09/23 07:19	5	10	11/13/23 17:31	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:10	TJJ	EPA 6020A
Calcium	190	mg/L		11/09/23 07:19	5	0.20	11/14/23 17:10	TJJ	EPA 6020A
Chromium	4.1	ug/L		11/09/23 07:19	5	4.0	11/14/23 17:10	TJJ	EPA 6020A
Cobalt	6.0	ug/L		11/09/23 07:19	5	2.0	11/14/23 17:10	TJJ	EPA 6020A
Lead	2.2	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:10	TJJ	EPA 6020A
Magnesium	84	mg/L		11/09/23 07:19	5	0.10	11/16/23 14:54	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/09/23 07:19	5	0.20	11/16/23 14:54	TJJ	EPA 6020A
Molybdenum	3.4	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:10	TJJ	EPA 6020A
Potassium	0.77	mg/L		11/09/23 07:19	5	0.10	11/14/23 17:10	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 16:03	KMC	EPA 6020A
Sodium	18	mg/L		11/09/23 07:19	5	0.10	11/16/23 14:54	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00898-03  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 14:40  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:10	TJJ	EPA 6020A
Lithium	< 20	ug/L		11/09/23 07:19	1	20	11/13/23 11:38	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GK00898-04  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 15:47  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	81	mg/L		11/10/23 19:01	50	50	11/10/23 19:01	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/10/23 18:07	1	0.250	11/10/23 18:07	TMS	EPA 300.0 REV 2.1
Sulfate	5.7	mg/L		11/10/23 18:07	1	1.0	11/10/23 18:07	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	8.68	Feet		11/06/23 15:47	1		11/06/23 15:47	FIELD	Field*
Dissolved oxygen, Field	1.5	mg/L		11/06/23 15:47	1		11/06/23 15:47	FIELD	Field*
Oxidation Reduction Potential	-42.0	mV		11/06/23 15:47	1	-500	11/06/23 15:47	FIELD	Field*
pH, Field Measured	6.85	pH Units		11/06/23 15:47	1		11/06/23 15:47	FIELD	Field*
Specific Conductance, Field Measured	1730	umhos/cm		11/06/23 15:47	1		11/06/23 15:47	FIELD	Field*
Temperature, Field Measured	17.3	°C		11/06/23 15:47	1		11/06/23 15:47	FIELD	Field*
Turbidity, Field Measured	699	NTU		11/06/23 15:47	1	0.00	11/06/23 15:47	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	350	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1300	mg/L		11/09/23 12:50	1	26	11/09/23 14:48	OGS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		11/09/23 07:19	5	3.0	11/14/23 17:14	TJJ	EPA 6020A
Arsenic	3.2	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:14	TJJ	EPA 6020A
Barium	110	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:14	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:14	TJJ	EPA 6020A
Boron	11000	ug/L		11/09/23 07:19	20	40	11/13/23 17:34	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:14	TJJ	EPA 6020A
Calcium	180	mg/L		11/09/23 07:19	5	0.20	11/14/23 17:14	TJJ	EPA 6020A
Chromium	4.2	ug/L		11/09/23 07:19	5	4.0	11/14/23 17:14	TJJ	EPA 6020A
Cobalt	3.3	ug/L		11/09/23 07:19	5	2.0	11/14/23 17:14	TJJ	EPA 6020A
Lead	1.8	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:14	TJJ	EPA 6020A
Magnesium	92	mg/L		11/09/23 07:19	5	0.10	11/16/23 14:58	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/09/23 07:19	5	0.20	11/16/23 14:58	TJJ	EPA 6020A
Molybdenum	2.2	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:14	TJJ	EPA 6020A
Potassium	1.3	mg/L		11/09/23 07:19	5	0.10	11/14/23 17:14	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 16:07	KMC	EPA 6020A
Sodium	91	mg/L		11/09/23 07:19	5	0.10	11/16/23 14:58	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00898-04  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 15:47  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:14	TJJ	EPA 6020A
Lithium	< 20	ug/L		11/09/23 07:19	1	20	11/13/23 11:39	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GK00898-05  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 12:50  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	37	mg/L		11/10/23 19:37	10	10	11/10/23 19:37	TMS	EPA 300.0 REV 2.1
Fluoride	0.282	mg/L		11/10/23 19:19	1	0.250	11/10/23 19:19	TMS	EPA 300.0 REV 2.1
Sulfate	23	mg/L		11/10/23 19:37	10	10	11/10/23 19:37	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	27.43	Feet		11/06/23 12:50	1		11/06/23 12:50	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		11/06/23 12:50	1		11/06/23 12:50	FIELD	Field*
Oxidation Reduction Potential	-91.0	mV		11/06/23 12:50	1	-500	11/06/23 12:50	FIELD	Field*
pH, Field Measured	7.41	pH Units		11/06/23 12:50	1		11/06/23 12:50	FIELD	Field*
Specific Conductance, Field Measured	1120	umhos/cm		11/06/23 12:50	1		11/06/23 12:50	FIELD	Field*
Temperature, Field Measured	16.1	°C		11/06/23 12:50	1		11/06/23 12:50	FIELD	Field*
Turbidity, Field Measured	609	NTU		11/06/23 12:50	1	0.00	11/06/23 12:50	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	480	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	570	mg/L		11/09/23 12:50	1	26	11/09/23 14:48	OGS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		11/09/23 07:19	5	3.0	11/14/23 17:26	TJJ	EPA 6020A
Arsenic	4.4	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:26	TJJ	EPA 6020A
Barium	180	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:26	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/13/23 17:37	TJJ	EPA 6020A
Boron	150	ug/L		11/09/23 07:19	5	10	11/13/23 17:37	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:26	TJJ	EPA 6020A
Calcium	110	mg/L		11/09/23 07:19	5	0.20	11/14/23 17:26	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/09/23 07:19	5	4.0	11/14/23 17:26	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		11/09/23 07:19	5	2.0	11/14/23 17:26	TJJ	EPA 6020A
Lead	1.6	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:26	TJJ	EPA 6020A
Magnesium	49	mg/L		11/09/23 07:19	5	0.10	11/16/23 15:02	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/09/23 07:19	5	0.20	11/14/23 17:26	TJJ	EPA 6020A
Molybdenum	4.7	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:26	TJJ	EPA 6020A
Potassium	1.0	mg/L		11/09/23 07:19	5	0.10	11/14/23 17:26	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 16:11	KMC	EPA 6020A
Sodium	60	mg/L		11/09/23 07:19	5	0.10	11/16/23 15:02	TJJ	EPA 6020A





### ANALYTICAL RESULTS

**Sample:** GK00898-05  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 12:50

**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:26	TJJ	EPA 6020A
Lithium	< 20	ug/L		11/09/23 07:19	1	20	11/13/23 11:40	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GK00898-06  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 16:13  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b><u>Anions - PIA</u></b>									
Chloride	20	mg/L		11/10/23 20:14	5	5.0	11/10/23 20:14	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/10/23 19:56	1	0.250	11/10/23 19:56	TMS	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		11/10/23 19:56	1	1.0	11/10/23 19:56	TMS	EPA 300.0 REV 2.1
<b><u>Field - PIA</u></b>									
Depth, From Measuring Point	25.43	Feet		11/06/23 16:13	1		11/06/23 16:13	FIELD	Field*
Dissolved oxygen, Field	0.070	mg/L		11/06/23 16:13	1		11/06/23 16:13	FIELD	Field*
Oxidation Reduction Potential	-150	mV		11/06/23 16:13	1	-500	11/06/23 16:13	FIELD	Field*
pH, Field Measured	7.32	pH Units		11/06/23 16:13	1		11/06/23 16:13	FIELD	Field*
Specific Conductance, Field Measured	1550	umhos/cm		11/06/23 16:13	1		11/06/23 16:13	FIELD	Field*
Temperature, Field Measured	18.6	°C		11/06/23 16:13	1		11/06/23 16:13	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		11/06/23 16:13	1	0.00	11/06/23 16:13	FIELD	Field*
<b><u>General Chemistry - PIA</u></b>									
Alkalinity - bicarbonate as CaCO3	940	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	720	mg/L		11/09/23 12:50	1	26	11/09/23 14:48	OGS	SM 2540C
<b><u>Total Metals - PIA</u></b>									
Antimony	< 6.0	ug/L		11/09/23 07:19	10	6.0	11/14/23 17:30	TJJ	EPA 6020A
Arsenic	88	ug/L		11/09/23 07:19	50	10	11/16/23 15:06	TJJ	EPA 6020A
Barium	5800	ug/L		11/09/23 07:19	10	2.0	11/14/23 17:30	TJJ	EPA 6020A
Beryllium	24	ug/L		11/09/23 07:19	10	2.0	11/14/23 17:30	TJJ	EPA 6020A
Boron	350	ug/L		11/09/23 07:19	10	20	11/13/23 17:49	TJJ	EPA 6020A
Cadmium	15	ug/L		11/09/23 07:19	10	2.0	11/14/23 17:30	TJJ	EPA 6020A
Calcium	760	mg/L		11/09/23 07:19	10	0.40	11/14/23 17:30	TJJ	EPA 6020A
Chromium	680	ug/L		11/09/23 07:19	10	8.0	11/14/23 17:30	TJJ	EPA 6020A
Cobalt	400	ug/L		11/09/23 07:19	10	4.0	11/14/23 17:30	TJJ	EPA 6020A
Lead	420	ug/L		11/09/23 07:19	10	2.0	11/14/23 17:30	TJJ	EPA 6020A
Magnesium	450	mg/L		11/09/23 07:19	50	1.0	11/16/23 15:06	TJJ	EPA 6020A
Mercury	1.1	ug/L		11/09/23 07:19	10	0.40	11/14/23 17:30	TJJ	EPA 6020A
Molybdenum	14	ug/L		11/09/23 07:19	10	2.0	11/14/23 17:30	TJJ	EPA 6020A
Potassium	41	mg/L		11/09/23 07:19	10	0.20	11/14/23 17:30	TJJ	EPA 6020A
Selenium	15	ug/L		11/09/23 07:19	50	10	11/20/23 14:02	KMC	EPA 6020A
Sodium	93	mg/L		11/09/23 07:19	50	1.0	11/16/23 15:06	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00898-06  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 16:13  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	4.1	ug/L		11/09/23 07:19	10	2.0	11/14/23 17:30	TJJ	EPA 6020A
Lithium	660	ug/L		11/09/23 07:19	10	200	11/13/23 11:41	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GK00898-07  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 11:15  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	29	mg/L		11/10/23 20:50	5	5.0	11/10/23 20:50	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/10/23 20:32	1	0.250	11/10/23 20:32	TMS	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		11/10/23 20:32	1	1.0	11/10/23 20:32	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	27.17	Feet		11/06/23 11:15	1		11/06/23 11:15	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		11/06/23 11:15	1		11/06/23 11:15	FIELD	Field*
Oxidation Reduction Potential	-110	mV		11/06/23 11:15	1	-500	11/06/23 11:15	FIELD	Field*
pH, Field Measured	7.07	pH Units		11/06/23 11:15	1		11/06/23 11:15	FIELD	Field*
Specific Conductance, Field Measured	1480	umhos/cm		11/06/23 11:15	1		11/06/23 11:15	FIELD	Field*
Temperature, Field Measured	16.9	°C		11/06/23 11:15	1		11/06/23 11:15	FIELD	Field*
Turbidity, Field Measured	234	NTU		11/06/23 11:15	1	0.00	11/06/23 11:15	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	750	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	800	mg/L		11/09/23 12:50	1	26	11/09/23 14:48	OGS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		11/09/23 07:19	5	3.0	11/14/23 17:34	TJJ	EPA 6020A
Arsenic	24	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:34	TJJ	EPA 6020A
Barium	430	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:34	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/13/23 17:52	TJJ	EPA 6020A
Boron	310	ug/L		11/09/23 07:19	5	10	11/13/23 17:52	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:34	TJJ	EPA 6020A
Calcium	120	mg/L		11/09/23 07:19	5	0.20	11/14/23 17:34	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		11/09/23 07:19	5	4.0	11/14/23 17:34	TJJ	EPA 6020A
Cobalt	3.1	ug/L		11/09/23 07:19	5	2.0	11/14/23 17:34	TJJ	EPA 6020A
Lead	1.2	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:34	TJJ	EPA 6020A
Magnesium	50	mg/L		11/09/23 07:19	5	0.10	11/16/23 15:10	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/09/23 07:19	5	0.20	11/14/23 17:34	TJJ	EPA 6020A
Molybdenum	21	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:34	TJJ	EPA 6020A
Potassium	2.3	mg/L		11/09/23 07:19	5	0.10	11/14/23 17:34	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 16:29	KMC	EPA 6020A
Sodium	140	mg/L		11/09/23 07:19	5	0.10	11/16/23 15:10	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00898-07  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 11:15  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:34	TJJ	EPA 6020A
Lithium	< 20	ug/L		11/09/23 07:19	1	20	11/13/23 11:43	BRS	EPA 6010B





### ANALYTICAL RESULTS

Sample: GK00898-08  
Name: AW-10  
Matrix: Ground Water - Grab

Sampled: 11/06/23 14:40  
Received: 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	84	mg/L		11/10/23 21:26	25	25	11/10/23 21:26	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/10/23 21:08	1	0.250	11/10/23 21:08	TMS	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		11/10/23 21:08	1	1.0	11/10/23 21:08	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	2.39	Feet		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Oxidation Reduction Potential	-125	mV		11/06/23 14:40	1	-500	11/06/23 14:40	FIELD	Field*
pH, Field Measured	7.31	pH Units		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Specific Conductance, Field Measured	2190	umhos/cm		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Temperature, Field Measured	17.8	°C		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Turbidity, Field Measured	520	NTU		11/06/23 14:40	1	0.00	11/06/23 14:40	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	980	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		11/09/23 12:50	1	26	11/09/23 14:48	OGS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		11/09/23 07:19	5	3.0	11/14/23 17:38	TJJ	EPA 6020A
Arsenic	12	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:38	TJJ	EPA 6020A
Barium	1000	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:38	TJJ	EPA 6020A
Beryllium	1.3	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:38	TJJ	EPA 6020A
Boron	470	ug/L		11/09/23 07:19	5	10	11/13/23 17:55	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:38	TJJ	EPA 6020A
Calcium	140	mg/L		11/09/23 07:19	5	0.20	11/14/23 17:38	TJJ	EPA 6020A
Chromium	29	ug/L		11/09/23 07:19	5	4.0	11/14/23 17:38	TJJ	EPA 6020A
Cobalt	18	ug/L		11/09/23 07:19	5	2.0	11/14/23 17:38	TJJ	EPA 6020A
Lead	18	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:38	TJJ	EPA 6020A
Magnesium	74	mg/L		11/09/23 07:19	5	0.10	11/16/23 15:14	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/09/23 07:19	5	0.20	11/14/23 17:38	TJJ	EPA 6020A
Molybdenum	1.9	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:38	TJJ	EPA 6020A
Potassium	5.2	mg/L		11/09/23 07:19	5	0.10	11/14/23 17:38	TJJ	EPA 6020A
Selenium	1.1	ug/L		11/09/23 07:19	5	1.0	11/14/23 16:33	KMC	EPA 6020A
Sodium	260	mg/L		11/09/23 07:19	5	0.10	11/16/23 15:14	TJJ	EPA 6020A



### ANALYTICAL RESULTS

**Sample:** GK00898-08  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 14:40  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:38	TJJ	EPA 6020A
Lithium	58	ug/L		11/09/23 07:19	1	20	11/13/23 11:44	BRS	EPA 6010B



## ANALYTICAL RESULTS

**Sample:** GK00898-09  
**Name:** AW-01 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 11/06/23 14:40  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Anions - PIA</b>									
Chloride	9.8	mg/L		11/10/23 22:38	5	5.0	11/10/23 22:38	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		11/10/23 21:44	1	0.250	11/10/23 21:44	TMS	EPA 300.0 REV 2.1
Sulfate	48	mg/L		11/10/23 22:38	5	5.0	11/10/23 22:38	TMS	EPA 300.0 REV 2.1
<b>Field - PIA</b>									
Depth, From Measuring Point	9.9	Feet		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Oxidation Reduction Potential	-83.0	mV		11/06/23 14:40	1	-500	11/06/23 14:40	FIELD	Field*
pH, Field Measured	6.76	pH Units		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Specific Conductance, Field Measured	1340	umhos/cm		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Temperature, Field Measured	17.9	°C		11/06/23 14:40	1		11/06/23 14:40	FIELD	Field*
Turbidity, Field Measured	304	NTU		11/06/23 14:40	1	0.00	11/06/23 14:40	FIELD	Field*
<b>General Chemistry - PIA</b>									
Alkalinity - bicarbonate as CaCO3	700	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/15/23 17:00	1	10	11/16/23 12:07	CPS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	790	mg/L		11/09/23 12:50	1	26	11/09/23 14:48	OGS	SM 2540C
<b>Total Metals - PIA</b>									
Antimony	< 3.0	ug/L		11/09/23 07:19	5	3.0	11/14/23 17:41	TJJ	EPA 6020A
Arsenic	12	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:41	TJJ	EPA 6020A
Barium	140	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:41	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/13/23 17:58	TJJ	EPA 6020A
Boron	81	ug/L		11/09/23 07:19	5	10	11/13/23 17:58	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:41	TJJ	EPA 6020A
Calcium	190	mg/L		11/09/23 07:19	5	0.20	11/14/23 17:41	TJJ	EPA 6020A
Chromium	5.2	ug/L		11/09/23 07:19	5	4.0	11/14/23 17:41	TJJ	EPA 6020A
Cobalt	6.0	ug/L		11/09/23 07:19	5	2.0	11/14/23 17:41	TJJ	EPA 6020A
Lead	2.3	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:41	TJJ	EPA 6020A
Magnesium	83	mg/L		11/09/23 07:19	5	0.10	11/16/23 15:18	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		11/09/23 07:19	5	0.20	11/14/23 17:41	TJJ	EPA 6020A
Molybdenum	3.4	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:41	TJJ	EPA 6020A
Potassium	0.92	mg/L		11/09/23 07:19	5	0.10	11/14/23 17:41	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 16:37	KMC	EPA 6020A
Sodium	18	mg/L		11/09/23 07:19	5	0.10	11/16/23 15:18	TJJ	EPA 6020A



**ANALYTICAL RESULTS**

**Sample:** GK00898-09  
**Name:** AW-01 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 11/06/23 14:40  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		11/09/23 07:19	5	1.0	11/14/23 17:41	TJJ	EPA 6020A
Lithium	< 20	ug/L		11/09/23 07:19	1	20	11/13/23 11:45	BRS	EPA 6010B

**Sample:** GK00898-11  
**Name:** SG-01  
**Matrix:** Ground Water

**Sampled:** 10/27/23 15:46  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Field - PIA**

Depth, From Measuring Point	431	Feet		10/27/23 15:46	1		10/27/23 15:46	DAB	Field*
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**Sample:** GK00898-14  
**Name:** XPWO1A  
**Matrix:** Ground Water

**Sampled:** 10/27/23 13:46  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Field - PIA**

Depth, From Measuring Point	11.89	Feet		10/27/23 13:46	1		10/27/23 13:46	DAB	Field*
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**Sample:** GK00898-15  
**Name:** XPWO2  
**Matrix:** Ground Water

**Sampled:** 10/27/23 13:40  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Field - PIA**

Depth, From Measuring Point	21.63	Feet		10/27/23 13:40	1		10/27/23 13:40	DAB	Field*
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**Sample:** GK00898-16  
**Name:** XPWO3  
**Matrix:** Ground Water

**Sampled:** 10/27/23 13:35  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Field - PIA**

Depth, From Measuring Point	18.23	Feet		10/27/23 13:35	1		10/27/23 13:35	DAB	Field*
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**ANALYTICAL RESULTS**

**Sample:** GK03315-01  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 11/17/23 11:13  
**Received:** 11/17/23 12:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	1000	mg/L		11/17/23 15:35	1	26	11/17/23 16:23	OGS	SM 2540C

**Sample:** GK03315-02  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/17/23 11:37  
**Received:** 11/17/23 12:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	1200	mg/L		11/17/23 15:35	1	26	11/17/23 16:23	OGS	SM 2540C

**Sample:** GK03315-03  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 11/17/23 10:43  
**Received:** 11/17/23 12:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	1100	mg/L	M	11/17/23 15:35	1	26	11/17/23 16:23	OGS	SM 2540C

**Sample:** GK03315-04  
**Name:** AW-16 FD  
**Matrix:** Ground Water - Grab

**Sampled:** 11/17/23 10:43  
**Received:** 11/17/23 12:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	1100	mg/L		11/17/23 15:35	1	26	11/17/23 16:23	OGS	SM 2540C





### ANALYTICAL RESULTS

**Sample:** GK03315-05  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 11/17/23 10:03  
**Received:** 11/17/23 12:12

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>General Chemistry - PIA</b>									
Solids - total dissolved solids (TDS)	690	mg/L		11/17/23 15:35	1	26	11/17/23 16:23	OGS	SM 2540C



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B348049 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B348049-BLK1)</b>				Prepared: 11/02/23 Analyzed: 11/06/23					
Lithium	< 20	ug/L							
<b>LCS (B348049-BS1)</b>				Prepared: 11/02/23 Analyzed: 11/06/23					
Lithium	523	ug/L		555.6		94	80-120		
<b>Matrix Spike (B348049-MS1)</b>				Sample: GJ04997-11 Prepared: 11/02/23 Analyzed: 11/06/23					
Lithium	542	ug/L		555.6	23.3	93	75-125		
<b>Matrix Spike Dup (B348049-MSD1)</b>				Sample: GJ04997-11 Prepared: 11/02/23 Analyzed: 11/06/23					
Lithium	565	ug/L		555.6	23.3	98	75-125	4	20
<b><u>Batch B348049 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B348049-BLK1)</b>				Prepared: 11/02/23 Analyzed: 11/09/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
<b>Blank (B348049-BLK2)</b>				Prepared: 11/02/23 Analyzed: 11/14/23					
Selenium	< 1.0	ug/L							
<b>LCS (B348049-BS1)</b>				Prepared: 11/02/23 Analyzed: 11/09/23					
Antimony	563	ug/L		555.6		101	80-120		
Arsenic	552	ug/L		555.6		99	80-120		
Barium	540	ug/L		555.6		97	80-120		
Beryllium	534	ug/L		555.6		96	80-120		
Boron	500	ug/L		555.6		90	80-120		
Cadmium	532	ug/L		555.6		96	80-120		
Calcium	5.60	mg/L		5.556		101	80-120		
Chromium	548	ug/L		555.6		99	80-120		
Cobalt	544	ug/L		555.6		98	80-120		
Lead	539	ug/L		555.6		97	80-120		
Magnesium	5.60	mg/L		5.556		101	80-120		
Mercury	52.1	ug/L		55.56		94	80-120		
Molybdenum	530	ug/L		555.6		95	80-120		
Potassium	5.47	mg/L		5.556		99	80-120		



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>LCS (B348049-BS1)</b>				Prepared: 11/02/23 Analyzed: 11/10/23					
Selenium	582	ug/L		555.6		105	80-120		
Sodium	5.59	mg/L		5.556		101	80-120		
Thallium	536	ug/L		555.6		97	80-120		
<b>LCS (B348049-BS4)</b>				Prepared: 11/02/23 Analyzed: 11/14/23					
Selenium	587	ug/L		555.6		106	80-120		
<b>Matrix Spike (B348049-MS1)</b>				Sample: GJ04997-11		Prepared: 11/02/23 Analyzed: 11/09/23			
Antimony	438	ug/L		555.6	0.594	79	75-125		
Arsenic	522	ug/L		555.6	28.5	89	75-125		
Barium	727	ug/L		555.6	219	92	75-125		
Beryllium	514	ug/L		555.6	1.36	92	75-125		
Boron	5440	ug/L		555.6	4970	85	75-125		
Cadmium	529	ug/L		555.6	ND	95	75-125		
Calcium	233	mg/L	Q4	5.556	229	70	75-125		
Chromium	570	ug/L		555.6	36.7	96	75-125		
Cobalt	542	ug/L		555.6	24.4	93	75-125		
Lead	563	ug/L		555.6	33.7	95	75-125		
Magnesium	93.0	mg/L	Q4	5.556	89.6	60	75-125		
Mercury	52.0	ug/L		55.56	0.156	93	75-125		
Molybdenum	538	ug/L		555.6	9.36	95	75-125		
Potassium	9.46	mg/L		5.556	4.16	95	75-125		
Selenium	491	ug/L		555.6	3.09	88	75-125		
Sodium	104	mg/L	Q4	5.556	101	58	75-125		
Thallium	521	ug/L		555.6	0.422	94	75-125		
<b>Matrix Spike Dup (B348049-MSD1)</b>				Sample: GJ04997-11		Prepared: 11/02/23 Analyzed: 11/09/23			
Antimony	413	ug/L	Q2	555.6	0.594	74	75-125	6	20
Arsenic	521	ug/L		555.6	28.5	89	75-125	0.3	20
Barium	737	ug/L		555.6	219	93	75-125	1	20
Beryllium	501	ug/L		555.6	1.36	90	75-125	3	20
Boron	5330	ug/L	Q4	555.6	4970	66	75-125	2	20
Cadmium	533	ug/L		555.6	ND	96	75-125	0.8	20
Calcium	235	mg/L		5.556	229	108	75-125	0.9	20
Chromium	574	ug/L		555.6	36.7	97	75-125	0.6	20
Cobalt	540	ug/L		555.6	24.4	93	75-125	0.3	20
Lead	557	ug/L		555.6	33.7	94	75-125	1	20
Magnesium	93.8	mg/L		5.556	89.6	76	75-125	0.9	20
Mercury	53.8	ug/L		55.56	0.156	96	75-125	3	20
Molybdenum	543	ug/L		555.6	9.36	96	75-125	1	20
Potassium	9.90	mg/L		5.556	4.16	103	75-125	5	20
Selenium	482	ug/L		555.6	3.09	86	75-125	2	20
Sodium	104	mg/L	Q4	5.556	101	58	75-125	0.002	20
Thallium	521	ug/L		555.6	0.422	94	75-125	0.05	20
<b><u>Batch B348082 - No Prep - SM 2540C</u></b>									
<b>Blank (B348082-BLK1)</b>				Prepared & Analyzed: 11/02/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B348082-BS1)</b>				Prepared & Analyzed: 11/02/23					
Solids - total dissolved solids (TDS)	973	mg/L		1000		97	84.9-109		



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Duplicate (B348082-DUP1)</b>				Sample: GK00258-01		Prepared & Analyzed: 11/02/23			
Solids - total dissolved solids (TDS)	1010	mg/L			1040			2	5
<b>Duplicate (B348082-DUP2)</b>				Sample: GK00258-02		Prepared & Analyzed: 11/02/23			
Solids - total dissolved solids (TDS)	955	mg/L	M		795			18	5
<b><u>Batch B348302 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B348302-BLK1)</b>				Prepared: 11/06/23 Analyzed: 11/13/23					
Lithium	< 20	ug/L							
<b>LCS (B348302-BS1)</b>				Prepared: 11/06/23 Analyzed: 11/13/23					
Lithium	550	ug/L		555.6		99	80-120		
<b>Matrix Spike (B348302-MS1)</b>				Sample: GK00477-01		Prepared: 11/06/23 Analyzed: 11/13/23			
Lithium	561	ug/L		555.6	28.7	96	75-125		
<b>Matrix Spike Dup (B348302-MSD1)</b>				Sample: GK00477-01		Prepared: 11/06/23 Analyzed: 11/13/23			
Lithium	563	ug/L		555.6	28.7	96	75-125	0.5	20
<b><u>Batch B348302 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B348302-BLK1)</b>				Prepared: 11/06/23 Analyzed: 11/14/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
<b>LCS (B348302-BS1)</b>				Prepared: 11/06/23 Analyzed: 11/14/23					
Antimony	547	ug/L		555.6		98	80-120		
Arsenic	559	ug/L		555.6		101	80-120		
Barium	526	ug/L		555.6		95	80-120		
Beryllium	586	ug/L		555.6		105	80-120		
Boron	543	ug/L		555.6		98	80-120		
Cadmium	555	ug/L		555.6		100	80-120		
Calcium	5.83	mg/L		5.556		105	80-120		
Chromium	584	ug/L		555.6		105	80-120		
Cobalt	597	ug/L		555.6		108	80-120		
Lead	577	ug/L		555.6		104	80-120		
Magnesium	6.23	mg/L		5.556		112	80-120		
Mercury	53.6	ug/L		55.56		97	80-120		
Molybdenum	544	ug/L		555.6		98	80-120		



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>LCS (B348302-BS1)</b>				Prepared: 11/06/23 Analyzed: 11/14/23					
Potassium	6.12	mg/L		5.556		110	80-120		
Selenium	555	ug/L		555.6		100	80-120		
Sodium	6.25	mg/L		5.556		113	80-120		
Thallium	569	ug/L		555.6		102	80-120		
<b>Matrix Spike (B348302-MS1)</b>				Sample: GK00477-01		Prepared: 11/06/23 Analyzed: 11/14/23			
Antimony	539	ug/L		555.6	ND	97	75-125		
Arsenic	565	ug/L		555.6	1.84	101	75-125		
Barium	2390	ug/L		555.6	1850	96	75-125		
Beryllium	585	ug/L		555.6	ND	105	75-125		
Boron	915	ug/L		555.6	396	93	75-125		
Cadmium	565	ug/L		555.6	ND	102	75-125		
Calcium	146	mg/L	Q4	5.556	142	71	75-125		
Chromium	589	ug/L		555.6	ND	106	75-125		
Cobalt	604	ug/L		555.6	1.67	108	75-125		
Lead	567	ug/L		555.6	ND	102	75-125		
Magnesium	64.0	mg/L		5.556	59.1	89	75-125		
Mercury	56.4	ug/L		55.56	0.150	101	75-125		
Molybdenum	571	ug/L		555.6	ND	103	75-125		
Potassium	10.4	mg/L		5.556	4.45	107	75-125		
Selenium	564	ug/L		555.6	0.356	101	75-125		
Sodium	222	mg/L	Q4	5.556	221	15	75-125		
Thallium	557	ug/L		555.6	ND	100	75-125		
<b>Matrix Spike Dup (B348302-MSD1)</b>				Sample: GK00477-01		Prepared: 11/06/23 Analyzed: 11/14/23			
Antimony	541	ug/L		555.6	ND	97	75-125	0.4	20
Arsenic	563	ug/L		555.6	1.84	101	75-125	0.3	20
Barium	2400	ug/L		555.6	1850	99	75-125	0.6	20
Beryllium	589	ug/L		555.6	ND	106	75-125	0.8	20
Boron	928	ug/L		555.6	396	96	75-125	1	20
Cadmium	560	ug/L		555.6	ND	101	75-125	1	20
Calcium	147	mg/L		5.556	142	83	75-125	0.5	20
Chromium	580	ug/L		555.6	ND	104	75-125	2	20
Cobalt	598	ug/L		555.6	1.67	107	75-125	1	20
Lead	564	ug/L		555.6	ND	101	75-125	0.7	20
Magnesium	63.7	mg/L		5.556	59.1	83	75-125	0.5	20
Mercury	54.7	ug/L		55.56	0.150	98	75-125	3	20
Molybdenum	561	ug/L		555.6	ND	101	75-125	2	20
Potassium	10.4	mg/L		5.556	4.45	106	75-125	0.5	20
Selenium	561	ug/L		555.6	0.356	101	75-125	0.7	20
Sodium	222	mg/L	Q4	5.556	221	23	75-125	0.2	20
Thallium	551	ug/L		555.6	ND	99	75-125	1	20
<b>Batch B348625 - No Prep - SM 2540C</b>									
<b>Blank (B348625-BLK1)</b>				Prepared & Analyzed: 11/08/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B348625-BS1)</b>				Prepared & Analyzed: 11/08/23					
Solids - total dissolved solids (TDS)	940	mg/L		1000		94	84.9-109		
<b>Duplicate (B348625-DUP1)</b>				Sample: GK00676-16		Prepared & Analyzed: 11/08/23			





**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Duplicate (B348625-DUP1)</b>				Sample: GK00676-16		Prepared & Analyzed: 11/08/23			
Solids - total dissolved solids (TDS)	980	mg/L			985			0.5	5
<b>Duplicate (B348625-DUP2)</b>				Sample: GK00696-01		Prepared & Analyzed: 11/08/23			
Solids - total dissolved solids (TDS)	5050	mg/L			5090			0.8	5
<b><u>Batch B348662 - SW 3015 - EPA 6010B</u></b>									
<b>Blank (B348662-BLK1)</b>				Prepared: 11/09/23 Analyzed: 11/13/23					
Lithium	< 20	ug/L							
<b>LCS (B348662-BS1)</b>				Prepared: 11/09/23 Analyzed: 11/13/23					
Lithium	573	ug/L		555.6		103	80-120		
<b>Matrix Spike (B348662-MS1)</b>				Sample: GK00898-01		Prepared: 11/09/23 Analyzed: 11/13/23			
Lithium	563	ug/L		555.6	31.7	96	75-125		
<b>Matrix Spike Dup (B348662-MSD1)</b>				Sample: GK00898-01		Prepared: 11/09/23 Analyzed: 11/13/23			
Lithium	580	ug/L		555.6	31.7	99	75-125	3	20
<b><u>Batch B348662 - SW 3015 - EPA 6020A</u></b>									
<b>Blank (B348662-BLK1)</b>				Prepared: 11/09/23 Analyzed: 11/14/23					
Antimony	< 3.0	ug/L							
Arsenic	< 1.0	ug/L							
Barium	< 1.0	ug/L							
Beryllium	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Calcium	< 0.20	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Mercury	< 0.20	ug/L							
Molybdenum	< 1.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Sodium	< 0.10	mg/L							
Thallium	< 1.0	ug/L							
<b>LCS (B348662-BS1)</b>				Prepared: 11/09/23 Analyzed: 11/14/23					
Antimony	545	ug/L		555.6		98	80-120		
Arsenic	552	ug/L		555.6		99	80-120		
Barium	516	ug/L		555.6		93	80-120		
Beryllium	585	ug/L		555.6		105	80-120		
Boron	547	ug/L		555.6		99	80-120		
Cadmium	562	ug/L		555.6		101	80-120		
Calcium	6.38	mg/L		5.556		115	80-120		
Chromium	594	ug/L		555.6		107	80-120		
Cobalt	612	ug/L		555.6		110	80-120		
Lead	580	ug/L		555.6		104	80-120		
Magnesium	5.91	mg/L		5.556		106	80-120		
Mercury	51.2	ug/L		55.56		92	80-120		
Molybdenum	554	ug/L		555.6		100	80-120		



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>LCS (B348662-BS1)</b>				Prepared: 11/09/23 Analyzed: 11/14/23					
Potassium	6.17	mg/L		5.556		111	80-120		
Selenium	581	ug/L		555.6		105	80-120		
Sodium	5.93	mg/L		5.556		107	80-120		
Thallium	567	ug/L		555.6		102	80-120		
<b>Matrix Spike (B348662-MS1)</b>				Sample: GK00898-01		Prepared: 11/09/23 Analyzed: 11/14/23			
Antimony	510	ug/L		555.6	ND	92	75-125		
Arsenic	538	ug/L		555.6	2.67	96	75-125		
Barium	1600	ug/L		555.6	1040	100	75-125		
Beryllium	571	ug/L		555.6	ND	103	75-125		
Boron	869	ug/L		555.6	331	97	75-125		
Cadmium	554	ug/L		555.6	ND	100	75-125		
Calcium	114	mg/L		5.556	108	109	75-125		
Chromium	588	ug/L		555.6	6.66	105	75-125		
Cobalt	599	ug/L		555.6	4.17	107	75-125		
Lead	571	ug/L		555.6	3.84	102	75-125		
Magnesium	54.8	mg/L	Q4	5.556	48.4	115	75-125		
Mercury	54.1	ug/L		55.56	0.178	97	75-125		
Molybdenum	554	ug/L		555.6	0.817	100	75-125		
Potassium	10.3	mg/L		5.556	4.35	107	75-125		
Selenium	550	ug/L		555.6	0.472	99	75-125		
Thallium	552	ug/L		555.6	ND	99	75-125		
<b>Matrix Spike Dup (B348662-MSD1)</b>				Sample: GK00898-01		Prepared: 11/09/23 Analyzed: 11/14/23			
Antimony	512	ug/L		555.6	ND	92	75-125	0.3	20
Arsenic	541	ug/L		555.6	2.67	97	75-125	0.6	20
Barium	1590	ug/L		555.6	1040	98	75-125	0.7	20
Beryllium	586	ug/L		555.6	ND	106	75-125	3	20
Boron	876	ug/L		555.6	331	98	75-125	0.8	20
Cadmium	558	ug/L		555.6	ND	100	75-125	0.8	20
Calcium	112	mg/L		5.556	108	83	75-125	1	20
Chromium	587	ug/L		555.6	6.66	104	75-125	0.1	20
Cobalt	604	ug/L		555.6	4.17	108	75-125	0.7	20
Lead	570	ug/L		555.6	3.84	102	75-125	0.2	20
Magnesium	54.5	mg/L	Q4	5.556	48.4	110	75-125	0.5	20
Mercury	54.5	ug/L		55.56	0.178	98	75-125	0.6	20
Molybdenum	558	ug/L		555.6	0.817	100	75-125	0.8	20
Potassium	10.3	mg/L		5.556	4.35	106	75-125	0.6	20
Selenium	551	ug/L		555.6	0.472	99	75-125	0.3	20
Thallium	551	ug/L		555.6	ND	99	75-125	0.2	20
<b>Batch B348706 - IC No Prep - EPA 300.0 REV 2.1</b>									
<b>Calibration Blank (B348706-CCB1)</b>				Prepared & Analyzed: 11/08/23					
Fluoride	0.00	mg/L							
Chloride	0.00	mg/L							
Sulfate	0.00	mg/L							
<b>Calibration Check (B348706-CCV1)</b>				Prepared & Analyzed: 11/08/23					
Chloride	5.01	mg/L		5.000		100	90-110		
Fluoride	5.22	mg/L		5.000		104	90-110		



**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Calibration Check (B348706-CCV1)</b>				Prepared & Analyzed: 11/08/23					
Sulfate	4.98	mg/L		5.000		100	90-110		
<b>Matrix Spike (B348706-MS1)</b>				Sample: GK00477-01 Prepared & Analyzed: 11/09/23					
Chloride	< 1.0	mg/L	Q4	1.500	34	NR	80-120		
Sulfate	1.62	mg/L		1.500	0.208	94	80-120		
Fluoride	1.34	mg/L		1.500	ND	89	80-120		
<b>Matrix Spike Dup (B348706-MSD1)</b>				Sample: GK00477-01 Prepared & Analyzed: 11/09/23					
Chloride	1.0E9	mg/L	Q4	1.500	34	NR	80-120		20
Sulfate	1.72	mg/L		1.500	0.208	101	80-120	6	20
Fluoride	1.53	mg/L		1.500	ND	102	80-120	13	20
<b><u>Batch B348707 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B348707-CCB1)</b>				Prepared & Analyzed: 11/08/23					
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.00	mg/L							
<b>Calibration Check (B348707-CCV1)</b>				Prepared & Analyzed: 11/08/23					
Sulfate	4.95	mg/L		5.000		99	90-110		
Chloride	5.05	mg/L		5.000		101	90-110		
Fluoride	5.20	mg/L		5.000		104	90-110		
<b>Matrix Spike (B348707-MS1)</b>				Sample: GK00258-01 Prepared & Analyzed: 11/08/23					
Chloride	< 1.0	mg/L	Q4	1.500	53	NR	80-120		
Sulfate	1.50	mg/L		1.500	ND	100	80-120		
Fluoride	1.24	mg/L	Q1	1.500	0.0458	80	80-120		
<b>Matrix Spike Dup (B348707-MSD1)</b>				Sample: GK00258-01 Prepared & Analyzed: 11/08/23					
Fluoride	1.21	mg/L	Q2	1.500	0.0458	77	80-120	3	20
Sulfate	1.36	mg/L		1.500	ND	91	80-120	10	20
Chloride	< 1.0	mg/L	Q4	1.500	53	NR	80-120		20
<b><u>Batch B348728 - No Prep - SM 2540C</u></b>									
<b>Blank (B348728-BLK1)</b>				Prepared & Analyzed: 11/09/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B348728-BS1)</b>				Prepared & Analyzed: 11/09/23					
Solids - total dissolved solids (TDS)	953	mg/L		1000		95	84.9-109		
<b>Duplicate (B348728-DUP1)</b>				Sample: GK00898-02 Prepared & Analyzed: 11/09/23					
Solids - total dissolved solids (TDS)	945	mg/L				975		3	5
<b>Duplicate (B348728-DUP2)</b>				Sample: GK00898-06 Prepared & Analyzed: 11/09/23					
Solids - total dissolved solids (TDS)	695	mg/L				725		4	5
<b><u>Batch B348876 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B348876-CCB1)</b>				Prepared & Analyzed: 11/09/23					
Chloride	0.00	mg/L							
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
<b>Calibration Check (B348876-CCV1)</b>				Prepared & Analyzed: 11/09/23					
Fluoride	4.92	mg/L		5.000		98	90-110		
Chloride	4.84	mg/L		5.000		97	90-110		
Sulfate	4.85	mg/L		5.000		97	90-110		



### QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike (B348876-MS1)</b>				Sample: GK00654-01		Prepared & Analyzed: 11/09/23			
Fluoride	1.63	mg/L		1.500	0.229	93	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	184	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	73	NR	80-120		
<b>Matrix Spike (B348876-MS2)</b>				Sample: GK01692-01		Prepared & Analyzed: 11/09/23			
Sulfate	1.00E9	mg/L	Q4	1.500	316	NR	80-120		
<b>Matrix Spike Dup (B348876-MSD1)</b>				Sample: GK00654-01		Prepared & Analyzed: 11/09/23			
Fluoride	1.64	mg/L		1.500	0.229	94	80-120	1	20
Chloride	1.0E9	mg/L	Q4	1.500	73	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	184	NR	80-120	0	20
<b>Matrix Spike Dup (B348876-MSD2)</b>				Sample: GK01692-01		Prepared & Analyzed: 11/09/23			
Sulfate	1.00E9	mg/L	Q4	1.500	316	NR	80-120	0	20
<b><u>Batch B348981 - No Prep - SM 4500F C 1997</u></b>									
<b>Calibration Blank (B348981-CCB1)</b>				Prepared & Analyzed: 11/13/23					
Fluoride	0.00300	mg/L							
<b>Calibration Blank (B348981-CCB2)</b>				Prepared & Analyzed: 11/13/23					
Fluoride	0.0170	mg/L							
<b>Calibration Check (B348981-CCV1)</b>				Prepared & Analyzed: 11/13/23					
Fluoride	0.678	mg/L		0.7000		97	90-110		
<b>Calibration Check (B348981-CCV2)</b>				Prepared & Analyzed: 11/13/23					
Fluoride	0.743	mg/L		0.7000		106	90-110		
<b>Matrix Spike (B348981-MS1)</b>				Sample: GK00477-02		Prepared & Analyzed: 11/13/23			
Fluoride	1.30	mg/L		1.000	0.258	104	80-120		
<b>Matrix Spike (B348981-MS2)</b>				Sample: GK00851-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.72	mg/L		1.000	0.665	106	80-120		
<b>Matrix Spike (B348981-MS3)</b>				Sample: GK01076-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.79	mg/L		1.000	0.718	108	80-120		
<b>Matrix Spike (B348981-MS4)</b>				Sample: GK01082-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.72	mg/L		1.000	0.669	105	80-120		
<b>Matrix Spike (B348981-MS5)</b>				Sample: GK01233-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.57	mg/L		1.000	0.566	100	80-120		
<b>Matrix Spike (B348981-MS6)</b>				Sample: GK01247-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.79	mg/L		1.000	0.225	157	80-120		
<b>Matrix Spike (B348981-MS7)</b>				Sample: GK01316-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.84	mg/L		1.000	0.643	120	80-120		
<b>Matrix Spike (B348981-MS8)</b>				Sample: GK01354-03		Prepared & Analyzed: 11/13/23			
Fluoride	1.77	mg/L		1.000	0.636	113	80-120		
<b>Matrix Spike (B348981-MS9)</b>				Sample: GK01247-06		Prepared & Analyzed: 11/13/23			
Fluoride	1.21	mg/L		1.000	0.135	108	80-120		
<b>Matrix Spike (B348981-MSA)</b>				Sample: GK01393-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.66	mg/L		1.000	0.662	100	80-120		
<b>Matrix Spike Dup (B348981-MSD1)</b>				Sample: GK00477-02		Prepared & Analyzed: 11/13/23			
Fluoride	1.31	mg/L		1.000	0.258	105	80-120	0.6	20
<b>Matrix Spike Dup (B348981-MSD2)</b>				Sample: GK00851-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.70	mg/L		1.000	0.665	104	80-120	1	20
<b>Matrix Spike Dup (B348981-MSD3)</b>				Sample: GK01076-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.80	mg/L		1.000	0.718	108	80-120	0.4	20



### QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b>Matrix Spike Dup (B348981-MSD4)</b>				Sample: GK01082-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.74	mg/L		1.000	0.669	107	80-120	1	20
<b>Matrix Spike Dup (B348981-MSD5)</b>				Sample: GK01233-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.64	mg/L		1.000	0.566	108	80-120	5	20
<b>Matrix Spike Dup (B348981-MSD6)</b>				Sample: GK01247-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.76	mg/L		1.000	0.225	154	80-120	1	20
<b>Matrix Spike Dup (B348981-MSD7)</b>				Sample: GK01316-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.73	mg/L		1.000	0.643	108	80-120	7	20
<b>Matrix Spike Dup (B348981-MSD8)</b>				Sample: GK01354-03		Prepared & Analyzed: 11/13/23			
Fluoride	1.68	mg/L		1.000	0.636	105	80-120	5	20
<b>Matrix Spike Dup (B348981-MSD9)</b>				Sample: GK01247-06		Prepared & Analyzed: 11/13/23			
Fluoride	1.17	mg/L		1.000	0.135	103	80-120	4	20
<b>Matrix Spike Dup (B348981-MSDA)</b>				Sample: GK01393-01		Prepared & Analyzed: 11/13/23			
Fluoride	1.76	mg/L		1.000	0.662	110	80-120	6	20
<b><u>Batch B349001 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B349001-DUP1)</b>				Sample: GJ05390-01		Prepared & Analyzed: 11/13/23			
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	500	mg/L			500			0	10
<b>Duplicate (B349001-DUP2)</b>				Sample: GK00258-01		Prepared & Analyzed: 11/13/23			
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	875	mg/L			888			1	10
<b>Duplicate (B349001-DUP3)</b>				Sample: GK00477-01		Prepared & Analyzed: 11/13/23			
Alkalinity - bicarbonate as CaCO3	1000	mg/L			1000			0	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
<b><u>Batch B349006 - IC No Prep - EPA 300.0 REV 2.1</u></b>									
<b>Calibration Blank (B349006-CCB1)</b>				Prepared & Analyzed: 11/10/23					
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.155	mg/L							
<b>Calibration Check (B349006-CCV1)</b>				Prepared & Analyzed: 11/10/23					
Sulfate	5.16	mg/L		5.000		103	90-110		
Fluoride	5.19	mg/L		5.000		104	90-110		
Chloride	5.08	mg/L		5.000		102	90-110		
<b>Matrix Spike (B349006-MS1)</b>				Sample: GK00898-01		Prepared & Analyzed: 11/10/23			
Sulfate	2.41	mg/L	Q1	1.500	ND	160	80-120		
Chloride	< 1.0	mg/L	Q4	1.500	46	NR	80-120		
Fluoride	1.30	mg/L		1.500	ND	86	80-120		
<b>Matrix Spike Dup (B349006-MSD1)</b>				Sample: GK00898-01		Prepared & Analyzed: 11/10/23			
Fluoride	1.29	mg/L		1.500	ND	86	80-120	0.6	20
Sulfate	2.39	mg/L	Q2	1.500	ND	159	80-120	0.8	20
Chloride	< 1.0	mg/L	Q4	1.500	46	NR	80-120		20
<b><u>Batch B349286 - No Prep - SM 2320B 1997</u></b>									
<b>Duplicate (B349286-DUP1)</b>				Sample: GK00654-01		Prepared & Analyzed: 11/15/23			
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	300	mg/L			312			4	10





**QC SAMPLE RESULTS**

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<b><u>Batch B349543 - No Prep - SM 2540C</u></b>									
<b>Blank (B349543-BLK1)</b>				Prepared & Analyzed: 11/17/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
<b>LCS (B349543-BS1)</b>				Prepared & Analyzed: 11/17/23					
Solids - total dissolved solids (TDS)	950	mg/L		1000		95	84.9-109		
<b>Duplicate (B349543-DUP1)</b>				Sample: GK03315-01		Prepared & Analyzed: 11/17/23			
Solids - total dissolved solids (TDS)	995	mg/L			1040			5	5
<b>Duplicate (B349543-DUP2)</b>				Sample: GK03315-03		Prepared & Analyzed: 11/17/23			
Solids - total dissolved solids (TDS)	1190	mg/L	M		1080			10	5

## NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

\* Not a TNI accredited analyte

### Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

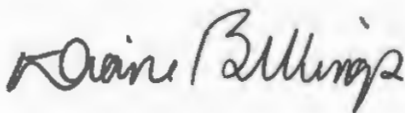
TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050

### Qualifiers

- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- Q1 Matrix Spike failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q2 Matrix Spike Duplicate failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q3 Matrix Spike/Matrix Spike Duplicate both failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.



Certified by: Diane Billings, Project Manager



**SAR-3: Episodic Depth to Groundwater Measurements**  
**All DTWs on SAR-3 must be collected within 24 hours.**

Plant: EDW  
 Event: EDW-23Q4 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
AP05S	EDW AP05#S	10/27/23	1610	6.23		BG
AP07S	EDW AP07#S		1413	25.38		
AP08	EDW AP08		1342	9.10		
AP09	EDW AP09		1331	10.82		
APW-01	EDW APW-01		1612	5.73		
AW-01	EDW AW-01		1501	10.12		
AW-05	EDW AW-05		1317	8.43		
AW-06	EDW AW-06		1455	27.48		
AW-08	EDW AW-08		1506	25.41		
AW-09	EDW AW-09		1531	27.29		
AW-10	EDW AW-10		1512	2.33		
AW-11	EDW AW-11		1517	7.03		
AW-14	EDW AW-14		1520	8.30		
AW-15	EDW AW-15		1522	10.02		
AW-15S	EDW AW-15#S		1524	10.04		
AW-16	EDW AW-16		1439	25.92		
AW-17	EDW AW-17		1435	26.56		
AW-18	EDW AW-18		1431	28.00		
AW-19	EDW AW-19		1351	<del>19.16</del>	AW-19 depth to water replaced with measurement from the purge record (Depth to water of 14.16 ft)	
AW-20	EDW AW-20		1356	17.10		
AW-21	EDW AW-21		1359	17.80		
AW-23	EDW AW-23		1625	5.46		
EMW-05	EDW EMW-05	—	1448	21.67		—

**SAR-3: Episodic Depth to Groundwater Measurements**

**All DTWs on SAR-3 must be collected within 24 hours.**

**Plant:** EDW  
**Event:** EDW-23Q4 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
OW-01	EDW_OW-01	10/27/23	415	24.22		BG
OW-02	EDW_OW-02		1526	9.71		
PTW-01	EDW_PTW-01		410	25.94		
PTW-02	EDW_PTW-02		1522	9.42		
XPW01A	EDW_XPW01A_pore		1346	11.89		
XPW02	EDW_XPW02_pore		1340	21.63		
XPW03	EDW_XPW03_pore		1335	18.23		
SG-01	EDW_YILRIVER		1546	<del>34.43</del>	431 BG 11/6/23	
SG-02	EDW_YSG-02		426	447.5	SG Not in Water	
SG-03	EDW_YSG-03	—	1352	449.1		

U:6/21/23 GKJ

**SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads**  
**All DTWs on SAR-4 form may be collected at anytime during the sampling event.**

Plant: EDW  
 Event: EDW-23Q4 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data						Comments	Initials
					Data Logger Serial No.	Does Data Log Ser. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L/R)			
AP05S	EDW_AP05#S	10/27/83	1610	6.23	21629301	No Transducer	N/A	N	N/A		BG	
AP07S	EDW_AP07#S		1413	25.38	21615552							
AW-01	EDW_AW-01		1501	10.12	21615144							
AW-05	EDW_AW-05		1317	8.43	21615132							
AW-06	EDW_AW-06		1455	27.48	21615127							
AW-08	EDW_AW-08		1506	25.41	21615722							
AW-09	EDW_AW-09		1531	27.29	21615130							
AW-10	EDW_AW-10		1512	2.33	21615754							
AW-11	EDW_AW-11		1517	7.03	21615129							
AW-15	EDW_AW-15		1522	10.02	21615761							
AW-15S	EDW_AW-15#S		1524	10.04	21629298							
AW-16	EDW_AW-16		1439	25.92	21615714							
AW-17	EDW_AW-17		1435	26.56	21615756							
AW-18	EDW_AW-18		1431	28.00	21615763							
AW-19	EDW_AW-19		1351	<del>14.16</del>	21615718							
AW-21	EDW_AW-21		1359	17.80	21615514							
EMW-05	EDW_EMW-05		1448	21.67	21615739							

AW-19 depth to water replaced with measurement from the purge record (Depth to water of 14.16 ft bmp)



**SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads**  
**All DTWs on SAR-4 form may be collected at anytime during the sampling event.**

Plant: EDW

Event: EDW-23Q4 Rev 0

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data						Comments	Initials
					Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data downloaded?	Batt (H/M/L/R)			
XPW01A	EDW_XPW01A_pore	10/27/23	1346	11.89	21615740	No Transducer	N/A	N	N/A		BG	
XPW02	EDW_XPW02_pore	+	1340	21.63	21615752	I	I	I	I		I	
XPW03	EDW_XPW03_pore	+	1335	18.23	21629300	I	I	I	I		I	
SG-01	EDW_YILRIVER	+	1546	34.43	TBD	I	I	I	I		I	

U: 6/21/23 GKJ

**Notes:**

- Batt = battery
- bmp = below measuring point
- ft = feet
- H = high
- L = low
- M = medium
- R = replaced

WELL/SAMPLE POINT AP05S

Purge Method: Dedicated pump

Date: 11/6/2023 Start Time: 10:04 Finish/Sample Time: 11:00

Well Depth (Bottom) From MP:          ft Min. Purge Volume:          Gal / L

Depth to Water From MP: 6.30 ft Total Purge Volume: 1000 Gal / L (2)

Water Column Length:          ft Max Drawdown:          ft

Well Water Volume:          Gal / L Total Drawdown: 0.15 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	10:26	6.45	200	6.80	1660	15.77	-123	1.61	561
2	10:28	6.45	200	6.80	1660	15.73	-126	1.54	529
3	10:30	6.45	200	6.80	1670	15.65	-127	1.49	531
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance: APP 11/6/23

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000mL
1	RA5 (P, 2.5L, HNO3)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1000mL

Final DTU 6.45 DL  
Ferrous Iron          mg/L

Comments New pump installed pumped at 200ml/min due  
to water level being stable

Sampler's Signature: [Signature]



WELL/SAMPLE POINT AW-01

Purge Method: Dedicated pump

Date: 11/6/2023 Start Time: 1235 Finish/Sample Time: 1440

Well Depth (Bottom) From MP: — ft  
 Depth to Water From MP: 9.90 ft  
 Water Column Length: — ft  
 Well Water Volume: — Gal / L

Min. Purge Volume: — Gal / L  
 Total Purge Volume: 1000 Gal / L (mL)  
 Max Drawdown: — ft  
 Total Drawdown: 12.60 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1255	11.60	100	6.77	1340	17.90	-79	1.94	308
2	1257	11.76	100	6.77	1340	18.03	-80	1.85	310
3	1259	11.99	100	6.76	1340	17.93	-83	1.80	304
4	<del>_____</del>								
5	<del>_____</del>								
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horsbr

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
(1)	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
(1)	General (P, 250mL) 1000mL
(1)	Rad (P, 2.5L, HNO3)

4x4

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL) 1000mL

Final DTW Ferrous Iron 22.50 <sup>PL</sup> mg/L

Comments Old pump replaced with new dedicated pump  
Field Dip Pilled here Very poor recharge

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-05 Purge Method: bedrock pump  
 Date: 11/6/2023 Start Time: 1327 Finish/Sample Time: 1547  
 Well Depth (Bottom) From MP: - ft Min. Purge Volume: - Gal / L  
 Depth to Water From MP: 8.68 ft Total Purge Volume: 1000 Gal / L  
 Water Column Length: - ft Max Drawdown: - ft  
 Well Water Volume: - Gal / L Total Drawdown: 0.47 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1518	9.15	200	6.84	1730	17.23	-39	1.64	787
2	1520	9.15	200	6.85	1730	17.29	-40	1.55	746
3	1522	9.15	200	6.85	1730	17.30	-42	1.48	699
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: M0116m  
 Sample Appearance: App 11/6/23  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000 mL
1	Red (P, 250 mL, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500 mL) 1000 mL

Final DTW 9.15 ft  
~~Ferrous Iron~~ mg/L

Comments Pumped at 200 mL/min due to stable water level

Sampler's Signature: [Signature]



WELL/SAMPLE POINT AW-06

Purge Method: Bladder pump

Date: 11/6/23 Start Time: 1132 Finish/Sample Time: 1250

Well Depth (Bottom) From MP: pump ft  
 Depth to Water From MP: 27.43 ft  
 Water Column Length: - ft  
 Well Water Volume: - Gal/L

Min. Purge Volume: 1.0 Gal/L  
 Total Purge Volume: 1.3 Gal/L  
 Max Drawdown: - ft  
 Total Drawdown: 6.88 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1149	28.90	100	7.47	1120	16.10	-84	1.85	776
2	1150	29.05	100	7.45	1130	16.09	-88	1.76	644
3	1151	29.20	100	7.41	1120	16.09	-91	1.59	609
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, <del>250</del> mL) 1000mL
1	Rad 2.5L

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, <del>250</del> mL) 1000mL

~~Ferrous Iron~~ 34.31 ft. mg/L  
 Final DTW

Comments

Sampler's Signature: Joseph R. Real

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-08

Purge Method: submersible pump

Date: 11/6/23 Start Time: 1500 Finish/Sample Time: 1613

Well Depth (Bottom) From MP: 59.96 ft Min. Purge Volume: 1.0 Gal  L

Depth to Water From MP: 25.47 ft Total Purge Volume: 1.5 Gal  L

Water Column Length: 34.53 ft Max Drawdown: — ft

Well Water Volume: 20.91 Gal/L Total Drawdown: 0.30 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1520	25.71	150	7.39	1610	18.60	-127	0.09	41000
2	1521	25.71	150	7.35	1590	18.60	-141	0.05	41000
3	1522	25.71	150	7.32	1550	18.58	750	0.01	—
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

06 11/7/23  
>1000  
>1000  
>1000

Field Meter: Horiba

Sample Appearance:  
Odor:  None  Slight  Mod.  Strong  
Color:  None  Slight  Mod.  Strong  
Turb:  None  Slight  Mod.  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAs (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P, 250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G, 250mL, H2SO4)
1	General (P, 250 mL)
1	Rad 2.5L

Filtered	
Qty	Bottles
	Metals (P, 250mL, HNO3)
	Ammonia (P, 250mL, H2SO4)
1	General (P, 250mL) 1000mL

Ferrous Iron 25.73 mg/L  
Final DTW — ft.

Comments

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-09

Purge Method: Bladder pump

Date: 11/6/23 Start Time: 1005 Finish/Sample Time: 1115

Well Depth (Bottom) From MP: Pump ft Min. Purge Volume: 1.0 Gal

Depth to Water From MP: 27.17 ft Total Purge Volume: 1.3 Gal

Water Column Length: — ft Max Drawdown: — ft

Well Water Volume: — Gal/L Total Drawdown: 7.84 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1020	28.39	100	7.19	1450	16.95	-109	2.08	399
2	1021	28.55	100	7.11	1470	16.93	-109	1.92	290
3	1022	28.70	100	7.07	1480	16.89	-110	1.80	234
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, <del>250</del> mL) 1000 mL
1	Rad 2.5L

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, <del>250</del> mL) 1000 mL

Ferrous Iron

mg/L

End DTW  
35.01

Comments: no recharge

Sampler's Signature: Joseph R. Patel

WELL/SAMPLE POINT **AW-10**

Purge Method: submersible pump

Date: 11/6/23 Start Time: 1300 Finish/Sample Time: 1440

Well Depth (Bottom) From MP: 33.43 ft <sup>+0.07</sup> 33.50 Min. Purge Volume: 1.0 Gal / 0

Depth to Water From MP: 2.39 ft Total Purge Volume: 1.3 Gal / L

Water Column Length: 31.04 ft Max Drawdown: - ft

Well Water Volume: 18.80 Gal / L Total Drawdown: 0.02 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1404	2.39	150	7.44	2220	17.90	-131	1.91	471
2	1405	2.40	150	7.34	2200	17.82	-126	1.77	506
3	1406	2.40	150	7.31	2190	17.78	-125	1.63	520
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, <del>250</del> mL) <u>1000mL</u>
1	Rad <u>2.5L</u>

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, <del>250</del> mL) <u>1000mL</u>

Ferrous Iron 2.41 <sup>ft</sup>/<sub>mg/L</sub>

Final DTW

Comments

Sampler's Signature:

Joseph R Red

WELL/SAMPLE POINT AW-11

Purge Method: Descental pump

Date: 11/3/2023 Start Time: 1320 Finish/Sample Time: 1410

Well Depth (Bottom) From MP: — ft Min. Purge Volume: — Gal / L

Depth to Water From MP: 6.90 ft Total Purge Volume: 1000 Gal / L (mg)

Water Column Length: — ft Max Drawdown: ✓ ft

Well Water Volume: — Gal / L Total Drawdown: 0.10 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1338	7.00	200	6.88	1840	14.88	-143	2.09	201
2	1340	7.00	200	6.88	1840	14.86	-145	2.00	182
3	1342	7.00	200	6.89	1850	14.80	-148	1.90	169
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenois (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000mL
1	RES (P, 250mL, HNO3)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1000mL

Final DTU 7.00 ft  
Ferrous Iron mg/L

Comments well pumped at 200mL/min due to stable water level

Sampler's Signature: [Signature]





WELL/SAMPLE POINT AW-15

Purge Method: Bladder By 11/2/23

Date: 11/2/23 Start Time: 1200 Finish/Sample Time: 1301/319

Well Depth (Bottom) From MP:        ft  
 Depth to Water From MP: 10.11 ft  
 Water Column Length:        ft  
 Well Water Volume:        Gal / L

Min. Purge Volume: 1.5 Gal   
 Total Purge Volume: 1.5 Gal   
 Max Drawdown:        ft  
 Total Drawdown: 0.15 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1215	10.28	100	6.96	1933	13.91	-94	0.0	2.8
2	1216	10.27	100	6.97	1951	13.95	-94	0.0	2.6
3	1217	10.27	100	6.98	1948	13.98	-95	0.0	2.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba U-5000

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1L
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL) 1L

Final DTW 10.26 ft  
 Ferrous Iron        mg/L

Comments

Sampler's Signature: Brendan Coleman

WELL/SAMPLE POINT AW-15

Purge Method: Bladder

Date: 11/17/23 Start Time: 1051 Finish/Sample Time: 1113

Well Depth (Bottom) From MP: 38.84 ft Top of Pump Min. Purge Volume: 1.5 Gal / @  
 Depth to Water From MP: 9.98 ft Total Purge Volume: 1.6 Gal / @  
 Water Column Length: 28.86 ft Max Drawdown: - ft  
 Well Water Volume: 17.48 Gal / @ Total Drawdown: 0.20 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1101	10.18	100	6.80	1980	14.51	-02	0.55	19.7
2	1104	10.18	100	6.78	1980	14.60	-112	0.47	31.0
3	1107	10.18	100	6.77	1980	14.68	-116	0.39	4.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiaba U-5000

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, 250 mL) <u>500</u>

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW 10.18

Comments \_\_\_\_\_

Sampler's Signature: Brendan [Signature]

WELL/SAMPLE POINT AW-15S

Purge Method: Bladder

Date: 11/2/23 Start Time: 1320 Finish/Sample Time: 1431

Well Depth (Bottom) From MP:            ft  
 Depth to Water From MP: 9.86 ft  
 Water Column Length:            ft  
 Well Water Volume:            Gal / L

Min. Purge Volume: 1.5 Gal  
 Total Purge Volume: 1.5 Gal  
 Max Drawdown:            ft  
 Total Drawdown: 3.49 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1335	10.78	100	6.96	1788	16.19	0	0.0	1.7
2	1336	10.82	100	6.97	1790	16.16	1	0.0	1.8
3	1337	10.86	100	6.96	1795	16.09	1	0.0	1.6
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna U-5000

Sample Appearance:

Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1L
1	Red (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P-500mL) 1L

Comments

~~Ferrous Iron~~ mg/L  
Final Depth 13.35

Sampler's Signature: Bowden

WELL/SAMPLE POINT AW-15S

Purge Method: Bladder

Date: 11/17/23 Start Time: 1114 Finish/Sample Time: 1137

Well Depth (Bottom) From MP: 18.35 ft Top of Pump Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 10.35 ft Total Purge Volume: 1.6 Gal (L)

Water Column Length: 8.00 ft Max Drawdown: - ft

Well Water Volume: 4.84 Gal (L) Total Drawdown: 0.94 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1124	11.02	100	6.89	1820	15.45	-35	1.12	96.5
2	1127	11.08	100	6.88	1820	15.51	-34	1.07	84.1
3	1130	11.16	100	6.87	1820	15.56	-34	0.98	60.5
4	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna U-5000

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, <del>250mL</del> 500)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW 11.29

Comments \_\_\_\_\_

Sampler's Signature: Burton Allen



WELL/SAMPLE POINT AW-16

Purge Method: Dedicated pump

Date: 11/2/2023 Start Time: 1130 Finish/Sample Time: 1338

Well Depth (Bottom) From MP: — ft Min. Purge Volume: — Gal/L

Depth to Water From MP: 26.00 ft Total Purge Volume: 1000 Gal/L (ML)

Water Column Length: — ft Max Drawdown: — ft

Well Water Volume: — Gal (L) Total Drawdown: 0.80 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1150	26.45	100	6.71	2180	14.61	-125	0.91	0.0
2	1152	26.45	100	6.70	2180	14.62	-126	0.89	0.0
3	1153/1154	26.45	100	6.71	2180	14.44	-126	0.86	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
121	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
111	General (P, 250 mL) 1000mL
111	Low S (P, 250 mL, HNO3)

424

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
111	General (P, 500mL) 1000mL

Final Dilution  
Ferrous Iron 26.80 mg/L

Comments Field Dup killed here

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-16

Purge Method: Bladder

Date: 11/17/23 Start Time: 1010 Finish/Sample Time: 1043

Well Depth (Bottom) From MP: 56.78 ft Top of Pump Min. Purge Volume: 1.5 Gal  L  
 Depth to Water From MP: 26.03 ft Total Purge Volume: 1.9 Gal  L  
 Water Column Length: 30.75 ft Max Drawdown: — ft  
 Well Water Volume: 18.6 Gal  L Total Drawdown: 0.81 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1020	26.86	100	6.85	2130	14.07	-80	2.75	12.3
2	1023	26.74	100	6.80	2140	13.99	-95	0.87	22.1
3	1026	26.75	100	6.76	2150	13.91	-111	0.76	24.7
4	1029	26.76	100	6.75	2160	13.85	-115	0.71	20.6
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

SG 11/17/23

Field Meter: Horiba U-5000

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign		
Casing locked/secure		
Well cap fits securely		
Good seal/drainage		
Well has weep holes		

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1 + 1</u>	General (P, <del>250</del> mL) <u>500</u>

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW 26.84

Comments Field Dupe filled here

Sampler's Signature: Brendan Adams

WELL/SAMPLE POINT AW-17

Purge Method: Dedicated pump

Date: 10/11/2023 Start Time: 1020

Finish/Sample Time: 1133

Well Depth (Bottom) From MP:          ft

Min. Purge Volume:          Gal / L

Depth to Water From MP: 26.80 ft

Total Purge Volume: 1000 Gal / L (42)

Water Column Length:          ft

Max Drawdown:          ft

Well Water Volume:          Gal / L

Total Drawdown: 1.50 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1036	27.65	100	6.80	1850	12.93	-109	0.96	119
2	1038	27.70	100	6.80	1840	13.03	-113	0.92	122
3	1040	27.72	100	6.80	1840	13.07	-115	0.88	118
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

App 11/1/23

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1 +	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250-mL) 1000mL
1	Red CP, 2.5L, HNO3

(5)  
(4)

Filtered	
Qty	Bottles
+	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 500mL) 1000mL

Final DSW Ferrous Iron 28.30 FL mg/L

Comments

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-18

Purge Method: Deaerated pump

Date: 11/1/2023 Start Time: 1136 Finish/Sample Time: 1255

Well Depth (Bottom) From MP:        ft Min. Purge Volume:        Gal / L

Depth to Water From MP: 28.03 ft Total Purge Volume: 1000 Gal / L (ml)

Water Column Length:        ft Max Drawdown:        ft

Well Water Volume:        Gal / L Total Drawdown: 4.35 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1156	29.50	100	6.84	1820	13.43	-108	0.96	166
2	1158	29.60	100	6.84	1830	13.43	-109	0.91	152
3	1200	29.70	100	6.84	1840	13.43	-111	0.88	149
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: 16016m

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) <u>1000mL</u>
1	Rad (P, 2.5L, HNO3)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL) <u>1000mL</u>

Final DTW Ferrous Iron: 32.38 AV mg/L

Comments: \_\_\_\_\_

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-19

Purge Method: Dedicated pump

Date: 11/1/2023 Start Time: 1303 Finish/Sample Time: 1412

Well Depth (Bottom) From MP:        ft Min. Purge Volume:        Gal/L

Depth to Water From MP: 14.19 ft Total Purge Volume: 1000 Gal/L (mL)

Water Column Length:        ft Max Drawdown:        ft

Well Water Volume:        Gal/L Total Drawdown: 3.4 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1318	16.05	100	7.06	1140	14.44	-67	1.07	84.8
2	1320	16.00	100	7.06	1140	14.47	-67	1.05	85.0
3	1322	16.10	100	7.05	1140	14.45	-66	1.00	79.1
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color:  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000 mL
1	RAI (P 2.5L, HNO3)

4

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250mL) 1000 mL

Final DTW 17.33 LL  
Ferrous Iron        mg/L

Comments

Sampler's Signature: [Signature]



WELL/SAMPLE POINT AW-21

Purge Method: Dedicated pump

Date: 11/2/2023 Start Time: 1345 Finish/Sample Time: 1310

Well Depth (Bottom) From MP: — ft Min. Purge Volume: — Gal/L

Depth to Water From MP: 17.69 ft Total Purge Volume: 1000 Gal/L (2)

Water Column Length: — ft Max Drawdown: — ft

Well Water Volume: — Gal/L Total Drawdown: 0.65 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1405	18.30	100	7.15	1100	15.27	57	2.58	20.5
2	1407	18.32	100	7.16	1100	15.31	49	2.49	20.2
3	1408	18.34	100	7.16	1100	15.42	46	2.39	20.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor:  None  Slight  Mod.  Strong

Color  None  Slight  Mod.  Strong

Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Casing locked/secure	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well cap fits securely.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Good seal/drainage	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Well has weep holes	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) (1000mL)
1	ROK (P, 250mL, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, 250mL) (1000mL)

Final DTW 18.34 OL  
Ferrous Iron mg/L

Comments

Sampler's Signature: [Signature]

WELL/SAMPLE POINT AW-21

Purge Method: Bladder

Date: 11/17/23 Start Time: 0935 Finish/Sample Time: 1003

Well Depth (Bottom) From MP: 33.50 ft Top of Pump Min. Purge Volume: 1.5 Gal 0  
 Depth to Water From MP: 17.78 ft Total Purge Volume: 1.8 Gal 0  
 Water Column Length: 15.72 ft Max Drawdown: - ft  
 Well Water Volume: 9.5 Gal 0 Total Drawdown: 0.89 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	0949	18.60	100	7.27	1080	14.28	198	3.91	10.1
2	0952	18.64	100	7.22	1080	14.18	196	2.74	7.0
3	0955	18.64	100	7.19	1080	14.10	194	1.99	0.3
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba U-5000

Sample Appearance:  
 Odor:  None  Slight  Mod.  Strong  
 Color:  None  Slight  Mod.  Strong  
 Turb:  None  Slight  Mod  Strong

Well Integrity	Yes	No
Well has ID sign	X	
Casing locked/secure		X
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

**BOTTLE INFORMATION:**

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
<u>1</u>	General (P, <del>250</del> mL) <u>500</u>

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)

Final DTW 18.67

Comments

Sampler's Signature: Brandon Alva

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Aaron Pemberton</u>				Location: <u>Edwards</u>					
Weather: <u>42° Sunny with SW wind</u>				Environment: <u>grass, gravel, dirt</u>					
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>V5000</u>	Serial Number: <u>6US83085</u>					
Water Level Meter		Make: <u>Solinst</u>	Model: <u>101</u>	Serial Number: <u>33459</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.09</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>6.97</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	022361-01	12/27/2024
SC Zero (DI)	<u>10</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2080</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Geotech	3GF1197	Jun-24
ORP	<u>237</u>	mV	±15 mV	<u>P</u>	<u>NO</u>	<u>N/A</u>	InSitu	3GD927	Jan-24
DO (Zero pt)	<u>0.08</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>14.2</u>	%	97-100%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

241 @ 16°C

ICV (Initial Calibration Verification)						Time:				
						<u>0920</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	<u>4.08</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	3GB1049	Feb-25		
pH 7.00b	<u>6.95</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	2GF113	Jun-24		
pH 10.00b	<u>10.06</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	3GA1134	Jan-25		
SC 1000	<u>1020</u>	µS/cm	±5%	<u>P</u>	<u>N/A</u>	Ricca	4209A12	Aug-24		

Approx. every 4 hrs, unless only one well

AP 11/11/23

CCV (Continued Calibration Verification):						Time:				
						<u>141511</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	<u>4.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023067-01	3/14/2025	
pH 7.00a	<u>7.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	023051-02	2/21/2025	
pH 10.00a	<u>10.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>N/A</u>	MSI	022361-01	12/27/2024	
SC 1000	<u>1010</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>N/A</u>	Ricca	4209A12	Aug-24	
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025	
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a	<del> </del>	s.u.	±0.1 s.u.	<del> </del>	<del> </del>	<del> </del>	MSI	023067-01	3/14/2025	
7.00a	<del> </del>	s.u.	±0.1 s.u.	<del> </del>	<del> </del>	<del> </del>	MSI	023051-02	2/21/2025	
10.00a	<del> </del>	s.u.	±0.1 s.u.	<del> </del>	<del> </del>	<del> </del>	MSI	022361-01	12/27/2024	
SC 1000	<del> </del>	µS/cm	±5%	<del> </del>	<del> </del>	<del> </del>	Ricca	4209A12	Aug-24	
DO (Zero pt)	<del> </del>	mg/L	±0.1 mg/L	<del> </del>	<del> </del>	<del> </del>	Macron	#000228049	8/26/2025	
Turbidity (DI)	<del> </del>	NTU	<2 NTU	<del> </del>	<del> </del>	<del> </del>	Pace Labs	N/A (DI)	N/A (DI)	

Comments:

Signature: 	Date: <u>11/11/2023</u>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Remberton			Location:	Edwards				
Weather:	H10. SHOT wind SW 10mph SUNNY			Environment:	grass, gravel, dirt				
Multiparameter Water Meter	Make:	Horiba	Model:	US000	Serial Number:	6US 83C85			
Water Level Meter	Make:	SOLinst	Model:	101	Serial Number:	33459			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	6.92	s.u.	±0.1 s.u.	P	I	I	MSI	023051-02	2/21/2025
pH 10.00a	9.92	s.u.	±0.1 s.u.	P	I	I	MSI	022361-01	12/27/2024
SC Zero (DI)	10	µS/cm	0<25 µS/cm	I	I	I	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2060	µS/cm	±5%	I	I	I	Geotech	3GF1197	Jun-24
ORP	235	mV	±15 mV	I	I	I	InSitu	3GD927	Jan-24
DO (Zero pt)	0.05	mg/L	±0.1	I	I	I	Macron	#000228049	8/26/2025
DO (Saturated)	97.3	%	97-100%	I	I	I	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	I	I	I	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

238 @ 1800

ICV (Initial Calibration Verification)					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	3.98	s.u.	±0.15 s.u.	P	N/A	Geotech	3GB1049	Feb-25		
pH 7.00b	6.87	s.u.	±0.15 s.u.	L	I	Geotech	2GF113	Jun-24		
pH 10.00b	9.96	s.u.	±0.15 s.u.	L	I	Geotech	3GA1134	Jan-25		
SC 1000	1040	µS/cm	±5%	L	I	Ricca	4209A12	Aug-24		

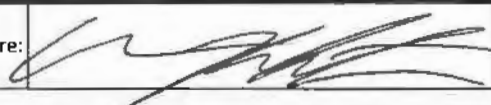
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025	
pH 7.00a	7.03	s.u.	±0.1 s.u.	P	I	I	MSI	023051-02	2/21/2025	
pH 10.00a	10.07	s.u.	±0.1 s.u.	I	I	I	MSI	022361-01	12/27/2024	
SC 1000	1030	µS/cm	±5%	I	I	I	Ricca	4209A12	Aug-24	
DO (Zero pt)	0.04	mg/L	±0.1 mg/L	I	I	I	Macron	#000228049	8/26/2025	
Turbidity (DI)	0.0	NTU	<2 NTU	I	I	I	Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023067-01	3/14/2025	
7.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023051-02	2/21/2025	
10.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	022361-01	12/27/2024	
SC 1000	/	µS/cm	±5%	/	/	/	Ricca	4209A12	Aug-24	
DO (Zero pt)	/	mg/L	±0.1 mg/L	/	/	/	Macron	#000228049	8/26/2025	
Turbidity (DI)	/	NTU	<2 NTU	/	/	/	Pace Labs	N/A (DI)	N/A (DI)	

Comments:

Signature:		Date:	11/2/2023
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EG

## Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Brendan Ahernan</u>				Location: <u>Edwards</u>					
Weather: <u>41° Mostly Sunny 10 mph NE</u>				Environment: <u>Gravel Road</u>					
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>U-5000</u>	Serial Number: <u>PW2GVJD3</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>Digger-T</u>	Serial Number: <u>3717-T</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>6.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>9.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	022361-01	12/27/2024
SC Zero (DI)	<u>16</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1978</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Geotech	3GF1197	Jun-24
ORP	<u>248 @ 10.8°</u>	mV	±15 mV	<u>P</u>	<u>N</u>	<u>N/A</u>	InSitu	3GD927	Jan-24
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.6</u>	%	97-100%	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>1048</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	3GB1049	Feb-25	
pH 7.00b	<u>6.87</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GF113	Jun-24	
pH 10.00b	<u>10.01</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	3GA1134	Jan-25	
SC 1000	<u>991</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4209A12	Aug-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>1445</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	022361-01	12/27/2024
SC 1000	<u>1025</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Ricca	4209A12	Aug-24
DO (Zero pt)	<u>0.0</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: _____			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	<u>/</u>	s.u.	±0.1 s.u.	<u>/</u>	<u>/</u>	<u>/</u>	MSI	023067-01	3/14/2025
7.00a	<u>/</u>	s.u.	±0.1 s.u.	<u>/</u>	<u>/</u>	<u>/</u>	MSI	023051-02	2/21/2025
10.00a	<u>/</u>	s.u.	±0.1 s.u.	<u>/</u>	<u>/</u>	<u>/</u>	MSI	022361-01	12/27/2024
SC 1000	<u>/</u>	µS/cm	±5%	<u>/</u>	<u>/</u>	<u>/</u>	Ricca	4209A12	Aug-24
DO (Zero pt)	<u>/</u>	mg/L	±0.1 mg/L	<u>/</u>	<u>/</u>	<u>/</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>/</u>	NTU	<2 NTU	<u>/</u>	<u>/</u>	<u>/</u>	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: <u>Brendan Ahernan</u>	Date: <u>11/2/23</u>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Kimberlin</i>		Location: <i>Edwards</i>	
Weather: <i>45°-58° Sunny Wind SW 13 mph</i>		Environment: <i>Grass, gravel, soil</i>	
Multiparameter Water Meter	Make: <i>HANNA</i>	Model: <i>US000</i>	Serial Number: <i>6US83C85</i>
Water Level Meter	Make: <i>Heron</i>	Model: <i>Dipart</i>	Serial Number: <i>11FF220930SML</i>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>3.99</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.99</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<i>9.94</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>20</i>	µS/cm	0<25 µS/cm	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2020</i>	µS/cm	±5%	P	NO	N/A	Geotech	3GF1197	Jun-24
ORP	<i>231</i>	mV	±15 mV	P	NO	N/A	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	P	NO	N/A	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.6</i>	%	97-100%	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

*240 @ 17°C*

ICV (Initial Calibration Verification)					Time: <i>0926</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<i>4.00</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	3GB1049	Feb-25
pH 7.00b	<i>6.87</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	2GF113	Jun-24
pH 10.00b	<i>9.94</i>	s.u.	±0.15 s.u.	P	N/A	Geotech	3GA1134	Jan-25
SC 1000	<i>989</i>	µS/cm	±5%	P	N/A	Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1415</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.03</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	<i>7.01</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023051-02	2/21/2025
pH 10.00a	<i>10.05</i>	s.u.	±0.1 s.u.	P	NO	N/A	MSI	022361-01	12/27/2024
SC 1000	<i>993</i>	µS/cm	±5%	P	NO	N/A	Ricca	4209A12	Aug-24
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	P	NO	N/A	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	P	NO	N/A	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023067-01	3/14/2025
7.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023051-02	2/21/2025
10.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	022361-01	12/27/2024
SC 1000	/	µS/cm	±5%	/	/	/	Ricca	4209A12	Aug-24
DO (Zero pt)	/	mg/L	±0.1 mg/L	/	/	/	Macron	#000228049	8/26/2025
Turbidity (DI)	/	NTU	<2 NTU	/	/	/	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: 	Date: <i>11/3/2023</i>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <b>Logan Ross</b>				Location: <b>EDWARDS POWERSTATION</b>					
Weather: <b>CLOUDY 4P-6P 10mph S</b>				Environment: <b>GRASSLAND</b>					
Multiparameter Water Meter		Make: <b>HORIBA</b>	Model: <b>U-5000</b>	Serial Number: <b>PW26YJD3</b>					
Water Level Meter		Make: <b>Heron</b>	Model: <b>dipper</b>	Serial Number: <b>377-T</b>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.67</b>	s.u.	±0.1 s.u.	<b>F</b>	<b>Y</b>	<b>4.00</b>	MSI	023067-01	3/14/2025
pH 7.00a	<b>6.98</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>N</b>	<b>NA</b>	MSI	023051-02	2/21/2025
pH 10.00a	<b>10.88</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>N</b>	<b>NA</b>	MSI	022361-01	12/27/2024
SC Zero (DI)	<b>0.0</b>	µS/cm	0-25 µS/cm	<b>P</b>	<b>N</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<b>1920</b>	µS/cm	±5%	<b>P</b>	<b>N</b>	<b>NA</b>	Geotech	3GF1197	Jun-24
ORP	<b>271</b>	mV	±15 mV	<b>F</b>	<b>Y</b>	<b>241</b>	InSitu	3GD927	Jan-24
DO (Zero pt)	<b>.00</b>	mg/L	±0.1	<b>P</b>	<b>N</b>	<b>NA</b>	Macron	#000228049	8/26/2025
DO (Saturated)	<b>98.7</b>	%	97-100%	<b>P</b>	<b>N</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<b>0.0</b>	NTU	<2 NTU	<b>P</b>	<b>N</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <b>0845</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<b>3.99</b>	s.u.	±0.15 s.u.	<b>P</b>	<b>NA</b>	Geotech	3GB1049	Feb-25	
pH 7.00b	<b>7.02</b>	s.u.	±0.15 s.u.	<b>P</b>	<b>NA</b>	Geotech	2GF113	Jun-24	
pH 10.00b	<b>9.80</b>	s.u.	±0.15 s.u.	<b>P</b>	<b>NA</b>	Geotech	3GA1134	Jan-25	
SC 1000	<b>1040</b>	µS/cm	±5%	<b>P</b>	<b>NA</b>	Ricca	4209A12	Aug-24	

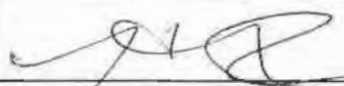
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <b>151</b>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<b>4.02</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>N</b>	<b>NA</b>	MSI	023067-01	3/14/2025
pH 7.00a	<b>6.92</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>N</b>	<b>NA</b>	MSI	023051-02	2/21/2025
pH 10.00a	<b>9.97</b>	s.u.	±0.1 s.u.	<b>P</b>	<b>N</b>	<b>NA</b>	MSI	022361-01	12/27/2024
SC 1000	<b>1040</b>	µS/cm	±5%	<b>P</b>	<b>N</b>	<b>NA</b>	Ricca	4209A12	Aug-24
DO (Zero pt)	<b>0.0</b>	mg/L	±0.1 mg/L	<b>P</b>	<b>N</b>	<b>NA</b>	Macron	#000228049	8/26/2025
Turbidity (DI)	<b>0.0</b>	NTU	<2 NTU	<b>P</b>	<b>N</b>	<b>NA</b>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023067-01	3/14/2025
7.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	023051-02	2/21/2025
10.00a	/	s.u.	±0.1 s.u.	/	/	/	MSI	022361-01	12/27/2024
SC 1000	/	µS/cm	±5%	/	/	/	Ricca	4209A12	Aug-24
DO (Zero pt)	/	mg/L	±0.1 mg/L	/	/	/	Macron	#000228049	8/26/2025
Turbidity (DI)	/	NTU	<2 NTU	/	/	/	Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: 	Date: <b>11/3/23</b>
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>Aaron Pemberon</i>				Location: <i>Edwards</i>					
Weather: <i>62°-69° wind SW 4-5 mph cloudy</i>				Environment: <i>grass gravel</i>					
Multiparameter Water Meter		Make: <i>Heron</i>	Model: <i>VS000</i>	Serial Number: <i>W0683185</i>					
Water Level Meter		Make: <i>Heron</i>	Model: <i>D:port</i>	Serial Number: <i>3717-T</i>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.08</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023067-01	3/14/2025
pH 7.00a	<i>6.96</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	023051-02	2/21/2025
pH 10.00a	<i>9.92</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	022361-01	12/27/2024
SC Zero (DI)	<i>20</i>	µS/cm	0<25 µS/cm	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>1950</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	<i>I</i>	Geotech	3GF1197	Jun-24
ORP	<i>226</i>	mV	±15 mV	<i>I</i>	<i>I</i>	<i>I</i>	InSitu	3GD927	Jan-24
DO (Zero pt)	<i>0.04</i>	mg/L	±0.1	<i>I</i>	<i>I</i>	<i>I</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>108.2</i>	%	97-100%	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well *23.6 @ 20°C*

ICV (Initial Calibration Verification)							Time: <i>0941</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	<i>4.02</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>N/A</i>	Geotech	3GB1049	Feb-25		
pH 7.00b	<i>6.85</i>	s.u.	±0.15 s.u.	<i>I</i>	<i>I</i>	Geotech	2GF113	Jun-24		
pH 10.00b	<i>9.93</i>	s.u.	±0.15 s.u.	<i>I</i>	<i>I</i>	Geotech	3GA1134	Jan-25		
SC 1000	<i>1010</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	Ricca	4209A12	Aug-24		

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):							Time: <i>1558</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	<i>4.03</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>N/A</i>	MSI	023067-01	3/14/2025	
pH 7.00a	<i>7.01</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	023051-02	2/21/2025	
pH 10.00a	<i>10.05</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	022361-01	12/27/2024	
SC 1000	<i>1030</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	<i>I</i>	Ricca	4209A12	Aug-24	
DO (Zero pt)	<i>0.04</i>	mg/L	±0.1 mg/L	<i>I</i>	<i>I</i>	<i>I</i>	Macron	#000228049	8/26/2025	
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):							Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023067-01	3/14/2025	
7.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	023051-02	2/21/2025	
10.00a	<i>/</i>	s.u.	±0.1 s.u.	<i>/</i>	<i>/</i>	<i>/</i>	MSI	022361-01	12/27/2024	
SC 1000	<i>/</i>	µS/cm	±5%	<i>/</i>	<i>/</i>	<i>/</i>	Ricca	4209A12	Aug-24	
DO (Zero pt)	<i>/</i>	mg/L	±0.1 mg/L	<i>/</i>	<i>/</i>	<i>/</i>	Macron	#000228049	8/26/2025	
Turbidity (DI)	<i>/</i>	NTU	<2 NTU	<i>/</i>	<i>/</i>	<i>/</i>	Pace Labs	N/A (DI)	N/A (DI)	

Comments:

Signature:		Date:	<i>11/16/2023</i>
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### Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed			Location:	Edward Power Station				
Weather:	55-70°F mostly sunny			Environment:	Muddy/grassy				
Multiparameter Water Meter	Make:	Horiba	Model:	U5000	Serial Number:	Y29KJ9HA			
Water Level Meter	Make:	Horin	Model:	Series 1900	Serial Number:	19FF211192HB			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	N	/	MSI	023067-01	3/14/2025
pH 7.00a	6.98	s.u.	±0.1 s.u.	I	N		MSI	023051-02	2/21/2025
pH 10.00a	10.07	s.u.	±0.1 s.u.	I	N		MSI	022361-01	12/27/2024
SC Zero (DI)	2	µS/cm	0<25 µS/cm	I	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2010	µS/cm	±5%	I	N		Geotech	3GF1197	Jun-24
ORP	241	mV	±15 mV	I	N		InSitu	3GD927	Jan-24
DO (Zero pt)	0.05	mg/L	±0.1	I	N		Macron	#000228049	8/26/2025
DO (Saturated)	99.1	%	97-100%	I	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	I	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:	940			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.		
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	N	Geotech	3GB1049	Feb-25		
pH 7.00b	6.97	s.u.	±0.15 s.u.	I	N	Geotech	2GF113	Jun-24		
pH 10.00b	10.05	s.u.	±0.15 s.u.	I	N	Geotech	3GA1134	Jan-25		
SC 1000	1050	µS/cm	±5%	I	N	Ricca	4209A12	Aug-24		

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:	1630			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
pH 4.00a	4.07	s.u.	±0.1 s.u.	P	N	/	MSI	023067-01	3/14/2025	
pH 7.00a	7.03	s.u.	±0.1 s.u.	I	N		MSI	023051-02	2/21/2025	
pH 10.00a	10.05	s.u.	±0.1 s.u.	I	N		MSI	022361-01	12/27/2024	
SC 1000	1010	µS/cm	±5%	I	N		Ricca	4209A12	Aug-24	
DO (Zero pt)	0.01	mg/L	±0.1 mg/L	I	N		Macron	#000228049	8/26/2025	
Turbidity (DI)	0.0	NTU	<2 NTU	I	N		Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.	
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025	
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025	
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024	
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24	
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025	
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)	

Comments:

Signature:	Joseph Reed			Date:	11/6/23				
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## Multiparameter Meter Field Calibration Checklist

Field Personnel: Brendan Gleason Location: Edwards

Weather: 4/8° Sunny 3 mph S Environment: Grassy field

Multiparameter Water Meter Make: Hanna Model: V-5000 Serial Number: WUG83085

Water Level Meter Make: Heron Model: Dipper T Serial Number: 3717-T

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>6.96</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>9.97</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	022361-01	12/27/2024
SC Zero (DI)	<u>14</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2040</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Geotech	3GF1197	Jun-24
ORP	<u>2200mV</u>	mV	±15 mV	<u>P</u>	<u>N</u>	<u>N/A</u>	InSitu	3GD927	Jan-24
DO (Zero pt)	<u>0.07</u>	mg/L	±0.1	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.1</u>	%	97-100%	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well BG 11/7/23

**ICV (Initial Calibration Verification)** Time: 10:50

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.09</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	3GB1049	Feb-25
pH 7.00b	<u>6.97</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GF113	Jun-24
pH 10.00b	<u>9.92</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	3GA1134	Jan-25
SC 1000	<u>1020</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

**CCV (Continued Calibration Verification)** Time: 11:40

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>9.95</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	022361-01	12/27/2024
SC 1000	<u>1030</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Ricca	4209A12	Aug-24
DO (Zero pt)	<u>0.07</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

**CCV (Continued Calibration Verification)** Time: \_\_\_\_\_

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: Brendan Gleason Date: 11/7/23



GK00258

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information		Section B Required Project Information		Section C Invoice Information		Page: 1 of 2		
Company: Vistra Corp-Edwards		Report To: Brian Voelker		Attention: Mark Davis		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER		
Address: 7800 Cilco Lane Peoria, IL 61607		Copy To: Sam Davies samantha.davies@vistracorp.com Mark Davis-Mark.Davis1@vistracorp.com		Company Name: Vistra Corp-Edwards				
Email To: Brian.Voelker@vistracorp.com		Purchase Order No:		Quote Reference:		STATE: IL		
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:				
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)							Residual Chlorine (Y/N)	Project No. / Lab I.D.				
				DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	Methanol		Other	EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-PCMP-301								
1	AP05S																											
2	AP07S																											
3	APW-01																											
4	AW-01																											
5	AW-05																											
6	AW-06																											
7	AW-08																											
8	AW-09																											
9	AW-10																											
10	AW-11																											
11	AW-14																											
12	AW-15																											
13	AW-15S																											
14	AW-16																											
15	AW-17		W6	11/1/23	1133		4	X	X																			
16	AW-18		W6	11/1/23	1255		4	X	X																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
EDW-23Q4-Rev 0		11/1/23	1609		11/1/23	1609	5.8	Y	N	Y	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Auron Remington					
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YY): 11/1/2023					

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information		<b>Section B</b> Required Project Information		<b>Section C</b> Invoice Information		<b>REGULATORY AGENCY</b>		
Company: Vistra Corp-Edwards		Report To: Brian Voelker		Attention: Mark Davis		NPDES GROUND WATER DRINKING WATER		
Address: 7800 Cilco Lane Peoria IL 61607		Copy To: Sam Davis-samantha.davies@vistracorp.com Mark Davis-Mark.Davis1@vistracorp.com		Company Name: Vistra Corp-Edwards		UST RCRA OTHER		
Email To: <a href="mailto:brian.voelker@vistra.com">brian.voelker@vistra.com</a>		Purchase Order No:		Date Reference:		Site Location: IL		
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		STATE: IL		
Requested Due Date/TAT: 10 day		Project Number: 2285		Route #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.
						Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>8</sub>		Methanol	Other	EDW-257-301	EDW-845-301		
1	AW-19	AW	11/1/23 1412		4	X	X											
2	AW-20	AW	11/1/23 1536		4	X	X											
3	AW-21																	
4	AW-23																	
5	EMW-05																	
12	Field Blank																	
13																		
14																		
15																		
16																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
EDW-23Q4-Rev 0	<i>[Signature]</i>	11/1/23	1609	<i>[Signature]</i>	11/1/23	1609	5.8	Y	N	Y	

<b>SAMPLER NAME AND SIGNATURE</b>				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Aaron Rembert							
SIGNATURE of SAMPLER: <i>[Signature]</i>							
DATE Signed (MM/DD/YY): 11/1/2023							

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 1 of 2	
Company: <b>Vistra Corp-Edwards</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Mark Davis</b>		<b>REGULATORY AGENCY</b>	
Address: <b>7800 Cilco Lane</b>		Copy To: <b>Sam Davies-samantha.davies@vistracorp.com</b>		Company Name: <b>Vistra Corp-Edwards</b>			
Peoria, IL 61607		Mark Davis-Mark.Davis1@vistracorp.com		Address: <b>see Section A</b>			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		NPDES <b>GROUND WATER</b> DRINKING WATER	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		UST <b>RCRA</b> OTHER	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		Site Location: <b>IL</b> <span style="float: right;"><b>6K004-77</b> <i>[Signature]</i></span>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No / Lab I.D.				
							Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	EDW-257-301	EDW-845-301		EDW-SUP-000	EDW-PGMP-301	NPDES	GROUND WATER			DRINKING WATER	UST	RCRA	OTHER
1	AP05S																										
2	AP07S																										
3	APW-01																										
4	AW-01																										
5	AW-05																										
6	AW-06																										
7	AW-08																										
8	AW-09																										
9	AW-10																										
10	AW-11																										
11	AW-14																										
12	AW-15		11/2/23	1319		4	X	X																			
13	AW-15S		11/2/23	1431		4	X	X																			
14	AW-16		11/2/23	1338		4	X	X																			
15	AW-17																										
16	AW-18																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<b>EDW-23Q4-Rev 0</b>	<i>[Signature]</i>	11/2/23	1600	<i>[Signature]</i>	11/2/23	1600	14.5	Y	N	Y

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Arnon Remickon</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YY): 11/02/23				

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <b>Vistra Corp-Edwards</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Mark Davis</b>		NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/>		
Address: <b>7800 Cilco Lane</b>		Copy To: <b>Sam Davies-samantha.davies@vistracorp.com</b>		Company Name: <b>Vistra Corp-Edwards</b>		UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/>		
<b>Peoria, IL 61607</b>		<b>Mark Davis-Mark.Davis1@vistracorp.com</b>		Address: <b>see Section A</b>		Site Location		
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		STATE: <b>IL</b>		
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		<b>GK00477</b>		
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		<b>guy</b>		

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.		
		MATRIX	CODE			DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-PGMP-301				
		DRINKING WATER DW	WT																							
1	AW-19																									
2	AW-20																									
3	AW-21			WT 6		11/2/23	1310		4	X	X															
4	AW-23																									
5	EMW-05																									
12	Field Blank			WT 6		11/2/23	1315		4	X	X															
13	AW-16 FD			WT 6		11/2/23	1338		4	X	X															
14																										
15																										
16																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<b>EDW-23Q4-Rev 0</b>	<i>[Signature]</i>	11/2/23	1600	<i>[Signature]</i>	11/2/23	1600	14.5	Y	N	Y

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Alexander Romanov</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>					
DATE Signed (MM/DD/YY): <b>11/02/23</b>					

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>	
Company: <b>Vistra Corp-Edwards</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Mark Davis</b>		NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/>	
Address: <b>7800 Cilco Lane</b>		Copy To: <b>Sam Davies-samantha.davies@vistracorp.com</b>		Company Name: <b>Vistra Corp-Edwards</b>		UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/>	
<b>Peoria, IL 61607</b>		<b>Mark Davis-Mark.Davis1@vistracorp.com</b>		Address: <b>see Section A</b>		Site Location	
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		STATE: <b>IL</b>	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		<b>SK00034</b>	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		<b>gaf</b>	

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No / Lab I.D.
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-PGMP-301		
1	AP05S																						
2	AP07S		W6		11/3/23	1320	4	X	X														
3	APW-01																						
4	AW-01																						
5	AW-05																						
6	AW-06																						
7	AW-08																						
8	AW-09																						
9	AW-10																						
10	AW-11		W6		11/3/23	1410	4	X	X														
11	AW-14		W6		11/3/23	1314	4	X	X														
12	AW-15																						
13	AW-15S																						
14	AW-16																						
15	AW-17																						
16	AW-18																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<b>EDW-23Q4-Rev 0</b>	<i>[Signature]</i>	11/3/23	1503	<i>[Signature]</i>	11/8/23	1503	10.7	Y	N	Y	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Aaren [Signature]</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YY): 11/03/23				



**CHAIN-OF-CUSTODY / Analytical Request Document**

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		REGULATORY AGENCY	
Company: <u>Vistra Corp-Edwards</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Mark Davis</u>		NPDES GROUND WATER DRINKING WATER	
Address: <u>7800 Cilco Lane</u>		Copy To: <u>Sam Davies-samantha.davies@vistracorp.com</u>		Company Name: <u>Vistra Corp-Edwards</u>		UST RCRA OTHER	
<u>Peoria, IL 61607</u>		<u>Mark Davis-Mark.Davis1@vistracorp.com</u>		Address: <u>see Section A</u>		Site Location	
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Quote Reference:		STATE: <u>IL</u>	
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Project Manager:		<u>3100684</u>	
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		Profile #:		<u>gd</u>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TYPE (G=GRAB C=COMP)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.		
									Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-PGMP-301				
1	AW-19																								
2	AW-20																								
3	AW-21																								
4	AW-23			W-6	11/3/23	1130		4	X	X															
5	EMW-05			W-6	11/3/23	1143		4	X	X															
12	Field Blank																								
13																									
14																									
15																									
16																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
EDW-23Q4-Rev 0		11/3/23	1503		11/3/23	1503	10.7 Y N Y

SAMPLER NAME AND SIGNATURE				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>Aaron Reuberlon</u>		DATE Signed (MM/DD/YY): <u>11/03/23</u>					
SIGNATURE of SAMPLER:							

GK00898

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		Page: 1 of 2	
Company: <b>Vistra Corp-Edwards</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Mark Davis</b>		<b>REGULATORY AGENCY</b>	
Address: <b>7800 Cilco Lane</b>		Copy To: <b>Sam Davies-samantha.davies@vistracorp.com</b>		Company Name: <b>Vistra Corp-Edwards</b>			
<b>Peoria, IL 61607</b>		<b>Mark Davis-Mark.Davis1@vistracorp.com</b>		Address: <b>see Section A</b>		NPDES <b>GROUND WATER</b> DRINKING WATER	
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		UST    RCRA    OTHER	
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		Site Location	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		STATE: <b>IL</b>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.
						DATE	TIME	Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Test ↓		
1	AP05S	WT 6	11/6/23 1100	4	X	X												
2	AP07S																	
3	APW-01	WT 6	11/6/23 1210	4	X	X												
4	AW-01	WT 6	11/6/23 1440	4	X	X												
5	AW-05	WT 6	11/6/23 1547	4	X	X												
6	AW-06	WT 6	11/6/23 1250	4	X	X												
7	AW-08	WT 6	11/6/23 1613	4	X	X												
8	AW-09	WT 6	11/6/23 1115	4	X	X												
9	AW-10	WT 6	11/6/23 1440	4	X	X												
10	AW-11																	
11	AW-14																	
12	AW-15																	
13	AW-15S																	
14	AW-16																	
15	AW-17																	
16	AW-18																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
EDW-23Q4-Rev 0		11/6/23	1709		11/6/23	1710	5.4	Y	Y	Y	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Patricia Pemberton</i>				
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):	11/6/23		

GK00898

### CHAIN-OF-CUSTODY / Analytical Request Document

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<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>	
Company: <u>Vistra Corp-Edwards</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Mark Davis</u>		NPDES GROUND WATER DRINKING WATER	
Address: <u>7800 Cilco Lane</u>		Copy To: <u>Sam Davies-samantha.davies@vistracorp.com</u>		Company Name: <u>Vistra Corp-Edwards</u>		UST RCRA OTHER	
<u>Peoria, IL 61607</u>		<u>Mark Davis-Mark.Davis1@vistracorp.com</u>		Address: <u>see Section A</u>		Site Location	
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Quote Reference:		STATE: <u>IL</u>	
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Project Manager:		Profile #:	
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>					

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No / Lab I.D.				
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-PGMP-301						
1	AW-19																										
2	AW-20																										
3	AW-21																										
4	AW-23																										
5	EMW-05																										
12	Field Blank																										
13	AW-01 Dup		WT 6		11/6/23	1440	4	X	X																		
14	Equipment Blank 1		WT 6		11/6/23	1645	4	X	X																		
15																											
16																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
EDW-23Q4-Rev 0		11/6/23	1709		11/6/23	1710	S.T	Y	Y	Y	Y

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<u>Aaron Rembertson</u>				
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):	<u>11/06/23</u>		





**Pace Analytical Services, LLC**  
2231 W. Altorfer Drive  
Peoria, IL 61615  
(800)752-6651

December 14, 2023

Brian Voelker  
Vistra - Edwards  
604 Pierce Boulevard  
O'Fallon, IL 62269

Dear Brian Voelker:

Please find enclosed the analytical results for the sample(s) the laboratory received. All testing is performed according to our current TNI accreditations unless otherwise noted. This report cannot be reproduced, except in full, without the written permission of Pace Analytical Services, LLC.

If you have any questions regarding your report, please contact your project manager. Quality and timely data is of the utmost importance to us.

Pace Analytical Services appreciates the opportunity to provide you with analytical expertise. We are always trying to improve our customer service and we welcome you to contact the General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or [lisa.grant@pacelabs.com](mailto:lisa.grant@pacelabs.com).

Sincerely,

A handwritten signature in black ink that reads "Diane Billings". The signature is written in a cursive, flowing style.

Diane Billings  
Project Manager





**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

---

Work Order    GK00259

---

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



---

Work Order    GK00479

---

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



---

Work Order    GK00657

---

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
NO	Zero headspace, <6 mm present in VOA vials
NO	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



---

Work Order    GK00902

---

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
NO	Short hold time analysis
YES	Current PDC COC submitted
NO	Case narrative provided



**ANALYTICAL RESULTS**

**Sample:** GK00259-01  
**Name:** AW-17  
**Matrix:** Ground Water - Grab

**Sampled:** 11/01/23 11:33  
**Received:** 11/01/23 16:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	2.75	pCi/L			1	0.699	11/21/23 14:19	PACE	904.0 903.0

**Sample:** GK00259-02  
**Name:** AW-18  
**Matrix:** Ground Water - Grab

**Sampled:** 11/01/23 12:55  
**Received:** 11/01/23 16:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	4.06	pCi/L			1	0.713	11/21/23 14:19	PACE	904.0 903.0

**Sample:** GK00259-03  
**Name:** AW-19  
**Matrix:** Ground Water - Grab

**Sampled:** 11/01/23 14:12  
**Received:** 11/01/23 16:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.982	pCi/L			1	0.531	11/21/23 14:19	PACE	904.0 903.0

**Sample:** GK00259-04  
**Name:** AW-20  
**Matrix:** Ground Water - Grab

**Sampled:** 11/01/23 15:36  
**Received:** 11/01/23 16:09

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.72	pCi/L			1	0.741	11/21/23 14:19	PACE	904.0 903.0





**ANALYTICAL RESULTS**

**Sample:** GK00479-01  
**Name:** AW-15  
**Matrix:** Ground Water - Grab

**Sampled:** 11/02/23 13:19  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	5.52	pCi/L			1	0.628	11/22/23 21:28	PACE	904.0 903.0

**Sample:** GK00479-02  
**Name:** AW-15S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/02/23 14:31  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.7	pCi/L			1	0.511	11/22/23 21:28	PACE	904.0 903.0

**Sample:** GK00479-03  
**Name:** AW-16  
**Matrix:** Ground Water - Grab

**Sampled:** 11/02/23 13:38  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	3.93	pCi/L			1	0.657	11/22/23 21:28	PACE	904.0 903.0

**Sample:** GK00479-04  
**Name:** AW-21  
**Matrix:** Ground Water - Grab

**Sampled:** 11/02/23 13:10  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.26	pCi/L			1	0.537	11/22/23 21:28	PACE	904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GK00479-05  
**Name:** FIELD BLANK  
**Matrix:** DI Water - Field Blank

**Sampled:** 11/02/23 13:15  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.04	pCi/L			1	0.593	11/22/23 21:28	PACE	904.0 903.0

**Sample:** GK00479-06  
**Name:** AW-16 FD  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 11/02/23 13:38  
**Received:** 11/02/23 16:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	4.6	pCi/L			1	0.749	11/22/23 21:28	PACE	904.0 903.0

**Sample:** GK00657-01  
**Name:** AP07S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/23 13:20  
**Received:** 11/03/23 15:03

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.02	pCi/L			1	0.523	12/12/23 14:33	PACE	904.0 903.0

**Sample:** GK00657-02  
**Name:** AW-11  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/23 14:10  
**Received:** 11/03/23 15:03

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.94	pCi/L			1	0.533	12/12/23 14:33	PACE	904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GK00657-03  
**Name:** AW-14  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/23 13:14  
**Received:** 11/03/23 15:03

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.87	pCi/L			1	0.679	12/12/23 14:33	PACE	904.0 903.0

**Sample:** GK00657-04  
**Name:** AW-23  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/23 11:30  
**Received:** 11/03/23 15:03

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.85	pCi/L			1	0.852	12/12/23 14:33	PACE	904.0 903.0

**Sample:** GK00657-05  
**Name:** EMW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 11/03/23 11:43  
**Received:** 11/03/23 15:03

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.519	pCi/L			1	0.439	12/12/23 14:33	PACE	904.0 903.0

**Sample:** GK00902-01  
**Name:** AP05S  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 11:00  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	3.94	pCi/L			1	0.861	12/12/23 14:33	PACE	904.0 903.0



**ANALYTICAL RESULTS**

**Sample:** GK00902-02  
**Name:** APW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 12:10  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	3.7	pCi/L			1	0.78	12/12/23 14:33	PACE	904.0 903.0
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**Sample:** GK00902-03  
**Name:** AW-01  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 14:40  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	4.72	pCi/L			1	0.694	12/12/23 14:33	PACE	904.0 903.0
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**Sample:** GK00902-04  
**Name:** AW-05  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 15:47  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	0.465 J	pCi/L			1	0.48	12/12/23 14:33	PACE	904.0 903.0
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**Sample:** GK00902-05  
**Name:** AW-06  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 12:50  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	0.785	pCi/L			1	0.438	12/12/23 14:33	PACE	904.0 903.0
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**ANALYTICAL RESULTS**

**Sample:** GK00902-06  
**Name:** AW-08  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 16:13  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	29.1	pCi/L			1	1.29	12/12/23 14:33	PACE	904.0 903.0

**Sample:** GK00902-07  
**Name:** AW-09  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 11:15  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	1.35	pCi/L			1	0.565	12/12/23 14:33	PACE	904.0 903.0

**Sample:** GK00902-08  
**Name:** AW-10  
**Matrix:** Ground Water - Grab

**Sampled:** 11/06/23 14:40  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	3.58	pCi/L			1	1.15	12/12/23 14:33	PACE	904.0 903.0

**Sample:** GK00902-09  
**Name:** AW-01 DUP  
**Matrix:** Ground Water - Field Duplicate

**Sampled:** 11/06/23 14:40  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<b>Miscellaneous - Pace Analytical - Mt Juliet, Tn</b>									
Rad 226 and 228-Subcontract	0.0339 U	pCi/L			1	0.604	12/12/23 14:33	PACE	904.0 903.0





### ANALYTICAL RESULTS

**Sample:** GK00902-10  
**Name:** EQUIPMENT BLANK 1  
**Matrix:** DI Water - Equipment Blank

**Sampled:** 11/06/23 16:45  
**Received:** 11/06/23 17:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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**Miscellaneous - Pace Analytical - Mt Juliet, Tn**

Rad 226 and 228-Subcontract	0.846	pCi/L			1	0.48	12/12/23 14:33	PACE	904.0 903.0
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**QC SAMPLE RESULTS**

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<b>Parameter</b>	<b>Result</b>	<b>Unit</b>	<b>Qual</b>	<b>Spike Level</b>	<b>Source Result</b>	<b>%REC</b>	<b>%REC Limits</b>	<b>RPD</b>	<b>RPD Limit</b>
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## NOTES

Specifications regarding method revisions, method modifications, and calculations used for analysis are available upon request. Please contact your project manager.

\* Not a TNI accredited analyte

### Certifications

CHI - McHenry, IL - 4314-A W. Crystal Lake Road, McHenry, IL 60050

TNI Accreditation for Drinking Water and Wastewater Fields of Testing through IL EPA Accreditation No. 100279  
Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17556

PIA - Peoria, IL - 2231 W. Altorfer Drive, Peoria, IL 61615

TNI Accreditation for Drinking Water, Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. 100230

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory Registry No. 17553

Drinking Water Certifications/Accreditations: Iowa (240); Kansas (E-10338); Missouri (870)

Wastewater Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

Solid and Hazardous Material Certifications/Accreditations: Arkansas (88-0677); Iowa (240); Kansas (E-10338)

SPMO - Springfield, MO - 1805 W Sunset Street, Springfield, MO 65807

USEPA DMR-QA Program

STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through KS KDHE Certification No. E-10389

TNI Accreditation for Wastewater, Solid and Hazardous Material Fields of Testing through IL EPA Accreditation No. - 200080

Illinois Department of Public Health Bacterial Analysis in Drinking Water Approved Laboratory, Registry No. 171050

Missouri Department of Natural Resources - Certificate of Approval for Microbiological Laboratory Service - No. 1050



Certified by: Diane Billings, Project Manager

# ANALYTICAL REPORT

November 30, 2023

## Pace IR - Peoria, IL

Sample Delivery Group: L1673770  
Samples Received: 11/03/2023  
Project Number: GK00259  
Description:  
Site: 01  
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:

*Haley Torrence*  
[Preliminary Report]

Haley Torrence  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

15

ACCOUNT:  
Pace IR - Peoria, IL

PROJECT:  
GK00259

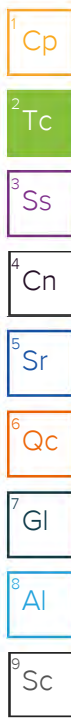
SDG:  
L1673770

DATE/TIME:  
11/30/23 10:24

PAGE:  
1 of 14

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Collected by  
 Collected date/time  
 Received date/time

GK00259-01 L1673770-01 Non-Potable Water

11/01/23 11:33  
 11/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2171834	1	11/15/23 22:43	11/21/23 14:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166556	1	11/09/23 15:03	11/21/23 14:19	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2166556	1	11/09/23 15:03	11/13/23 17:48	RRE	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00259-02 L1673770-02 Non-Potable Water

11/01/23 12:55  
 11/03/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2171834	1	11/15/23 22:43	11/21/23 14:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166556	1	11/09/23 15:03	11/21/23 14:19	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2166556	1	11/09/23 15:03	11/13/23 17:48	RRE	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00259-03 L1673770-03 Non-Potable Water

11/01/23 14:12  
 11/03/23 09:00

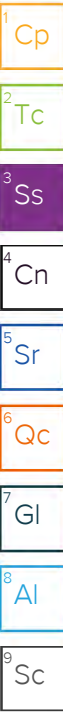
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2171834	1	11/15/23 22:43	11/21/23 14:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166556	1	11/09/23 15:03	11/21/23 14:19	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2166556	1	11/09/23 15:03	11/13/23 17:48	RRE	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00259-04 L1673770-04 Non-Potable Water

11/01/23 15:36  
 11/03/23 09:00

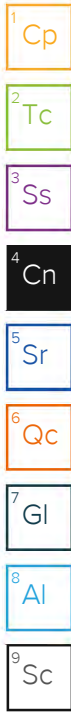
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2171834	1	11/15/23 22:43	11/21/23 14:19	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2166556	1	11/09/23 15:03	11/21/23 14:19	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2166556	1	11/09/23 15:03	11/13/23 17:48	RRE	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

[Preliminary Report]  
*Haley Torrence*

Haley Torrence  
Project Manager



Collected date: 11/01/23 14:23  
 EDW-257-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.90		0.404		0.664		11/21/2023 14:19	<a href="#">WG2171834</a>
(T) Barium	109					30.0-143	11/21/2023 14:19	<a href="#">WG2171834</a>
(T) Yttrium	114					30.0-136	11/21/2023 14:19	<a href="#">WG2171834</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.75		0.519	0.699	11/21/2023 14:19	<a href="#">WG2166556</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/g		+ / -	+ / -	pCi/g	pCi/g	date / time	
RADIUM-226	0.859		0.326	0.150	0.219	0.153	11/13/2023 17:48	<a href="#">WG2166556</a>
(T) Barium-133	89.5					30.0-143	11/13/2023 17:48	<a href="#">WG2166556</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Collected date: 11/01/23 12:55  
 EDW-257-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	3.10		0.439		0.696		11/21/2023 14:19	<a href="#">WG2171834</a>
(T) Barium	119					30.0-143	11/21/2023 14:19	<a href="#">WG2171834</a>
(T) Yttrium	115					30.0-136	11/21/2023 14:19	<a href="#">WG2171834</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.06		0.558	0.713	11/21/2023 14:19	<a href="#">WG2166556</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/g		+ / -	+ / -	pCi/g	pCi/g	date / time	
RADIUM-226	0.952		0.345	0.159	0.155	0.125	11/13/2023 17:48	<a href="#">WG2166556</a>
(T) Barium-133	88.1					30.0-143	11/13/2023 17:48	<a href="#">WG2166556</a>

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn  
 5 Sr  
 6 Qc  
 7 Gl  
 8 Al  
 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.449	J	0.299		0.515		11/21/2023 14:19	<a href="#">WG2171834</a>
(T) Barium	111					30.0-143	11/21/2023 14:19	<a href="#">WG2171834</a>
(T) Yttrium	99.4					30.0-136	11/21/2023 14:19	<a href="#">WG2171834</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.982		0.382	0.531	11/21/2023 14:19	<a href="#">WG2166556</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/g		+ / -	+ / -	pCi/g	pCi/g	date / time	
RADIUM-226	0.532		0.238	0.107	0.130	0.106	11/13/2023 17:48	<a href="#">WG2166556</a>
(T) Barium-133	86.8					30.0-143	11/13/2023 17:48	<a href="#">WG2166556</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.17		0.430		0.728		11/21/2023 14:19	<a href="#">WG2171834</a>
(T) Barium	113					30.0-143	11/21/2023 14:19	<a href="#">WG2171834</a>
(T) Yttrium	94.9					30.0-136	11/21/2023 14:19	<a href="#">WG2171834</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.72		0.496	0.741	11/21/2023 14:19	<a href="#">WG2166556</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/g		+ / -	+ / -	pCi/g	pCi/g	date / time	
RADIUM-226	0.555		0.248	0.114	0.136	0.110	11/13/2023 17:48	<a href="#">WG2166556</a>
(T) Barium-133	89.2					30.0-143	11/13/2023 17:48	<a href="#">WG2166556</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

EDW-257-301  
Method Blank (MB)

(MB) R4005417-1 11/21/23 14:19

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.406		0.184	0.315	
(T) Barium	89.6		89.6		
(T) Yttrium	109		109		

L1673770-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1673770-04 11/21/23 14:19 • (DUP) R4005417-5 11/21/23 14:19

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.17	0.430	0.728		-0.0160	0.321	0.573		200	2.20	<u>U</u>	20	3
(T) Barium	113				105	105							
(T) Yttrium	94.9				118	118							

Laboratory Control Sample (LCS)

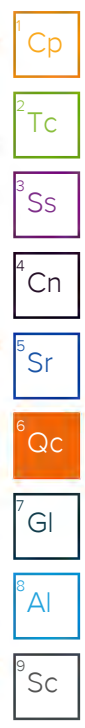
(LCS) R4005417-2 11/21/23 14:19

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.54	111	80.0-120	
(T) Barium			120		
(T) Yttrium			119		

L1673772-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1673772-03 11/21/23 14:19 • (MS) R4005417-3 11/21/23 14:19 • (MSD) R4005417-4 11/21/23 14:19

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	0.591	16.6	18.0	96.0	104	1	70.0-130			7.86		20
(T) Barium		125			112	111							
(T) Yttrium		116			104	114							



Method Blank (MB)

(MB) R4005932-1 11/13/23 17:48

Analyte	MB Result pCi/g	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/g	MB Lc pCi/g
Radium-226	0.00880	<u>U</u>	0.0323	0.0566	0.0350
(T) Barium-133	78.7		78.7		

L1673772-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1673772-03 11/13/23 17:48 • (DUP) R4005932-5 11/13/23 17:48

Analyte	Original Result pCi/g	Original 2 sigma CE + / -	Original MDA pCi/g	Original Lc pCi/g	DUP Result pCi/g	DUP 2 sigma CE + / -	DUP MDA pCi/g	DUP Lc pCi/g	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.148	0.165	0.222	0.158	-0.107	0.210	0.429	0.269	200	0.956	<u>U</u>	20	3
(T) Barium-133	86.7				67.6	67.6							

Laboratory Control Sample (LCS)

(LCS) R4005932-2 11/13/23 17:48

Analyte	Spike Amount pCi/g	LCS Result pCi/g	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.55	111	80.0-120	
(T) Barium-133			74.5		

L1664280-28 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664280-28 11/13/23 17:48 • (MS) R4005932-3 11/13/23 17:48 • (MSD) R4005932-4 11/13/23 17:48

Analyte	Spike Amount pCi/g	Original Result pCi/g	MS Result pCi/g	MSD Result pCi/g	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	1.15	24.3	25.2	116	120	1	75.0-125			3.68		20
(T) Barium-133		63.1			70.0	57.1							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

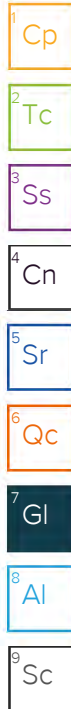
Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.



Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

APPENDIX A.  
 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT, ASH POND  
 EDW-257-301

# ACCREDITATIONS & LOCATIONS

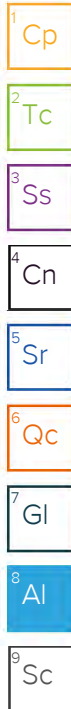
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

A093

**Pace Analytical Services, LLC**  
**GK00259**

**SENDING LABORATORY**

PDC Laboratories, Inc.  
 2231 W Altorfer Dr  
 Peoria, IL 61615  
 (800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
 12065 Lebanon Rd  
 Mt Juliet, TN 37122  
 (615) 758-5858

467370

**Sample: GK00259-01**  
**Name: AW-17**

**Sampled: 11/01/23 11:33**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

61

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/14/23 16:00	04/29/24 11:33	need Ra-226 , Ra-228, total combined and QC forms

**Sample: GK00259-02**  
**Name: AW-18**

**Sampled: 11/01/23 12:55**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

62

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/14/23 16:00	04/29/24 12:55	need Ra-226 , Ra-228, total combined and QC forms

**Sample: GK00259-03**  
**Name: AW-19**

**Sampled: 11/01/23 14:12**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

63

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/14/23 16:00	04/29/24 14:12	need Ra-226 , Ra-228, total combined and QC forms

**Sample: GK00259-04**  
**Name: AW-20**

**Sampled: 11/01/23 15:36**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

64

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/14/23 16:00	04/29/24 15:36	need Ra-226 , Ra-228, total combined and QC forms

**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

**Pace Analytical Services, LLC**  
**GK00259**

PH-10BDH4321 TR-035236  
 CR6-20221V



12.230 = 12.2 DP

Sample Receipt Checklist	
COC Seal Present/Intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
RA Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

703 7808 0285 Please email results to Diane Billings at [diane.billings@pacelabs.com](mailto:diane.billings@pacelabs.com)

Date Shipped: 11/2/23 Total # of Containers: 4 Sample Origin (State): IL PO #: \_\_\_\_\_

Turn-Around Time Requested  NORMAL  RUSH Date Results Needed: \_\_\_\_\_

	<u>11/2/23 10:25</u>		<u>11/3/23 9:00</u>	Sample Temperature Upon Receipt	_____ °C
Relinquished By	Date/Time	Received By	Date/Time	Sample(s) Received on Ice	Y or N
				Proper Bottles Received in Good Condition	Y or N
				Bottles Filled with Adequate Volume	Y or N
				Samples Received Within Hold Time	Y or N
Relinquished By	Date/Time	Received By	Date/Time	Date/Time Taken From Sample Bottle	Y or N

# ANALYTICAL REPORT

December 04, 2023

## Pace IR - Peoria, IL

Sample Delivery Group: L1674446  
Samples Received: 11/06/2023  
Project Number: GK00479  
Description:  
  
Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:

*Haley Torrence*  
[Preliminary Report]

Haley Torrence  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

29

ACCOUNT:  
Pace IR - Peoria, IL

PROJECT:  
GK00479

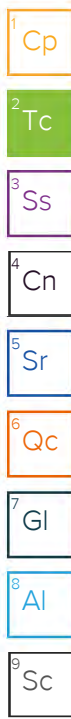
SDG:  
L1674446

DATE/TIME:  
12/04/23 13:37

PAGE:  
1 of 16

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<b>Cn: Case Narrative</b>	<b>4</b>
<b>Sr: Sample Results</b>	<b>5</b>
GK00479-01 L1674446-01	<b>5</b>
GK00479-02 L1674446-02	<b>6</b>
GK00479-03 L1674446-03	<b>7</b>
GK00479-04 L1674446-04	<b>8</b>
GK00479-05 L1674446-05	<b>9</b>
GK00479-06 L1674446-06	<b>10</b>
<b>Qc: Quality Control Summary</b>	<b>11</b>
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Radiochemistry by Method SM7500Ra B M	<b>12</b>
<b>Gl: Glossary of Terms</b>	<b>13</b>
<b>Al: Accreditations &amp; Locations</b>	<b>14</b>
<b>Sc: Sample Chain of Custody</b>	<b>15</b>



Collected by  
 Collected date/time  
 Received date/time

GK00479-01 L1674446-01 Non-Potable Water

11/02/23 13:19  
 11/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2173611	1	11/17/23 23:39	11/22/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2169128	1	11/14/23 12:16	11/22/23 21:28	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2169128	1	11/14/23 12:16	11/16/23 12:04	RRE	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00479-02 L1674446-02 Non-Potable Water

11/02/23 14:31  
 11/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2173611	1	11/17/23 23:39	11/22/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2169128	1	11/14/23 12:16	11/22/23 21:28	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2169128	1	11/14/23 12:16	11/16/23 12:04	RRE	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00479-03 L1674446-03 Non-Potable Water

11/02/23 13:38  
 11/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2173611	1	11/17/23 23:39	11/22/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2169128	1	11/14/23 12:16	11/22/23 21:28	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2169128	1	11/14/23 12:16	11/16/23 12:04	RRE	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00479-04 L1674446-04 Non-Potable Water

11/02/23 13:10  
 11/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2173611	1	11/17/23 23:39	11/22/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2169128	1	11/14/23 12:16	11/22/23 21:28	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2169128	1	11/14/23 12:16	11/16/23 12:04	RRE	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00479-05 L1674446-05 Non-Potable Water

11/02/23 13:15  
 11/06/23 09:00

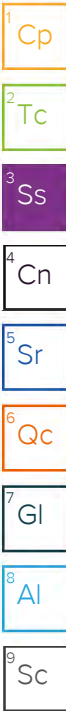
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2173611	1	11/17/23 23:39	11/22/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2169128	1	11/14/23 12:16	11/22/23 21:28	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2169128	1	11/14/23 12:16	11/16/23 12:04	RRE	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00479-06 L1674446-06 Non-Potable Water

11/02/23 13:38  
 11/06/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2173611	1	11/17/23 23:39	11/22/23 21:28	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2169128	1	11/14/23 12:16	11/22/23 21:28	RRE	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2169128	1	11/14/23 12:16	11/16/23 12:04	RRE	Mt. Juliet, TN

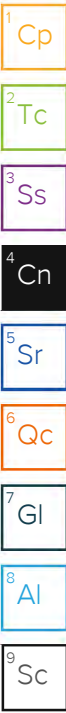




All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

[Preliminary Report]  
*Haley Torrence*

Haley Torrence  
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	3.48		0.379		0.553		11/22/2023 21:28	<a href="#">WG2173611</a>
(T) Barium	105					30.0-143	11/22/2023 21:28	<a href="#">WG2173611</a>
(T) Yttrium	101					30.0-136	11/22/2023 21:28	<a href="#">WG2173611</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	5.52		0.656	0.628	11/22/2023 21:28	<a href="#">WG2169128</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	2.05		0.536	0.233	0.298	0.200	11/16/2023 12:04	<a href="#">WG2169128</a>
(T) Barium-133	81.9					30.0-143	11/16/2023 12:04	<a href="#">WG2169128</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.41		0.252		0.396		11/22/2023 21:28	<a href="#">WG2173611</a>
(T) Barium	110					30.0-143	11/22/2023 21:28	<a href="#">WG2173611</a>
(T) Yttrium	105					30.0-136	11/22/2023 21:28	<a href="#">WG2173611</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.70		0.368	0.511	11/22/2023 21:28	<a href="#">WG2169128</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.290	J	0.268	0.0805	0.323	0.234	11/16/2023 12:04	<a href="#">WG2169128</a>
(T) Barium-133	61.6					30.0-143	11/16/2023 12:04	<a href="#">WG2169128</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.90		0.378		0.602		11/22/2023 21:28	<a href="#">WG2173611</a>
(T) Barium	100					30.0-143	11/22/2023 21:28	<a href="#">WG2173611</a>
(T) Yttrium	101					30.0-136	11/22/2023 21:28	<a href="#">WG2173611</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.93		0.634	0.657	11/22/2023 21:28	<a href="#">WG2169128</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	2.04		0.509	0.236	0.264	0.179	11/16/2023 12:04	<a href="#">WG2169128</a>
(T) Barium-133	84.9					30.0-143	11/16/2023 12:04	<a href="#">WG2169128</a>

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn  
 5 Sr  
 6 Qc  
 7 Gl  
 8 Al  
 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.05		0.309		0.505		11/22/2023 21:28	<a href="#">WG2173611</a>
(T) Barium	107					30.0-143	11/22/2023 21:28	<a href="#">WG2173611</a>
(T) Yttrium	102					30.0-136	11/22/2023 21:28	<a href="#">WG2173611</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.26		0.354	0.537	11/22/2023 21:28	<a href="#">WG2169128</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.216		0.173	0.0662	0.184	0.137	11/16/2023 12:04	<a href="#">WG2169128</a>
(T) Barium-133	77.4					30.0-143	11/16/2023 12:04	<a href="#">WG2169128</a>

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn  
 5 Sr  
 6 Qc  
 7 Gl  
 8 Al  
 9 Sc

EDW-257-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.04		0.329		0.542		11/22/2023 21:28	<a href="#">WG2173611</a>
(T) Barium	117					30.0-143	11/22/2023 21:28	<a href="#">WG2173611</a>
(T) Yttrium	99.5					30.0-136	11/22/2023 21:28	<a href="#">WG2173611</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.04		0.338	0.593	11/22/2023 21:28	<a href="#">WG2169128</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	-0.0535	<u>U</u>	0.0793	0.0171	0.241	0.166	11/16/2023 12:04	<a href="#">WG2169128</a>
(T) Barium-133	84.2					30.0-143	11/16/2023 12:04	<a href="#">WG2169128</a>

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn  
 5 Sr  
 6 Qc  
 7 Gl  
 8 Al  
 9 Sc



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	2.24		0.419		0.667		11/22/2023 21:28	<a href="#">WG2173611</a>
(T) Barium	115					30.0-143	11/22/2023 21:28	<a href="#">WG2173611</a>
(T) Yttrium	98.8					30.0-136	11/22/2023 21:28	<a href="#">WG2173611</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.60		0.752	0.749	11/22/2023 21:28	<a href="#">WG2169128</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	2.36		0.625	0.253	0.341	0.231	11/16/2023 12:04	<a href="#">WG2169128</a>
(T) Barium-133	76.6					30.0-143	11/16/2023 12:04	<a href="#">WG2169128</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

EDW-257-301

Method Blank (MB)

(MB) R4005431-1 11/22/23 21:28

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.205	↓	0.157	0.267	
(T) Barium	113		113		
(T) Yttrium	99.8		99.8		

L1674446-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1674446-04 11/22/23 21:28 • (DUP) R4005431-5 11/22/23 21:28

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	1.05	0.309	0.505		1.55	0.414	0.676		38.8	0.976		20	3
(T) Barium	107				104	104							
(T) Yttrium	102				105	105							

Laboratory Control Sample (LCS)

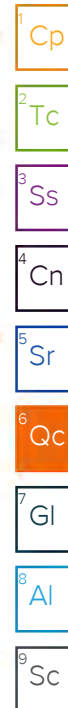
(LCS) R4005431-2 11/22/23 21:28

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.10	102	80.0-120	
(T) Barium			122		
(T) Yttrium			98.7		

L1674446-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1674446-05 11/22/23 21:28 • (MS) R4005431-3 11/22/23 21:28 • (MSD) R4005431-4 11/22/23 21:28

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	1.04	16.7	15.7	93.9	87.5	1	70.0-130			6.55		20
(T) Barium		117			121	119							
(T) Yttrium		99.5			101	100							



Method Blank (MB)

(MB) R4007716-1 11/16/23 12:04

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.000	<u>U</u>	0.0407	0.0795	0.0525
(T) Barium-133	81.6		81.6		

L1674446-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1674446-04 11/16/23 12:04 • (DUP) R4007716-5 11/16/23 12:04

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.216	0.173	0.184	0.137	0.517	0.351	0.414	0.259	82.1	0.768		20	3
(T) Barium-133	77.4				70.2	70.2							

Laboratory Control Sample (LCS)

(LCS) R4007716-2 11/16/23 12:04

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.04	101	80.0-120	
(T) Barium-133			75.1		

L1664280-36 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1664280-36 11/16/23 12:04 • (MS) R4007716-3 11/16/23 12:04 • (MSD) R4007716-4 11/16/23 12:04

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.603	20.6	20.3	99.8	98.7	1	75.0-125			1.12		20
(T) Barium-133		68.9			60.8	51.7							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

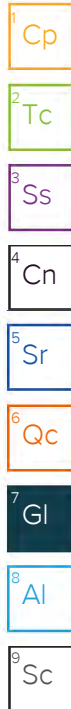
Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.



Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

APPENDIX A. ACCREDITATIONS & LOCATIONS  
 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT, ASH POND  
 EDW-257-301

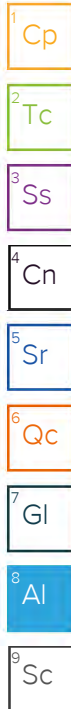
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

C023

**Pace Analytical Services, LLC**

**GK00479**

**SENDING LABORATORY**

PDC Laboratories, Inc.  
 2231 W Altorfer Dr  
 Peoria, IL 61615  
 (800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
 12065 Lebanon Rd  
 Mt Juliet, TN 37122  
 (615) 758-5858

L1674446

**Sample: GK00479-01**  
**Name: AW-15**

**Sampled: 11/02/23 13:19**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-01

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/15/23 16:00	04/30/24 13:19	need Ra-226 , Ra-228, total combined and QC forms

**Sample: GK00479-02**  
**Name: AW-15S**

**Sampled: 11/02/23 14:31**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-02

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/15/23 16:00	04/30/24 14:31	need Ra-226 , Ra-228, total combined and QC forms

**Sample: GK00479-03**  
**Name: AW-16**

**Sampled: 11/02/23 13:38**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-03

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/15/23 16:00	04/30/24 13:38	need Ra-226 , Ra-228, total combined and QC forms

**Sample: GK00479-04**  
**Name: AW-21**

**Sampled: 11/02/23 13:10**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-04

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/15/23 16:00	04/30/24 13:10	need Ra-226 , Ra-228, total combined and QC forms



**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

**Pace Analytical Services, LLC**  
**GK00479**

**SENDING LABORATORY**

PDC Laboratories, Inc.  
2231 W Altorfer Dr  
Peoria, IL 61615  
(800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
12065 Lebanon Rd  
Mt Juliet, TN 37122  
(615) 758-5858

**Sample: GK00479-05**  
**Name: FIELD BLANK**

**Sampled: 11/02/23 13:15**  
**Matrix: DI Water**  
**Preservative: HNO3, pH <2**

-05

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/15/23 16:00	04/30/24 13:15	need Ra-226 , Ra-228, total combined and QC forms

**Sample: GK00479-06**  
**Name: AW-16 FD**

**Sampled: 11/02/23 13:38**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-06

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/15/23 16:00	04/30/24 13:38	need Ra-226 , Ra-228, total combined and QC forms

TDAS 19-610 = 19.6

Sample Receipt Checklist

DOC Seal Present/Intact:  Y  N If Applicable

DOC Signed/Accurate:  Y  N VOA Zero Headspace:  Y  N

Bottles arrive intact:  Y  N Pres. Correct/Check:  Y  N

Correct bottles used:  Y  N

Sufficient volume sent:  Y  N

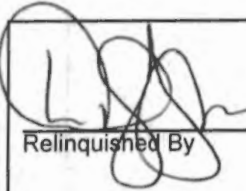
RA Screen <0.5 mR/hr:  Y  N

700378080767

Please email results to Diane Billings at [diane.billings@pacelabs.com](mailto:diane.billings@pacelabs.com)

Date Shipped: 11/3/23 Total # of Containers: 6 Sample Origin (State): IL PO #: \_\_\_\_\_

Turn-Around Time Requested  NORMAL  RUSH Date Results Needed: \_\_\_\_\_

	<u>11/3/23 1105</u>	<u>Timothy McCreary</u>	<u>11-6-23 0900</u>	Sample Temperature Upon Receipt _____ °C
Relinquished By	Date/Time	Received By	Date/Time	Sample(s) Received on Ice Y or N
				Proper Bottles Received in Good Condition Y or N
				Bottles Filled with Adequate Volume Y or N
				Samples Received Within Hold Time Y or N
				Date/Time Taken From Sample Bottle Y or N
Relinquished By	Date/Time	Received By	Date/Time	

# ANALYTICAL REPORT

December 14, 2023

Revised Report

## Pace IR - Peoria, IL

Sample Delivery Group: L1676548  
Samples Received: 11/09/2023  
Project Number: GK00657  
Description:

Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:

*Haley Torrence*  
[Preliminary Report]

Haley Torrence  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

45

ACCOUNT:  
Pace IR - Peoria, IL

PROJECT:  
GK00657

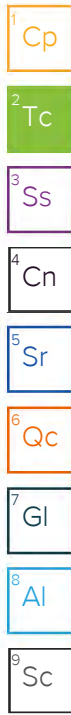
SDG:  
L1676548

DATE/TIME:  
12/14/23 09:36

PAGE:  
1 of 17

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<b>Cn: Case Narrative</b>	<b>4</b>
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GK00657-02 L1676548-02	<b>6</b>
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APPENDIX A.  
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
EDWARDS POWER PLANT, ASH POND  
EDW-257-301

SAMPLE SUMMARY

Collected by  
Collected date/time  
Received date/time

GK00657-01 L1676548-01 Non-Potable Water

11/03/23 13:20  
11/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2178189	1	11/27/23 18:36	12/01/23 21:21	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN

Collected by  
Collected date/time  
Received date/time

GK00657-02 L1676548-02 Non-Potable Water

11/03/23 14:10  
11/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2178189	1	11/27/23 18:36	12/01/23 21:21	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN

Collected by  
Collected date/time  
Received date/time

GK00657-03 L1676548-03 Non-Potable Water

11/03/23 13:14  
11/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2178189	1	11/27/23 18:36	12/01/23 21:21	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN

Collected by  
Collected date/time  
Received date/time

GK00657-04 L1676548-04 Non-Potable Water

11/03/23 11:30  
11/09/23 09:00

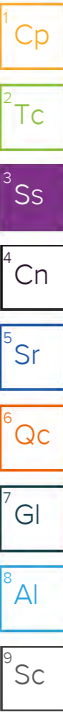
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2178189	1	11/27/23 18:36	12/01/23 21:21	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN

Collected by  
Collected date/time  
Received date/time

GK00657-05 L1676548-05 Non-Potable Water

11/03/23 11:43  
11/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2178189	1	11/27/23 18:36	12/01/23 21:21	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

[Preliminary Report]  
*Haley Torrence*

Haley Torrence  
Project Manager

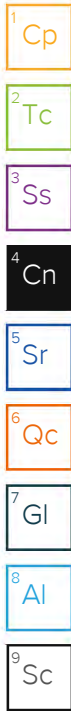
### Report Revision History

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Level II Report - Version 1: 12/13/23 15:13

### Project Narrative

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Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.799		0.227		0.378		12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Barium	104					30.0-143	12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Yttrium	107					30.0-136	12/01/2023 21:21	<a href="#">WG2178189</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.02		0.347	0.523	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.222	J	0.262	0.102	0.362	0.243	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	85.1					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn  
 5 Sr  
 6 Qc  
 7 Gl  
 8 Al  
 9 Sc



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.681		0.258		0.439		12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Barium	128					30.0-143	12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Yttrium	113					30.0-136	12/01/2023 21:21	<a href="#">WG2178189</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.94		0.542	0.533	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.25		0.477	0.211	0.303	0.217	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	86.0					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.52		0.355		0.585		12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Barium	121					30.0-143	12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Yttrium	109					30.0-136	12/01/2023 21:21	<a href="#">WG2178189</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.87		0.457	0.679	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.351		0.288	0.117	0.345	0.230	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	85.8					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn  
 5 Sr  
 6 Qc  
 7 Gl  
 8 Al  
 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.27		0.479		0.812		12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Barium	116					30.0-143	12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Yttrium	116					30.0-136	12/01/2023 21:21	<a href="#">WG2178189</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.85		0.562	0.852	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.583		0.293	0.136	0.259	0.176	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	93.4					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

EDW-257-301

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.137	<u>U</u>	0.203		0.360		12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Barium	109					30.0-143	12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Yttrium	107					30.0-136	12/01/2023 21:21	<a href="#">WG2178189</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.519		0.329	0.439	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.382		0.259	0.109	0.252	0.183	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	84.7					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

EDW-257-301

Method Blank (MB)

(MB) R4010971-1 12/01/23 21:21

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.292	J	0.189	0.328	
(T) Barium	79.5		79.5		
(T) Yttrium	100		100		

L1671061-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1671061-01 12/01/23 21:21 • (DUP) R4010971-5 12/01/23 21:21

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.806	0.364	0.630		0.846	0.500	0.862		4.90	0.0655	J	20	3
(T) Barium	81.5				81.6	81.6							
(T) Yttrium	95.8				99.3	99.3							

Laboratory Control Sample (LCS)

(LCS) R4010971-2 12/01/23 21:21

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.05	81.0	80.0-120	
(T) Barium			78.1		
(T) Yttrium			79.4		

L1671399-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1671399-01 12/01/23 21:21 • (MS) R4010971-3 12/01/23 21:21 • (MSD) R4010971-4 12/01/23 21:21

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	4.31	11.6	12.1	72.5	78.1	1	70.0-130			4.73		20
(T) Barium		82.5			83.5	82.8							
(T) Yttrium		109			102	101							

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

Method Blank (MB)

(MB) R4011543-2 12/12/23 14:33

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0186	<u>U</u>	0.0477	0.0843	0.0596
(T) Barium-133	75.3		75.3		

L1676546-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1676546-10 12/12/23 14:33 • (DUP) R4011543-5 12/12/23 14:33

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.541	0.309	0.272	0.195	0.0424	0.152	0.267	0.179	171	1.45	<u>U</u>	20	3
(T) Barium-133	97.6				99.4	99.4							

Laboratory Control Sample (LCS)

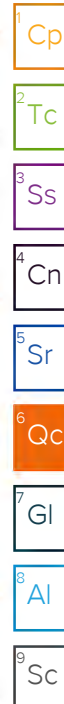
(LCS) R4011543-1 12/12/23 10:46

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.69	114	80.0-120	
(T) Barium-133			66.6		

L1676548-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1676548-05 12/12/23 14:33 • (MS) R4011543-3 12/12/23 14:33 • (MSD) R4011543-4 12/12/23 14:33

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.382	21.4	23.1	105	113	1	75.0-125			7.70		20
(T) Barium-133		84.7			83.3	72.2							





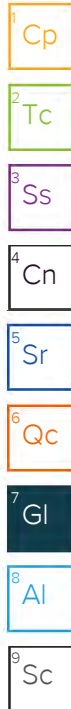
Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.



Qualifier Description

J	The identification of the analyte is acceptable; the reported value is an estimate.
U	Below Detectable Limits: Indicates that the analyte was not detected.

APPENDIX A. ACCREDITATIONS & LOCATIONS  
 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT, ASH POND  
 EDW-257-301

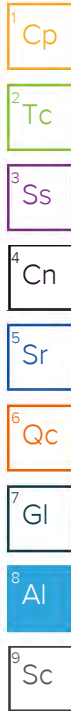
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**  
**Pace Analytical Services, LLC**  
**GK00657**

A060

**SENDING LABORATORY**

PDC Laboratories, Inc.  
 2231 W Altorfer Dr  
 Peoria, IL 61615  
 (800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
 12065 Lebanon Rd  
 Mt Juliet, TN 37122  
 (615) 758-5858

L1676548

**Sample: GK00657-01**  
**Name: AP07S**

**Sampled: 11/03/23 13:20**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-01

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/16/23 16:00	05/01/24 13:20	need Ra-226 , Ra-228, total combined and QC forms

**Sample: GK00657-02**  
**Name: AW-11**

**Sampled: 11/03/23 14:10**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-02

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/16/23 16:00	05/01/24 14:10	need Ra-226 , Ra-228, total combined and QC forms

**Sample: GK00657-03**  
**Name: AW-14**

**Sampled: 11/03/23 13:14**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-03

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/16/23 16:00	05/01/24 13:14	need Ra-226 , Ra-228, total combined and QC forms

**Sample: GK00657-04**  
**Name: AW-23**

**Sampled: 11/03/23 11:00**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

-04

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/16/23 16:00	05/01/24 11:00	need Ra-226 , Ra-228, total combined and QC forms

PH-108DH4321 TRC-2362362  
 CR6-20221V

**SUBCONTRACT ORDER**  
 Transfer Chain of Custody

Pace Analytical Services, LLC

GK00657

**SENDING LABORATORY**

PDC Laboratories, Inc.  
 2231 W Altorfer Dr  
 Peoria, IL 61615  
 (800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
 12065 Lebanon Rd  
 Mt Juliet, TN 37122  
 (615) 758-5858

*Handwritten:* 41670548  
 12/13/23 Lab

Sample: GK00657-05  
 Name: EMW-05

Sampled: 11/03/23 11:03  
 Matrix: Ground Water  
 Preservative: HNO3, pH <2

*Handwritten:* 143  
 -05

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/16/23 16:00	05/01/24 11:03	need Ra-226, Ra-228, total combined and QC forms

*Handwritten:* 7003 7808 3354  
 18.1 ± 0 = 18.1 MS  
 AS

Sample Receipt Checklist

COC Seal Present/Intact:	<input checked="" type="checkbox"/>	If Applicable	
COC Signed/Accurate:	<input checked="" type="checkbox"/>	VOA Zero Headspace:	<input checked="" type="checkbox"/>
Bottles arrive intact:	<input checked="" type="checkbox"/>	Pres. Correct/Check:	<input checked="" type="checkbox"/>
Correct bottles used:	<input checked="" type="checkbox"/>		
Sufficient volume sent:	<input checked="" type="checkbox"/>		
RA Screen <0.5 nR/hr:	<input checked="" type="checkbox"/>		

Please email results to Diane Billings at [diane.billings@pacelabs.com](mailto:diane.billings@pacelabs.com)

Date Shipped: 11/8/23 Total # of Containers: 5 Sample Origin (State): IL PO #: \_\_\_\_\_  
 Turn-Around-Time Requested  NORMAL  RUSH Date Results Needed: \_\_\_\_\_

Relinquished By: <i>[Signature]</i>	Date/Time: <u>11/8/23 11:20</u>	Received By: <i>[Signature]</i>	Date/Time: <u>11/9/23 9:00</u>	Sample Temperature Upon Receipt: _____ °C
				Sample(s) Received on Ice: Y or N
				Proper Bottles Received in Good Condition: Y or N
				Bottles Filled with Adequate Volume: Y or N
				Samples Received Within Hold Time: Y or N
				Date/Time Taken From Sample Bottle: Y or N



# ANALYTICAL REPORT

December 13, 2023

## Pace IR - Peoria, IL

Sample Delivery Group: L1676546  
Samples Received: 11/09/2023  
Project Number: GK00902  
Description:

Report To: Diane Billings  
2231 W. Altorfer Drive  
Peoria, IL 61615

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Entire Report Reviewed By:

*Haley Torrence*  
[Preliminary Report]

Haley Torrence  
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

60

ACCOUNT:  
Pace IR - Peoria, IL

PROJECT:  
GK00902

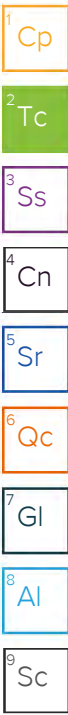
SDG:  
L1676546

DATE/TIME:  
12/13/23 15:06

PAGE:  
1 of 25

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GK00902-02 L1676546-02	<b>7</b>
GK00902-03 L1676546-03	<b>8</b>
GK00902-04 L1676546-04	<b>9</b>
GK00902-05 L1676546-05	<b>10</b>
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APPENDIX A. ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT, ASH POND  
 EDW-257-301

SAMPLE SUMMARY

Collected by  
 Collected date/time  
 Received date/time

GK00902-01 L1676546-01 Non-Potable Water

11/06/23 11:00  
 11/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2176321	1	11/22/23 14:02	11/28/23 20:05	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00902-02 L1676546-02 Non-Potable Water

11/06/23 12:10  
 11/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2176321	1	11/22/23 14:02	11/28/23 20:05	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00902-03 L1676546-03 Non-Potable Water

11/06/23 14:40  
 11/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2176321	1	11/22/23 14:02	11/28/23 20:05	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00902-04 L1676546-04 Non-Potable Water

11/06/23 15:47  
 11/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2178189	1	11/27/23 18:36	12/01/23 21:21	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00902-05 L1676546-05 Non-Potable Water

11/06/23 12:50  
 11/09/23 09:00

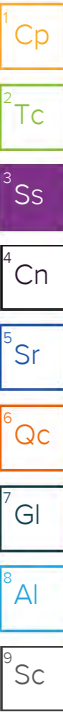
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2178189	1	11/27/23 18:36	12/01/23 21:21	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00902-06 L1676546-06 Non-Potable Water

11/06/23 16:13  
 11/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2178796	1	11/28/23 17:54	12/04/23 19:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN



Collected by  
 Collected date/time  
 Received date/time

GK00902-07 L1676546-07 Non-Potable Water

11/06/23 11:15  
 11/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2178189	1	11/27/23 18:36	12/01/23 21:21	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00902-08 L1676546-08 Non-Potable Water

11/06/23 14:40  
 11/09/23 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2178189	1	11/27/23 18:36	12/01/23 21:21	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00902-09 L1676546-09 Non-Potable Water

11/06/23 14:40  
 11/09/23 09:00

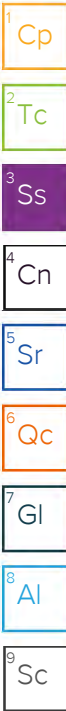
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2178796	1	11/28/23 17:54	12/04/23 19:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN

Collected by  
 Collected date/time  
 Received date/time

GK00902-10 L1676546-10 Non-Potable Water

11/06/23 16:45  
 11/09/23 09:00

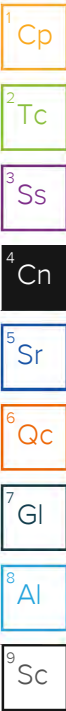
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2178796	1	11/28/23 17:54	12/04/23 19:53	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2172482	1	11/17/23 18:10	12/12/23 14:33	RGT	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All radiochemical sample results for solids are reported on a dry weight basis with the exception of tritium, carbon-14 and radon, unless wet weight was requested by the client. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

[Preliminary Report]  
*Haley Torrence*

Haley Torrence  
Project Manager



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	1.51		0.431		0.761		11/28/2023 20:05	<a href="#">WG2176321</a>
(T) Barium	113					30.0-143	11/28/2023 20:05	<a href="#">WG2176321</a>
(T) Yttrium	119					30.0-136	11/28/2023 20:05	<a href="#">WG2176321</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.94		0.838	0.861	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	2.43		0.719	0.239	0.403	0.279	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	62.9					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

1  
Cp

2  
Tc

3  
Ss

4  
Cn

5  
Sr

6  
Qc

7  
Gl

8  
Al

9  
Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	2.51		0.432		0.738		11/28/2023 20:05	<a href="#">WG2176321</a>
(T) Barium	115					30.0-143	11/28/2023 20:05	<a href="#">WG2176321</a>
(T) Yttrium	120					30.0-136	11/28/2023 20:05	<a href="#">WG2176321</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.70		0.619	0.780	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.19		0.443	0.199	0.253	0.188	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	87.0					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	4.46		0.417		0.652		11/28/2023 20:05	<a href="#">WG2176321</a>
(T) Barium	125					30.0-143	11/28/2023 20:05	<a href="#">WG2176321</a>
(T) Yttrium	119					30.0-136	11/28/2023 20:05	<a href="#">WG2176321</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.72		0.467	0.694	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.251		0.211	0.0899	0.237	0.173	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	86.9					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn  
 5 Sr  
 6 Qc  
 7 Gl  
 8 Al  
 9 Sc



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.195	J	0.239		0.420		12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Barium	102					30.0-143	12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Yttrium	101					30.0-136	12/01/2023 21:21	<a href="#">WG2178189</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.465	J	0.323	0.480	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.270		0.218	0.103	0.233	0.173	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	95.1					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.382	<u>U</u>	0.219		0.405		12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Barium	99.5					30.0-143	12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Yttrium	104					30.0-136	12/01/2023 21:21	<a href="#">WG2178189</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.785		0.384	0.438	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.785		0.315	0.147	0.168	0.132	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	90.3					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

1 Cp  
 2 Tc  
 3 Ss  
 4 Cn  
 5 Sr  
 6 Qc  
 7 Gl  
 8 Al  
 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	12.0		0.697		0.898		12/04/2023 19:53	<a href="#">WG2178796</a>
(T) Barium	135					30.0-143	12/04/2023 19:53	<a href="#">WG2178796</a>
(T) Yttrium	128					30.0-136	12/04/2023 19:53	<a href="#">WG2178796</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	29.1		2.68	1.29	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	17.1		2.59	1.23	0.933	0.616	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	82.9					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.328	J	0.216		0.376		12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Barium	115					30.0-143	12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Yttrium	102					30.0-136	12/01/2023 21:21	<a href="#">WG2178189</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.35		0.565	0.565	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.02		0.522	0.148	0.422	0.302	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	56.4					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	2.39		0.636		1.06		12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Barium	118					30.0-143	12/01/2023 21:21	<a href="#">WG2178189</a>
(T) Yttrium	103					30.0-136	12/01/2023 21:21	<a href="#">WG2178189</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.58		0.823	1.15	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	1.20		0.522	0.209	0.442	0.293	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	79.8					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	-0.315	<u>U</u>	0.264		0.489		12/04/2023 19:53	<a href="#">WG2178796</a>
(T) Barium	103					30.0-143	12/04/2023 19:53	<a href="#">WG2178796</a>
(T) Yttrium	117					30.0-136	12/04/2023 19:53	<a href="#">WG2178796</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.0339	<u>U</u>	0.325	0.604	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.0339	<u>U</u>	0.189	0.0707	0.354	0.241	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	89.9					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc



Radiochemistry by Method 904/9320

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-228	0.305	J	0.221		0.395		12/04/2023 19:53	<a href="#">WG2178796</a>
(T) Barium	111					30.0-143	12/04/2023 19:53	<a href="#">WG2178796</a>
(T) Yttrium	138	C1				30.0-136	12/04/2023 19:53	<a href="#">WG2178796</a>

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.846		0.380	0.480	12/12/2023 14:33	<a href="#">WG2172482</a>

Radiochemistry by Method SM7500Ra B M

Analyte	Result	Qualifier	2 sigma CE	TPU	MDA	Lc	Analysis Date	Batch
	pCi/l		+ / -	+ / -	pCi/l	pCi/l	date / time	
RADIUM-226	0.541		0.309	0.152	0.272	0.195	12/12/2023 14:33	<a href="#">WG2172482</a>
(T) Barium-133	97.6					30.0-143	12/12/2023 14:33	<a href="#">WG2172482</a>

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Qc
- 7 Gl
- 8 Al
- 9 Sc

EDW-257-301

Method Blank (MB)

(MB) R4009589-1 12/01/23 17:38

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.329		0.147	0.257	
(T) Barium	104		104		
(T) Yttrium	96.3		96.3		

L1670483-33 Original Sample (OS) • Duplicate (DUP)

(OS) L1670483-33 12/01/23 17:38 • (DUP) R4009589-5 12/01/23 17:38

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.501	0.360	0.638		0.902	0.373	0.650		57.2	0.774		20	3
(T) Barium	103				104	104							
(T) Yttrium	102				106	106							

Laboratory Control Sample (LCS)

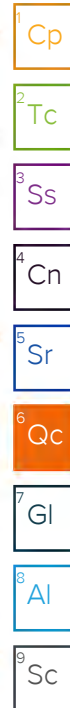
(LCS) R4009589-2 12/01/23 17:38

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.29	85.8	80.0-120	
(T) Barium			107		
(T) Yttrium			101		

L1672385-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1672385-10 11/28/23 20:05 • (MS) R4009589-3 12/01/23 17:38 • (MSD) R4009589-4 12/01/23 17:38

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	16.7	2.91	14.0	15.1	66.5	73.1	1	70.0-130	J6		7.62		20
(T) Barium		123			109	112							
(T) Yttrium		118			99.4	107							



Method Blank (MB)

(MB) R4010971-1 12/01/23 21:21

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.292	J	0.189	0.328	
(T) Barium	79.5		79.5		
(T) Yttrium	100		100		

L1671061-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1671061-01 12/01/23 21:21 • (DUP) R4010971-5 12/01/23 21:21

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.806	0.364	0.630		0.846	0.500	0.862		4.90	0.0655	J	20	3
(T) Barium	81.5				81.6	81.6							
(T) Yttrium	95.8				99.3	99.3							

Laboratory Control Sample (LCS)

(LCS) R4010971-2 12/01/23 21:21

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.05	81.0	80.0-120	
(T) Barium			78.1		
(T) Yttrium			79.4		

L1671399-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1671399-01 12/01/23 21:21 • (MS) R4010971-3 12/01/23 21:21 • (MSD) R4010971-4 12/01/23 21:21

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	4.31	11.6	12.1	72.5	78.1	1	70.0-130			4.73		20
(T) Barium		82.5			83.5	82.8							
(T) Yttrium		109			102	101							

1 Cp  
2 Tc  
3 Ss  
4 Cn  
5 Sr  
6 Qc  
7 Gl  
8 Al  
9 Sc

EDW-257-301

Method Blank (MB)

(MB) R4010925-1 12/04/23 19:53

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.445		0.147	0.254	
(T) Barium	106		106		
(T) Yttrium	135		135		

L1676546-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1676546-10 12/04/23 19:53 • (DUP) R4010925-5 12/04/23 19:53

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-228	0.305	0.221	0.395		0.261	0.381	0.685		15.4	0.0990	<u>U</u>	20	3
(T) Barium	111				111	111							
(T) Yttrium	138				130	130							

Laboratory Control Sample (LCS)

(LCS) R4010925-2 12/04/23 19:53

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.05	81.0	80.0-120	
(T) Barium			109		
(T) Yttrium			118		

L1671399-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1671399-09 12/04/23 19:53 • (MS) R4010925-3 12/04/23 19:53 • (MSD) R4010925-4 12/04/23 19:53

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-228	10.0	1.37	8.38	8.76	70.2	74.0	1	70.0-130			4.44		20
(T) Barium		109			110	113							
(T) Yttrium		152			107	122							

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Qc

7 Gl

8 Al

9 Sc

Method Blank (MB)

(MB) R4011543-2 12/12/23 14:33

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0186	<u>U</u>	0.0477	0.0843	0.0596
(T) Barium-133	75.3		75.3		

L1676546-10 Original Sample (OS) • Duplicate (DUP)

(OS) L1676546-10 12/12/23 14:33 • (DUP) R4011543-5 12/12/23 14:33

Analyte	Original Result pCi/l	Original 2 sigma CE + / -	Original MDA pCi/l	Original Lc pCi/l	DUP Result pCi/l	DUP 2 sigma CE + / -	DUP MDA pCi/l	DUP Lc pCi/l	DUP RPD %	DUP RER	DUP Qualifier	DUP RPD Limits %	DUP RER Limit
Radium-226	0.541	0.309	0.272	0.195	0.0424	0.152	0.267	0.179	171	1.45	<u>U</u>	20	3
(T) Barium-133	97.6				99.4	99.4							

Laboratory Control Sample (LCS)

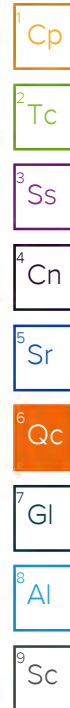
(LCS) R4011543-1 12/12/23 10:46

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.69	114	80.0-120	
(T) Barium-133			66.6		

L1676548-05 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1676548-05 12/12/23 14:33 • (MS) R4011543-3 12/12/23 14:33 • (MSD) R4011543-4 12/12/23 14:33

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.382	21.4	23.1	105	113	1	75.0-125			7.70		20
(T) Barium-133		84.7			83.3	72.2							



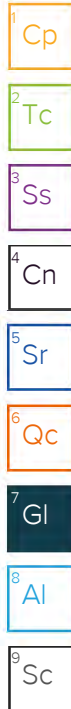
Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

MDA	Minimum Detectable Activity.
Rec.	Recovery.
RER	Replicate Error Ratio.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(T)	Tracer - A radioisotope of known concentration added to a solution of chemically equivalent radioisotopes at a known concentration to assist in monitoring the yield of the chemical separation.
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.



Qualifier Description

C1	Tracer recovery limits have been exceeded; values are outside upper control limits.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
U	Below Detectable Limits: Indicates that the analyte was not detected.



APPENDIX A.  
 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT  
 EDWARDS POWER PLANT, ASH POND  
 EDW-257-301

# ACCREDITATIONS & LOCATIONS

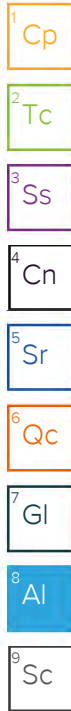
## Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico <sup>1</sup>	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina <sup>1</sup>	DW21704
Georgia	NELAP	North Carolina <sup>3</sup>	41
Georgia <sup>1</sup>	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky <sup>1,6</sup>	KY90010	South Carolina	84004002
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	AI30792	Tennessee <sup>1,4</sup>	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 <sup>5</sup>	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

\* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

C176

**Pace Analytical Services, LLC**  
**GK00902**

**SENDING LABORATORY**

PDC Laboratories, Inc.  
2231 W Altorfer Dr  
Peoria, IL 61615  
(800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
12065 Lebanon Rd  
Mt Juliet, TN 37122  
(615) 758-5858

LL676546

**Sample: GK00902-01**  
**Name: AP05S**

**Sampled: 11/06/23 11:00**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

- 01

62

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 11:00	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 11:00	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

**Sample: GK00902-02**  
**Name: APW-01**

**Sampled: 11/06/23 12:10**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

- 02

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 12:10	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 12:10	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

**Sample: GK00902-03**  
**Name: AW-01**

**Sampled: 11/06/23 14:40**  
**Matrix: Ground Water**  
**Preservative: HNO3, pH <2**

- 03

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 14:40	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 14:40	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample Receipt Checklist  
 COC Seal Present/Intact:  Y  N If Applicable  
 COC Signed/Accurate:  Y  N  
 Bottles arrive intact:  Y  N  
 Correct bottles used:  Y  N  
 Sufficient volume sent:  Y  N  
 RA Screen <0.5 mR/hr:  Y  N  
 VOR Zero Headspace:  Y  N  
 Pres. correct/Check:  Y  N

**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

**Pace Analytical Services, LLC**  
**GK00902**

4676546

**SENDING LABORATORY**

PDC Laboratories, Inc.  
 2231 W Altorfer Dr  
 Peoria, IL 61615  
 (800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
 12065 Lebanon Rd  
 Mt Juliet, TN 37122  
 (615) 758-5858

**Sample: GK00902-04**  
**Name: AW-05**

**Sampled: 11/06/23 15:47**  
**Matrix: Ground Water**  
**Preservative: HNO<sub>3</sub>, pH <2**

-04

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 15:47	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 15:47	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

**Sample: GK00902-05**  
**Name: AW-06**

**Sampled: 11/06/23 12:50**  
**Matrix: Ground Water**  
**Preservative: HNO<sub>3</sub>, pH <2**

-05

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 12:50	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 12:50	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

**Sample: GK00902-06**  
**Name: AW-08**

**Sampled: 11/06/23 16:13**  
**Matrix: Ground Water**  
**Preservative: HNO<sub>3</sub>, pH <2**

-06

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 16:13	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 16:13	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

**Pace Analytical Services, LLC**  
**GK00902**

1167 6546

**SENDING LABORATORY**

PDC Laboratories, Inc.  
 2231 W Altorfer Dr  
 Peoria, IL 61615  
 (800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
 12065 Lebanon Rd  
 Mt Juliet, TN 37122  
 (615) 758-5858

**Sample: GK00902-07**  
**Name: AW-09**

**Sampled: 11/06/23 11:15**  
**Matrix: Ground Water**  
**Preservative: HNO<sub>3</sub>, pH <2**

-07

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 11:15	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 11:15	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

**Sample: GK00902-08**  
**Name: AW-10**

**Sampled: 11/06/23 14:40**  
**Matrix: Ground Water**  
**Preservative: HNO<sub>3</sub>, pH <2**

-08

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 14:40	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 14:40	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

**Sample: GK00902-09**  
**Name: AW-01 DUP**

**Sampled: 11/06/23 14:40**  
**Matrix: Ground Water**  
**Preservative: HNO<sub>3</sub>, pH <2**

-09

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 14:40	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 14:40	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

**SUBCONTRACT ORDER**  
**Transfer Chain of Custody**

**Pace Analytical Services, LLC**  
**GK00902**

L676546

**SENDING LABORATORY**

PDC Laboratories, Inc.  
2231 W Altorfer Dr  
Peoria, IL 61615  
(800) 752-6651

**RECEIVING LABORATORY**

Pace Analytical - Mt Juliet, Tn  
12065 Lebanon Rd  
Mt Juliet, TN 37122  
(615) 758-5858

**Sample: GK00902-10**  
**Name: EQUIPMENT BLANK 1**

**Sampled: 11/06/23 16:45**  
**Matrix: DI Water**  
**Preservative: HNO3, pH <2**

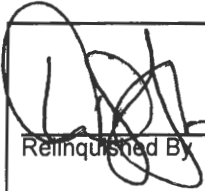

-10

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 16:45	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
01-Radium 226/228 combined	11/17/23 16:00	05/04/24 16:45	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Please email results to Diane Billings at [diane.billings@pacelabs.com](mailto:diane.billings@pacelabs.com)

Date Shipped: 11/8/23 Total # of Containers: 10 Sample Origin (State): IL PO #: \_\_\_\_\_

Turn-Around Time Requested  NORMAL  RUSH Date Results Needed: \_\_\_\_\_

 Relinquished By	<u>11/8/23 1105</u> Date/Time	 Received By	<u>11-9-23 0900</u> Date/Time	Sample Temperature Upon Receipt <u>15.750 = 7.5</u> °C
				Sample(s) Received on Ice Y or N
				Proper Bottles Received in Good Condition Y or N
				Bottles Filled with Adequate Volume Y or N
				Samples Received Within Hold Time Y or N
				Date/Time Taken From Sample Bottle Y or N





### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: Vistra Corp-Edwards		Report To: Brian Voelker		Attention: Mark Davis		NPDES    GROUND WATER    DRINKING WATER		
Address: 7800 Cilco Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp-Edwards		UST    RCRA    OTHER		
Peoria, IL 61607		Mark Davis-Mark.Davis1@vistracorp.com		Address: see Section A		Site Location		
Email To: <a href="mailto:Brian.Voelker@VistraCorp.com">Brian.Voelker@VistraCorp.com</a>		Purchase Order No.:		Quote Reference:		STATE: IL		
Phone: (217) 753-8911    Fax:		Project Name:		Project Manager:				
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX    CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol				
1	AW-19	DW	WT6		11/1/23	1412	4	X	X										
2	AW-20	WW	WT6		11/1/23	1536	4	X	X										
3	AW-21	P																	
4	AW-23	SL																	
5	EMW-05	OL																	
12	Field Blank	WP																	
13		AR																	
14		OT																	
15		TS																	
16																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q4-Rev 0		11/1/23	1609		11/1/23	1609	5.8	Y	N	Y

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Aaron Rembert</i>				
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YY): 11/1/2023					

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		REGULATORY AGENCY	
Company: <b>Vistra Corp-Edwards</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Mark Davis</b>		NPDES    GROUND WATER    DRINKING WATER UST        RCRA                    OTHER	
Address: <b>7800 Cilco Lane</b>		Copy To: <b>Sam Davies-samantha.davies@vistracorp.com</b>		Company Name: <b>Vistra Corp-Edwards</b>			
<b>Peoria, IL 61607</b>		<b>Mark Davis-Mark.Davis1@vistracorp.com</b>		Address: <b>see Section A</b>		Site Location: <b>IL</b> <b>GK00479</b> STATE:	
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:			
Phone: <b>(217) 753-8911</b> Fax:		Project Name:		Project Manager:		Profile #:	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:			

ITEM #	Section D Required Client Information  <b>SAMPLE ID</b> (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX    CODE DRINKING WATER    DW WATER                WT WASTE WATER        WW PRODUCT             P SOIL/SOLID            SL OIL                     OL WPE                    WP AIR                     AR OTHER                 OT TISSUE                TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.					
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol		Other	EDW-257-301	EDW-845-301	EDW-SUP-000			EDW-PGMP-301				
1	AP05S																										
2	AP07S																										
3	APW-01																										
4	AW-01																										
5	AW-05																										
6	AW-06																										
7	AW-08																										
8	AW-09																										
9	AW-10																										
10	AW-11																										
11	AW-14																										
12	AW-15					156	11/2/23	1319	4	X	X																
13	AW-15S					156	11/2/23	1431	4	X	X																
14	AW-16					156	11/2/23	1338	4	X	X																
15	AW-17																										
16	AW-18																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<b>EDW-23Q4-Rev 0</b>		11/2/23	1600		11/2/23	1600	14.5	Y	N	Y	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YY):		11/02/23			

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<table border="1"> <tr> <th colspan="3">REGULATORY AGENCY</th> </tr> <tr> <td>NPDES</td> <td>GROUND WATER</td> <td>DRINKING WATER</td> </tr> <tr> <td>UST</td> <td>RCRA</td> <td>OTHER</td> </tr> <tr> <td>Site Location</td> <td>IL</td> <td rowspan="2">6K00479 gert</td> </tr> <tr> <td>STATE:</td> <td></td> </tr> </table>			REGULATORY AGENCY			NPDES	GROUND WATER	DRINKING WATER	UST	RCRA	OTHER	Site Location	IL	6K00479 gert	STATE:	
REGULATORY AGENCY																						
NPDES	GROUND WATER	DRINKING WATER																				
UST	RCRA	OTHER																				
Site Location	IL	6K00479 gert																				
STATE:																						
Company: Vistra Corp-Edwards	Report To: Brian Voelker	Attention: Mark Davis	Company Name: Vistra Corp-Edwards																			
Address: 7800 Cilco Lane	Copy To: Sam Davies-samantha.davies@vistracorp.com	Address: see Section A																				
Peoria, IL 61607	Mark Davis-Mark.Davis1@vistracorp.com	Quote Reference:																				
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Project Name:																				
Phone: (217) 753-8911 Fax:	Project Number: 2285	Project Manager:																				
Requested Due Date/TAT: 10 day		Profile #:																				

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.
					DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-PGMP-301		
1	AW-19																						
2	AW-20																						
3	AW-21		WT 6		11/2/23	1310	4	X	X														
4	AW-23																						
5	EMW-05																						
12	Field Blank		WT 6		11/2/23	1315	4	X	X														
13	AW-16 FD		WT 6		11/2/23	1338	4	X	X														
14																							
15																							
16																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
EDW-23Q4-Rev 0	<i>[Signature]</i>	11/2/23	1600	<i>[Signature]</i>	11/2/23	1600	14.5	Y	N	Y	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Aaron Kovalenko</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>				
DATE Signed (MM/DD/YY):		11/02/23			

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b> NPDES    GROUND WATER    DRINKING WATER UST    RCRA    OTHER			
Company: <b>Vistra Corp-Edwards</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Mark Davis</b>				Site Location: <b>IL</b> STATE:	
Address: <b>7800 Cilco Lane</b>		Copy To: <b>Sam Davies-samantha.davies@vistracorp.com</b>		Company Name: <b>Vistra Corp-Edwards</b>					
Peoria, IL 61607		Mark Davis-Mark.Davis1@vistracorp.com		Address: <b>see Section A</b>					
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:					
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:					
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:					

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No. / Lab I.D.				
				DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other		EDW-257-301	EDW-845-301	EDW-SUP-000	EDW-PGMP-301						
1	AP05S																									
2	AP07S		WT 6	11/3/23	1320	4	X	X																		
3	APW-01																									
4	AW-01																									
5	AW-05																									
6	AW-06																									
7	AW-08																									
8	AW-09																									
9	AW-10																									
10	AW-11		WT 6	11/3/23	1410	4	X	X																		
11	AW-14		WT 6	11/3/23	1314	4	X	X																		
12	AW-15																									
13	AW-15S																									
14	AW-16																									
15	AW-17																									
16	AW-18																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<b>EDW-23Q4-Rev 0</b>		11/3/23	1503		11/8/23	1503	10.7	Y	N	Y	

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):	11/03/23		

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:			
Company: <b>Vistra Corp-Edwards</b>		Report To: <b>Brian Voelker</b>		Attention: <b>Mark Davis</b>			
Address: <b>7800 Cilco Lane</b>		Copy To: <b>Sam Davies-samantha.davies@vistracorp.com</b>		Company Name: <b>Vistra Corp-Edwards</b>		<b>REGULATORY AGENCY</b>	
Peoria, IL 61607		<b>Mark Davis-Mark.Davis1@vistracorp.com</b>		Address: <b>see Section A</b>			
Email To: <b>Brian.Voelker@VistraCorp.com</b>		Purchase Order No.:		Quote Reference:		NPDES <b>GROUND WATER</b> DRINKING WATER	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:		UST RCRA OTHER	
Requested Due Date/TAT: <b>10 day</b>		Project Number: <b>2285</b>		Profile #:		Site Location <b>IL</b>	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.
								Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)				
																EDW-257-301	EDW-845-301		EDW-SUP-000		EDW-PGMP-301			
1	AW-19																							
2	AW-20																							
3	AW-21																							
4	AW-23			11/13/23	1130		4	X	X															
5	EMW-05			11/13/23	1143		4	X	X															
12	Field Blank																							
13																								
14																								
15																								
16																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
<b>EDW-23Q4-Rev 0</b>	<i>[Signature]</i>	11/13/23	1503	<i>[Signature]</i>	11/13/23	1503	10.7	Y	N	Y	

<b>SAMPLER NAME AND SIGNATURE</b>				Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Arden Remberon</i>							
SIGNATURE of SAMPLER: <i>[Signature]</i> DATE Signed (MM/DD/YY): 11/03/23							



GK00902

### CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section B</b> Required Project Information: Vistra Corp-Edwards Report To: Brian Voelker Copy To: Sam Davies-samantha.davies@vistracorp.com Mark Davis-Mark.Davis1@vistracorp.com Purchase Order No.: Project Name: Project Number: 2285 Requested Due Date/TAT: 10 day		<b>Section C</b> Invoice Information: Attention: Mark Davis Company Name: Vistra Corp-Edwards Address: see Section A Quote Reference: Project Manager: Profile #:		REGULATORY AGENCY NPDES GROUND WATER DRINKING WATER UST RCRA OTHER Site Location: IL STATE:		
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ITEM #	Section D Required Client Information  SAMPLE ID (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test	Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No./ Lab I.D.
		MATRIX	CODE			DATE	TIME			Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	EDW-257-301	EDW-845-301		EDW-SUP-000	EDW-PGMP-301				
		DRINKING WATER	DW																							
1	AW-19																									
2	AW-20																									
3	AW-21																									
4	AW-23																									
5	EMW-05																									
12	Field Blank																									
13	AW-01 Dup	WT	6			11/6/23	1440		4	X	X															
14	Equipment Blank 1	WT	6			11/6/23	1645		4	X	X															
15																										
16																										

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
EDW-23Q4-Rev 0		<i>[Signature]</i>		11/6/23	1709	<i>[Signature]</i>		11/6/23	1710	5.7	7	7	7

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Harlan Reardon</i>				
SIGNATURE of SAMPLER:	<i>[Signature]</i>	DATE Signed (MM/DD/YY):	11/6/23		



GK00902

**CHAIN-OF-CUSTODY / Analytical Request Document**

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:		<b>REGULATORY AGENCY</b>		
Company: <u>Vistra Corp-Edwards</u>		Report To: <u>Brian Voelker</u>		Attention: <u>Mark Davis</u>		NPDES      GROUND WATER      DRINKING WATER		
Address: <u>7800 Cilco Lane</u>		Copy To: <u>Sam Davies-samantha.davies@vistracorp.com</u>		Company Name: <u>Vistra Corp-Edwards</u>		UST      RCRA      OTHER		
<u>Peoria, IL 61607</u>		<u>Mark Davis-Mark.Davis1@vistracorp.com</u>		Address: <u>see Section A</u>		Site Location		
Email To: <u>Brian.Voelker@VistraCorp.com</u>		Purchase Order No.:		Quote Reference:		STATE: <u>IL</u>		
Phone: <u>(217) 753-8911</u> Fax:		Project Name:		Project Manager:		Project No. / Lab I.D.		
Requested Due Date/TAT: <u>10 day</u>		Project Number: <u>2285</u>		Profile #:				

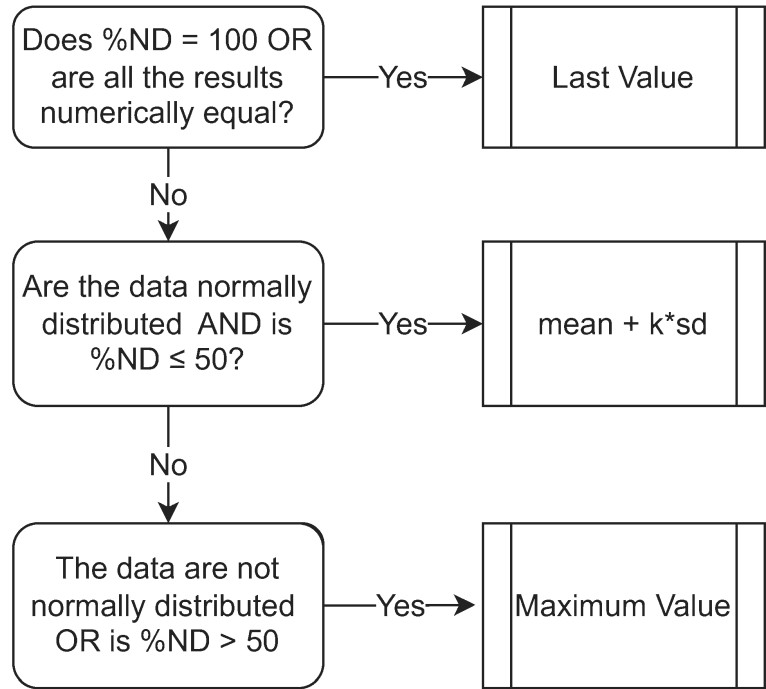
ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION # OF CONTAINERS	Preservatives								Requested Analysis Filtered (Y/N)				Residual Chlorine (Y/N)	Project No. / Lab I.D.
						Unpreserved	H <sub>2</sub> SO <sub>4</sub>	HNO <sub>3</sub>	HCl	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	Methanol	Other	Analysis Test ↓	EDW-257-301	EDW-845-301	EDW-SUP-000		
1	AP05S	WT	11/6/23	1100	4	X	X												
2	AP07S																		
3	APW-01	WT	11/6/23	1210	4	X	X												
4	AW-01	WT	11/6/23	1440	4	X	X												
5	AW-05	WT	11/6/23	1547	4	X	X												
6	AW-06	WT	11/6/23	1250	4	X	X												
7	AW-08	WT	11/6/23	1613	4	X	X												
8	AW-09	WT	11/6/23	1115	4	X	X												
9	AW-10	WT	11/6/23	1440	4	X	X												
10	AW-11																		
11	AW-14																		
12	AW-15																		
13	AW-15S																		
14	AW-16																		
15	AW-17																		
16	AW-18																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
<b>EDW-23Q4-Rev 0</b>		11/6/23	1704		11/6/23	1710	5.2	Y	Y	Y

<b>SAMPLER NAME AND SIGNATURE</b>		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<u>Aaron Amberston</u>				
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY):	<u>11/6/23</u>		

**APPENDIX B  
STATISTICAL METHODOLOGY FOR DETERMINATION  
OF BACKGROUND VALUES**

Notes
%ND = Percent non-detected samples
sd = standard deviation
k = kappa for tolerance limit (95% confidence/95% coverage)



**APPENDIX C  
STATISTICAL METHODOLOGY FOR DETERMINATION OF  
STATISTICALLY SIGNIFICANT LEVELS**

Notes
%ND = Percent non-detected samples
MK = Mann-Kendall Trend Test
<u>Alpha Levels</u>
Normality = 0.01
MK Trend = 0.01
Residuals = 0.01
Confidence Level= 0.01

