



Illinois Power Resources Generating, LLC
1500 Eastport Plaza Drive
Collinsville, IL 62234

August 04, 2024

Illinois Environmental Protection Agency
DWPC – Permits MC#15
Attn: Part 845 Coal Combustion Residual Rule Submittal
1021 North Grand Avenue East
Springfield, IL 62794

Re: Edwards Power Plant Ash Pond; IEPA ID # W1438050005-01

Dear Mr. LeCrone:

In accordance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.610(b)(3)(D), Illinois Power Resources Generating, LLC is submitting groundwater monitoring data for the Quarter 2, 2024 sampling event at the Edwards Power Plant Ash Pond, identified by Illinois Environmental Protection Agency (IEPA) ID No. W1438050005-01. This data is being submitted and placed in the facility's operating record as required by 35 I.A.C. § 845.800(d)(15) within 60 days of receiving final laboratory analytical data. Results were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine statistical exceedances of the GWPS.

The date of this submittal is considered to be the date that exceedances of the GWPSs were detected. This notification of exceedances of the GWPSs in 35 I.A.C. § 845.600 will be placed in the facility's operating record within 30 days as required by 35 I.A.C. § 845.800(d)(16).

A Corrective Measures Assessment (CMA) was initiated on December 7, 2023 and submitted to IEPA on June 4, 2024 in accordance with 35 I.A.C. § 845.660. The CMA addressed GWPS exceedances of boron and sulfate at select monitoring wells. GWPS exceedances for subsequent events will be incorporated into the CMA on a case-by-case basis, as opposed to generating a new CMA.

As allowed in 35 I.A.C. § 845.650(e), an Alternative Source Demonstration (ASD) will be evaluated for any new detected exceedances of the GWPS and, if successfully completed, the ASD will be submitted to IEPA within 60 days of this transmittal.

Sincerely,

A handwritten signature in blue ink that reads 'Dianna Tickner'.

Dianna Tickner, PE, PMP
Senior Director, Demolition and Decommission

Enclosures

Groundwater Monitoring Data and Detected Exceedances, Quarter 2, 2024, Ash Pond, Edwards Power Plant, Bartonville, Illinois

35 I.A.C. § 845.610(b)(3)(D) GROUNDWATER MONITORING DATA AND DETECTED EXCEEDANCES QUARTER 2, 2024 ASH POND, EDWARDS POWER PLANT, BARTONVILLE, ILLINOIS

August 04, 2024

Samples were collected between April 30 and May 2, 2024 and analyzed for the parameters listed in Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845.600(a), calcium, and turbidity. Final laboratory analytical data was received on June 5, 2024.

The monitoring well locations are included in **Figure 1. Attachment A** summarizes the groundwater elevation data for the Quarter 2, 2024 sampling event. **Table 1** is a summary of the field parameters and analytical results. **Attachment B** contains the associated laboratory analytical reports and field data sheets for the Quarter 2, 2024 sampling event.

Statistical procedures used to evaluate groundwater results are provided in Appendix A of the Groundwater Monitoring Plan¹ provided in the operating permit application. In accordance with 35 I.A.C. § 845.610(b)(3)(B), the Quarter 2, 2024 groundwater monitoring data were evaluated for statistical exceedances over background levels for the constituents listed in 35 I.A.C. § 845.600. **Attachment C** shows the statistically derived values compared to background levels.

In accordance with 35 I.A.C. § 845.610(b)(3)(C), the statistically derived values identified as Statistical Results in **Table 2** were compared with the groundwater protection standards (GWPSs) described in 35 I.A.C. § 845.600 to determine statistical exceedances of the GWPS, as shown in **Table 2**. The date of this submittal is considered to be the date that the exceedances were detected.

A Corrective Measures Assessment (CMA) was initiated on December 7, 2023 and submitted to Illinois Environmental Protection Agency (IEPA) on June 4, 2024 in accordance with 35 I.A.C. § 845.660. The CMA addressed GWPS exceedances of boron at monitoring wells AP07S, AW-05, AW-15S, AW-19, AW-20, and AW-21 and sulfate at monitoring well AW-15S. GWPS exceedances for subsequent events will be incorporated into the CMA on a case-by-case basis, as opposed to generating a new CMA².

As allowed in 35 I.A.C. § 845.650(e), an Alternative Source Demonstration (ASD) will be evaluated for any new detected exceedances of the GWPS and, if successfully completed, the ASD will be submitted to IEPA within 60 days of this transmittal.

TABLES

Table 1	Field Parameters and Analytical Results - Quarter 2, 2024
Table 2	Comparison of Statistical Results to GWPS - Quarter 2, 2024

FIGURES

Figure 1	Monitoring Well Location Map
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¹ Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. *Groundwater Monitoring Plan. Ash Pond. Edwards Power Plant. Bartonville, Illinois. October 25, 2021.*

² Ramboll Americas Engineering Solutions, Inc., (Ramboll), 2024. *35 I.A.C. § 845 Corrective Measures Assessment, Ash Pond, Edwards Power Plant, Bartonville, Illinois, IEPA ID: W1438050005-01, June 4, 2024.*

ATTACHMENTS

Attachment A Groundwater Elevation Data - Quarter 2, 2024

Attachment B Laboratory Reports and Field Data Sheets - Quarter 2, 2024

Attachment C Comparison of Statistical Results to Background - Quarter 2, 2024

TABLES

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AP05S	Background	E005	04/30/2024	Antimony, total	0.00043 U	mg/L
AP05S	Background	E005	04/30/2024	Arsenic, total	0.00120	mg/L
AP05S	Background	E005	04/30/2024	Barium, total	0.830	mg/L
AP05S	Background	E005	04/30/2024	Beryllium, total	0.00059 U	mg/L
AP05S	Background	E005	04/30/2024	Boron, total	0.300	mg/L
AP05S	Background	E005	04/30/2024	Cadmium, total	0.00074 U	mg/L
AP05S	Background	E005	04/30/2024	Calcium, total	100	mg/L
AP05S	Background	E005	04/30/2024	Chloride, total	42.0	mg/L
AP05S	Background	E005	04/30/2024	Chromium, total	0.0028 U	mg/L
AP05S	Background	E005	04/30/2024	Cobalt, total	0.001 J	mg/L
AP05S	Background	E005	04/30/2024	Dissolved Oxygen	0	mg/L
AP05S	Background	E005	04/30/2024	Fluoride, total	0.144 J	mg/L
AP05S	Background	E005	04/30/2024	Lead, total	0.00045 J	mg/L
AP05S	Background	E005	04/30/2024	Lithium, total	0.0280	mg/L
AP05S	Background	E005	04/30/2024	Mercury, total	0.00014 U	mg/L
AP05S	Background	E005	04/30/2024	Molybdenum, total	0.00074 U	mg/L
AP05S	Background	E005	04/30/2024	Oxidation Reduction Potential	-139	mV
AP05S	Background	E005	04/30/2024	pH (field)	6.7	SU
AP05S	Background	E005	04/30/2024	Radium 226 + Radium 228, total	1.46	pCi/L
AP05S	Background	E005	04/30/2024	Selenium, total	0.00074 U	mg/L
AP05S	Background	E005	04/30/2024	Specific Conductance @ 25C (field)	1,520	micromhos/cm
AP05S	Background	E005	04/30/2024	Sulfate, total	1.20	mg/L
AP05S	Background	E005	04/30/2024	Temperature	16.1	degrees C
AP05S	Background	E005	04/30/2024	Thallium, total	0.00038 U	mg/L
AP05S	Background	E005	04/30/2024	Total Dissolved Solids	900	mg/L
AP05S	Background	E005	04/30/2024	Turbidity, field	45.1	NTU
AW-08	Background	E005	05/02/2024	Antimony, total	0.00043 U	mg/L
AW-08	Background	E005	05/02/2024	Arsenic, total	0.0130	mg/L
AW-08	Background	E005	05/02/2024	Barium, total	0.410	mg/L
AW-08	Background	E005	05/02/2024	Beryllium, total	0.00059 U	mg/L
AW-08	Background	E005	05/02/2024	Boron, total	0.130	mg/L
AW-08	Background	E005	05/02/2024	Cadmium, total	0.00074 U	mg/L
AW-08	Background	E005	05/02/2024	Calcium, total	140	mg/L
AW-08	Background	E005	05/02/2024	Chloride, total	15.0	mg/L
AW-08	Background	E005	05/02/2024	Chromium, total	0.0028 U	mg/L
AW-08	Background	E005	05/02/2024	Cobalt, total	0.00048 U	mg/L
AW-08	Background	E005	05/02/2024	Dissolved Oxygen	0.410	mg/L
AW-08	Background	E005	05/02/2024	Fluoride, total	0.22 J	mg/L
AW-08	Background	E005	05/02/2024	Lead, total	0.00022 U	mg/L
AW-08	Background	E005	05/02/2024	Lithium, total	0.013 J	mg/L
AW-08	Background	E005	05/02/2024	Mercury, total	0.00014 U	mg/L
AW-08	Background	E005	05/02/2024	Molybdenum, total	0.00095 J	mg/L
AW-08	Background	E005	05/02/2024	Oxidation Reduction Potential	-153	mV
AW-08	Background	E005	05/02/2024	pH (field)	6.9	SU
AW-08	Background	E005	05/02/2024	Radium 226 + Radium 228, total	0.498	pCi/L
AW-08	Background	E005	05/02/2024	Selenium, total	0.00074 U	mg/L

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845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-08	Background	E005	05/02/2024	Specific Conductance @ 25C (field)	1,610	micromhos/cm
AW-08	Background	E005	05/02/2024	Sulfate, total	1.20	mg/L
AW-08	Background	E005	05/02/2024	Temperature	21.6	degrees C
AW-08	Background	E005	05/02/2024	Thallium, total	0.00038 U	mg/L
AW-08	Background	E005	05/02/2024	Total Dissolved Solids	610	mg/L
AW-08	Background	E005	05/02/2024	Turbidity, field	11.2	NTU
AP07S	Compliance	E005	04/30/2024	Antimony, total	0.00043 U	mg/L
AP07S	Compliance	E005	04/30/2024	Arsenic, total	0.00069 U	mg/L
AP07S	Compliance	E005	04/30/2024	Barium, total	0.0840	mg/L
AP07S	Compliance	E005	04/30/2024	Beryllium, total	0.00059 U	mg/L
AP07S	Compliance	E005	04/30/2024	Boron, total	18.0	mg/L
AP07S	Compliance	E005	04/30/2024	Cadmium, total	0.00074 U	mg/L
AP07S	Compliance	E005	04/30/2024	Calcium, total	240	mg/L
AP07S	Compliance	E005	04/30/2024	Chloride, total	73.0	mg/L
AP07S	Compliance	E005	04/30/2024	Chromium, total	0.0028 U	mg/L
AP07S	Compliance	E005	04/30/2024	Cobalt, total	0.0014 J	mg/L
AP07S	Compliance	E005	04/30/2024	Dissolved Oxygen	0	mg/L
AP07S	Compliance	E005	04/30/2024	Fluoride, total	0.25 UJ	mg/L
AP07S	Compliance	E005	04/30/2024	Lead, total	0.00022 U	mg/L
AP07S	Compliance	E005	04/30/2024	Lithium, total	0.0072 J	mg/L
AP07S	Compliance	E005	04/30/2024	Mercury, total	0.00014 U	mg/L
AP07S	Compliance	E005	04/30/2024	Molybdenum, total	0.00079 J	mg/L
AP07S	Compliance	E005	04/30/2024	Oxidation Reduction Potential	6.00	mV
AP07S	Compliance	E005	04/30/2024	pH (field)	6.9	SU
AP07S	Compliance	E005	04/30/2024	Radium 226 + Radium 228, total	0.575	pCi/L
AP07S	Compliance	E005	04/30/2024	Selenium, total	0.00074 U	mg/L
AP07S	Compliance	E005	04/30/2024	Specific Conductance @ 25C (field)	1,850	micromhos/cm
AP07S	Compliance	E005	04/30/2024	Sulfate, total	520	mg/L
AP07S	Compliance	E005	04/30/2024	Temperature	21.2	degrees C
AP07S	Compliance	E005	04/30/2024	Thallium, total	0.00038 U	mg/L
AP07S	Compliance	E005	04/30/2024	Total Dissolved Solids	1,700	mg/L
AP07S	Compliance	E005	04/30/2024	Turbidity, field	8.80	NTU
AW-01	Compliance	E005	04/30/2024	Antimony, total	0.00043 U	mg/L
AW-01	Compliance	E005	04/30/2024	Arsenic, total	0.00530	mg/L
AW-01	Compliance	E005	04/30/2024	Barium, total	0.0900	mg/L
AW-01	Compliance	E005	04/30/2024	Beryllium, total	0.00059 U	mg/L
AW-01	Compliance	E005	04/30/2024	Boron, total	0.0870	mg/L
AW-01	Compliance	E005	04/30/2024	Cadmium, total	0.00074 U	mg/L
AW-01	Compliance	E005	04/30/2024	Calcium, total	170	mg/L
AW-01	Compliance	E005	04/30/2024	Chloride, total	9.60	mg/L
AW-01	Compliance	E005	04/30/2024	Chromium, total	0.0028 U	mg/L
AW-01	Compliance	E005	04/30/2024	Cobalt, total	0.0013 J	mg/L
AW-01	Compliance	E005	04/30/2024	Dissolved Oxygen	0	mg/L
AW-01	Compliance	E005	04/30/2024	Fluoride, total	0.214 J	mg/L
AW-01	Compliance	E005	04/30/2024	Lead, total	0.00022 U	mg/L
AW-01	Compliance	E005	04/30/2024	Lithium, total	0.0064 J	mg/L

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ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-01	Compliance	E005	04/30/2024	Mercury, total	0.00014 U	mg/L
AW-01	Compliance	E005	04/30/2024	Molybdenum, total	0.00340	mg/L
AW-01	Compliance	E005	04/30/2024	Oxidation Reduction Potential	-43.0	mV
AW-01	Compliance	E005	04/30/2024	pH (field)	7.2	SU
AW-01	Compliance	E005	04/30/2024	Radium 226 + Radium 228, total	0.547	pCi/L
AW-01	Compliance	E005	04/30/2024	Selenium, total	0.00074 U	mg/L
AW-01	Compliance	E005	04/30/2024	Specific Conductance @ 25C (field)	1,340	micromhos/cm
AW-01	Compliance	E005	04/30/2024	Sulfate, total	50.0	mg/L
AW-01	Compliance	E005	04/30/2024	Temperature	15.1	degrees C
AW-01	Compliance	E005	04/30/2024	Thallium, total	0.00038 U	mg/L
AW-01	Compliance	E005	04/30/2024	Total Dissolved Solids	870	mg/L
AW-01	Compliance	E005	04/30/2024	Turbidity, field	35.8	NTU
AW-05	Compliance	E005	04/30/2024	Antimony, total	0.00043 U	mg/L
AW-05	Compliance	E005	04/30/2024	Arsenic, total	0.00360	mg/L
AW-05	Compliance	E005	04/30/2024	Barium, total	0.110	mg/L
AW-05	Compliance	E005	04/30/2024	Beryllium, total	0.00059 U	mg/L
AW-05	Compliance	E005	04/30/2024	Boron, total	4.10	mg/L
AW-05	Compliance	E005	04/30/2024	Cadmium, total	0.00074 U	mg/L
AW-05	Compliance	E005	04/30/2024	Calcium, total	160	mg/L
AW-05	Compliance	E005	04/30/2024	Chloride, total	68.0	mg/L
AW-05	Compliance	E005	04/30/2024	Chromium, total	0.0033 J	mg/L
AW-05	Compliance	E005	04/30/2024	Cobalt, total	0.00280	mg/L
AW-05	Compliance	E005	04/30/2024	Dissolved Oxygen	0	mg/L
AW-05	Compliance	E005	04/30/2024	Fluoride, total	0.192 J	mg/L
AW-05	Compliance	E005	04/30/2024	Lead, total	0.00190	mg/L
AW-05	Compliance	E005	04/30/2024	Lithium, total	0.015 J	mg/L
AW-05	Compliance	E005	04/30/2024	Mercury, total	0.00014 U	mg/L
AW-05	Compliance	E005	04/30/2024	Molybdenum, total	0.00190	mg/L
AW-05	Compliance	E005	04/30/2024	Oxidation Reduction Potential	-66.0	mV
AW-05	Compliance	E005	04/30/2024	pH (field)	7.0	SU
AW-05	Compliance	E005	04/30/2024	Radium 226 + Radium 228, total	2.22	pCi/L
AW-05	Compliance	E005	04/30/2024	Selenium, total	0.00074 U	mg/L
AW-05	Compliance	E005	04/30/2024	Specific Conductance @ 25C (field)	1,480	micromhos/cm
AW-05	Compliance	E005	04/30/2024	Sulfate, total	350	mg/L
AW-05	Compliance	E005	04/30/2024	Temperature	16.1	degrees C
AW-05	Compliance	E005	04/30/2024	Thallium, total	0.00038 U	mg/L
AW-05	Compliance	E005	04/30/2024	Total Dissolved Solids	1,200	mg/L
AW-05	Compliance	E005	04/30/2024	Turbidity, field	509	NTU
AW-06	Compliance	E005	05/02/2024	Antimony, total	0.00043 U	mg/L
AW-06	Compliance	E005	05/02/2024	Arsenic, total	0.00570	mg/L
AW-06	Compliance	E005	05/02/2024	Barium, total	0.200	mg/L
AW-06	Compliance	E005	05/02/2024	Beryllium, total	0.00059 U	mg/L
AW-06	Compliance	E005	05/02/2024	Boron, total	0.0990	mg/L
AW-06	Compliance	E005	05/02/2024	Cadmium, total	0.00074 U	mg/L
AW-06	Compliance	E005	05/02/2024	Calcium, total	120	mg/L
AW-06	Compliance	E005	05/02/2024	Chloride, total	31.0	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-06	Compliance	E005	05/02/2024	Chromium, total	0.0028 U	mg/L
AW-06	Compliance	E005	05/02/2024	Cobalt, total	0.0012 J	mg/L
AW-06	Compliance	E005	05/02/2024	Dissolved Oxygen	1.60	mg/L
AW-06	Compliance	E005	05/02/2024	Fluoride, total	0.307	mg/L
AW-06	Compliance	E005	05/02/2024	Lead, total	0.00081 J	mg/L
AW-06	Compliance	E005	05/02/2024	Lithium, total	0.012 J	mg/L
AW-06	Compliance	E005	05/02/2024	Mercury, total	0.00014 U	mg/L
AW-06	Compliance	E005	05/02/2024	Molybdenum, total	0.00620	mg/L
AW-06	Compliance	E005	05/02/2024	Oxidation Reduction Potential	-115	mV
AW-06	Compliance	E005	05/02/2024	pH (field)	7.0	SU
AW-06	Compliance	E005	05/02/2024	Radium 226 + Radium 228, total	1.77	pCi/L
AW-06	Compliance	E005	05/02/2024	Selenium, total	0.00074 U	mg/L
AW-06	Compliance	E005	05/02/2024	Specific Conductance @ 25C (field)	1,150	micromhos/cm
AW-06	Compliance	E005	05/02/2024	Sulfate, total	26.0	mg/L
AW-06	Compliance	E005	05/02/2024	Temperature	16.2	degrees C
AW-06	Compliance	E005	05/02/2024	Thallium, total	0.00038 U	mg/L
AW-06	Compliance	E005	05/02/2024	Total Dissolved Solids	580	mg/L
AW-06	Compliance	E005	05/02/2024	Turbidity, field	109	NTU
AW-09	Compliance	E005	05/02/2024	Antimony, total	0.00043 U	mg/L
AW-09	Compliance	E005	05/02/2024	Arsenic, total	0.0260	mg/L
AW-09	Compliance	E005	05/02/2024	Barium, total	0.470	mg/L
AW-09	Compliance	E005	05/02/2024	Beryllium, total	0.00059 U	mg/L
AW-09	Compliance	E005	05/02/2024	Boron, total	0.270	mg/L
AW-09	Compliance	E005	05/02/2024	Cadmium, total	0.00074 U	mg/L
AW-09	Compliance	E005	05/02/2024	Calcium, total	120	mg/L
AW-09	Compliance	E005	05/02/2024	Chloride, total	28.0	mg/L
AW-09	Compliance	E005	05/02/2024	Chromium, total	0.0028 U	mg/L
AW-09	Compliance	E005	05/02/2024	Cobalt, total	0.00210	mg/L
AW-09	Compliance	E005	05/02/2024	Dissolved Oxygen	1.20	mg/L
AW-09	Compliance	E005	05/02/2024	Fluoride, total	0.175 J	mg/L
AW-09	Compliance	E005	05/02/2024	Lead, total	0.00028 J	mg/L
AW-09	Compliance	E005	05/02/2024	Lithium, total	0.017 J	mg/L
AW-09	Compliance	E005	05/02/2024	Mercury, total	0.00014 U	mg/L
AW-09	Compliance	E005	05/02/2024	Molybdenum, total	0.0150	mg/L
AW-09	Compliance	E005	05/02/2024	Oxidation Reduction Potential	-139	mV
AW-09	Compliance	E005	05/02/2024	pH (field)	6.9	SU
AW-09	Compliance	E005	05/02/2024	Radium 226 + Radium 228, total	1.45	pCi/L
AW-09	Compliance	E005	05/02/2024	Selenium, total	0.00074 U	mg/L
AW-09	Compliance	E005	05/02/2024	Specific Conductance @ 25C (field)	1,680	micromhos/cm
AW-09	Compliance	E005	05/02/2024	Sulfate, total	0.18 U	mg/L
AW-09	Compliance	E005	05/02/2024	Temperature	17.9	degrees C
AW-09	Compliance	E005	05/02/2024	Thallium, total	0.00038 U	mg/L
AW-09	Compliance	E005	05/02/2024	Total Dissolved Solids	770	mg/L
AW-09	Compliance	E005	05/02/2024	Turbidity, field	27.8	NTU
AW-10	Compliance	E005	05/02/2024	Antimony, total	0.00043 U	mg/L
AW-10	Compliance	E005	05/02/2024	Arsenic, total	0.00970	mg/L

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ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-10	Compliance	E005	05/02/2024	Barium, total	0.900	mg/L
AW-10	Compliance	E005	05/02/2024	Beryllium, total	0.00059 U	mg/L
AW-10	Compliance	E005	05/02/2024	Boron, total	0.440	mg/L
AW-10	Compliance	E005	05/02/2024	Cadmium, total	0.00074 U	mg/L
AW-10	Compliance	E005	05/02/2024	Calcium, total	130	mg/L
AW-10	Compliance	E005	05/02/2024	Chloride, total	89.0	mg/L
AW-10	Compliance	E005	05/02/2024	Chromium, total	0.0140 J	mg/L
AW-10	Compliance	E005	05/02/2024	Cobalt, total	0.00960	mg/L
AW-10	Compliance	E005	05/02/2024	Dissolved Oxygen	0.400	mg/L
AW-10	Compliance	E005	05/02/2024	Fluoride, total	0.141 J	mg/L
AW-10	Compliance	E005	05/02/2024	Lead, total	0.00630	mg/L
AW-10	Compliance	E005	05/02/2024	Lithium, total	0.0530	mg/L
AW-10	Compliance	E005	05/02/2024	Mercury, total	0.00014 U	mg/L
AW-10	Compliance	E005	05/02/2024	Molybdenum, total	0.00180	mg/L
AW-10	Compliance	E005	05/02/2024	Oxidation Reduction Potential	-140	mV
AW-10	Compliance	E005	05/02/2024	pH (field)	7.0	SU
AW-10	Compliance	E005	05/02/2024	Radium 226 + Radium 228, total	2.53	pCi/L
AW-10	Compliance	E005	05/02/2024	Selenium, total	0.00074 U	mg/L
AW-10	Compliance	E005	05/02/2024	Specific Conductance @ 25C (field)	2,410	micromhos/cm
AW-10	Compliance	E005	05/02/2024	Sulfate, total	0.18 U	mg/L
AW-10	Compliance	E005	05/02/2024	Temperature	18.7	degrees C
AW-10	Compliance	E005	05/02/2024	Thallium, total	0.00038 U	mg/L
AW-10	Compliance	E005	05/02/2024	Total Dissolved Solids	1,200	mg/L
AW-10	Compliance	E005	05/02/2024	Turbidity, field	343	NTU
AW-11	Compliance	E005	05/01/2024	Antimony, total	0.00043 U	mg/L
AW-11	Compliance	E005	05/01/2024	Arsenic, total	0.00770	mg/L
AW-11	Compliance	E005	05/01/2024	Barium, total	0.820	mg/L
AW-11	Compliance	E005	05/01/2024	Beryllium, total	0.00059 U	mg/L
AW-11	Compliance	E005	05/01/2024	Boron, total	0.250	mg/L
AW-11	Compliance	E005	05/01/2024	Cadmium, total	0.00074 U	mg/L
AW-11	Compliance	E005	05/01/2024	Calcium, total	160	mg/L
AW-11	Compliance	E005	05/01/2024	Chloride, total	31.0	mg/L
AW-11	Compliance	E005	05/01/2024	Chromium, total	0.0028 U	mg/L
AW-11	Compliance	E005	05/01/2024	Cobalt, total	0.00220	mg/L
AW-11	Compliance	E005	05/01/2024	Dissolved Oxygen	1.40	mg/L
AW-11	Compliance	E005	05/01/2024	Fluoride, total	0.126 J	mg/L
AW-11	Compliance	E005	05/01/2024	Lead, total	0.00160	mg/L
AW-11	Compliance	E005	05/01/2024	Lithium, total	0.0210	mg/L
AW-11	Compliance	E005	05/01/2024	Mercury, total	0.00014 U	mg/L
AW-11	Compliance	E005	05/01/2024	Molybdenum, total	0.00170	mg/L
AW-11	Compliance	E005	05/01/2024	Oxidation Reduction Potential	-117	mV
AW-11	Compliance	E005	05/01/2024	pH (field)	7.1	SU
AW-11	Compliance	E005	05/01/2024	Radium 226 + Radium 228, total	1.78	pCi/L
AW-11	Compliance	E005	05/01/2024	Selenium, total	0.00074 U	mg/L
AW-11	Compliance	E005	05/01/2024	Specific Conductance @ 25C (field)	1,649	micromhos/cm
AW-11	Compliance	E005	05/01/2024	Sulfate, total	0.18 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-11	Compliance	E005	05/01/2024	Temperature	16.4	degrees C
AW-11	Compliance	E005	05/01/2024	Thallium, total	0.00038 U	mg/L
AW-11	Compliance	E005	05/01/2024	Total Dissolved Solids	990	mg/L
AW-11	Compliance	E005	05/01/2024	Turbidity, field	75.4	NTU
AW-14	Compliance	E005	05/01/2024	Antimony, total	0.00043 U	mg/L
AW-14	Compliance	E005	05/01/2024	Arsenic, total	0.00210	mg/L
AW-14	Compliance	E005	05/01/2024	Barium, total	0.600	mg/L
AW-14	Compliance	E005	05/01/2024	Beryllium, total	0.00059 U	mg/L
AW-14	Compliance	E005	05/01/2024	Boron, total	0.260	mg/L
AW-14	Compliance	E005	05/01/2024	Cadmium, total	0.00074 U	mg/L
AW-14	Compliance	E005	05/01/2024	Calcium, total	170	mg/L
AW-14	Compliance	E005	05/01/2024	Chloride, total	28.0	mg/L
AW-14	Compliance	E005	05/01/2024	Chromium, total	0.0028 U	mg/L
AW-14	Compliance	E005	05/01/2024	Cobalt, total	0.0015 J	mg/L
AW-14	Compliance	E005	05/01/2024	Dissolved Oxygen	0.0800	mg/L
AW-14	Compliance	E005	05/01/2024	Fluoride, total	0.0199 U	mg/L
AW-14	Compliance	E005	05/01/2024	Lead, total	0.00022 U	mg/L
AW-14	Compliance	E005	05/01/2024	Lithium, total	0.018 J	mg/L
AW-14	Compliance	E005	05/01/2024	Mercury, total	0.00014 U	mg/L
AW-14	Compliance	E005	05/01/2024	Molybdenum, total	0.00170	mg/L
AW-14	Compliance	E005	05/01/2024	Oxidation Reduction Potential	-118	mV
AW-14	Compliance	E005	05/01/2024	pH (field)	7.0	SU
AW-14	Compliance	E005	05/01/2024	Radium 226 + Radium 228, total	4.49	pCi/L
AW-14	Compliance	E005	05/01/2024	Selenium, total	0.00074 U	mg/L
AW-14	Compliance	E005	05/01/2024	Specific Conductance @ 25C (field)	1,714	micromhos/cm
AW-14	Compliance	E005	05/01/2024	Sulfate, total	12.0	mg/L
AW-14	Compliance	E005	05/01/2024	Temperature	15.3	degrees C
AW-14	Compliance	E005	05/01/2024	Thallium, total	0.00038 U	mg/L
AW-14	Compliance	E005	05/01/2024	Total Dissolved Solids	990	mg/L
AW-14	Compliance	E005	05/01/2024	Turbidity, field	4.45	NTU
AW-15	Compliance	E005	05/01/2024	Antimony, total	0.00043 U	mg/L
AW-15	Compliance	E005	05/01/2024	Arsenic, total	0.00087 J	mg/L
AW-15	Compliance	E005	05/01/2024	Barium, total	1.70	mg/L
AW-15	Compliance	E005	05/01/2024	Beryllium, total	0.00059 U	mg/L
AW-15	Compliance	E005	05/01/2024	Boron, total	0.360	mg/L
AW-15	Compliance	E005	05/01/2024	Cadmium, total	0.00074 U	mg/L
AW-15	Compliance	E005	05/01/2024	Calcium, total	140	mg/L
AW-15	Compliance	E005	05/01/2024	Chloride, total	33.0	mg/L
AW-15	Compliance	E005	05/01/2024	Chromium, total	0.0028 U	mg/L
AW-15	Compliance	E005	05/01/2024	Cobalt, total	0.0015 J	mg/L
AW-15	Compliance	E005	05/01/2024	Dissolved Oxygen	0.830	mg/L
AW-15	Compliance	E005	05/01/2024	Fluoride, total	0.072 J	mg/L
AW-15	Compliance	E005	05/01/2024	Lead, total	0.00022 U	mg/L
AW-15	Compliance	E005	05/01/2024	Lithium, total	0.0290	mg/L
AW-15	Compliance	E005	05/01/2024	Mercury, total	0.00014 U	mg/L
AW-15	Compliance	E005	05/01/2024	Molybdenum, total	0.00074 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2024
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-15	Compliance	E005	05/01/2024	Oxidation Reduction Potential	-79.3	mV
AW-15	Compliance	E005	05/01/2024	pH (field)	6.8	SU
AW-15	Compliance	E005	05/01/2024	Radium 226 + Radium 228, total	7.02	pCi/L
AW-15	Compliance	E005	05/01/2024	Selenium, total	0.00074 U	mg/L
AW-15	Compliance	E005	05/01/2024	Specific Conductance @ 25C (field)	1,886	micromhos/cm
AW-15	Compliance	E005	05/01/2024	Sulfate, total	0.18 U	mg/L
AW-15	Compliance	E005	05/01/2024	Temperature	15.7	degrees C
AW-15	Compliance	E005	05/01/2024	Thallium, total	0.00038 U	mg/L
AW-15	Compliance	E005	05/01/2024	Total Dissolved Solids	1,000	mg/L
AW-15	Compliance	E005	05/01/2024	Turbidity, field	18.3	NTU
AW-15S	Compliance	E005	05/01/2024	Antimony, total	0.00043 U	mg/L
AW-15S	Compliance	E005	05/01/2024	Arsenic, total	0.00069 U	mg/L
AW-15S	Compliance	E005	05/01/2024	Barium, total	0.0780	mg/L
AW-15S	Compliance	E005	05/01/2024	Beryllium, total	0.00059 U	mg/L
AW-15S	Compliance	E005	05/01/2024	Boron, total	5.50	mg/L
AW-15S	Compliance	E005	05/01/2024	Cadmium, total	0.00074 U	mg/L
AW-15S	Compliance	E005	05/01/2024	Calcium, total	260	mg/L
AW-15S	Compliance	E005	05/01/2024	Chloride, total	28.0	mg/L
AW-15S	Compliance	E005	05/01/2024	Chromium, total	0.0028 U	mg/L
AW-15S	Compliance	E005	05/01/2024	Cobalt, total	0.00048 U	mg/L
AW-15S	Compliance	E005	05/01/2024	Dissolved Oxygen	0.510	mg/L
AW-15S	Compliance	E005	05/01/2024	Fluoride, total	0.226 J	mg/L
AW-15S	Compliance	E005	05/01/2024	Lead, total	0.00022 U	mg/L
AW-15S	Compliance	E005	05/01/2024	Lithium, total	0.014 J	mg/L
AW-15S	Compliance	E005	05/01/2024	Mercury, total	0.00014 U	mg/L
AW-15S	Compliance	E005	05/01/2024	Molybdenum, total	0.00250	mg/L
AW-15S	Compliance	E005	05/01/2024	Oxidation Reduction Potential	95.4	mV
AW-15S	Compliance	E005	05/01/2024	pH (field)	6.8	SU
AW-15S	Compliance	E005	05/01/2024	Radium 226 + Radium 228, total	0.846	pCi/L
AW-15S	Compliance	E005	05/01/2024	Selenium, total	0.00074 U	mg/L
AW-15S	Compliance	E005	05/01/2024	Specific Conductance @ 25C (field)	1,664	micromhos/cm
AW-15S	Compliance	E005	05/01/2024	Sulfate, total	540	mg/L
AW-15S	Compliance	E005	05/01/2024	Temperature	14.1	degrees C
AW-15S	Compliance	E005	05/01/2024	Thallium, total	0.00038 U	mg/L
AW-15S	Compliance	E005	05/01/2024	Total Dissolved Solids	1,400	mg/L
AW-15S	Compliance	E005	05/01/2024	Turbidity, field	2.96	NTU
AW-16	Compliance	E005	04/30/2024	Antimony, total	0.00043 U	mg/L
AW-16	Compliance	E005	04/30/2024	Arsenic, total	0.00120	mg/L
AW-16	Compliance	E005	04/30/2024	Barium, total	1.20	mg/L
AW-16	Compliance	E005	04/30/2024	Beryllium, total	0.00059 U	mg/L
AW-16	Compliance	E005	04/30/2024	Boron, total	0.440	mg/L
AW-16	Compliance	E005	04/30/2024	Cadmium, total	0.00074 U	mg/L
AW-16	Compliance	E005	04/30/2024	Calcium, total	140	mg/L
AW-16	Compliance	E005	04/30/2024	Chloride, total	45.0	mg/L
AW-16	Compliance	E005	04/30/2024	Chromium, total	0.0028 U	mg/L
AW-16	Compliance	E005	04/30/2024	Cobalt, total	0.0014 J	mg/L

TABLE 1.
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ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-16	Compliance	E005	04/30/2024	Dissolved Oxygen	0.120	mg/L
AW-16	Compliance	E005	04/30/2024	Fluoride, total	0.064 J	mg/L
AW-16	Compliance	E005	04/30/2024	Lead, total	0.00022 U	mg/L
AW-16	Compliance	E005	04/30/2024	Lithium, total	0.0350	mg/L
AW-16	Compliance	E005	04/30/2024	Mercury, total	0.00014 U	mg/L
AW-16	Compliance	E005	04/30/2024	Molybdenum, total	0.00074 U	mg/L
AW-16	Compliance	E005	04/30/2024	Oxidation Reduction Potential	-138	mV
AW-16	Compliance	E005	04/30/2024	pH (field)	6.5	SU
AW-16	Compliance	E005	04/30/2024	Radium 226 + Radium 228, total	2.44	pCi/L
AW-16	Compliance	E005	04/30/2024	Selenium, total	0.00074 U	mg/L
AW-16	Compliance	E005	04/30/2024	Specific Conductance @ 25C (field)	2,120	micromhos/cm
AW-16	Compliance	E005	04/30/2024	Sulfate, total	0.32 J	mg/L
AW-16	Compliance	E005	04/30/2024	Temperature	19.7	degrees C
AW-16	Compliance	E005	04/30/2024	Thallium, total	0.00038 U	mg/L
AW-16	Compliance	E005	04/30/2024	Total Dissolved Solids	1,300	mg/L
AW-16	Compliance	E005	04/30/2024	Turbidity, field	0	NTU
AW-17	Compliance	E005	05/01/2024	Antimony, total	0.00043 U	mg/L
AW-17	Compliance	E005	05/01/2024	Arsenic, total	0.00530	mg/L
AW-17	Compliance	E005	05/01/2024	Barium, total	1.30	mg/L
AW-17	Compliance	E005	05/01/2024	Beryllium, total	0.00059 U	mg/L
AW-17	Compliance	E005	05/01/2024	Boron, total	0.410	mg/L
AW-17	Compliance	E005	05/01/2024	Cadmium, total	0.00074 U	mg/L
AW-17	Compliance	E005	05/01/2024	Calcium, total	110	mg/L
AW-17	Compliance	E005	05/01/2024	Chloride, total	50.0	mg/L
AW-17	Compliance	E005	05/01/2024	Chromium, total	0.0028 U	mg/L
AW-17	Compliance	E005	05/01/2024	Cobalt, total	0.00210	mg/L
AW-17	Compliance	E005	05/01/2024	Dissolved Oxygen	0.0500	mg/L
AW-17	Compliance	E005	05/01/2024	Fluoride, total	0.095 J	mg/L
AW-17	Compliance	E005	05/01/2024	Lead, total	0.00046 J	mg/L
AW-17	Compliance	E005	05/01/2024	Lithium, total	0.0350	mg/L
AW-17	Compliance	E005	05/01/2024	Mercury, total	0.00014 U	mg/L
AW-17	Compliance	E005	05/01/2024	Molybdenum, total	0.00074 U	mg/L
AW-17	Compliance	E005	05/01/2024	Oxidation Reduction Potential	-125	mV
AW-17	Compliance	E005	05/01/2024	pH (field)	6.8	SU
AW-17	Compliance	E005	05/01/2024	Radium 226 + Radium 228, total	1.75	pCi/L
AW-17	Compliance	E005	05/01/2024	Selenium, total	0.00074 U	mg/L
AW-17	Compliance	E005	05/01/2024	Specific Conductance @ 25C (field)	1,721	micromhos/cm
AW-17	Compliance	E005	05/01/2024	Sulfate, total	0.18 U	mg/L
AW-17	Compliance	E005	05/01/2024	Temperature	18.1	degrees C
AW-17	Compliance	E005	05/01/2024	Thallium, total	0.00038 U	mg/L
AW-17	Compliance	E005	05/01/2024	Total Dissolved Solids	910	mg/L
AW-17	Compliance	E005	05/01/2024	Turbidity, field	47.4	NTU
AW-18	Compliance	E005	04/30/2024	Antimony, total	0.00043 U	mg/L
AW-18	Compliance	E005	04/30/2024	Arsenic, total	0.00330	mg/L
AW-18	Compliance	E005	04/30/2024	Barium, total	1.40	mg/L
AW-18	Compliance	E005	04/30/2024	Beryllium, total	0.00059 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2024
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ASH POND
BARTONVILLE, IL

Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-18	Compliance	E005	04/30/2024	Boron, total	0.750	mg/L
AW-18	Compliance	E005	04/30/2024	Cadmium, total	0.00074 U	mg/L
AW-18	Compliance	E005	04/30/2024	Calcium, total	120	mg/L
AW-18	Compliance	E005	04/30/2024	Chloride, total	94.0	mg/L
AW-18	Compliance	E005	04/30/2024	Chromium, total	0.0028 U	mg/L
AW-18	Compliance	E005	04/30/2024	Cobalt, total	0.00072 J	mg/L
AW-18	Compliance	E005	04/30/2024	Dissolved Oxygen	0	mg/L
AW-18	Compliance	E005	04/30/2024	Fluoride, total	0.11 J	mg/L
AW-18	Compliance	E005	04/30/2024	Lead, total	0.00065 J	mg/L
AW-18	Compliance	E005	04/30/2024	Lithium, total	0.0240	mg/L
AW-18	Compliance	E005	04/30/2024	Mercury, total	0.00014 U	mg/L
AW-18	Compliance	E005	04/30/2024	Molybdenum, total	0.00150	mg/L
AW-18	Compliance	E005	04/30/2024	Oxidation Reduction Potential	-134	mV
AW-18	Compliance	E005	04/30/2024	pH (field)	6.7	SU
AW-18	Compliance	E005	04/30/2024	Radium 226 + Radium 228, total	3.23	pCi/L
AW-18	Compliance	E005	04/30/2024	Selenium, total	0.00074 U	mg/L
AW-18	Compliance	E005	04/30/2024	Specific Conductance @ 25C (field)	1,720	micromhos/cm
AW-18	Compliance	E005	04/30/2024	Sulfate, total	2.60	mg/L
AW-18	Compliance	E005	04/30/2024	Temperature	25.4	degrees C
AW-18	Compliance	E005	04/30/2024	Thallium, total	0.00038 U	mg/L
AW-18	Compliance	E005	04/30/2024	Total Dissolved Solids	980	mg/L
AW-18	Compliance	E005	04/30/2024	Turbidity, field	31.3	NTU
AW-19	Compliance	E005	04/30/2024	Antimony, total	0.00043 U	mg/L
AW-19	Compliance	E005	04/30/2024	Arsenic, total	0.0130	mg/L
AW-19	Compliance	E005	04/30/2024	Barium, total	0.190	mg/L
AW-19	Compliance	E005	04/30/2024	Beryllium, total	0.00059 U	mg/L
AW-19	Compliance	E005	04/30/2024	Boron, total	2.80	mg/L
AW-19	Compliance	E005	04/30/2024	Cadmium, total	0.00074 U	mg/L
AW-19	Compliance	E005	04/30/2024	Calcium, total	120	mg/L
AW-19	Compliance	E005	04/30/2024	Chloride, total	73.0	mg/L
AW-19	Compliance	E005	04/30/2024	Chromium, total	0.0028 U	mg/L
AW-19	Compliance	E005	04/30/2024	Cobalt, total	0.00081 J	mg/L
AW-19	Compliance	E005	04/30/2024	Dissolved Oxygen	0.940	mg/L
AW-19	Compliance	E005	04/30/2024	Fluoride, total	0.248 J	mg/L
AW-19	Compliance	E005	04/30/2024	Lead, total	0.00052 J	mg/L
AW-19	Compliance	E005	04/30/2024	Lithium, total	0.011 J	mg/L
AW-19	Compliance	E005	04/30/2024	Mercury, total	0.00014 U	mg/L
AW-19	Compliance	E005	04/30/2024	Molybdenum, total	0.00360	mg/L
AW-19	Compliance	E005	04/30/2024	Oxidation Reduction Potential	-93.0	mV
AW-19	Compliance	E005	04/30/2024	pH (field)	6.8	SU
AW-19	Compliance	E005	04/30/2024	Radium 226 + Radium 228, total	0.18	pCi/L
AW-19	Compliance	E005	04/30/2024	Selenium, total	0.00074 U	mg/L
AW-19	Compliance	E005	04/30/2024	Specific Conductance @ 25C (field)	1,090	micromhos/cm
AW-19	Compliance	E005	04/30/2024	Sulfate, total	55.0	mg/L
AW-19	Compliance	E005	04/30/2024	Temperature	20.3	degrees C
AW-19	Compliance	E005	04/30/2024	Thallium, total	0.00038 U	mg/L

TABLE 1.
FIELD PARAMETERS AND ANALYTICAL RESULTS - QUARTER 1, 2024
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Well ID	Well Type	Event	Date	Parameter	Result	Unit
AW-19	Compliance	E005	04/30/2024	Total Dissolved Solids	760	mg/L
AW-19	Compliance	E005	04/30/2024	Turbidity, field	20.1	NTU
AW-21	Compliance	E005	04/30/2024	Antimony, total	0.0022 J	mg/L
AW-21	Compliance	E005	04/30/2024	Arsenic, total	0.00390	mg/L
AW-21	Compliance	E005	04/30/2024	Barium, total	0.0790	mg/L
AW-21	Compliance	E005	04/30/2024	Beryllium, total	0.00059 U	mg/L
AW-21	Compliance	E005	04/30/2024	Boron, total	9.50	mg/L
AW-21	Compliance	E005	04/30/2024	Cadmium, total	0.00074 U	mg/L
AW-21	Compliance	E005	04/30/2024	Calcium, total	100	mg/L
AW-21	Compliance	E005	04/30/2024	Chloride, total	60.0	mg/L
AW-21	Compliance	E005	04/30/2024	Chromium, total	0.0028 U	mg/L
AW-21	Compliance	E005	04/30/2024	Cobalt, total	0.00048 U	mg/L
AW-21	Compliance	E005	04/30/2024	Dissolved Oxygen	5.60	mg/L
AW-21	Compliance	E005	04/30/2024	Fluoride, total	0.279	mg/L
AW-21	Compliance	E005	04/30/2024	Lead, total	0.00022 U	mg/L
AW-21	Compliance	E005	04/30/2024	Lithium, total	0.0067 J	mg/L
AW-21	Compliance	E005	04/30/2024	Mercury, total	0.00014 U	mg/L
AW-21	Compliance	E005	04/30/2024	Molybdenum, total	0.0210	mg/L
AW-21	Compliance	E005	04/30/2024	Oxidation Reduction Potential	82.0	mV
AW-21	Compliance	E005	04/30/2024	pH (field)	7.7	SU
AW-21	Compliance	E005	04/30/2024	Radium 226 + Radium 228, total	0.788	pCi/L
AW-21	Compliance	E005	04/30/2024	Selenium, total	0.00260	mg/L
AW-21	Compliance	E005	04/30/2024	Specific Conductance @ 25C (field)	618	micromhos/cm
AW-21	Compliance	E005	04/30/2024	Sulfate, total	210	mg/L
AW-21	Compliance	E005	04/30/2024	Temperature	18.9	degrees C
AW-21	Compliance	E005	04/30/2024	Thallium, total	0.00038 U	mg/L
AW-21	Compliance	E005	04/30/2024	Total Dissolved Solids	770	mg/L
AW-21	Compliance	E005	04/30/2024	Turbidity, field	3.80	NTU

Notes:
C = Celsius
cm = centimeter
mg/L = milligrams per liter
mV = millivolts
NTU = Nephelometric Turbidity Units
pCi/L = picocuries per liter
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 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.

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AP07S	PMP	E005	Antimony, total	mg/L	02/10/21 - 04/30/24	14	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AP07S	PMP	E005	Arsenic, total	mg/L	02/10/21 - 04/30/24	14	86	CI around median	0.001	0.0300	Background	No Exceedance
AP07S	PMP	E005	Barium, total	mg/L	02/10/21 - 04/30/24	14	0	CI around mean	0.072	2.07	Background	No Exceedance
AP07S	PMP	E005	Beryllium, total	mg/L	02/10/21 - 04/30/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AP07S	PMP	E005	Boron, total	mg/L	02/10/21 - 04/30/24	14	0	CB around linear reg	8.75	2	Standard	Exceedance
AP07S	PMP	E005	Cadmium, total	mg/L	02/10/21 - 04/30/24	14	86	CI around median	0.001	0.005	Standard	No Exceedance
AP07S	PMP	E005	Chloride, total	mg/L	02/10/21 - 04/30/24	14	0	CI around median	73	200	Standard	No Exceedance
AP07S	PMP	E005	Chromium, total	mg/L	02/10/21 - 04/30/24	14	71	CI around median	0.004	0.1	Standard	No Exceedance
AP07S	PMP	E005	Cobalt, total	mg/L	02/10/21 - 04/30/24	14	7	CI around mean	0.00217	0.0280	Background	No Exceedance
AP07S	PMP	E005	Fluoride, total	mg/L	02/10/21 - 04/30/24	14	71	CI around median	0.25	4.0	Standard	No Exceedance
AP07S	PMP	E005	Lead, total	mg/L	02/10/21 - 04/30/24	14	64	CI around median	0.001	0.0330	Background	No Exceedance
AP07S	PMP	E005	Lithium, total	mg/L	02/10/21 - 04/30/24	14	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AP07S	PMP	E005	Mercury, total	mg/L	02/10/21 - 04/30/24	14	93	CI around median	0.0002	0.002	Standard	No Exceedance
AP07S	PMP	E005	Molybdenum, total	mg/L	02/10/21 - 04/30/24	14	50	CI around median	0.001	0.1	Standard	No Exceedance
AP07S	PMP	E005	pH (field)	SU	02/10/21 - 04/30/24	14	0	CI around mean	6.6/7.0	6.3/9.0	Background/Standard	No Exceedance
AP07S	PMP	E005	Radium 226 + Radium 228, total	pCi/L	02/10/21 - 04/30/24	14	0	CI around mean	0.567	9.60	Background	No Exceedance
AP07S	PMP	E005	Selenium, total	mg/L	02/10/21 - 04/30/24	14	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AP07S	PMP	E005	Sulfate, total	mg/L	02/10/21 - 04/30/24	14	0	CI around mean	227	400	Standard	No Exceedance
AP07S	PMP	E005	Thallium, total	mg/L	02/10/21 - 04/30/24	14	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AP07S	PMP	E005	Total Dissolved Solids	mg/L	02/10/21 - 04/30/24	14	0	CI around mean	834	1,200	Standard	No Exceedance
AW-01	PMP	E005	Antimony, total	mg/L	11/18/22 - 04/30/24	9	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-01	PMP	E005	Arsenic, total	mg/L	11/18/22 - 04/30/24	9	0	CI around mean	0.00263	0.0300	Background	No Exceedance
AW-01	PMP	E005	Barium, total	mg/L	11/18/22 - 04/30/24	9	0	CI around mean	0.0979	2.07	Background	No Exceedance
AW-01	PMP	E005	Beryllium, total	mg/L	11/18/22 - 04/30/24	9	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-01	PMP	E005	Boron, total	mg/L	11/18/22 - 04/30/24	9	0	CI around median	0.072	2	Standard	No Exceedance
AW-01	PMP	E005	Cadmium, total	mg/L	11/18/22 - 04/30/24	9	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-01	PMP	E005	Chloride, total	mg/L	11/18/22 - 04/30/24	9	0	CI around median	10	200	Standard	No Exceedance

TABLE 2.
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845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-01	PMP	E005	Chromium, total	mg/L	11/18/22 - 04/30/24	9	78	CI around median	0.004	0.1	Standard	No Exceedance
AW-01	PMP	E005	Cobalt, total	mg/L	11/18/22 - 04/30/24	9	22	CI around mean	0.00251	0.0280	Background	No Exceedance
AW-01	PMP	E005	Fluoride, total	mg/L	11/18/22 - 04/30/24	9	56	CI around median	0.25	4.0	Standard	No Exceedance
AW-01	PMP	E005	Lead, total	mg/L	11/18/22 - 04/30/24	9	78	CI around median	0.001	0.0330	Background	No Exceedance
AW-01	PMP	E005	Lithium, total	mg/L	11/18/22 - 04/30/24	9	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-01	PMP	E005	Mercury, total	mg/L	11/18/22 - 04/30/24	9	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-01	PMP	E005	Molybdenum, total	mg/L	11/18/22 - 04/30/24	9	0	CI around mean	0.00275	0.1	Standard	No Exceedance
AW-01	PMP	E005	pH (field)	SU	11/18/22 - 04/30/24	9	0	CI around mean	6.7/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-01	PMP	E005	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 04/30/24	9	0	CI around median	0.288	9.60	Background	No Exceedance
AW-01	PMP	E005	Selenium, total	mg/L	11/18/22 - 04/30/24	9	89	CI around median	0.001	0.05	Standard	No Exceedance
AW-01	PMP	E005	Sulfate, total	mg/L	11/18/22 - 04/30/24	9	0	CI around median	41	400	Standard	No Exceedance
AW-01	PMP	E005	Thallium, total	mg/L	11/18/22 - 04/30/24	9	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-01	PMP	E005	Total Dissolved Solids	mg/L	11/18/22 - 04/30/24	9	0	CI around mean	740	1,200	Standard	No Exceedance
AW-05	UA	E005	Antimony, total	mg/L	11/09/15 - 04/30/24	18	94	Most recent sample	0.003	0.006	Standard	No Exceedance
AW-05	UA	E005	Arsenic, total	mg/L	11/09/15 - 04/30/24	18	0	CI around median	0.0035	0.0300	Background	No Exceedance
AW-05	UA	E005	Barium, total	mg/L	11/09/15 - 04/30/24	18	0	CI around geomean	0.137	2.07	Background	No Exceedance
AW-05	UA	E005	Beryllium, total	mg/L	11/09/15 - 04/30/24	17	88	CI around median	0.001	0.004	Standard	No Exceedance
AW-05	UA	E005	Boron, total	mg/L	11/09/15 - 04/30/24	19	0	CB around T-S line	2.97	2	Standard	Exceedance
AW-05	UA	E005	Cadmium, total	mg/L	11/09/15 - 04/30/24	18	89	CI around median	0.001	0.005	Standard	No Exceedance
AW-05	UA	E005	Chloride, total	mg/L	11/09/15 - 04/30/24	19	0	CB around linear reg	-121	200	Standard	No Exceedance
AW-05	UA	E005	Chromium, total	mg/L	11/09/15 - 04/30/24	18	33	CI around geomean	0.00559	0.1	Standard	No Exceedance
AW-05	UA	E005	Cobalt, total	mg/L	11/09/15 - 04/30/24	18	17	CI around geomean	0.0035	0.0280	Background	No Exceedance
AW-05	UA	E005	Fluoride, total	mg/L	11/09/15 - 04/30/24	19	58	CI around median	0.25	4.0	Standard	No Exceedance
AW-05	UA	E005	Lead, total	mg/L	11/09/15 - 04/30/24	17	29	CI around geomean	0.0018	0.0330	Background	No Exceedance
AW-05	UA	E005	Lithium, total	mg/L	11/09/15 - 04/30/24	18	33	CI around median	0.02	0.0710	Background	No Exceedance
AW-05	UA	E005	Mercury, total	mg/L	11/09/15 - 04/30/24	18	94	CI around median	0.0002	0.002	Standard	No Exceedance
AW-05	UA	E005	Molybdenum, total	mg/L	11/09/15 - 04/30/24	18	0	CI around mean	0.00206	0.1	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
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EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-05	UA	E005	pH (field)	SU	11/09/15 - 04/30/24	19	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-05	UA	E005	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 04/30/24	18	0	CI around mean	0.746	9.60	Background	No Exceedance
AW-05	UA	E005	Selenium, total	mg/L	11/09/15 - 04/30/24	18	56	CI around median	0.001	0.05	Standard	No Exceedance
AW-05	UA	E005	Sulfate, total	mg/L	11/09/15 - 04/30/24	19	0	CI around median	280	400	Standard	No Exceedance
AW-05	UA	E005	Thallium, total	mg/L	11/09/15 - 04/30/24	17	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-05	UA	E005	Total Dissolved Solids	mg/L	11/09/15 - 04/30/24	19	0	CI around mean	1,030	1,200	Standard	No Exceedance
AW-06	UA	E005	Antimony, total	mg/L	11/10/15 - 05/02/24	19	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-06	UA	E005	Arsenic, total	mg/L	11/10/15 - 05/02/24	24	0	CI around geomean	0.00323	0.0300	Background	No Exceedance
AW-06	UA	E005	Barium, total	mg/L	11/10/15 - 05/02/24	24	0	CI around median	0.18	2.07	Background	No Exceedance
AW-06	UA	E005	Beryllium, total	mg/L	11/10/15 - 05/02/24	24	88	CI around median	0.001	0.004	Standard	No Exceedance
AW-06	UA	E005	Boron, total	mg/L	11/10/15 - 05/02/24	25	0	CB around linear reg	0.0564	2	Standard	No Exceedance
AW-06	UA	E005	Cadmium, total	mg/L	11/10/15 - 05/02/24	19	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-06	UA	E005	Chloride, total	mg/L	11/10/15 - 05/02/24	25	0	CB around T-S line	13.9	200	Standard	No Exceedance
AW-06	UA	E005	Chromium, total	mg/L	11/10/15 - 05/02/24	24	54	CI around median	0.004	0.1	Standard	No Exceedance
AW-06	UA	E005	Cobalt, total	mg/L	11/10/15 - 05/02/24	24	58	CI around median	0.002	0.0280	Background	No Exceedance
AW-06	UA	E005	Fluoride, total	mg/L	11/10/15 - 05/02/24	25	8	CB around T-S line	0.197	4.0	Standard	No Exceedance
AW-06	UA	E005	Lead, total	mg/L	11/10/15 - 05/02/24	24	38	CI around median	0.001	0.0330	Background	No Exceedance
AW-06	UA	E005	Lithium, total	mg/L	11/10/15 - 05/02/24	24	50	CI around median	0.02	0.0710	Background	No Exceedance
AW-06	UA	E005	Mercury, total	mg/L	11/10/15 - 05/02/24	19	95	CI around median	0.0002	0.002	Standard	No Exceedance
AW-06	UA	E005	Molybdenum, total	mg/L	11/10/15 - 05/02/24	24	0	CI around mean	0.00492	0.1	Standard	No Exceedance
AW-06	UA	E005	pH (field)	SU	11/10/15 - 05/02/24	25	0	CI around median	7.1/7.3	6.3/9.0	Background/Standard	No Exceedance
AW-06	UA	E005	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 05/02/24	24	0	CI around mean	0.747	9.60	Background	No Exceedance
AW-06	UA	E005	Selenium, total	mg/L	11/10/15 - 05/02/24	24	75	CI around median	0.001	0.05	Standard	No Exceedance
AW-06	UA	E005	Sulfate, total	mg/L	11/10/15 - 05/02/24	25	0	CB around linear reg	17.7	400	Standard	No Exceedance
AW-06	UA	E005	Thallium, total	mg/L	11/10/15 - 05/02/24	19	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-06	UA	E005	Total Dissolved Solids	mg/L	11/10/15 - 05/02/24	25	0	CI around mean	514	1,200	Standard	No Exceedance
AW-09	UA	E005	Antimony, total	mg/L	11/10/15 - 05/02/24	19	100	All ND - Last	0.003	0.006	Standard	No Exceedance

TABLE 2.
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845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-09	UA	E005	Arsenic, total	mg/L	11/10/15 - 05/02/24	24	12	CI around mean	0.0119	0.0300	Background	No Exceedance
AW-09	UA	E005	Barium, total	mg/L	11/10/15 - 05/02/24	24	0	CI around geomean	0.296	2.07	Background	No Exceedance
AW-09	UA	E005	Beryllium, total	mg/L	11/10/15 - 05/02/24	24	83	CB around T-S line	-0.000284	0.004	Standard	No Exceedance
AW-09	UA	E005	Boron, total	mg/L	11/10/15 - 05/02/24	25	0	CB around linear reg	-0.0858	2	Standard	No Exceedance
AW-09	UA	E005	Cadmium, total	mg/L	11/10/15 - 05/02/24	19	90	CI around median	0.001	0.005	Standard	No Exceedance
AW-09	UA	E005	Chloride, total	mg/L	11/10/15 - 05/02/24	25	0	CI around median	27	200	Standard	No Exceedance
AW-09	UA	E005	Chromium, total	mg/L	11/10/15 - 05/02/24	24	58	CB around T-S line	-0.0427	0.1	Standard	No Exceedance
AW-09	UA	E005	Cobalt, total	mg/L	11/10/15 - 05/02/24	24	4	CB around T-S line	-0.0219	0.0280	Background	No Exceedance
AW-09	UA	E005	Fluoride, total	mg/L	11/10/15 - 05/02/24	25	64	CB around T-S line	0.179	4.0	Standard	No Exceedance
AW-09	UA	E005	Lead, total	mg/L	11/10/15 - 05/02/24	24	46	CB around T-S line	-0.0235	0.0330	Background	No Exceedance
AW-09	UA	E005	Lithium, total	mg/L	11/10/15 - 05/02/24	24	38	CB around T-S line	-0.039	0.0710	Background	No Exceedance
AW-09	UA	E005	Mercury, total	mg/L	11/10/15 - 05/02/24	19	95	CI around median	0.0002	0.002	Standard	No Exceedance
AW-09	UA	E005	Molybdenum, total	mg/L	11/10/15 - 05/02/24	24	0	CI around mean	0.0143	0.1	Standard	No Exceedance
AW-09	UA	E005	pH (field)	SU	11/10/15 - 05/02/24	25	0	CB around linear reg	6.9/7.2	6.3/9.0	Background/Standard	No Exceedance
AW-09	UA	E005	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 05/02/24	24	0	CI around median	0.771	9.60	Background	No Exceedance
AW-09	UA	E005	Selenium, total	mg/L	11/10/15 - 05/02/24	24	67	CB around T-S line	-0.00143	0.05	Standard	No Exceedance
AW-09	UA	E005	Sulfate, total	mg/L	11/10/15 - 05/02/24	25	56	CB around T-S line	-24.4	400	Standard	No Exceedance
AW-09	UA	E005	Thallium, total	mg/L	11/10/15 - 05/02/24	19	95	CI around median	0.001	0.002	Standard	No Exceedance
AW-09	UA	E005	Total Dissolved Solids	mg/L	11/10/15 - 05/02/24	25	0	CB around T-S line	756	1,200	Standard	No Exceedance
AW-10	UA	E005	Antimony, total	mg/L	11/09/15 - 05/02/24	20	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-10	UA	E005	Arsenic, total	mg/L	11/09/15 - 05/02/24	25	0	CI around median	0.0099	0.0300	Background	No Exceedance
AW-10	UA	E005	Barium, total	mg/L	11/09/15 - 05/02/24	25	0	CI around median	0.93	2.07	Background	No Exceedance
AW-10	UA	E005	Beryllium, total	mg/L	11/09/15 - 05/02/24	25	76	CI around median	0.001	0.004	Standard	No Exceedance
AW-10	UA	E005	Boron, total	mg/L	11/09/15 - 05/02/24	26	0	CI around mean	0.462	2	Standard	No Exceedance
AW-10	UA	E005	Cadmium, total	mg/L	11/09/15 - 05/02/24	20	95	CI around median	0.001	0.005	Standard	No Exceedance
AW-10	UA	E005	Chloride, total	mg/L	11/09/15 - 05/02/24	26	0	CI around geomean	87.1	200	Standard	No Exceedance
AW-10	UA	E005	Chromium, total	mg/L	11/09/15 - 05/02/24	25	32	CI around median	0.004	0.1	Standard	No Exceedance

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-10	UA	E005	Cobalt, total	mg/L	11/09/15 - 05/02/24	25	4	CI around geomean	0.00393	0.0280	Background	No Exceedance
AW-10	UA	E005	Fluoride, total	mg/L	11/09/15 - 05/02/24	26	96	CI around median	0.25	4.0	Standard	No Exceedance
AW-10	UA	E005	Lead, total	mg/L	11/09/15 - 05/02/24	25	12	CI around geomean	0.0021	0.0330	Background	No Exceedance
AW-10	UA	E005	Lithium, total	mg/L	11/09/15 - 05/02/24	25	0	CB around T-S line	-0.02	0.0710	Background	No Exceedance
AW-10	UA	E005	Mercury, total	mg/L	11/09/15 - 05/02/24	20	95	CI around median	0.0002	0.002	Standard	No Exceedance
AW-10	UA	E005	Molybdenum, total	mg/L	11/09/15 - 05/02/24	25	24	CI around median	0.0011	0.1	Standard	No Exceedance
AW-10	UA	E005	pH (field)	SU	11/09/15 - 05/02/24	27	0	CI around mean	6.9/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-10	UA	E005	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 05/02/24	25	0	CI around mean	2.32	9.60	Background	No Exceedance
AW-10	UA	E005	Selenium, total	mg/L	11/09/15 - 05/02/24	25	64	CI around median	0.001	0.05	Standard	No Exceedance
AW-10	UA	E005	Sulfate, total	mg/L	11/09/15 - 05/02/24	26	81	CB around T-S line	0.825	400	Standard	No Exceedance
AW-10	UA	E005	Thallium, total	mg/L	11/09/15 - 05/02/24	20	95	CI around median	0.001	0.002	Standard	No Exceedance
AW-10	UA	E005	Total Dissolved Solids	mg/L	11/09/15 - 05/02/24	26	0	CB around T-S line	1,100	1,200	Standard	No Exceedance
AW-11	UA	E005	Antimony, total	mg/L	11/09/15 - 05/01/24	19	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-11	UA	E005	Arsenic, total	mg/L	11/09/15 - 05/01/24	24	0	CI around geomean	0.00897	0.0300	Background	No Exceedance
AW-11	UA	E005	Barium, total	mg/L	11/09/15 - 05/01/24	24	0	CI around geomean	0.871	2.07	Background	No Exceedance
AW-11	UA	E005	Beryllium, total	mg/L	11/09/15 - 05/01/24	24	79	CI around median	0.001	0.004	Standard	No Exceedance
AW-11	UA	E005	Boron, total	mg/L	11/09/15 - 05/01/24	25	0	CI around mean	0.224	2	Standard	No Exceedance
AW-11	UA	E005	Cadmium, total	mg/L	11/09/15 - 05/01/24	19	84	CI around median	0.001	0.005	Standard	No Exceedance
AW-11	UA	E005	Chloride, total	mg/L	11/09/15 - 05/01/24	25	0	CI around mean	31.3	200	Standard	No Exceedance
AW-11	UA	E005	Chromium, total	mg/L	11/09/15 - 05/01/24	24	54	CB around T-S line	-0.018	0.1	Standard	No Exceedance
AW-11	UA	E005	Cobalt, total	mg/L	11/09/15 - 05/01/24	24	29	CB around T-S line	-0.00886	0.0280	Background	No Exceedance
AW-11	UA	E005	Fluoride, total	mg/L	11/09/15 - 05/01/24	25	88	CI around median	0.25	4.0	Standard	No Exceedance
AW-11	UA	E005	Lead, total	mg/L	11/09/15 - 05/01/24	24	38	CB around T-S line	-0.0111	0.0330	Background	No Exceedance
AW-11	UA	E005	Lithium, total	mg/L	11/09/15 - 05/01/24	24	17	CB around T-S line	-0.0136	0.0710	Background	No Exceedance
AW-11	UA	E005	Mercury, total	mg/L	11/09/15 - 05/01/24	19	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-11	UA	E005	Molybdenum, total	mg/L	11/09/15 - 05/01/24	24	8	CB around linear reg	-0.00126	0.1	Standard	No Exceedance
AW-11	UA	E005	pH (field)	SU	11/09/15 - 05/01/24	25	0	CI around median	6.9/7.2	6.3/9.0	Background/Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-11	UA	E005	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 05/01/24	24	0	CI around geomean	1.57	9.60	Background	No Exceedance
AW-11	UA	E005	Selenium, total	mg/L	11/09/15 - 05/01/24	24	71	CB around T-S line	0.000173	0.05	Standard	No Exceedance
AW-11	UA	E005	Sulfate, total	mg/L	11/09/15 - 05/01/24	25	68	CB around T-S line	0.14	400	Standard	No Exceedance
AW-11	UA	E005	Thallium, total	mg/L	11/09/15 - 05/01/24	19	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-11	UA	E005	Total Dissolved Solids	mg/L	11/09/15 - 05/01/24	25	0	CB around T-S line	938	1,200	Standard	No Exceedance
AW-14	UA	E005	Antimony, total	mg/L	02/11/21 - 05/01/24	13	92	CI around median	0.003	0.006	Standard	No Exceedance
AW-14	UA	E005	Arsenic, total	mg/L	02/11/21 - 05/01/24	13	0	CB around linear reg	-0.000327	0.0300	Background	No Exceedance
AW-14	UA	E005	Barium, total	mg/L	02/11/21 - 05/01/24	13	0	CI around mean	0.625	2.07	Background	No Exceedance
AW-14	UA	E005	Beryllium, total	mg/L	02/11/21 - 05/01/24	13	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-14	UA	E005	Boron, total	mg/L	02/11/21 - 05/01/24	13	0	CI around median	0.17	2	Standard	No Exceedance
AW-14	UA	E005	Cadmium, total	mg/L	02/11/21 - 05/01/24	13	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-14	UA	E005	Chloride, total	mg/L	02/11/21 - 05/01/24	13	0	CI around geomean	23.6	200	Standard	No Exceedance
AW-14	UA	E005	Chromium, total	mg/L	02/11/21 - 05/01/24	13	92	CI around median	0.004	0.1	Standard	No Exceedance
AW-14	UA	E005	Cobalt, total	mg/L	02/11/21 - 05/01/24	13	23	CB around linear reg	-0.00171	0.0280	Background	No Exceedance
AW-14	UA	E005	Fluoride, total	mg/L	02/11/21 - 05/01/24	13	85	CI around median	0.25	4.0	Standard	No Exceedance
AW-14	UA	E005	Lead, total	mg/L	02/11/21 - 05/01/24	13	69	CI around median	0.001	0.0330	Background	No Exceedance
AW-14	UA	E005	Lithium, total	mg/L	02/11/21 - 05/01/24	13	62	CI around median	0.02	0.0710	Background	No Exceedance
AW-14	UA	E005	Mercury, total	mg/L	02/11/21 - 05/01/24	13	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-14	UA	E005	Molybdenum, total	mg/L	02/11/21 - 05/01/24	13	23	CI around geomean	0.00151	0.1	Standard	No Exceedance
AW-14	UA	E005	pH (field)	SU	02/11/21 - 05/01/24	13	0	CI around mean	6.8/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-14	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 05/01/24	13	0	CI around mean	1.94	9.60	Background	No Exceedance
AW-14	UA	E005	Selenium, total	mg/L	02/11/21 - 05/01/24	13	85	CI around median	0.001	0.05	Standard	No Exceedance
AW-14	UA	E005	Sulfate, total	mg/L	02/11/21 - 05/01/24	13	15	CI around geomean	2.18	400	Standard	No Exceedance
AW-14	UA	E005	Thallium, total	mg/L	02/11/21 - 05/01/24	13	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-14	UA	E005	Total Dissolved Solids	mg/L	02/11/21 - 05/01/24	13	0	CI around mean	921	1,200	Standard	No Exceedance
AW-15	UA	E005	Antimony, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-15	UA	E005	Arsenic, total	mg/L	02/12/21 - 05/01/24	11	9	CI around mean	0.00147	0.0300	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-15	UA	E005	Barium, total	mg/L	02/12/21 - 05/01/24	11	0	CI around mean	1.65	2.07	Background	No Exceedance
AW-15	UA	E005	Beryllium, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-15	UA	E005	Boron, total	mg/L	02/12/21 - 05/01/24	11	0	CI around mean	0.347	2	Standard	No Exceedance
AW-15	UA	E005	Cadmium, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-15	UA	E005	Chloride, total	mg/L	02/12/21 - 05/01/24	11	0	CB around linear reg	25.5	200	Standard	No Exceedance
AW-15	UA	E005	Chromium, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-15	UA	E005	Cobalt, total	mg/L	02/12/21 - 05/01/24	11	91	CI around median	0.002	0.0280	Background	No Exceedance
AW-15	UA	E005	Fluoride, total	mg/L	02/12/21 - 05/01/24	11	82	CI around median	0.25	4.0	Standard	No Exceedance
AW-15	UA	E005	Lead, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-15	UA	E005	Lithium, total	mg/L	02/12/21 - 05/01/24	11	0	CI around mean	0.0286	0.0710	Background	No Exceedance
AW-15	UA	E005	Mercury, total	mg/L	02/12/21 - 05/01/24	11	91	CI around median	0.0002	0.002	Standard	No Exceedance
AW-15	UA	E005	Molybdenum, total	mg/L	02/12/21 - 05/01/24	11	82	CI around median	0.001	0.1	Standard	No Exceedance
AW-15	UA	E005	pH (field)	SU	02/12/21 - 05/01/24	10	0	CI around mean	6.7/6.9	6.3/9.0	Background/Standard	No Exceedance
AW-15	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 05/01/24	11	0	CI around mean	3.54	9.60	Background	No Exceedance
AW-15	UA	E005	Selenium, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-15	UA	E005	Sulfate, total	mg/L	02/12/21 - 05/01/24	11	91	Most recent sample	1	400	Standard	No Exceedance
AW-15	UA	E005	Thallium, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-15	UA	E005	Total Dissolved Solids	mg/L	02/12/21 - 05/01/24	11	0	CI around mean	926	1,200	Standard	No Exceedance
AW-15S	PMP	E005	Antimony, total	mg/L	02/12/21 - 05/01/24	14	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-15S	PMP	E005	Arsenic, total	mg/L	02/12/21 - 05/01/24	14	64	CI around median	0.001	0.0300	Background	No Exceedance
AW-15S	PMP	E005	Barium, total	mg/L	02/12/21 - 05/01/24	14	0	CB around T-S line	-0.069	2.07	Background	No Exceedance
AW-15S	PMP	E005	Beryllium, total	mg/L	02/12/21 - 05/01/24	14	93	CI around median	0.001	0.004	Standard	No Exceedance
AW-15S	PMP	E005	Boron, total	mg/L	02/12/21 - 05/01/24	14	0	CI around mean	5.54	2	Standard	Exceedance
AW-15S	PMP	E005	Cadmium, total	mg/L	02/12/21 - 05/01/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-15S	PMP	E005	Chloride, total	mg/L	02/12/21 - 05/01/24	14	0	CB around linear reg	21.7	200	Standard	No Exceedance
AW-15S	PMP	E005	Chromium, total	mg/L	02/12/21 - 05/01/24	14	93	CI around median	0.004	0.1	Standard	No Exceedance
AW-15S	PMP	E005	Cobalt, total	mg/L	02/12/21 - 05/01/24	14	93	CI around median	0.002	0.0280	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-15S	PMP	E005	Fluoride, total	mg/L	02/12/21 - 05/01/24	14	36	CI around median	0.25	4.0	Standard	No Exceedance
AW-15S	PMP	E005	Lead, total	mg/L	02/12/21 - 05/01/24	14	86	CI around median	0.001	0.0330	Background	No Exceedance
AW-15S	PMP	E005	Lithium, total	mg/L	02/12/21 - 05/01/24	14	86	CI around median	0.02	0.0710	Background	No Exceedance
AW-15S	PMP	E005	Mercury, total	mg/L	02/12/21 - 05/01/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-15S	PMP	E005	Molybdenum, total	mg/L	02/12/21 - 05/01/24	14	0	CB around linear reg	0.00212	0.1	Standard	No Exceedance
AW-15S	PMP	E005	pH (field)	SU	02/12/21 - 05/01/24	14	0	CI around mean	6.8/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-15S	PMP	E005	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 05/01/24	13	0	CI around mean	0.42	9.60	Background	No Exceedance
AW-15S	PMP	E005	Selenium, total	mg/L	02/12/21 - 05/01/24	14	43	CI around median	0.001	0.05	Standard	No Exceedance
AW-15S	PMP	E005	Sulfate, total	mg/L	02/12/21 - 05/01/24	14	0	CI around mean	522	400	Standard	Exceedance
AW-15S	PMP	E005	Thallium, total	mg/L	02/12/21 - 05/01/24	14	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-15S	PMP	E005	Total Dissolved Solids	mg/L	02/12/21 - 05/01/24	14	0	CI around mean	1,210	1,200	Standard	Exceedance
AW-16	UA	E005	Antimony, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-16	UA	E005	Arsenic, total	mg/L	02/11/21 - 04/30/24	14	21	CI around mean	0.00113	0.0300	Background	No Exceedance
AW-16	UA	E005	Barium, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	0.999	2.07	Background	No Exceedance
AW-16	UA	E005	Beryllium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-16	UA	E005	Boron, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	0.458	2	Standard	No Exceedance
AW-16	UA	E005	Cadmium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-16	UA	E005	Chloride, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	43	200	Standard	No Exceedance
AW-16	UA	E005	Chromium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-16	UA	E005	Cobalt, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-16	UA	E005	Fluoride, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.25	4.0	Standard	No Exceedance
AW-16	UA	E005	Lead, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.0330	Background	No Exceedance
AW-16	UA	E005	Lithium, total	mg/L	02/11/21 - 04/30/24	14	0	CB around T-S line	0.019	0.0710	Background	No Exceedance
AW-16	UA	E005	Mercury, total	mg/L	02/11/21 - 04/30/24	14	93	CI around median	0.0002	0.002	Standard	No Exceedance
AW-16	UA	E005	Molybdenum, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.1	Standard	No Exceedance
AW-16	UA	E005	pH (field)	SU	02/11/21 - 04/30/24	14	0	CI around mean	6.6/6.8	6.3/9.0	Background/Standard	No Exceedance
AW-16	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 04/30/24	14	0	CB around linear reg	1.57	9.60	Background	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-16	UA	E005	Selenium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-16	UA	E005	Sulfate, total	mg/L	02/11/21 - 04/30/24	14	86	CI around median	1	400	Standard	No Exceedance
AW-16	UA	E005	Thallium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-16	UA	E005	Total Dissolved Solids	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	1,070	1,200	Standard	No Exceedance
AW-17	UA	E005	Antimony, total	mg/L	02/11/21 - 05/01/24	14	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-17	UA	E005	Arsenic, total	mg/L	02/11/21 - 05/01/24	14	0	CI around mean	0.00436	0.0300	Background	No Exceedance
AW-17	UA	E005	Barium, total	mg/L	02/11/21 - 05/01/24	14	0	CI around mean	1.03	2.07	Background	No Exceedance
AW-17	UA	E005	Beryllium, total	mg/L	02/11/21 - 05/01/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-17	UA	E005	Boron, total	mg/L	02/11/21 - 05/01/24	14	0	CI around mean	0.416	2	Standard	No Exceedance
AW-17	UA	E005	Cadmium, total	mg/L	02/11/21 - 05/01/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-17	UA	E005	Chloride, total	mg/L	02/11/21 - 05/01/24	14	0	CI around mean	51.8	200	Standard	No Exceedance
AW-17	UA	E005	Chromium, total	mg/L	02/11/21 - 05/01/24	14	71	CI around median	0.004	0.1	Standard	No Exceedance
AW-17	UA	E005	Cobalt, total	mg/L	02/11/21 - 05/01/24	14	0	CI around median	0.0022	0.0280	Background	No Exceedance
AW-17	UA	E005	Fluoride, total	mg/L	02/11/21 - 05/01/24	14	93	CI around median	0.25	4.0	Standard	No Exceedance
AW-17	UA	E005	Lead, total	mg/L	02/11/21 - 05/01/24	14	71	CI around median	0.001	0.0330	Background	No Exceedance
AW-17	UA	E005	Lithium, total	mg/L	02/11/21 - 05/01/24	14	0	CB around linear reg	0.00612	0.0710	Background	No Exceedance
AW-17	UA	E005	Mercury, total	mg/L	02/11/21 - 05/01/24	14	93	CI around median	0.0002	0.002	Standard	No Exceedance
AW-17	UA	E005	Molybdenum, total	mg/L	02/11/21 - 05/01/24	14	50	CB around linear reg	6.1e-05	0.1	Standard	No Exceedance
AW-17	UA	E005	pH (field)	SU	02/11/21 - 05/01/24	14	0	CI around mean	6.6/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-17	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 05/01/24	14	0	CI around mean	2.43	9.60	Background	No Exceedance
AW-17	UA	E005	Selenium, total	mg/L	02/11/21 - 05/01/24	14	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-17	UA	E005	Sulfate, total	mg/L	02/11/21 - 05/01/24	14	100	All ND - Last	1	400	Standard	No Exceedance
AW-17	UA	E005	Thallium, total	mg/L	02/11/21 - 05/01/24	14	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-17	UA	E005	Total Dissolved Solids	mg/L	02/11/21 - 05/01/24	14	0	CI around mean	841	1,200	Standard	No Exceedance
AW-18	UA	E005	Antimony, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-18	UA	E005	Arsenic, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	0.00332	0.0300	Background	No Exceedance
AW-18	UA	E005	Barium, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	1.23	2.07	Background	No Exceedance

TABLE 2.
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845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-18	UA	E005	Beryllium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-18	UA	E005	Boron, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	0.606	2	Standard	No Exceedance
AW-18	UA	E005	Cadmium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-18	UA	E005	Chloride, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	85.8	200	Standard	No Exceedance
AW-18	UA	E005	Chromium, total	mg/L	02/11/21 - 04/30/24	14	93	CI around median	0.004	0.1	Standard	No Exceedance
AW-18	UA	E005	Cobalt, total	mg/L	02/11/21 - 04/30/24	14	79	CI around median	0.002	0.0280	Background	No Exceedance
AW-18	UA	E005	Fluoride, total	mg/L	02/11/21 - 04/30/24	14	57	CB around T-S line	-4.17	4.0	Standard	No Exceedance
AW-18	UA	E005	Lead, total	mg/L	02/11/21 - 04/30/24	14	79	CI around median	0.001	0.0330	Background	No Exceedance
AW-18	UA	E005	Lithium, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	-0.0197	0.0710	Background	No Exceedance
AW-18	UA	E005	Mercury, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-18	UA	E005	Molybdenum, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	-0.0109	0.1	Standard	No Exceedance
AW-18	UA	E005	pH (field)	SU	02/11/21 - 04/30/24	14	0	CI around mean	6.7/7.0	6.3/9.0	Background/Standard	No Exceedance
AW-18	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 04/30/24	14	0	CI around mean	2.45	9.60	Background	No Exceedance
AW-18	UA	E005	Selenium, total	mg/L	02/11/21 - 04/30/24	14	93	CI around median	0.001	0.05	Standard	No Exceedance
AW-18	UA	E005	Sulfate, total	mg/L	02/11/21 - 04/30/24	14	0	CI around geomean	4.19	400	Standard	No Exceedance
AW-18	UA	E005	Thallium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-18	UA	E005	Total Dissolved Solids	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	797	1,200	Standard	No Exceedance
AW-19	UA	E005	Antimony, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-19	UA	E005	Arsenic, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	0.0116	0.0300	Background	No Exceedance
AW-19	UA	E005	Barium, total	mg/L	02/11/21 - 04/30/24	14	0	CI around median	0.18	2.07	Background	No Exceedance
AW-19	UA	E005	Beryllium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-19	UA	E005	Boron, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	2.57	2	Standard	Exceedance
AW-19	UA	E005	Cadmium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-19	UA	E005	Chloride, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	76.2	200	Standard	No Exceedance
AW-19	UA	E005	Chromium, total	mg/L	02/11/21 - 04/30/24	14	71	CI around median	0.004	0.1	Standard	No Exceedance
AW-19	UA	E005	Cobalt, total	mg/L	02/11/21 - 04/30/24	14	71	CI around median	0.002	0.0280	Background	No Exceedance
AW-19	UA	E005	Fluoride, total	mg/L	02/11/21 - 04/30/24	14	14	CB around linear reg	0.0989	4.0	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

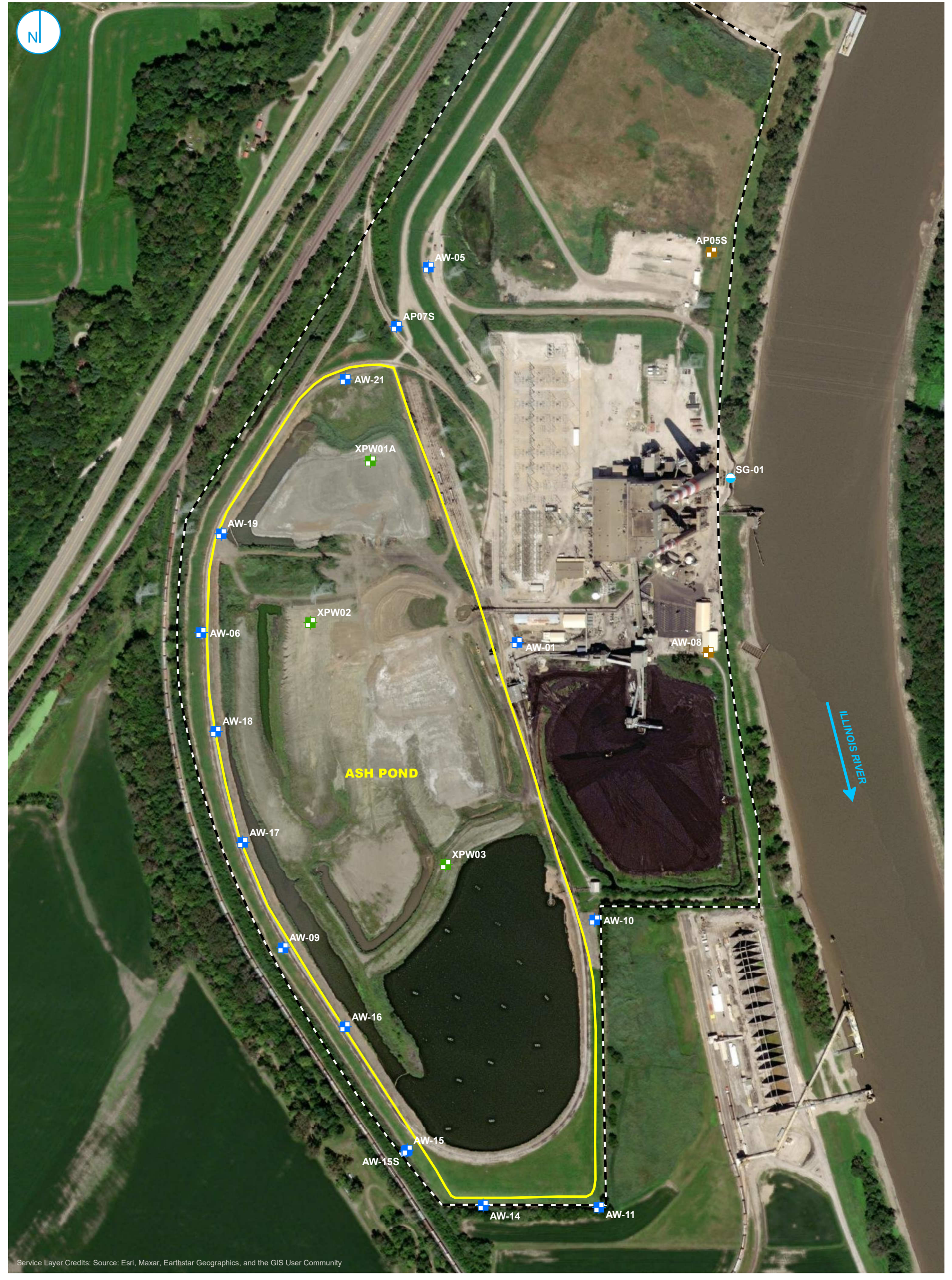
Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-19	UA	E005	Lead, total	mg/L	02/11/21 - 04/30/24	14	50	CI around median	0.001	0.0330	Background	No Exceedance
AW-19	UA	E005	Lithium, total	mg/L	02/11/21 - 04/30/24	14	71	CI around median	0.02	0.0710	Background	No Exceedance
AW-19	UA	E005	Mercury, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-19	UA	E005	Molybdenum, total	mg/L	02/11/21 - 04/30/24	14	0	CI around median	0.0035	0.1	Standard	No Exceedance
AW-19	UA	E005	pH (field)	SU	02/11/21 - 04/30/24	14	0	CI around mean	6.8/7.1	6.3/9.0	Background/Standard	No Exceedance
AW-19	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 04/30/24	14	0	CI around mean	0.443	9.60	Background	No Exceedance
AW-19	UA	E005	Selenium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.05	Standard	No Exceedance
AW-19	UA	E005	Sulfate, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	53.6	400	Standard	No Exceedance
AW-19	UA	E005	Thallium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-19	UA	E005	Total Dissolved Solids	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	617	1,200	Standard	No Exceedance
AW-21	UA	E005	Antimony, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.003	0.006	Standard	No Exceedance
AW-21	UA	E005	Arsenic, total	mg/L	02/11/21 - 04/30/24	14	21	CI around geomean	0.00112	0.0300	Background	No Exceedance
AW-21	UA	E005	Barium, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	0.0611	2.07	Background	No Exceedance
AW-21	UA	E005	Beryllium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.004	Standard	No Exceedance
AW-21	UA	E005	Boron, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	10.3	2	Standard	Exceedance
AW-21	UA	E005	Cadmium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.005	Standard	No Exceedance
AW-21	UA	E005	Chloride, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	64.1	200	Standard	No Exceedance
AW-21	UA	E005	Chromium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.004	0.1	Standard	No Exceedance
AW-21	UA	E005	Cobalt, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.002	0.0280	Background	No Exceedance
AW-21	UA	E005	Fluoride, total	mg/L	02/11/21 - 04/30/24	14	7	CB around linear reg	0.103	4.0	Standard	No Exceedance
AW-21	UA	E005	Lead, total	mg/L	02/11/21 - 04/30/24	14	93	CI around median	0.001	0.0330	Background	No Exceedance
AW-21	UA	E005	Lithium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.02	0.0710	Background	No Exceedance
AW-21	UA	E005	Mercury, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.0002	0.002	Standard	No Exceedance
AW-21	UA	E005	Molybdenum, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	0.0177	0.1	Standard	No Exceedance
AW-21	UA	E005	pH (field)	SU	02/11/21 - 04/30/24	14	0	CI around geomean	6.9/7.7	6.3/9.0	Background/Standard	No Exceedance
AW-21	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 04/30/24	14	0	CI around mean	0.495	9.60	Background	No Exceedance
AW-21	UA	E005	Selenium, total	mg/L	02/11/21 - 04/30/24	14	64	CB around T-S line	0.001	0.05	Standard	No Exceedance

TABLE 2.
COMPARISON OF STATISTICAL RESULTS TO GWPS - QUARTER 2, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	GWPS	GWPS Source	Compliance Result
AW-21	UA	E005	Sulfate, total	mg/L	02/11/21 - 04/30/24	14	0	CI around median	220	400	Standard	No Exceedance
AW-21	UA	E005	Thallium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.002	Standard	No Exceedance
AW-21	UA	E005	Total Dissolved Solids	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	646	1,200	Standard	No Exceedance

Notes:
Compliance Result:
 No Exceedance: the statistical result did not exceed the GWPS.
 Exceedance: The statistical result exceeded the GWPS.
HSU = hydrostratigraphic unit:
 PMP = Potential Migration Pathway
 UA = Uppermost Aquifer
mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
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 the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range
For pH, the values presented are the lower / upper limits
GWPS = Groundwater Protection Standard
GWPS Source:
 Standard = standard specified in 35 I.A.C. § 845.600(a)(1)
 Background = background concentration (see cover page for additional information)

FIGURES



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

0 200 400 Feet

MONITORING WELL
LOCATION MAP

ASH POND
EDWARDS POWER PLANT
BARTONVILLE, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



ATTACHMENTS

**ATTACHMENT A
SUMMARY OF GROUNDWATER ELEVATION DATA
QUARTER 2, 2024**

ATTACHMENT A.
GROUNDWATER ELEVATION DATA - QUARTER 2, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	Well Type	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
AP05S	Background	04/29/2024	3.71	439.30
AP07S	Compliance	04/29/2024	22.92	438.10
AW-01	Compliance	04/29/2024	9.87	454.73
AW-05	Compliance	04/29/2024	6.45	436.86
AW-06	Compliance	04/29/2024	24.92	436.65
AW-08	Background	04/29/2024	21.10	441.44
AW-09	Compliance	04/29/2024	25.77	435.68
AW-10	Compliance	04/29/2024	1.31	438.79
AW-11	Compliance	04/29/2024	5.19	434.85
AW-14	Compliance	04/29/2024	6.30	433.10
AW-15	Compliance	04/29/2024	8.04	433.64
AW-15S	Compliance	04/29/2024	8.94	431.94
AW-16	Compliance	04/29/2024	24.35	437.61
AW-17	Compliance	04/29/2024	25.29	436.98
AW-18	Compliance	04/29/2024	26.45	436.37
AW-19	Compliance	04/29/2024	13.45	447.46
AW-21	Compliance	04/29/2024	15.67	445.11
XPW01A	Water Level	04/29/2024	10.29	454.04
XPW02	Water Level	04/29/2024	18.45	455.51
XPW03	Water Level	04/29/2024	15.86	450.35
SG-01	Water Level	04/29/2024	NA	443.00

Notes:
BMP = below measuring point
NA = not available/not applicable
NAVD88 = North American Vertical Datum of 1988

**ATTACHMENT B
LABORATORY REPORTS AND FIELD DATA SHEETS
QUARTER 2, 2024**



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

May 27, 2024

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.

Sincerely,

A handwritten signature in cursive script, appearing to read "Diane Billings", written in black ink.

Diane Billings
Project Manager

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order HD05170

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 HE00275

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 HE00566

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: HD05170-01
Name: AP05S
Matrix: Ground Water - Grab

Sampled: 04/30/24 16:15
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	42	mg/L	Q4	05/13/24 21:56	10	10	05/13/24 21:56	JSM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		05/13/24 20:19	1	0.250	05/13/24 20:19	JSM	EPA 300.0 REV 2.1
Sulfate	1.2	mg/L		05/13/24 20:19	1	1.0	05/13/24 20:19	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	3.7	Feet		04/30/24 16:15	1		04/30/24 16:15	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		04/30/24 16:15	1		04/30/24 16:15	FIELD	Field*
Oxidation Reduction Potential	-139	mV		04/30/24 16:15	1	-500	04/30/24 16:15	FIELD	Field*
pH, Field Measured	6.74	pH Units		04/30/24 16:15	1		04/30/24 16:15	FIELD	Field*
Specific Conductance, Field Measured	1520	umhos/cm		04/30/24 16:15	1		04/30/24 16:15	FIELD	Field*
Temperature, Field Measured	16.1	°C		04/30/24 16:15	1		04/30/24 16:15	FIELD	Field*
Turbidity, Field Measured	45.1	NTU		04/30/24 16:15	1	0.00	04/30/24 16:15	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	820	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	900	mg/L	B2	05/06/24 06:57	1	26	05/06/24 09:12	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/02/24 09:22	5	3.0	05/03/24 12:36	TJJ	EPA 6020A
Arsenic	1.2	ug/L		05/02/24 09:22	5	1.0	05/03/24 12:36	TJJ	EPA 6020A
Barium	830	ug/L		05/02/24 09:22	5	1.0	05/03/24 12:36	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 12:36	TJJ	EPA 6020A
Boron	300	ug/L		05/02/24 09:22	5	10	05/07/24 10:19	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 12:36	TJJ	EPA 6020A
Calcium	100	mg/L		05/02/24 09:22	5	0.20	05/03/24 12:36	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/02/24 09:22	5	4.0	05/03/24 12:36	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/02/24 09:22	5	2.0	05/03/24 12:36	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 12:36	TJJ	EPA 6020A
Magnesium	43	mg/L		05/02/24 09:22	5	0.10	05/03/24 12:36	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/02/24 09:22	5	0.20	05/03/24 12:36	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 12:36	TJJ	EPA 6020A
Potassium	3.7	mg/L		05/02/24 09:22	5	0.10	05/03/24 12:36	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 12:36	TJJ	EPA 6020A
Sodium	170	mg/L		05/02/24 09:22	5	0.10	05/03/24 12:36	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HD05170-01

Name: AP05S

Matrix: Ground Water - Grab

Sampled: 04/30/24 16:15

Received: 04/30/24 17:43

PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 12:36	TJJ	EPA 6020A
Lithium	28	ug/L		05/02/24 09:22	1	20	05/08/24 12:34	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HD05170-02
Name: AP07S
Matrix: Ground Water - Grab

Sampled: 04/30/24 15:01
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	73	mg/L		05/10/24 19:51	50	50	05/10/24 19:51	JSM	EPA 300.0 REV 2.1
Sulfate	520	mg/L		05/13/24 22:15	100	100	05/13/24 22:15	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	23.11	Feet		04/30/24 15:01	1		04/30/24 15:01	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		04/30/24 15:01	1		04/30/24 15:01	FIELD	Field*
Oxidation Reduction Potential	6.00	mV		04/30/24 15:01	1	-500	04/30/24 15:01	FIELD	Field*
pH, Field Measured	6.86	pH Units		04/30/24 15:01	1		04/30/24 15:01	FIELD	Field*
Specific Conductance, Field Measured	1850	umhos/cm		04/30/24 15:01	1		04/30/24 15:01	FIELD	Field*
Temperature, Field Measured	21.2	°C		04/30/24 15:01	1		04/30/24 15:01	FIELD	Field*
Turbidity, Field Measured	8.80	NTU		04/30/24 15:01	1	0.00	04/30/24 15:01	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	510	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/16/24 14:53	1	0.250	05/16/24 14:53	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1700	mg/L	B2	05/06/24 06:57	1	26	05/06/24 09:12	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/02/24 09:22	5	3.0	05/03/24 13:17	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:17	TJJ	EPA 6020A
Barium	84	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:17	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:17	TJJ	EPA 6020A
Boron	18000	ug/L		05/02/24 09:22	50	100	05/07/24 11:36	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:17	TJJ	EPA 6020A
Calcium	240	mg/L		05/02/24 09:22	5	0.20	05/03/24 13:17	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/02/24 09:22	5	4.0	05/03/24 13:17	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/02/24 09:22	5	2.0	05/03/24 13:17	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:17	TJJ	EPA 6020A
Magnesium	89	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:17	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/02/24 09:22	5	0.20	05/03/24 13:17	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:17	TJJ	EPA 6020A
Potassium	0.52	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:17	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:17	TJJ	EPA 6020A
Sodium	75	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:17	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HD05170-02
Name: AP07S
Matrix: Ground Water - Grab

Sampled: 04/30/24 15:01
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:17	TJJ	EPA 6020A
Lithium	< 20	ug/L		05/02/24 09:22	1	20	05/08/24 12:38	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HD05170-03
Name: AW-01
Matrix: Ground Water - Grab

Sampled: 04/30/24 11:30
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	9.6	mg/L		05/10/24 20:08	1	1.0	05/10/24 20:08	JSM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		05/10/24 20:08	1	0.250	05/10/24 20:08	JSM	EPA 300.0 REV 2.1
Sulfate	50	mg/L		05/10/24 20:59	10	10	05/10/24 20:59	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	11.4	Feet		04/30/24 11:30	1		04/30/24 11:30	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		04/30/24 11:30	1		04/30/24 11:30	FIELD	Field*
Oxidation Reduction Potential	-43.0	mV		04/30/24 11:30	1	-500	04/30/24 11:30	FIELD	Field*
pH, Field Measured	7.20	pH Units		04/30/24 11:30	1		04/30/24 11:30	FIELD	Field*
Specific Conductance, Field Measured	1340	umhos/cm		04/30/24 11:30	1		04/30/24 11:30	FIELD	Field*
Temperature, Field Measured	15.1	°C		04/30/24 11:30	1		04/30/24 11:30	FIELD	Field*
Turbidity, Field Measured	35.8	NTU		04/30/24 11:30	1	0.00	04/30/24 11:30	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	650	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	870	mg/L	B2	05/06/24 06:57	1	26	05/06/24 09:12	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/02/24 09:22	5	3.0	05/03/24 13:21	TJJ	EPA 6020A
Arsenic	5.3	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:21	TJJ	EPA 6020A
Barium	90	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:21	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:21	TJJ	EPA 6020A
Boron	87	ug/L		05/02/24 09:22	5	10	05/07/24 10:31	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:21	TJJ	EPA 6020A
Calcium	170	mg/L		05/02/24 09:22	5	0.20	05/03/24 13:21	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/02/24 09:22	5	4.0	05/03/24 13:21	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/02/24 09:22	5	2.0	05/03/24 13:21	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:21	TJJ	EPA 6020A
Magnesium	73	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:21	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/02/24 09:22	5	0.20	05/03/24 13:21	TJJ	EPA 6020A
Molybdenum	3.4	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:21	TJJ	EPA 6020A
Potassium	0.49	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:21	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:21	TJJ	EPA 6020A
Sodium	22	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:21	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HD05170-03
Name: AW-01
Matrix: Ground Water - Grab

Sampled: 04/30/24 11:30
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:21	TJJ	EPA 6020A
Lithium	< 20	ug/L		05/02/24 09:22	1	20	05/08/24 12:41	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HD05170-04
Name: AW-01 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 04/30/24 11:30
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	9.6	mg/L		05/10/24 21:33	1	1.0	05/10/24 21:33	JSM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		05/10/24 21:33	1	0.250	05/10/24 21:33	JSM	EPA 300.0 REV 2.1
Sulfate	47	mg/L		05/10/24 21:50	10	10	05/10/24 21:50	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	11.4	Feet		04/30/24 11:30	1		04/30/24 11:30	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		04/30/24 11:30	1		04/30/24 11:30	FIELD	Field*
Oxidation Reduction Potential	-43.0	mV		04/30/24 11:30	1	-500	04/30/24 11:30	FIELD	Field*
pH, Field Measured	7.20	pH Units		04/30/24 11:30	1		04/30/24 11:30	FIELD	Field*
Specific Conductance, Field Measured	1340	umhos/cm		04/30/24 11:30	1		04/30/24 11:30	FIELD	Field*
Temperature, Field Measured	15.1	°C		04/30/24 11:30	1		04/30/24 11:30	FIELD	Field*
Turbidity, Field Measured	35.8	NTU		04/30/24 11:30	1	0.00	04/30/24 11:30	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	700	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	830	mg/L	B2	05/06/24 06:57	1	26	05/06/24 09:12	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/02/24 09:22	5	3.0	05/03/24 13:24	TJJ	EPA 6020A
Arsenic	5.4	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:24	TJJ	EPA 6020A
Barium	90	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:24	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:24	TJJ	EPA 6020A
Boron	84	ug/L		05/02/24 09:22	5	10	05/07/24 10:35	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:24	TJJ	EPA 6020A
Calcium	180	mg/L		05/02/24 09:22	5	0.20	05/03/24 13:24	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/02/24 09:22	5	4.0	05/03/24 13:24	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/02/24 09:22	5	2.0	05/03/24 13:24	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:24	TJJ	EPA 6020A
Magnesium	74	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:24	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/02/24 09:22	5	0.20	05/03/24 13:24	TJJ	EPA 6020A
Molybdenum	3.4	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:24	TJJ	EPA 6020A
Potassium	0.49	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:24	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:24	TJJ	EPA 6020A
Sodium	22	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:24	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HD05170-04

Name: AW-01 DUP

Matrix: Ground Water - Field Duplicate

Sampled: 04/30/24 11:30

Received: 04/30/24 17:43

PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:24	TJJ	EPA 6020A
Lithium	< 20	ug/L		05/02/24 09:22	1	20	05/08/24 12:43	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HD05170-05
Name: AW-05
Matrix: Ground Water - Grab

Sampled: 04/30/24 13:15
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	68	mg/L		05/10/24 22:42	50	50	05/10/24 22:42	JSM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		05/10/24 22:24	1	0.250	05/10/24 22:24	JSM	EPA 300.0 REV 2.1
Sulfate	350	mg/L		05/10/24 22:42	50	50	05/10/24 22:42	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	7.13	Feet		04/30/24 13:15	1		04/30/24 13:15	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		04/30/24 13:15	1		04/30/24 13:15	FIELD	Field*
Oxidation Reduction Potential	-66.0	mV		04/30/24 13:15	1	-500	04/30/24 13:15	FIELD	Field*
pH, Field Measured	7.03	pH Units		04/30/24 13:15	1		04/30/24 13:15	FIELD	Field*
Specific Conductance, Field Measured	1480	umhos/cm		04/30/24 13:15	1		04/30/24 13:15	FIELD	Field*
Temperature, Field Measured	16.1	°C		04/30/24 13:15	1		04/30/24 13:15	FIELD	Field*
Turbidity, Field Measured	509	NTU		04/30/24 13:15	1	0.00	04/30/24 13:15	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	400	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1200	mg/L	B2	05/06/24 06:57	1	26	05/06/24 09:12	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/02/24 09:22	5	3.0	05/03/24 13:40	TJJ	EPA 6020A
Arsenic	3.6	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:40	TJJ	EPA 6020A
Barium	110	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:40	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:40	TJJ	EPA 6020A
Boron	4100	ug/L		05/02/24 09:22	5	10	05/07/24 11:05	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:40	TJJ	EPA 6020A
Calcium	160	mg/L		05/02/24 09:22	5	0.20	05/03/24 13:40	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/02/24 09:22	5	4.0	05/03/24 13:40	TJJ	EPA 6020A
Cobalt	2.8	ug/L		05/02/24 09:22	5	2.0	05/03/24 13:40	TJJ	EPA 6020A
Lead	1.9	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:40	TJJ	EPA 6020A
Magnesium	70	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:40	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/02/24 09:22	5	0.20	05/03/24 13:40	TJJ	EPA 6020A
Molybdenum	1.9	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:40	TJJ	EPA 6020A
Potassium	1.0	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:40	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:40	TJJ	EPA 6020A
Sodium	65	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:40	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HD05170-05
Name: AW-05
Matrix: Ground Water - Grab

Sampled: 04/30/24 13:15
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:40	TJJ	EPA 6020A
Lithium	< 20	ug/L		05/02/24 09:22	1	20	05/08/24 12:44	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HD05170-06
Name: AW-16
Matrix: Ground Water - Grab

Sampled: 04/30/24 16:37
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	45	mg/L		05/10/24 23:16	10	10	05/10/24 23:16	JSM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		05/10/24 22:59	1	0.250	05/10/24 22:59	JSM	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		05/10/24 22:59	1	1.0	05/10/24 22:59	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	24.43	Feet		04/30/24 16:37	1		04/30/24 16:37	FIELD	Field*
Dissolved oxygen, Field	0.12	mg/L		04/30/24 16:37	1		04/30/24 16:37	FIELD	Field*
Oxidation Reduction Potential	-138	mV		04/30/24 16:37	1	-500	04/30/24 16:37	FIELD	Field*
pH, Field Measured	6.50	pH Units		04/30/24 16:37	1		04/30/24 16:37	FIELD	Field*
Specific Conductance, Field Measured	2120	umhos/cm		04/30/24 16:37	1		04/30/24 16:37	FIELD	Field*
Temperature, Field Measured	19.7	°C		04/30/24 16:37	1		04/30/24 16:37	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		04/30/24 16:37	1	0.00	04/30/24 16:37	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	1100	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1300	mg/L	B2	05/06/24 06:57	1	26	05/06/24 09:12	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/02/24 09:22	5	3.0	05/03/24 13:44	TJJ	EPA 6020A
Arsenic	1.2	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:44	TJJ	EPA 6020A
Barium	1200	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:44	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:44	TJJ	EPA 6020A
Boron	440	ug/L		05/02/24 09:22	5	10	05/07/24 11:09	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:44	TJJ	EPA 6020A
Calcium	140	mg/L		05/02/24 09:22	5	0.20	05/03/24 13:44	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/02/24 09:22	5	4.0	05/03/24 13:44	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/02/24 09:22	5	2.0	05/03/24 13:44	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:44	TJJ	EPA 6020A
Magnesium	55	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:44	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/02/24 09:22	5	0.20	05/03/24 13:44	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:44	TJJ	EPA 6020A
Potassium	4.3	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:44	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:44	TJJ	EPA 6020A
Sodium	230	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:44	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HD05170-06
Name: AW-16
Matrix: Ground Water - Grab

Sampled: 04/30/24 16:37
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:44	TJJ	EPA 6020A
Lithium	35	ug/L		05/02/24 09:22	1	20	05/08/24 12:45	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HD05170-07
Name: AW-18
Matrix: Ground Water - Grab

Sampled: 04/30/24 13:55
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	94	mg/L		05/11/24 00:41	10	10	05/11/24 00:41	JSM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		05/10/24 23:33	1	0.250	05/10/24 23:33	JSM	EPA 300.0 REV 2.1
Sulfate	2.6	mg/L		05/10/24 23:33	1	1.0	05/10/24 23:33	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	26.49	Feet		04/30/24 13:55	1		04/30/24 13:55	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		04/30/24 13:55	1		04/30/24 13:55	FIELD	Field*
Oxidation Reduction Potential	-134	mV		04/30/24 13:55	1	-500	04/30/24 13:55	FIELD	Field*
pH, Field Measured	6.66	pH Units		04/30/24 13:55	1		04/30/24 13:55	FIELD	Field*
Specific Conductance, Field Measured	1720	umhos/cm		04/30/24 13:55	1		04/30/24 13:55	FIELD	Field*
Temperature, Field Measured	25.4	°C		04/30/24 13:55	1		04/30/24 13:55	FIELD	Field*
Turbidity, Field Measured	31.3	NTU		04/30/24 13:55	1	0.00	04/30/24 13:55	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	780	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	980	mg/L	B2	05/06/24 06:57	1	26	05/06/24 09:12	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/02/24 09:22	5	3.0	05/03/24 13:48	TJJ	EPA 6020A
Arsenic	3.3	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:48	TJJ	EPA 6020A
Barium	1400	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:48	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:48	TJJ	EPA 6020A
Boron	750	ug/L		05/02/24 09:22	5	10	05/07/24 11:12	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:48	TJJ	EPA 6020A
Calcium	120	mg/L		05/02/24 09:22	5	0.20	05/03/24 13:48	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/02/24 09:22	5	4.0	05/03/24 13:48	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/02/24 09:22	5	2.0	05/03/24 13:48	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:48	TJJ	EPA 6020A
Magnesium	51	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:48	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/02/24 09:22	5	0.20	05/03/24 13:48	TJJ	EPA 6020A
Molybdenum	1.5	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:48	TJJ	EPA 6020A
Potassium	3.3	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:48	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:48	TJJ	EPA 6020A
Sodium	160	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:48	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HD05170-07
Name: AW-18
Matrix: Ground Water - Grab

Sampled: 04/30/24 13:55
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:48	TJJ	EPA 6020A
Lithium	24	ug/L		05/02/24 09:22	1	20	05/08/24 12:46	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HD05170-08
Name: AW-19
Matrix: Ground Water - Grab

Sampled: 04/30/24 12:25
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	73	mg/L		05/11/24 01:16	10	10	05/11/24 01:16	JSM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		05/11/24 00:58	1	0.250	05/11/24 00:58	JSM	EPA 300.0 REV 2.1
Sulfate	55	mg/L		05/11/24 01:16	10	10	05/11/24 01:16	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	13.52	Feet		04/30/24 12:25	1		04/30/24 12:25	FIELD	Field*
Dissolved oxygen, Field	0.94	mg/L		04/30/24 12:25	1		04/30/24 12:25	FIELD	Field*
Oxidation Reduction Potential	-93.0	mV		04/30/24 12:25	1	-500	04/30/24 12:25	FIELD	Field*
pH, Field Measured	6.84	pH Units		04/30/24 12:25	1		04/30/24 12:25	FIELD	Field*
Specific Conductance, Field Measured	1090	umhos/cm		04/30/24 12:25	1		04/30/24 12:25	FIELD	Field*
Temperature, Field Measured	20.3	°C		04/30/24 12:25	1		04/30/24 12:25	FIELD	Field*
Turbidity, Field Measured	20.1	NTU		04/30/24 12:25	1	0.00	04/30/24 12:25	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	460	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	760	mg/L	B2	05/06/24 06:57	1	26	05/06/24 09:12	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/02/24 09:22	5	3.0	05/03/24 13:52	TJJ	EPA 6020A
Arsenic	13	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:52	TJJ	EPA 6020A
Barium	190	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:52	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:52	TJJ	EPA 6020A
Boron	2800	ug/L		05/02/24 09:22	5	10	05/07/24 11:17	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:52	TJJ	EPA 6020A
Calcium	120	mg/L		05/02/24 09:22	5	0.20	05/03/24 13:52	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/02/24 09:22	5	4.0	05/03/24 13:52	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/02/24 09:22	5	2.0	05/03/24 13:52	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:52	TJJ	EPA 6020A
Magnesium	51	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:52	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/02/24 09:22	5	0.20	05/03/24 13:52	TJJ	EPA 6020A
Molybdenum	3.6	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:52	TJJ	EPA 6020A
Potassium	0.78	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:52	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:52	TJJ	EPA 6020A
Sodium	50	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:52	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HD05170-08
Name: AW-19
Matrix: Ground Water - Grab

Sampled: 04/30/24 12:25
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:52	TJJ	EPA 6020A
Lithium	< 20	ug/L		05/02/24 09:22	1	20	05/08/24 12:47	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HD05170-09
Name: AW-21
Matrix: Ground Water - Grab

Sampled: 04/30/24 10:50
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	60	mg/L		05/11/24 01:51	25	25	05/11/24 01:51	JSM	EPA 300.0 REV 2.1
Fluoride	0.279	mg/L		05/11/24 01:34	1	0.250	05/11/24 01:34	JSM	EPA 300.0 REV 2.1
Sulfate	210	mg/L		05/11/24 01:51	25	25	05/11/24 01:51	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	15.68	Feet		04/30/24 10:50	1		04/30/24 10:50	FIELD	Field*
Dissolved oxygen, Field	5.6	mg/L		04/30/24 10:50	1		04/30/24 10:50	FIELD	Field*
Oxidation Reduction Potential	82.0	mV		04/30/24 10:50	1	-500	04/30/24 10:50	FIELD	Field*
pH, Field Measured	7.70	pH Units		04/30/24 10:50	1		04/30/24 10:50	FIELD	Field*
Specific Conductance, Field Measured	618.0	umhos/cm		04/30/24 10:50	1		04/30/24 10:50	FIELD	Field*
Temperature, Field Measured	18.9	°C		04/30/24 10:50	1		04/30/24 10:50	FIELD	Field*
Turbidity, Field Measured	3.80	NTU		04/30/24 10:50	1	0.00	04/30/24 10:50	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	190	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	770	mg/L	B2	05/06/24 06:57	1	26	05/06/24 09:12	LAL2	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/02/24 09:22	5	3.0	05/03/24 13:56	TJJ	EPA 6020A
Arsenic	3.9	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:56	TJJ	EPA 6020A
Barium	79	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:56	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:56	TJJ	EPA 6020A
Boron	9500	ug/L		05/02/24 09:22	5	10	05/07/24 11:20	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:56	TJJ	EPA 6020A
Calcium	100	mg/L		05/02/24 09:22	5	0.20	05/03/24 13:56	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/02/24 09:22	5	4.0	05/03/24 13:56	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/02/24 09:22	5	2.0	05/03/24 13:56	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:56	TJJ	EPA 6020A
Magnesium	32	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:56	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/02/24 09:22	5	0.20	05/03/24 13:56	TJJ	EPA 6020A
Molybdenum	21	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:56	TJJ	EPA 6020A
Potassium	4.5	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:56	TJJ	EPA 6020A
Selenium	2.6	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:56	TJJ	EPA 6020A
Sodium	44	mg/L		05/02/24 09:22	5	0.10	05/03/24 13:56	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HD05170-09
Name: AW-21
Matrix: Ground Water - Grab

Sampled: 04/30/24 10:50
Received: 04/30/24 17:43
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/02/24 09:22	5	1.0	05/03/24 13:56	TJJ	EPA 6020A
Lithium	< 20	ug/L		05/02/24 09:22	1	20	05/08/24 12:49	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HE00275-01
Name: AW-11
Matrix: Ground Water - Grab

Sampled: 05/01/24 14:33
Received: 05/01/24 16:41
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	31	mg/L	Q4	05/13/24 16:42	5	5.0	05/13/24 16:42	JSM	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		05/13/24 15:51	1	1.0	05/13/24 15:51	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	5.31	Feet		05/01/24 14:33	1		05/01/24 14:33	FIELD	Field*
Dissolved oxygen, Field	1.4	mg/L		05/01/24 14:33	1		05/01/24 14:33	FIELD	Field*
Oxidation Reduction Potential	-117	mV		05/01/24 14:33	1	-500	05/01/24 14:33	FIELD	Field*
pH, Field Measured	7.09	pH Units		05/01/24 14:33	1		05/01/24 14:33	FIELD	Field*
Specific Conductance, Field Measured	1649	umhos/cm		05/01/24 14:33	1		05/01/24 14:33	FIELD	Field*
Temperature, Field Measured	16.4	°C		05/01/24 14:33	1		05/01/24 14:33	FIELD	Field*
Turbidity, Field Measured	75.4	NTU		05/01/24 14:33	1	0.00	05/01/24 14:33	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	960	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/14/24 16:56	1	0.250	05/14/24 16:56	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	990	mg/L		05/07/24 09:55	1	26	05/07/24 11:47	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/06/24 09:17	5	3.0	05/06/24 18:12	TJJ	EPA 6020A
Arsenic	7.7	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:12	TJJ	EPA 6020A
Barium	820	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:12	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:12	TJJ	EPA 6020A
Boron	250	ug/L		05/06/24 09:17	5	10	05/07/24 13:31	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:12	TJJ	EPA 6020A
Calcium	160	mg/L		05/06/24 09:17	5	0.20	05/06/24 18:12	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/06/24 09:17	5	4.0	05/06/24 18:12	TJJ	EPA 6020A
Cobalt	2.2	ug/L		05/06/24 09:17	5	2.0	05/06/24 18:12	TJJ	EPA 6020A
Lead	1.6	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:12	TJJ	EPA 6020A
Magnesium	67	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:12	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/06/24 09:17	5	0.20	05/06/24 18:12	TJJ	EPA 6020A
Molybdenum	1.7	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:12	TJJ	EPA 6020A
Potassium	2.7	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:12	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:12	TJJ	EPA 6020A
Sodium	140	mg/L	Q4	05/06/24 09:17	5	0.10	05/06/24 18:12	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HE00275-01

Name: AW-11

Matrix: Ground Water - Grab

Sampled: 05/01/24 14:33

Received: 05/01/24 16:41

PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:12	TJJ	EPA 6020A
Lithium	21	ug/L		05/06/24 09:17	1	20	05/08/24 13:01	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HE00275-02
Name: AW-14
Matrix: Ground Water - Grab

Sampled: 05/01/24 13:20
Received: 05/01/24 16:41
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	28	mg/L		05/13/24 17:16	5	5.0	05/13/24 17:16	JSM	EPA 300.0 REV 2.1
Sulfate	12	mg/L		05/13/24 17:16	5	5.0	05/13/24 17:16	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.3	Feet		05/01/24 13:20	1		05/01/24 13:20	FIELD	Field*
Dissolved oxygen, Field	0.080	mg/L		05/01/24 13:20	1		05/01/24 13:20	FIELD	Field*
Oxidation Reduction Potential	-118	mV		05/01/24 13:20	1	-500	05/01/24 13:20	FIELD	Field*
pH, Field Measured	6.98	pH Units		05/01/24 13:20	1		05/01/24 13:20	FIELD	Field*
Specific Conductance, Field Measured	1714	umhos/cm		05/01/24 13:20	1		05/01/24 13:20	FIELD	Field*
Temperature, Field Measured	15.3	°C		05/01/24 13:20	1		05/01/24 13:20	FIELD	Field*
Turbidity, Field Measured	4.45	NTU		05/01/24 13:20	1	0.00	05/01/24 13:20	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	920	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/14/24 16:57	1	0.250	05/14/24 16:57	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	990	mg/L		05/07/24 09:55	1	26	05/07/24 11:47	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/06/24 09:17	5	3.0	05/06/24 18:31	TJJ	EPA 6020A
Arsenic	2.1	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:31	TJJ	EPA 6020A
Barium	600	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:31	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:31	TJJ	EPA 6020A
Boron	260	ug/L		05/06/24 09:17	5	10	05/07/24 13:35	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:31	TJJ	EPA 6020A
Calcium	170	mg/L		05/06/24 09:17	5	0.20	05/06/24 18:31	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/06/24 09:17	5	4.0	05/06/24 18:31	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/06/24 09:17	5	2.0	05/06/24 18:31	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:31	TJJ	EPA 6020A
Magnesium	65	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:31	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/06/24 09:17	5	0.20	05/06/24 18:31	TJJ	EPA 6020A
Molybdenum	1.7	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:31	TJJ	EPA 6020A
Potassium	3.2	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:31	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:31	TJJ	EPA 6020A
Sodium	130	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:31	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HE00275-02

Name: AW-14

Matrix: Ground Water - Grab

Sampled: 05/01/24 13:20

Received: 05/01/24 16:41

PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:31	TJJ	EPA 6020A
Lithium	< 20	ug/L		05/06/24 09:17	1	20	05/08/24 13:05	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HE00275-03
Name: AW-15
Matrix: Ground Water - Grab

Sampled: 05/01/24 11:10
Received: 05/01/24 16:41
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	33	mg/L		05/13/24 17:50	5	5.0	05/13/24 17:50	JSM	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		05/13/24 17:33	1	1.0	05/13/24 17:33	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	8.19	Feet		05/01/24 11:10	1		05/01/24 11:10	FIELD	Field*
Dissolved oxygen, Field	0.83	mg/L		05/01/24 11:10	1		05/01/24 11:10	FIELD	Field*
Oxidation Reduction Potential	-79.3	mV		05/01/24 11:10	1	-500	05/01/24 11:10	FIELD	Field*
pH, Field Measured	6.82	pH Units		05/01/24 11:10	1		05/01/24 11:10	FIELD	Field*
Specific Conductance, Field Measured	1886	umhos/cm		05/01/24 11:10	1		05/01/24 11:10	FIELD	Field*
Temperature, Field Measured	15.7	°C		05/01/24 11:10	1		05/01/24 11:10	FIELD	Field*
Turbidity, Field Measured	18.3	NTU		05/01/24 11:10	1	0.00	05/01/24 11:10	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	1000	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/14/24 16:58	1	0.250	05/14/24 16:58	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1000	mg/L		05/07/24 09:55	1	26	05/07/24 11:47	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/06/24 09:17	5	3.0	05/06/24 18:35	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:35	TJJ	EPA 6020A
Barium	1700	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:35	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:35	TJJ	EPA 6020A
Boron	360	ug/L		05/06/24 09:17	5	10	05/07/24 13:39	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:35	TJJ	EPA 6020A
Calcium	140	mg/L		05/06/24 09:17	5	0.20	05/06/24 18:35	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/06/24 09:17	5	4.0	05/06/24 18:35	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/06/24 09:17	5	2.0	05/06/24 18:35	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:35	TJJ	EPA 6020A
Magnesium	56	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:35	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/06/24 09:17	5	0.20	05/06/24 18:35	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:35	TJJ	EPA 6020A
Potassium	3.8	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:35	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:35	TJJ	EPA 6020A
Sodium	190	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:35	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HE00275-03
Name: AW-15
Matrix: Ground Water - Grab

Sampled: 05/01/24 11:10
Received: 05/01/24 16:41
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:35	TJJ	EPA 6020A
Lithium	29	ug/L		05/06/24 09:17	1	20	05/08/24 13:06	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HE00275-04
Name: AW-15S
Matrix: Ground Water - Grab

Sampled: 05/01/24 12:10
Received: 05/01/24 16:41
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	28	mg/L		05/13/24 18:25	10	10	05/13/24 18:25	JSM	EPA 300.0 REV 2.1
Sulfate	540	mg/L		05/13/24 19:16	100	100	05/13/24 19:16	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	8.87	Feet		05/01/24 12:10	1		05/01/24 12:10	FIELD	Field*
Dissolved oxygen, Field	0.51	mg/L		05/01/24 12:10	1		05/01/24 12:10	FIELD	Field*
Oxidation Reduction Potential	95.4	mV		05/01/24 12:10	1	-500	05/01/24 12:10	FIELD	Field*
pH, Field Measured	6.85	pH Units		05/01/24 12:10	1		05/01/24 12:10	FIELD	Field*
Specific Conductance, Field Measured	1664	umhos/cm		05/01/24 12:10	1		05/01/24 12:10	FIELD	Field*
Temperature, Field Measured	14.1	°C		05/01/24 12:10	1		05/01/24 12:10	FIELD	Field*
Turbidity, Field Measured	2.96	NTU		05/01/24 12:10	1	0.00	05/01/24 12:10	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	490	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/14/24 16:58	1	0.250	05/14/24 16:58	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1400	mg/L		05/07/24 09:55	1	26	05/07/24 11:47	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/06/24 09:17	5	3.0	05/06/24 18:08	TJJ	EPA 6020A
Arsenic	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:08	TJJ	EPA 6020A
Barium	78	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:08	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:08	TJJ	EPA 6020A
Boron	5500	ug/L		05/06/24 09:17	5	10	05/07/24 13:47	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:08	TJJ	EPA 6020A
Calcium	260	mg/L		05/06/24 09:17	5	0.20	05/06/24 18:08	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/06/24 09:17	5	4.0	05/06/24 18:08	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/06/24 09:17	5	2.0	05/06/24 18:08	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:08	TJJ	EPA 6020A
Magnesium	82	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:08	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/06/24 09:17	5	0.20	05/06/24 18:08	TJJ	EPA 6020A
Molybdenum	2.5	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:08	TJJ	EPA 6020A
Potassium	0.62	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:08	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:08	TJJ	EPA 6020A
Sodium	46	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:08	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HE00275-04
Name: AW-15S
Matrix: Ground Water - Grab

Sampled: 05/01/24 12:10
Received: 05/01/24 16:41
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:08	TJJ	EPA 6020A
Lithium	< 20	ug/L		05/06/24 09:17	1	20	05/08/24 13:07	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HE00275-05
Name: AW-17
Matrix: Ground Water - Grab

Sampled: 05/01/24 15:49
Received: 05/01/24 16:41
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	50	mg/L		05/13/24 19:50	10	10	05/13/24 19:50	JSM	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		05/13/24 19:33	1	1.0	05/13/24 19:33	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	25.42	Feet		05/01/24 15:49	1		05/01/24 15:49	FIELD	Field*
Dissolved oxygen, Field	0.050	mg/L		05/01/24 15:49	1		05/01/24 15:49	FIELD	Field*
Oxidation Reduction Potential	-125	mV		05/01/24 15:49	1	-500	05/01/24 15:49	FIELD	Field*
pH, Field Measured	6.84	pH Units		05/01/24 15:49	1		05/01/24 15:49	FIELD	Field*
Specific Conductance, Field Measured	1721	umhos/cm		05/01/24 15:49	1		05/01/24 15:49	FIELD	Field*
Temperature, Field Measured	18.1	°C		05/01/24 15:49	1		05/01/24 15:49	FIELD	Field*
Turbidity, Field Measured	47.4	NTU		05/01/24 15:49	1	0.00	05/01/24 15:49	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	880	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/07/24 11:08	1	10	05/07/24 11:08	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/14/24 16:59	1	0.250	05/14/24 16:59	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	910	mg/L		05/07/24 09:55	1	26	05/07/24 11:47	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/06/24 09:17	5	3.0	05/06/24 18:47	TJJ	EPA 6020A
Arsenic	5.3	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:47	TJJ	EPA 6020A
Barium	1300	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:47	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:47	TJJ	EPA 6020A
Boron	410	ug/L		05/06/24 09:17	5	10	05/07/24 13:43	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:47	TJJ	EPA 6020A
Calcium	110	mg/L		05/06/24 09:17	5	0.20	05/06/24 18:47	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/06/24 09:17	5	4.0	05/06/24 18:47	TJJ	EPA 6020A
Cobalt	2.1	ug/L		05/06/24 09:17	5	2.0	05/06/24 18:47	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:47	TJJ	EPA 6020A
Magnesium	43	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:47	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/06/24 09:17	5	0.20	05/06/24 18:47	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:47	TJJ	EPA 6020A
Potassium	4.6	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:47	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:47	TJJ	EPA 6020A
Sodium	200	mg/L		05/06/24 09:17	5	0.10	05/06/24 18:47	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HE00275-05
Name: AW-17
Matrix: Ground Water - Grab

Sampled: 05/01/24 15:49
Received: 05/01/24 16:41
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/06/24 09:17	5	1.0	05/06/24 18:47	TJJ	EPA 6020A
Lithium	35	ug/L		05/06/24 09:17	1	20	05/08/24 13:11	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HE00566-01
Name: AW-06
Matrix: Ground Water - Grab

Sampled: 05/02/24 11:34
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	31	mg/L	Q4	05/13/24 20:58	10	10	05/13/24 20:58	JSM	EPA 300.0 REV 2.1
Fluoride	0.307	mg/L		05/13/24 20:07	1	0.250	05/13/24 20:07	JSM	EPA 300.0 REV 2.1
Sulfate	26	mg/L	Q4	05/13/24 20:58	10	10	05/13/24 20:58	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	26.28	Feet		05/02/24 11:34	1		05/02/24 11:34	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		05/02/24 11:34	1		05/02/24 11:34	FIELD	Field*
Oxidation Reduction Potential	-115	mV		05/02/24 11:34	1	-500	05/02/24 11:34	FIELD	Field*
pH, Field Measured	7.05	pH Units		05/02/24 11:34	1		05/02/24 11:34	FIELD	Field*
Specific Conductance, Field Measured	1150	umhos/cm		05/02/24 11:34	1		05/02/24 11:34	FIELD	Field*
Temperature, Field Measured	16.2	°C		05/02/24 11:34	1		05/02/24 11:34	FIELD	Field*
Turbidity, Field Measured	109	NTU		05/02/24 11:34	1	0.00	05/02/24 11:34	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	510	mg/L		05/14/24 11:16	1	10	05/14/24 11:16	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/14/24 11:16	1	10	05/14/24 11:16	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	580	mg/L	B2	05/08/24 12:25	1	17	05/09/24 10:39	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/24 08:57	5	3.0	05/08/24 15:46	TJJ	EPA 6020A
Arsenic	5.7	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:46	TJJ	EPA 6020A
Barium	200	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:23	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:46	TJJ	EPA 6020A
Boron	99	ug/L		05/08/24 08:57	5	10	05/09/24 10:23	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:46	TJJ	EPA 6020A
Calcium	120	mg/L		05/08/24 08:57	5	0.20	05/08/24 15:46	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/08/24 08:57	5	4.0	05/08/24 15:46	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/24 08:57	5	2.0	05/08/24 15:46	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:23	TJJ	EPA 6020A
Magnesium	46	mg/L		05/08/24 08:57	5	0.10	05/08/24 15:46	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/08/24 08:57	5	0.20	05/09/24 10:23	TJJ	EPA 6020A
Molybdenum	6.2	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:46	TJJ	EPA 6020A
Potassium	0.72	mg/L		05/08/24 08:57	5	0.10	05/08/24 15:46	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:46	TJJ	EPA 6020A
Sodium	44	mg/L		05/08/24 08:57	5	0.10	05/08/24 15:46	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HE00566-01
Name: AW-06
Matrix: Ground Water - Grab

Sampled: 05/02/24 11:34
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:23	TJJ	EPA 6020A
Lithium	< 20	ug/L		05/08/24 08:57	1	20	05/08/24 13:18	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HE00566-02
Name: AW-06 DUP
Matrix: Ground Water - Grab

Sampled: 05/02/24 11:34
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	35	mg/L		05/13/24 21:32	10	10	05/13/24 21:32	JSM	EPA 300.0 REV 2.1
Fluoride	0.325	mg/L		05/13/24 21:15	1	0.250	05/13/24 21:15	JSM	EPA 300.0 REV 2.1
Sulfate	20	mg/L		05/13/24 21:32	10	10	05/13/24 21:32	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	26.28	Feet		05/02/24 11:34	1		05/02/24 11:34	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		05/02/24 11:34	1		05/02/24 11:34	FIELD	Field*
Oxidation Reduction Potential	-115	mV		05/02/24 11:34	1	-500	05/02/24 11:34	FIELD	Field*
pH, Field Measured	7.05	pH Units		05/02/24 11:34	1		05/02/24 11:34	FIELD	Field*
Specific Conductance, Field Measured	1150	umhos/cm		05/02/24 11:34	1		05/02/24 11:34	FIELD	Field*
Temperature, Field Measured	16.2	°C		05/02/24 11:34	1		05/02/24 11:34	FIELD	Field*
Turbidity, Field Measured	109	NTU		05/02/24 11:34	1	0.00	05/02/24 11:34	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	510	mg/L		05/14/24 11:16	1	10	05/14/24 11:16	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/14/24 11:16	1	10	05/14/24 11:16	TMS	SM 2320B 1997*
Solids - total dissolved solids (TDS)	620	mg/L	B2	05/08/24 12:25	1	17	05/09/24 10:39	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/24 08:57	5	3.0	05/08/24 15:50	TJJ	EPA 6020A
Arsenic	5.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:50	TJJ	EPA 6020A
Barium	200	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:27	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:50	TJJ	EPA 6020A
Boron	94	ug/L		05/08/24 08:57	5	10	05/09/24 10:27	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:50	TJJ	EPA 6020A
Calcium	120	mg/L		05/08/24 08:57	5	0.20	05/08/24 15:50	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/08/24 08:57	5	4.0	05/08/24 15:50	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/24 08:57	5	2.0	05/08/24 15:50	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:27	TJJ	EPA 6020A
Magnesium	47	mg/L		05/08/24 08:57	5	0.10	05/08/24 15:50	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/08/24 08:57	5	0.20	05/09/24 10:27	TJJ	EPA 6020A
Molybdenum	6.5	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:50	TJJ	EPA 6020A
Potassium	0.74	mg/L		05/08/24 08:57	5	0.10	05/08/24 15:50	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:50	TJJ	EPA 6020A
Sodium	44	mg/L		05/08/24 08:57	5	0.10	05/08/24 15:50	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HE00566-02

Name: AW-06 DUP

Matrix: Ground Water - Grab

Sampled: 05/02/24 11:34

Received: 05/02/24 17:22

PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:27	TJJ	EPA 6020A
Lithium	< 20	ug/L		05/08/24 08:57	1	20	05/08/24 13:22	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HE00566-03
Name: AW-08
Matrix: Ground Water - Grab

Sampled: 05/02/24 16:18
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	15	mg/L	Q4	05/13/24 23:15	5	5.0	05/13/24 23:15	JSM	EPA 300.0 REV 2.1
Sulfate	1.2	mg/L		05/13/24 21:50	1	1.0	05/13/24 21:50	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	20.86	Feet		05/02/24 16:18	1		05/02/24 16:18	FIELD	Field*
Dissolved oxygen, Field	0.41	mg/L		05/02/24 16:18	1		05/02/24 16:18	FIELD	Field*
Oxidation Reduction Potential	-153	mV		05/02/24 16:18	1	-500	05/02/24 16:18	FIELD	Field*
pH, Field Measured	6.86	pH Units		05/02/24 16:18	1		05/02/24 16:18	FIELD	Field*
Specific Conductance, Field Measured	1610	umhos/cm		05/02/24 16:18	1		05/02/24 16:18	FIELD	Field*
Temperature, Field Measured	21.6	°C		05/02/24 16:18	1		05/02/24 16:18	FIELD	Field*
Turbidity, Field Measured	11.2	NTU		05/02/24 16:18	1	0.00	05/02/24 16:18	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	710	mg/L		05/14/24 11:16	1	10	05/14/24 11:16	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/14/24 11:16	1	10	05/14/24 11:16	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/14/24 17:00	1	0.250	05/14/24 17:00	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	610	mg/L	B2	05/08/24 12:25	1	17	05/09/24 10:39	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/24 08:57	5	3.0	05/08/24 15:54	TJJ	EPA 6020A
Arsenic	13	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:54	TJJ	EPA 6020A
Barium	410	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:40	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:54	TJJ	EPA 6020A
Boron	130	ug/L		05/08/24 08:57	5	10	05/09/24 10:40	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:54	TJJ	EPA 6020A
Calcium	140	mg/L		05/08/24 08:57	5	0.20	05/08/24 15:54	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/08/24 08:57	5	4.0	05/08/24 15:54	TJJ	EPA 6020A
Cobalt	< 2.0	ug/L		05/08/24 08:57	5	2.0	05/08/24 15:54	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:40	TJJ	EPA 6020A
Magnesium	54	mg/L		05/08/24 08:57	5	0.10	05/08/24 15:54	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/08/24 08:57	5	0.20	05/09/24 10:40	TJJ	EPA 6020A
Molybdenum	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:54	TJJ	EPA 6020A
Potassium	1.9	mg/L		05/08/24 08:57	5	0.10	05/08/24 15:54	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:54	TJJ	EPA 6020A
Sodium	71	mg/L		05/08/24 08:57	5	0.10	05/08/24 15:54	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HE00566-03
Name: AW-08
Matrix: Ground Water - Grab

Sampled: 05/02/24 16:18
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:40	TJJ	EPA 6020A
Lithium	< 20	ug/L		05/08/24 08:57	1	20	05/08/24 13:25	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HE00566-04
Name: AW-09
Matrix: Ground Water - Grab

Sampled: 05/02/24 12:48
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	28	mg/L		05/13/24 23:49	5	5.0	05/13/24 23:49	JSM	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		05/13/24 23:32	1	1.0	05/13/24 23:32	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	25.66	Feet		05/02/24 12:48	1		05/02/24 12:48	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		05/02/24 12:48	1		05/02/24 12:48	FIELD	Field*
Oxidation Reduction Potential	-139	mV		05/02/24 12:48	1	-500	05/02/24 12:48	FIELD	Field*
pH, Field Measured	6.92	pH Units		05/02/24 12:48	1		05/02/24 12:48	FIELD	Field*
Specific Conductance, Field Measured	1680	umhos/cm		05/02/24 12:48	1		05/02/24 12:48	FIELD	Field*
Temperature, Field Measured	17.9	°C		05/02/24 12:48	1		05/02/24 12:48	FIELD	Field*
Turbidity, Field Measured	27.8	NTU		05/02/24 12:48	1	0.00	05/02/24 12:48	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	760	mg/L		05/14/24 11:16	1	10	05/14/24 11:16	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		05/14/24 11:16	1	10	05/14/24 11:16	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/14/24 17:01	1	0.250	05/14/24 17:01	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	770	mg/L	B2	05/08/24 12:25	1	17	05/09/24 10:39	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/24 08:57	5	3.0	05/08/24 15:58	TJJ	EPA 6020A
Arsenic	26	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:58	TJJ	EPA 6020A
Barium	470	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:44	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:58	TJJ	EPA 6020A
Boron	270	ug/L		05/08/24 08:57	5	10	05/09/24 10:44	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:58	TJJ	EPA 6020A
Calcium	120	mg/L		05/08/24 08:57	5	0.20	05/08/24 15:58	TJJ	EPA 6020A
Chromium	< 4.0	ug/L		05/08/24 08:57	5	4.0	05/08/24 15:58	TJJ	EPA 6020A
Cobalt	2.1	ug/L		05/08/24 08:57	5	2.0	05/08/24 15:58	TJJ	EPA 6020A
Lead	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:44	TJJ	EPA 6020A
Magnesium	48	mg/L		05/08/24 08:57	5	0.10	05/08/24 15:58	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/08/24 08:57	5	0.20	05/09/24 10:44	TJJ	EPA 6020A
Molybdenum	15	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:58	TJJ	EPA 6020A
Potassium	2.2	mg/L		05/08/24 08:57	5	0.10	05/08/24 15:58	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 15:58	TJJ	EPA 6020A
Sodium	130	mg/L		05/08/24 08:57	5	0.10	05/08/24 15:58	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HE00566-04

Name: AW-09

Matrix: Ground Water - Grab

Sampled: 05/02/24 12:48

Received: 05/02/24 17:22

PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:44	TJJ	EPA 6020A
Lithium	< 20	ug/L		05/08/24 08:57	1	20	05/08/24 13:27	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HE00566-05
Name: AW-10
Matrix: Ground Water - Grab

Sampled: 05/02/24 14:55
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	89	mg/L		05/14/24 00:23	10	10	05/14/24 00:23	JSM	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		05/14/24 00:06	1	1.0	05/14/24 00:06	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	1.41	Feet		05/02/24 14:55	1		05/02/24 14:55	FIELD	Field*
Dissolved oxygen, Field	0.40	mg/L		05/02/24 14:55	1		05/02/24 14:55	FIELD	Field*
Oxidation Reduction Potential	-140	mV		05/02/24 14:55	1	-500	05/02/24 14:55	FIELD	Field*
pH, Field Measured	6.99	pH Units		05/02/24 14:55	1		05/02/24 14:55	FIELD	Field*
Specific Conductance, Field Measured	2410	umhos/cm		05/02/24 14:55	1		05/02/24 14:55	FIELD	Field*
Temperature, Field Measured	18.7	°C		05/02/24 14:55	1		05/02/24 14:55	FIELD	Field*
Turbidity, Field Measured	343	NTU		05/02/24 14:55	1	0.00	05/02/24 14:55	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	1000	mg/L		05/14/24 11:16	1	10	05/14/24 11:16	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/14/24 11:16	1	10	05/14/24 11:16	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/14/24 17:02	1	0.250	05/14/24 17:02	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1200	mg/L	B2	05/08/24 12:25	1	17	05/09/24 10:39	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/24 08:57	5	3.0	05/09/24 10:48	TJJ	EPA 6020A
Arsenic	9.7	ug/L		05/08/24 08:57	5	1.0	05/08/24 16:09	TJJ	EPA 6020A
Barium	900	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:48	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 16:09	TJJ	EPA 6020A
Boron	440	ug/L		05/08/24 08:57	5	10	05/09/24 10:48	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 16:09	TJJ	EPA 6020A
Calcium	130	mg/L		05/08/24 08:57	5	0.20	05/08/24 16:09	TJJ	EPA 6020A
Chromium	14	ug/L		05/08/24 08:57	5	4.0	05/08/24 16:09	TJJ	EPA 6020A
Cobalt	9.6	ug/L		05/08/24 08:57	5	2.0	05/08/24 16:09	TJJ	EPA 6020A
Lead	6.3	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:48	TJJ	EPA 6020A
Magnesium	65	mg/L		05/08/24 08:57	5	0.10	05/08/24 16:09	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/08/24 08:57	5	0.20	05/09/24 10:48	TJJ	EPA 6020A
Molybdenum	1.8	ug/L		05/08/24 08:57	5	1.0	05/08/24 16:09	TJJ	EPA 6020A
Potassium	5.1	mg/L		05/08/24 08:57	5	0.10	05/08/24 16:09	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 16:09	TJJ	EPA 6020A
Sodium	270	mg/L		05/08/24 08:57	5	0.10	05/08/24 16:09	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HE00566-05
Name: AW-10
Matrix: Ground Water - Grab

Sampled: 05/02/24 14:55
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:48	TJJ	EPA 6020A
Lithium	53	ug/L		05/08/24 08:57	1	20	05/08/24 13:28	LAM	EPA 6010B

ANALYTICAL RESULTS

Sample: HE00566-06
Name: AW-10 DUP
Matrix: Ground Water - Grab

Sampled: 05/02/24 14:55
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	89	mg/L		05/14/24 00:57	10	10	05/14/24 00:57	JSM	EPA 300.0 REV 2.1
Sulfate	< 1.0	mg/L		05/14/24 00:40	1	1.0	05/14/24 00:40	JSM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	1.41	Feet		05/02/24 14:55	1		05/02/24 14:55	FIELD	Field*
Dissolved oxygen, Field	0.40	mg/L		05/02/24 14:55	1		05/02/24 14:55	FIELD	Field*
Oxidation Reduction Potential	-140	mV		05/02/24 14:55	1	-500	05/02/24 14:55	FIELD	Field*
pH, Field Measured	6.99	pH Units		05/02/24 14:55	1		05/02/24 14:55	FIELD	Field*
Specific Conductance, Field Measured	2410	umhos/cm		05/02/24 14:55	1		05/02/24 14:55	FIELD	Field*
Temperature, Field Measured	18.7	°C		05/02/24 14:55	1		05/02/24 14:55	FIELD	Field*
Turbidity, Field Measured	343	NTU		05/02/24 14:55	1	0.00	05/02/24 14:55	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	1000	mg/L		05/14/24 11:16	1	10	05/14/24 11:16	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/14/24 11:16	1	10	05/14/24 11:16	TMS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/14/24 17:03	1	0.250	05/14/24 17:03	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1200	mg/L	B2	05/08/24 12:25	1	17	05/09/24 10:39	MKH	SM 2540C
Total Metals - PIA									
Antimony	< 3.0	ug/L		05/08/24 08:57	5	3.0	05/09/24 10:52	TJJ	EPA 6020A
Arsenic	10	ug/L		05/08/24 08:57	5	1.0	05/08/24 16:13	TJJ	EPA 6020A
Barium	870	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:52	TJJ	EPA 6020A
Beryllium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 16:13	TJJ	EPA 6020A
Boron	410	ug/L		05/08/24 08:57	5	10	05/09/24 10:52	TJJ	EPA 6020A
Cadmium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 16:13	TJJ	EPA 6020A
Calcium	130	mg/L		05/08/24 08:57	5	0.20	05/08/24 16:13	TJJ	EPA 6020A
Chromium	19	ug/L		05/08/24 08:57	5	4.0	05/08/24 16:13	TJJ	EPA 6020A
Cobalt	12	ug/L		05/08/24 08:57	5	2.0	05/08/24 16:13	TJJ	EPA 6020A
Lead	7.7	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:52	TJJ	EPA 6020A
Magnesium	67	mg/L		05/08/24 08:57	5	0.10	05/08/24 16:13	TJJ	EPA 6020A
Mercury	< 0.20	ug/L		05/08/24 08:57	5	0.20	05/09/24 10:52	TJJ	EPA 6020A
Molybdenum	1.8	ug/L		05/08/24 08:57	5	1.0	05/08/24 16:13	TJJ	EPA 6020A
Potassium	5.3	mg/L		05/08/24 08:57	5	0.10	05/08/24 16:13	TJJ	EPA 6020A
Selenium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/08/24 16:13	TJJ	EPA 6020A
Sodium	270	mg/L		05/08/24 08:57	5	0.10	05/08/24 16:13	TJJ	EPA 6020A

ANALYTICAL RESULTS

Sample: HE00566-06
Name: AW-10 DUP
Matrix: Ground Water - Grab

Sampled: 05/02/24 14:55
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Thallium	< 1.0	ug/L		05/08/24 08:57	5	1.0	05/09/24 10:52	TJJ	EPA 6020A
Lithium	56	ug/L		05/08/24 08:57	1	20	05/08/24 13:30	LAM	EPA 6010B

Sample: HE00566-08
Name: SG-01
Matrix: Ground Water

Sampled: 04/29/24 12:41
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Field - PIA

Depth, From Measuring Point	443	Feet		04/29/24 12:41	1		04/29/24 12:41	DAB	Field*
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Sample: HE00566-09
Name: XPW01A
Matrix: Ground Water

Sampled: 04/29/24 11:01
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Field - PIA

Depth, From Measuring Point	10.29	Feet		04/29/24 11:01	1		04/29/24 11:01	DAB	Field*
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Sample: HE00566-10
Name: XPW02
Matrix: Ground Water

Sampled: 04/29/24 11:09
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Field - PIA

Depth, From Measuring Point	18.45	Feet		04/29/24 11:09	1		04/29/24 11:09	DAB	Field*
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Sample: HE00566-11
Name: XPW03
Matrix: Ground Water

Sampled: 04/29/24 12:53
Received: 05/02/24 17:22
PO #: 2450166

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
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Field - PIA

Depth, From Measuring Point	15.86	Feet		04/29/24 12:53	1		04/29/24 12:53	DAB	Field*
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QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B431970 - SW 3015 - EPA 6010B</u>									
Blank (B431970-BLK1)				Prepared: 05/02/24 Analyzed: 05/08/24					
Lithium	< 20	ug/L							
LCS (B431970-BS1)				Prepared: 05/02/24 Analyzed: 05/08/24					
Lithium	560	ug/L		555.6		101	80-120		
Matrix Spike (B431970-MS1)				Prepared: 05/02/24 Analyzed: 05/08/24					
Lithium	574	ug/L		555.6	27.5	98	75-125		
Matrix Spike Dup (B431970-MSD1)				Prepared: 05/02/24 Analyzed: 05/08/24					
Lithium	565	ug/L		555.6	27.5	97	75-125	1	20
<u>Batch B431970 - SW 3015 - EPA 6020A</u>									
Blank (B431970-BLK1)				Prepared: 05/02/24 Analyzed: 05/03/24					
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	0.146	mg/L	B						
Thallium	< 1.0	ug/L							
LCS (B431970-BS1)				Prepared: 05/02/24 Analyzed: 05/03/24					
Antimony	563	ug/L		555.6		101	80-120		
Arsenic	544	ug/L		555.6		98	80-120		
Barium	553	ug/L		555.6		100	80-120		
Beryllium	463	ug/L		555.6		83	80-120		
Boron	510	ug/L		555.6		92	80-120		
Cadmium	545	ug/L		555.6		98	80-120		
Calcium	6.05	mg/L		5.556		109	80-120		
Chromium	548	ug/L		555.6		99	80-120		
Cobalt	541	ug/L		555.6		97	80-120		
Lead	550	ug/L		555.6		99	80-120		
Magnesium	6.17	mg/L		5.556		111	80-120		
Mercury	56.5	ug/L		55.56		102	80-120		
Molybdenum	524	ug/L		555.6		94	80-120		
Potassium	5.78	mg/L		5.556		104	80-120		
Selenium	545	ug/L		555.6		98	80-120		
Sodium	6.19	mg/L		5.556		111	80-120		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B431970-BS1)				Prepared: 05/02/24 Analyzed: 05/03/24					
Thallium	516	ug/L		555.6		93	80-120		
Matrix Spike (B431970-MS1)				Sample: HD05170-01		Prepared: 05/02/24 Analyzed: 05/03/24			
Antimony	562	ug/L		555.6	ND	101	75-125		
Arsenic	546	ug/L		555.6	1.25	98	75-125		
Barium	1380	ug/L		555.6	834	97	75-125		
Beryllium	457	ug/L		555.6	ND	82	75-125		
Boron	804	ug/L		555.6	301	90	75-125		
Cadmium	546	ug/L		555.6	ND	98	75-125		
Calcium	107	mg/L		5.556	102	98	75-125		
Chromium	545	ug/L		555.6	ND	98	75-125		
Cobalt	538	ug/L		555.6	1.02	97	75-125		
Lead	544	ug/L		555.6	0.450	98	75-125		
Magnesium	48.5	mg/L		5.556	42.8	103	75-125		
Mercury	59.4	ug/L		55.56	ND	107	75-125		
Molybdenum	533	ug/L		555.6	ND	96	75-125		
Potassium	9.46	mg/L		5.556	3.71	103	75-125		
Selenium	555	ug/L		555.6	ND	100	75-125		
Sodium	175	mg/L		5.556	169	107	75-125		
Thallium	520	ug/L		555.6	ND	94	75-125		
Matrix Spike Dup (B431970-MSD1)				Sample: HD05170-01		Prepared: 05/02/24 Analyzed: 05/03/24			
Antimony	566	ug/L		555.6	ND	102	75-125	0.9	20
Arsenic	556	ug/L		555.6	1.25	100	75-125	2	20
Barium	1380	ug/L		555.6	834	99	75-125	0.5	20
Beryllium	459	ug/L		555.6	ND	83	75-125	0.3	20
Boron	811	ug/L		555.6	301	92	75-125	0.8	20
Cadmium	555	ug/L		555.6	ND	100	75-125	2	20
Calcium	107	mg/L		5.556	102	93	75-125	0.3	20
Chromium	557	ug/L		555.6	ND	100	75-125	2	20
Cobalt	545	ug/L		555.6	1.02	98	75-125	1	20
Lead	553	ug/L		555.6	0.450	99	75-125	2	20
Magnesium	48.5	mg/L		5.556	42.8	103	75-125	0.06	20
Mercury	60.2	ug/L		55.56	ND	108	75-125	1	20
Molybdenum	549	ug/L		555.6	ND	99	75-125	3	20
Potassium	9.47	mg/L		5.556	3.71	104	75-125	0.2	20
Selenium	567	ug/L		555.6	ND	102	75-125	2	20
Sodium	175	mg/L		5.556	169	104	75-125	0.1	20
Thallium	529	ug/L		555.6	ND	95	75-125	2	20
<u>Batch B432188 - No Prep - SM 2540C</u>									
Blank (B432188-BLK1)				Prepared & Analyzed: 05/06/24					
Solids - total dissolved solids (TDS)	40.0	mg/L							
LCS (B432188-BS1)				Prepared & Analyzed: 05/06/24					
Solids - total dissolved solids (TDS)	1020	mg/L		1000		102	84.9-109		
Duplicate (B432188-DUP1)				Sample: HD05170-01		Prepared & Analyzed: 05/06/24			
Solids - total dissolved solids (TDS)	940	mg/L			900			4	5
<u>Batch B432206 - SW 3015 - EPA 6010B</u>									

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Blank (B432206-BLK1)				Prepared: 05/06/24 Analyzed: 05/08/24					
Lithium	< 20	ug/L							
LCS (B432206-BS1)				Prepared: 05/06/24 Analyzed: 05/08/24					
Lithium	546	ug/L		555.6		98	80-120		
Matrix Spike (B432206-MS1)				Prepared: 05/06/24 Analyzed: 05/08/24					
Lithium	569	ug/L		555.6	21.2	99	75-125		
Matrix Spike Dup (B432206-MSD1)				Prepared: 05/06/24 Analyzed: 05/08/24					
Lithium	568	ug/L		555.6	21.2	98	75-125	0.1	20
<u>Batch B432206 - SW 3015 - EPA 6020A</u>									
Blank (B432206-BLK1)				Prepared & Analyzed: 05/06/24					
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							
LCS (B432206-BS1)				Prepared & Analyzed: 05/06/24					
Antimony	539	ug/L		555.6		97	80-120		
Arsenic	525	ug/L		555.6		95	80-120		
Barium	539	ug/L		555.6		97	80-120		
Beryllium	571	ug/L		555.6		103	80-120		
Boron	563	ug/L		555.6		101	80-120		
Cadmium	553	ug/L		555.6		99	80-120		
Calcium	6.17	mg/L		5.556		111	80-120		
Chromium	561	ug/L		555.6		101	80-120		
Cobalt	543	ug/L		555.6		98	80-120		
Lead	580	ug/L		555.6		104	80-120		
Magnesium	6.35	mg/L		5.556		114	80-120		
Mercury	57.0	ug/L		55.56		103	80-120		
Molybdenum	532	ug/L		555.6		96	80-120		
Potassium	5.97	mg/L		5.556		107	80-120		
Selenium	545	ug/L		555.6		98	80-120		
Sodium	5.91	mg/L		5.556		106	80-120		
Thallium	572	ug/L		555.6		103	80-120		
Matrix Spike (B432206-MS1)				Prepared & Analyzed: 05/06/24					
Antimony	527	ug/L		555.6	ND	95	75-125		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B432206-MS1)				Sample: HE00275-01		Prepared & Analyzed: 05/06/24			
Arsenic	531	ug/L	Q4	555.6	7.67	94	75-125		
Barium	1360	ug/L		555.6	824	96	75-125		
Beryllium	561	ug/L		555.6	ND	101	75-125		
Boron	775	ug/L		555.6	246	95	75-125		
Cadmium	548	ug/L		555.6	ND	99	75-125		
Calcium	160	mg/L		5.556	155	77	75-125		
Chromium	554	ug/L		555.6	ND	100	75-125		
Cobalt	541	ug/L		555.6	2.23	97	75-125		
Lead	565	ug/L		555.6	1.59	101	75-125		
Magnesium	72.0	mg/L		5.556	67.4	84	75-125		
Mercury	58.3	ug/L		55.56	ND	105	75-125		
Molybdenum	552	ug/L		555.6	1.68	99	75-125		
Potassium	8.53	mg/L		5.556	2.74	104	75-125		
Selenium	539	ug/L		555.6	ND	97	75-125		
Sodium	143	mg/L		5.556	140	64	75-125		
Thallium	559	ug/L		555.6	ND	101	75-125		
Matrix Spike Dup (B432206-MSD1)				Sample: HE00275-01		Prepared & Analyzed: 05/06/24			
Antimony	528	ug/L	Q4	555.6	ND	95	75-125	0.3	20
Arsenic	530	ug/L		555.6	7.67	94	75-125	0.05	20
Barium	1350	ug/L		555.6	824	95	75-125	0.4	20
Beryllium	559	ug/L		555.6	ND	101	75-125	0.5	20
Boron	830	ug/L		555.6	246	105	75-125	7	20
Cadmium	547	ug/L		555.6	ND	98	75-125	0.1	20
Calcium	159	mg/L		5.556	155	76	75-125	0.04	20
Chromium	557	ug/L		555.6	ND	100	75-125	0.6	20
Cobalt	539	ug/L		555.6	2.23	97	75-125	0.3	20
Lead	564	ug/L		555.6	1.59	101	75-125	0.3	20
Magnesium	72.2	mg/L		5.556	67.4	87	75-125	0.2	20
Mercury	58.7	ug/L		55.56	ND	106	75-125	0.7	20
Molybdenum	544	ug/L		555.6	1.68	98	75-125	1	20
Potassium	8.66	mg/L		5.556	2.74	107	75-125	2	20
Selenium	540	ug/L		555.6	ND	97	75-125	0.1	20
Sodium	143	mg/L		5.556	140	52	75-125	0.5	20
Thallium	554	ug/L	555.6	ND	100	75-125	1	20	
Batch B432344 - No Prep - SM 2540C									
Blank (B432344-BLK1)				Prepared & Analyzed: 05/07/24					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B432344-BS1)				Prepared & Analyzed: 05/07/24					
Solids - total dissolved solids (TDS)	963	mg/L	1000		96	84.9-109			
Duplicate (B432344-DUP1)				Sample: HE00275-01		Prepared & Analyzed: 05/07/24			
Solids - total dissolved solids (TDS)	985	mg/L	990		0.5		5		
Duplicate (B432344-DUP2)				Sample: HE00275-05		Prepared & Analyzed: 05/07/24			
Solids - total dissolved solids (TDS)	925	mg/L	910		2		5		
Batch B432399 - No Prep - SM 2320B 1997									
Duplicate (B432399-DUP3)				Sample: HD05170-01		Prepared & Analyzed: 05/07/24			

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Duplicate (B432399-DUP3)									
	Sample: HD05170-01			Prepared & Analyzed: 05/07/24					
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO ₃	825	mg/L			825			0	10
Duplicate (B432399-DUP4)									
	Sample: HE00275-01			Prepared & Analyzed: 05/07/24					
Alkalinity - bicarbonate as CaCO ₃	975	mg/L			962			1	10
Alkalinity - carbonate as CaCO ₃	< 10	mg/L			ND				10
<u>Batch B432465 - SW 3015 - EPA 6010B</u>									
Blank (B432465-BLK1)									
				Prepared & Analyzed: 05/08/24					
Lithium	< 20	ug/L							
LCS (B432465-BS1)									
				Prepared & Analyzed: 05/08/24					
Lithium	604	ug/L		555.6		109	80-120		
Matrix Spike (B432465-MS1)									
	Sample: HE00566-01			Prepared & Analyzed: 05/08/24					
Lithium	585	ug/L		555.6	11.9	103	75-125		
Matrix Spike Dup (B432465-MSD1)									
	Sample: HE00566-01			Prepared & Analyzed: 05/08/24					
Lithium	592	ug/L		555.6	11.9	104	75-125	1	20
<u>Batch B432465 - SW 3015 - EPA 6020A</u>									
Blank (B432465-BLK1)									
				Prepared & Analyzed: 05/08/24					
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							
LCS (B432465-BS1)									
				Prepared & Analyzed: 05/08/24					
Antimony	539	ug/L		555.6		97	80-120		
Arsenic	543	ug/L		555.6		98	80-120		
Barium	548	ug/L		555.6		99	80-120		
Beryllium	548	ug/L		555.6		99	80-120		
Boron	514	ug/L		555.6		93	80-120		
Cadmium	545	ug/L		555.6		98	80-120		
Calcium	5.39	mg/L		5.556		97	80-120		
Chromium	540	ug/L		555.6		97	80-120		
Cobalt	543	ug/L		555.6		98	80-120		
Lead	536	ug/L		555.6		97	80-120		
Magnesium	5.62	mg/L		5.556		101	80-120		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B432465-BS1)				Prepared: 05/08/24 Analyzed: 05/09/24					
Mercury	52.3	ug/L		55.56		94	80-120		
Molybdenum	530	ug/L		555.6		95	80-120		
Potassium	5.38	mg/L		5.556		97	80-120		
Selenium	541	ug/L		555.6		97	80-120		
Sodium	5.64	mg/L		5.556		101	80-120		
Thallium	555	ug/L		555.6		100	80-120		
Matrix Spike (B432465-MS1)				Sample: HE00566-01		Prepared & Analyzed: 05/08/24			
Antimony	550	ug/L		555.6	ND	99	75-125		
Arsenic	566	ug/L		555.6	5.66	101	75-125		
Barium	745	ug/L		555.6	200	98	75-125		
Beryllium	562	ug/L		555.6	ND	101	75-125		
Boron	612	ug/L		555.6	98.8	92	75-125		
Cadmium	566	ug/L		555.6	ND	102	75-125		
Calcium	126	mg/L		5.556	121	104	75-125		
Chromium	556	ug/L		555.6	ND	100	75-125		
Cobalt	544	ug/L		555.6	1.15	98	75-125		
Lead	535	ug/L		555.6	0.806	96	75-125		
Magnesium	53.4	mg/L	Q4	5.556	46.4	126	75-125		
Mercury	53.7	ug/L		55.56	ND	97	75-125		
Molybdenum	566	ug/L		555.6	6.15	101	75-125		
Potassium	6.93	mg/L		5.556	0.722	112	75-125		
Selenium	559	ug/L		555.6	ND	101	75-125		
Sodium	51.1	mg/L	Q4	5.556	43.8	131	75-125		
Thallium	555	ug/L		555.6	ND	100	75-125		
Matrix Spike Dup (B432465-MSD1)				Sample: HE00566-01		Prepared & Analyzed: 05/08/24			
Antimony	551	ug/L		555.6	ND	99	75-125	0.4	20
Arsenic	561	ug/L		555.6	5.66	100	75-125	0.8	20
Barium	728	ug/L		555.6	200	95	75-125	2	20
Beryllium	553	ug/L		555.6	ND	100	75-125	2	20
Boron	604	ug/L		555.6	98.8	91	75-125	1	20
Cadmium	562	ug/L		555.6	ND	101	75-125	0.6	20
Calcium	127	mg/L		5.556	121	110	75-125	0.3	20
Chromium	554	ug/L		555.6	ND	100	75-125	0.4	20
Cobalt	549	ug/L		555.6	1.15	99	75-125	0.9	20
Lead	524	ug/L		555.6	0.806	94	75-125	2	20
Magnesium	52.8	mg/L		5.556	46.4	117	75-125	1	20
Mercury	53.2	ug/L		55.56	ND	96	75-125	0.9	20
Molybdenum	564	ug/L		555.6	6.15	100	75-125	0.3	20
Potassium	6.82	mg/L		5.556	0.722	110	75-125	2	20
Selenium	556	ug/L		555.6	ND	100	75-125	0.5	20
Sodium	50.6	mg/L		5.556	43.8	122	75-125	1	20
Thallium	545	ug/L		555.6	ND	98	75-125	2	20
<u>Batch B432473 - No Prep - SM 2540C</u>									
Blank (B432473-BLK1)				Prepared: 05/08/24 Analyzed: 05/09/24					
Solids - total dissolved solids (TDS)	20.0	mg/L	B1, B2						

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
LCS (B432473-BS1)				Prepared: 05/08/24 Analyzed: 05/09/24					
Solids - total dissolved solids (TDS)	990	mg/L		1000		99	84.9-109		
Duplicate (B432473-DUP2)				Sample: HE00566-01 Prepared: 05/08/24 Analyzed: 05/09/24					
Solids - total dissolved solids (TDS)	595	mg/L			580			3	5
<u>Batch B432910 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B432910-CCB1)				Prepared & Analyzed: 05/10/24					
Chloride	0.0792	mg/L							
Fluoride	0.00	mg/L							
Sulfate	0.00	mg/L							
Calibration Check (B432910-CCV1)				Prepared & Analyzed: 05/10/24					
Chloride	4.75	mg/L		5.000		95	90-110		
Sulfate	4.86	mg/L		5.000		97	90-110		
Fluoride	5.00	mg/L		5.000		100	90-110		
<u>Batch B432981 - No Prep - SM 4500F C 1997</u>									
Calibration Blank (B432981-CCB1)				Prepared & Analyzed: 05/14/24					
Fluoride	0.0240	mg/L							
Calibration Blank (B432981-CCB2)				Prepared & Analyzed: 05/14/24					
Fluoride	0.0240	mg/L							
Calibration Check (B432981-CCV1)				Prepared & Analyzed: 05/14/24					
Fluoride	0.693	mg/L		0.7000		99	90-110		
Calibration Check (B432981-CCV2)				Prepared & Analyzed: 05/14/24					
Fluoride	0.686	mg/L		0.7000		98	90-110		
<u>Batch B432983 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B432983-CCB1)				Prepared & Analyzed: 05/13/24					
Fluoride	0.00	mg/L							
Chloride	0.104	mg/L							
Sulfate	0.00	mg/L							
Calibration Check (B432983-CCV1)				Prepared & Analyzed: 05/13/24					
Sulfate	5.06	mg/L		5.000		101	90-110		
Fluoride	5.23	mg/L		5.000		105	90-110		
Chloride	4.99	mg/L		5.000		100	90-110		
Matrix Spike (B432983-MS1)				Sample: HE00275-01 Prepared & Analyzed: 05/13/24					
Sulfate	1.53	mg/L		1.500	ND	102	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	31	NR	80-120		
Matrix Spike (B432983-MS2)				Sample: HE00566-01 Prepared & Analyzed: 05/13/24					
Sulfate	1.00E9	mg/L	Q4	1.500	26.0	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	31	NR	80-120		
Fluoride	1.86	mg/L		1.500	0.307	104	80-120		
Matrix Spike (B432983-MS3)				Sample: HE00566-03 Prepared & Analyzed: 05/13/24					
Chloride	1.0E9	mg/L	Q4	1.500	15	NR	80-120		
Sulfate	2.78	mg/L		1.500	1.16	108	80-120		
Matrix Spike Dup (B432983-MSD1)				Sample: HE00275-01 Prepared & Analyzed: 05/13/24					
Sulfate	1.61	mg/L		1.500	ND	107	80-120	5	20
Chloride	1.0E9	mg/L	Q4	1.500	31	NR	80-120	0	20
Matrix Spike Dup (B432983-MSD2)				Sample: HE00566-01 Prepared & Analyzed: 05/13/24					

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike Dup (B432983-MSD2) Sample: HE00566-01 Prepared & Analyzed: 05/13/24									
Fluoride	1.85	mg/L		1.500	0.307	103	80-120	0.6	20
Chloride	1.0E9	mg/L	Q4	1.500	31	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	26.0	NR	80-120	0	20
Matrix Spike Dup (B432983-MSD3) Sample: HE00566-03 Prepared & Analyzed: 05/13/24									
Sulfate	2.74	mg/L		1.500	1.16	105	80-120	2	20
Chloride	1.0E9	mg/L	Q4	1.500	15	NR	80-120	0	20
<u>Batch B432993 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B432993-CCB1) Prepared & Analyzed: 05/14/24									
Fluoride	0.00	mg/L							
Chloride	0.00	mg/L							
Sulfate	0.00	mg/L							
Calibration Blank (B432993-CCB2) Prepared & Analyzed: 05/13/24									
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.805	mg/L							
Calibration Check (B432993-CCV1) Prepared & Analyzed: 05/13/24									
Chloride	5.40	mg/L		5.000		108	90-110		
Sulfate	5.46	mg/L		5.000		109	90-110		
Fluoride	5.49	mg/L		5.000		110	90-110		
Calibration Check (B432993-CCV2) Prepared & Analyzed: 05/13/24									
Fluoride	5.18	mg/L		5.000		104	90-110		
Chloride	4.92	mg/L		5.000		98	90-110		
Sulfate	5.10	mg/L		5.000		102	90-110		
Matrix Spike (B432993-MS1) Sample: HD05170-01 Prepared & Analyzed: 05/13/24									
Sulfate	2.69	mg/L		1.500	1.19	100	80-120		
Chloride	< 1.0	mg/L	Q4	1.500	42	NR	80-120		
Fluoride	1.39	mg/L		1.500	0.144	83	80-120		
Matrix Spike Dup (B432993-MSD1) Sample: HD05170-01 Prepared & Analyzed: 05/13/24									
Sulfate	2.75	mg/L		1.500	1.19	104	80-120	2	20
Fluoride	1.61	mg/L		1.500	0.144	98	80-120	14	20
Chloride	< 1.0	mg/L	Q4	1.500	42	NR	80-120		20
<u>Batch B433047 - No Prep - SM 2320B 1997</u>									
Duplicate (B433047-DUP1) Sample: HE00566-01 Prepared & Analyzed: 05/14/24									
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	500	mg/L			512			2	10
<u>Batch B433255 - No Prep - SM 4500F C 1997</u>									
Calibration Blank (B433255-CCB1) Prepared & Analyzed: 05/16/24									
Fluoride	0.0240	mg/L							
Calibration Blank (B433255-CCB2) Prepared & Analyzed: 05/16/24									
Fluoride	0.0260	mg/L							
Calibration Check (B433255-CCV1) Prepared & Analyzed: 05/16/24									
Fluoride	0.692	mg/L		0.7000		99	90-110		
Calibration Check (B433255-CCV2) Prepared & Analyzed: 05/16/24									
Fluoride	0.690	mg/L		0.7000		99	90-110		

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Matrix Spike (B433255-MS1)				Sample: HD05170-02		Prepared & Analyzed: 05/16/24			
Fluoride	1.23	mg/L		1.000	0.235	100	80-120		
Matrix Spike Dup (B433255-MSD1)				Sample: HD05170-02		Prepared & Analyzed: 05/16/24			
Fluoride	1.27	mg/L		1.000	0.235	103	80-120	3	20

NOTES

Specifications regarding method revisions and method modifications 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

- B Present in the method blank at 146.
- B1 Blank contamination suspected and the sample result is less than Method Reporting Limit.
- B2 Contamination does not impact data since sample result is greater than ten times the contamination level found in the blank.
- 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



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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Vistra Corp-Edwards		Report To: Brian Voelker		Attention: Mark Davis	
Address: 7800 Cilco Lane		Copy To: Sam Davies-samantha.davies@vistracorp.com		Company Name: Vistra Corp-Edwards	
Peoria, IL 61607		Mark Davis-Mark.Davis1@vistracorp.com		Address: see Section A	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:	
Phone: (217) 753-8911 Fax:		Project Name:		Project Manager:	
Requested Due Date/TAT: 10 day		Project Number: 2285		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	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 ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		EDW-257-301	EDW-845-301												
1	AP05S	WT	G		4/30/24	16:15		4	X	X																					
2	AP07S	WT	G		4/30/24	15:01		4	X	X																					
3	AW-01	WT	G		4/30/24	11:30		8	X	X																					
4	AW-05	WT	G		4/30/24	13:15		4	X	X																					
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	WT	G		4/30/24	16:37		4	X	X																					
14	AW-17																														
15	AW-18	WT	G		4/30/24	13:55		4	X	X																					
16	AW-19	WT	G		4/30/24	12:25		4	X	X																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
EDW-24Q2-Rev 0	WVH M	4/30/24	1743		4/30/24	1743	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: Austin Mase	SIGNATURE of SAMPLER: Austin Mase				
DATE Signed (MM/DD/YY): 04/30/24					

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

Page: 1 of 2

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Container (Y/N)	Samples taken (Y/N)
PRINT Name of SAMPLER: <i>Baron Remington</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed (MM/DD/YY): <i>05/01/24</i>				

Courier

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

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

Page: 1 of 2

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: Aaron Pemberton					
SIGNATURE of SAMPLER: 	DATE Signed (MM/DD/YY): 05/02/24				

SAR-3: Episodic Depth to Groundwater Measurements

All DTWs on SAR-3 and SAR-4 must be collected within 24 hours.

Plant: EDW

Event: EDW-24Q2

Well	Unique ID	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
AP08	EDW_AP08	4/29/24	10:54	5.42	DTB: 21.90	AM
AP09	EDW_AP09		12:56	8.54	DTB: 71.91	AM
APW-01	EDW_APW-01		11:39	4.79		AW
AW-14	EDW_AW-14		11:44	6.30		AM
AW-20	EDW_AW-20		10:17	15.53		AW
AW-23	EDW_AW-23		14:13	3.16		AM
OW-01	EDW_OW-01		10:36	21.99	DTB: 38.90	AW
OW-02	EDW_OW-02		12:11	7.35	DTB: 38.79 / Heavy Sediment	AM
PTW-01	EDW_PTW-01		10:32	23.66	DTB: 40.90	
PTW-02	EDW_PTW-02		12:07	7.59	DTB: 40.99	AM

U:6/21/23 GKJ

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.
Transducer data on SAR-4 form may be collected at anytime during the sampling event.
Plant: EDW
Event: EDW-24Q2

Well	Unique ID	Unit Name	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 down-loaded?	Batt (H/M/L/R)	
AP05S	EDW AP05#S		4/29/24	11:43	3.71	21629301	Yes	439.71	Y	H	AW
AP07S	EDW AP07#S			10:39	22.92	21615552	Yes	438.14	Y	H	AW
AW-01	EDW AW-01			11:26	9.87	21615144	Yes	454.76	Y	H	AW
AW-05	EDW AW-05			10:56	6.45	21615132	Yes	437.05	Y	H	AW
AW-06	EDW AW-06		4/29/24	10:11	24.92	21615127	Yes	435.95	Y	H	AW
AW-08	EDW AW-08			11:06	21.10	21615722	Yes	441.49	Y	M	AW
AW-09	EDW AW-09			10:35	25.77	21615130	Yes	439.92	Y	H	AW
AW-10	EDW AW-10			11:26	1.31	21615754	Yes	439.02	Y	H	AW
AW-11	EDW AW-11			11:39	5.19	21615129	Yes	434.96	Y	H	AW
AW-15	EDW AW-15			11:59	8.04	21615761	Yes	433.97	Y	H	AW
AW-15S	EDW AW-15#S			12:01	8.94	21629298	Yes	431.95	Y	H	AW
AW-16	EDW AW-16			10:41	24.35	21615714	Yes	437.06	Y	H	AW
AW-17	EDW AW-17			10:25	25.29	21615756	Yes	437.07	Y	H	AW
AW-18	EDW AW-18			10:20	26.45	21615763	Yes	436.38	Y	H	AW
AW-19	EDW AW-19			10:11	13.45	21615718	Yes	447.46	Y	H	AW
AW-21	EDW AW-21			10:21	15.67	21615514	Yes	445.19	Y	H	AW

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All episodic water levels on SAR-3 and SAR-4 must be collected within a 24 hour period.
Transducer data on SAR-4 form may be collected at anytime during the sampling event.
Plant: EDW
Event: EDW-24Q2

Well	Unique ID	Unit Name	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 down-loaded?	Batt (H/M/L/R)		
EMW-05	EDW EMW-05		4/19/24	13:04	18.49	21615739	Yes	439.07	Y	H		AM
XPW01A	EDW XPW01A pore		4/29/24	11:01	10.29	21615740	Yes	454.11	Y	H		AM
XPW02	EDW XPW02 pore			11:09	18.45	21615752	Yes	455.53	Y	H		AM
XPW03	EDW XPW03 pore			12:53	15.86	21629300	Yes	450.62	Y	H		AM
SG-01	EDW YILRIVER			12:41	44.3	21768086	Yes	32.94	Y	H		AM

U: 6/21/23 GKJ

Notes:
 Batt = battery
 bmp = below measuring point
 ft = feet
 H = high
 L = low
 M = medium
 R = replaced

Site: Edwards Ash Pond

WELL/SAMPLE POINT AP05S

Purge Method: Compressor

Date: 4/30/24 Start Time: 15:15 Finish/Sample Time: 16:15

Well Depth (Bottom) From MP: _____ ft
Min. Purge Volume: 1000 Gall ML
Depth to Water From MP: 3.70 ft
Total Purge Volume: 1200 Gall 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	15:36	3.85	100	6.78	1480	16.15	-136	0.0	41.7
2	15:39	3.85	100	6.76	1500	16.13	-138	0.0	42.8
3	15:42	3.85	100	6.74	1520	16.12	-139	0.0	45.1
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	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)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
1	General (P, 1000mL)
1	(P, 2.5L HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P, 1000 mL)

Ferrous Iron _____ mg/L Final DTW: 3.90

Comments: Water level tape: Heson Dipper - T 3717 - T

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AP07S

Purge Method: Compressor

Date: 4/30/24 Start Time: 13:30 Finish/Sample Time: 15:01

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1000 Gal / L

Depth to Water From MP: 23.11 ft Total Purge Volume: 1100 Gal / L

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: 0.14 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	13:49	23.29	100	6.90	1710	21.19	10	0.22	8.6
2	13:52	23.32	100	6.88	1780	21.18	6	0.0	0.0
3	13:55	23.32	100	6.87	1830	21.17	6	0.0	15.2
4	13:58	23.32	100	6.86	1850	21.16	6	0.0	8.8
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)
	General (P, 250 mL)
1	General (P, 1000 mL)
1	P, 2.5L, HNO3

4

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P, 1000 mL)

← Ferrous Iron _____ mg/L Final DTW: 23.25

Comments water level tape: Hanna dipper - T 3717 - T

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT **AW-01**

Purge Method: Compressor

Date: 4/29/24 Start Time: 9:10 Finish/Sample Time: 11:30
AW 4/30/24
 Well Depth (Bottom) From MP: 9.86 ft 9:31 4/30/24 AW
 Depth to Water From MP: 9.86 ft 11.40 ft 4/30/24 AW
 Water Column Length: _____ ft
 Well Water Volume: _____ Gal / L 7.24 AW 4/30/24
 Min. Purge Volume: 1000 Gal / L
 Total Purge Volume: 1100 Gal / L
 Max Drawdown: _____ ft
 Total Drawdown: 14.98 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	<u>15:31</u>	<u>14.28</u>	<u>100</u>	<u>7.08</u>	<u>1350</u>	<u>15.08</u>	<u>-36</u>	<u>0.0</u>	<u>57.8</u>
2	<u>15:34</u>	<u>14.85</u>	<u>100</u>	<u>7.22</u>	<u>1340</u>	<u>15.06</u>	<u>-39</u>	<u>0.0</u>	<u>46.2</u>
3	<u>15:37</u>	<u>15.54</u>	<u>100</u>	<u>7.20</u>	<u>1340</u>	<u>15.07</u>	<u>-43</u>	<u>0.0</u>	<u>35.8</u>
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)
<u>1+1</u>	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)
<u>1+1</u>	<u>P, 2.5L, HNO3</u>
<u>1+1</u>	<u>General (P, 1000mL)</u>

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
<u>1+1</u>	<u>General (P, 1000mL)</u>

8
Ferrous Iron _____ mg/L Final DTW: 26.8

Comments: Water level tape: Heron Dipper-T 3174 3717-T
Field dup AW 4/30/24

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-05

Purge Method: Compressor

Date: 4/30/24 Start Time: 11:55 Finish/Sample Time: 13:15

Well Depth (Bottom) From MP: 7.13 ft Min. Purge Volume: 1000 Gal / L

Depth to Water From MP: 7.13 ft Total Purge Volume: 1100 Gal / L

Water Column Length: ft Max Drawdown: ft

Well Water Volume: Gal / L 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	12:16	7.56	100	7.04	1470	16.14	-53	0.0	725
2	12:19	7.61	100	7.03	1480	16.14	-61	0.0	575
3	12:22	7.61	100	7.03	1480	16.14	-66	0.0	509
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 AW 4/30/24

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	P, 2.5L HNO3
1	General (P, 1000mL)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P, 1000mL)

Ferrous Iron mg/L Final DTW: 7.44

Comments Water level tape: Heron Dipper-T 3717-T

Sampler's Signature: Andy Woburn

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-06

Purge Method: Deaerated Brackish

Date: 5/2/2024 Start Time: 0432 Finish/Sample Time: 1134

Well Depth (Bottom) From MP: _____ ft
Min. Purge Volume: 1000 Gal / L (mL)
Depth to Water From MP: 26.28 ft
Total Purge Volume: 1600 Gal / L
Water Column Length: _____ ft
Max Drawdown: _____ ft
Well Water Volume: _____ Gal / L
Total Drawdown: 13.06 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	0945	28.48	100	7.04	1160	16.37	-109	1.77	179
2	0948	28.88	100	7.05	1150	16.24	-113	1.65	146
3	0951	29.28	100	7.05	1150	16.18	-115	1.59	109
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 + 1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1 + 1	General (P, 250 mL) 1000mL
1 + 1	Res (P, 2.5L, HNO3)

4/14

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1 + 1	General (P,500mL) 1000mL

Ferrous Iron _____ mg/L

Comments Final DTH 39.34 PL Field Dup Filter

Sampler's Signature: _____

WELL/SAMPLE POINT **AW-08**

Purge Method: **Peristaltic**

Date: **5/2/2024** Start Time: **1459** Finish/Sample Time: **1618**

Well Depth (Bottom) From MP: **58.23** ft Min. Purge Volume: **1000** Gal / L **(ml)**
Depth to Water From MP: **20.86** ft Total Purge Volume: **1500** Gal / L **(ml)**
Water Column Length: **37.37** ft Max Drawdown: **—** ft
Well Water Volume: **22.60** Gal / L Total Drawdown: **7.77** 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	1511	21.74	100	6.88	1610	21.20	-151	0.60	19.8
2	1514	22.10	100	6.87	1620	21.68	-152	0.52	15.1
3	1517	22.59	100	6.86	1610	21.60	-153	0.41	11.2
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	☒	☐
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	Ra8 (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL) 1000 mL

Ferrous Iron **—** mg/L

Comments

Final DTW: 28.63' RL

Sampler's Signature: **[Signature]**

Site: Edwards Ash Pond

WELL/SAMPLE POINT **AW-09**

Purge Method: Dedicated Bladder

Date: 5/2/2024 Start Time: 1142 Finish/Sample Time: 1248

Well Depth (Bottom) From MP: _____ ft
Min. Purge Volume: 1000 Gal / L (mL)
Depth to Water From MP: 25.66 ft
Total Purge Volume: 1600 Gal / L (mL)
Water Column Length: _____ ft
Max Drawdown: _____ ft
Well Water Volume: _____ Gal / L
Total Drawdown: 8.92 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	1152	27.28	100	6.98	1650	18.06	-134	1.27	24.3
2	1155	27.65	100	6.94	1680	17.98	-136	1.21	27.0
3	1158	28.02	100	6.92	1680	17.91	-139	1.15	27.8
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) 1000mL
1	Red CP, 2.5L, HNO3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL) 1000mL

Ferrous Iron _____ mg/L

Comments: Final DTW 34.58 PL

Sampler's Signature: _____

Site: Edwards Ash Pond

WELL/SAMPLE POINT **AW-10**

Purge Method: peristaltic w/ defoaming tubing

Date: 5/2/2024 Start Time: 1257 Finish/Sample Time: 1455

Well Depth (Bottom) From MP: 33.53 ft Min. Purge Volume: 1000 Gal / L ml

Depth to Water From MP: 1.41 ft Total Purge Volume: 1600 Gal / L ml

Water Column Length: 32.12 ft Max Drawdown: — ft

Well Water Volume: 14.43 Gal ① Total Drawdown: 4.98 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	1312	2.60	100	6.97	2400	18.63	-135	0.55	149
2	1315	2.91	100	6.98	2410	18.62	-138	0.47	244
3	1318	3.19	100	6.99	2410	18.72	-140	0.40	343
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hor. Gen

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 + 1 dup	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1 + 1 dup	General (P, 250 mL) 1000mL
1 + 1 dup	As (P, 7.5 L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1 + 1 dup	General (P, 500mL) 1000mL

Ferrous-Iron — mg/L

Comments Final DTW 6.39 PL Field Dup Filled here

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-11

Purge Method: Dedicated bladder

Date: 5/1/24 Start Time: 1329 Finish/Sample Time: 1433

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1000 Gal 16 mL
Depth to Water From MP: 5.31 ft Total Purge Volume: 1700 Gal 16 mL
Water Column Length: _____ ft Max Drawdown: _____ ft
Well Water Volume: _____ Gal / L Total Drawdown: 0.05 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	1339	5.36	100	7.10	1521.7	16.52	-125.7	1.50	73.56
2	1340	5.36	100	7.10	1607.4	16.68	-122.0	1.41	79.28
3	1342	5.36	100	7.09	1674.8	16.53	-120.3	1.44	71.09
4	1343	5.36	100	7.10	1656.5	16.45	-118.1	1.36	76.51
5	1345	5.36	100	7.09	1649.0	16.41	-117.1	1.38	75.45
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Aquatrak 1600

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	General P 1000mL
1	Rad P 2.5L

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General P 1000mL

Ferrous Iron _____ mg/L

Comments FDW = 5.36'

Sampler's Signature: _____

[Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-14

Purge Method: Dedicated bladder

Date: 5/1/24 Start Time: 1221 Finish/Sample Time: 1320

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

Depth to Water From MP: 6.30 ft Total Purge Volume: 1100 mL Gal / L

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: 8.00 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	1229	7.90	100	6.99	1723.6	15.43	-44.3	0.12	6.14
2	1230	8.09	100	6.98	1707.8	15.44	-46.1	0.16	8.19
3	1232	8.33	100	6.98	1713.6	15.31	-48.2	0.08	4.45
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatro 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:

Qty	Unfiltered 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	General P 1000 mL
1	Red P 2.5L

Qty	Filtered Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General P 1000 mL

Ferrous Iron _____ mg/L

Comments FDTW: 14.30'

Sampler's Signature: _____

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-15

Purge Method: Ded-curred bladder

Date: 5/1/24 Start Time: 1005 Finish/Sample Time: 1110

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

Depth to Water From MP: 8.19 ft Total Purge Volume: 1400 mL Gal / L

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: 0.11 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	8.30	100	6.82	1889.6	15.78	-66.3	0.99	14.10
2	1017	8.30	100	6.82	1855.2	15.76	-73.0	0.96	6.41
3	1019	8.30	100	6.82	1885.6	15.70	-79.3	0.83	18.34
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 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)
	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	General P1000mL
1	Rad p 2.5L

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General P1000mL

-Ferrous Iron _____ mg/L

Comments FDTW - 8:30'

Sampler's Signature: _____

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-15S

Purge Method: Dedicated bladder

Date: 5/1/24 Start Time: 1115 Finish/Sample Time: 1210

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

Depth to Water From MP: 8.87 ft Total Purge Volume: 1800 mL Gal / L

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: 3.47 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	1122	9.95	100	6.84	1664.2	14.21	104.4	0.66	3.90
2	1123	10.23	100	6.84	1665.2	14.14	101.6	0.58	3.98
3	1124	10.42	100	6.85	1664.2	14.08	95.4	0.51	2.96
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatro 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)
	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	General P 1000 mL
1	Rad P 2.5L

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General P 1000 mL

Ferrous Iron _____ mg/L

Comments FDTW = 12.34'

Sampler's Signature: [Signature]

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-16

Purge Method: Compressor

Date: 4/30/24 Start Time: 1519 Finish/Sample Time: 1637

Well Depth (Bottom) From MP: 24.43 ft Min. Purge Volume: 1 Gal / 0

Depth to Water From MP: 24.43 ft Total Purge Volume: 1.9 Gal / 0

Water Column Length: ft Max Drawdown: ft

Well Water Volume: Gal / L Total Drawdown: 0.67 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	1536	25.10	100	6.54	2140	19.86	-134	0.25	0.0
2	1539	25.10	1	6.52	2140	19.85	-136	0.20	0.0
3	1542	25.10	1	6.90	2150	19.75	-137	0.14	0.0
4	1545	25.10	1	6.50	2120	19.73	-138	0.12	0.0
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) 1L
1	Rad (P, 250 mL) HNO3

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P,500mL) 1L

•Ferrous Iron mg/L

Comments

Sampler's Signature: Antony M

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-17

Purge Method: Deaerated bladder

Date: 5/1/24 Start Time: 1448 Finish/Sample Time: 1549

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

Depth to Water From MP: 25.42 ft Total Purge Volume: 1100-L Gal / L

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ 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	1459	25.88	100	6.84	1752.2	18.21	-123.4	0.14	43.91
2	1500	25.94	100	6.84	1743.2	18.15	-123.7	0.08	44.40
3	1502	26.00	100	6.84	1720.8	18.09	-124.8	0.05	47.38
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 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)
	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	General P 1000 mL
1	Rad P 25L

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General P 1000 mL

~~Ferrous Iron~~ _____ mg/L

Comments FDTW = 26.62

Sampler's Signature: _____

Site: Edwards Ash Pond

WELL/SAMPLE POINT AW-18

Purge Method: Compressor

Date: 4/30/2024 Start Time: 12:37 Finish/Sample Time: 13:55

Well Depth (Bottom) From MP: 51.87 ft (Top of Pump) Min. Purge Volume: 1000 Gal / L

Depth to Water From MP: 26.49 ft Total Purge Volume: 1900 Gal / L

Water Column Length: 24.78 ft Max Drawdown: _____ ft

Well Water Volume: 15.01 Gal / L Total Drawdown: 2.96 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	13:05	27.96	100	6.75	1710	25.52	-123	0.00	32.0
2	13:08	28.13	100	6.68	1720	25.48	-131	0.00	31.7
3	13:11	28.28	100	6.66	1720	25.41	-134	0.00	31.3
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	✓	
Casing locked/secure	✓	
Well cap fits securely.	✓	
Good seal/drainage	✓	
Well has weep holes	✓	

BOTTLE INFORMATION:

Qty	Unfiltered 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	General (P, 1000 mL)
1	(P, 250 mL, HNO3)

4

Qty	Filtered Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P, 1000 mL)

-Ferrous Iron _____ mg/L

Comments Final DTW: 29.45

Sampler's Signature: J Bohannon

Site: Edwards Ash Pond

WELL/SAMPLE POINT **AW-19**

Purge Method: Compressor

Date: 4/30/2024 Start Time: 11:00 Finish/Sample Time: 12:25

Well Depth (Bottom) From MP: 38.60 ft (Top of Pump) Min. Purge Volume: 1000 Gal / L

Depth to Water From MP: 13.52 ft Total Purge Volume: 1900 Gal / L

Water Column Length: 25.08 ft Max Drawdown: _____ ft

Well Water Volume: 15.19 Gal / L Total Drawdown: 3.90 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	11:30	14.62	100	6.96	1100	22.37	-90	1.18	38.3
2	11:33	14.97	100	6.86	1100	22.24	-93	0.98	24.3
3	11:36	15.30	100	6.84	1090	20.33	-93	0.94	20.1
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	✓	
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	(P, 2.5L)
1	(P, 1000 mL)

(4)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	(P, 1000 mL)

Ferrous Iron _____ mg/L

Comments Final DTW: 16.92

Sampler's Signature: J Bohannon

Site: Edwards Ash Pond

WELL/SAMPLE POINT **AW-21**

Purge Method: Compressor

Date: 4/30/2024 Start Time: 0929 Finish/Sample Time: 10:50

Well Depth (Bottom) From MP: 33.56 ft (Top of Pump) Min. Purge Volume: 1000 Gal / L

Depth to Water From MP: 15.68 ft Total Purge Volume: 2200 Gal / L

Water Column Length: 17.88 ft Max Drawdown: _____ ft

Well Water Volume: 10.83 Gal / L Total Drawdown: 1.48 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	9:59	16:40	100	7.85	591	18.77	64	6.27	2.2
2	10:02	15:97	100	7.80	586	19.08	70	5.54	2.4
3	10:05	16:97	100	7.81	613	18.92	76	5.71	4.2
4	10:08	17:01	100	7.70	618	18.91	82	5.63	3.8
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	(P, 2.5L, HNO3)
1	General (P, 1000 mL)

4

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
	General (P,500mL)
1	General (P, 1000 mL)

Ferrous Iron _____ mg/L

Comments Final DTW: 17.16ft

Sampler's Signature: _____

J. Bohannon

Multiparameter Meter Field Calibration Checklist

Field Personnel: AW				Location: Edwards					
Weather: 56° - 78° 4 mph Wind South				Environment: grassy, muddy					
Multiparameter Water Meter		Make: Horioba	Model: U-5000	Serial Number: AGJTK4XG					
Water Level Meter		Make: Huron	Model: Dipper-T	Serial Number: 3717-T					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.96	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.01	s.u.	±0.1 s.u.	P	NO		MSI	023051-02	2/21/2025
pH 10.00a	10.06	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	2010	µS/cm	±5%	P	NO		Geotech	3GF1197	Jun-24
ORP	240	mV	±15 mV	P	NO		InSitu	3GI1011	Jun-24
DO (Zero pt)	0.0	mg/L	±0.1	P	NO		Macron	#000228049	8/26/2025
DO (Saturated)	98.7%	%	97-100%	P	NO		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	NO		Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
ICV (Initial Calibration Verification)					Time: 8:35				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	3.99	s.u.	±0.15 s.u.	P	N/A	Geotech	3GB1049	Feb-25	
pH 7.00b	7.08	s.u.	±0.15 s.u.	P		Geotech	2GF113	Jun-24	
pH 10.00b	10.01	s.u.	±0.15 s.u.	P		Geotech	3GA1134	Jan-25	
SC 1000	1030	µS/cm	±5%	P		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	4.01	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	NO		MSI	023051-02	2/21/2025
pH 10.00a	10.04	s.u.	±0.1 s.u.	P	NO		MSI	022361-01	12/27/2024
SC 1000	1020	µS/cm	±5%	P	NO		Ricca	4209A12	Aug-24
DO (Zero pt)	0.0	mg/L	±0.1 mg/L	P	NO		Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	NO		Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
Comments:									
Signatures: Andy Winters					Date: 4/30/24				

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Jordan Bohannon</u>				Location: <u>Edwards Power Plant</u>					
Weather: <u>58-79°F, Sunny, 4 mph wind</u>				Environment: <u>Grass, mud</u>					
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>U-5000</u>	Serial Number: <u>WUG83C85</u>					
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dipper T</u>	Serial Number: <u>19FF 2202 131ML</u>					
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.49</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Yes</u>	<u>4.00</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.20</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>7.00</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.42</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>10.00</u>	MSI	022361-01	12/27/2024
SC Zero (DI)	<u>0019</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>1970</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Geotech	3GF1197	Jun-24
ORP	<u>232</u>	mV	±15 mV	<u>I</u>	<u>I</u>	<u>I</u>	InSitu	3GI1011	Jun-24
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>100%</u>	%	97-100%	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>0840</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.96</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>None</u>	Geotech	3GB1049	Feb-25	
pH 7.00b	<u>6.98</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech	2GF113	Jun-24	
pH 10.00b	<u>9.97</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech	3GA1134	Jan-25	
SC 1000	<u>1030</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	Ricca	4209A12	Aug-24	

Approx. every 4 hrs, unless only one well

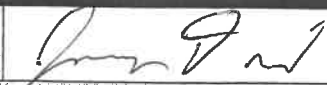
CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.05</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>None</u>	MSI	023067-01	3/14/2025
pH 7.00a	<u>7.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>I</u>	<u>I</u>	MSI	023051-02	2/21/2025
pH 10.00a	<u>10.09</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>I</u>	<u>I</u>	MSI	022361-01	12/27/2024
SC 1000	<u>1040</u>	µS/cm	±5%	<u>P</u>	<u>I</u>	<u>I</u>	Ricca	4209A12	Aug-24
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU	<u>P</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

Comments:

Signature: <u>J. Bohannon</u>	Date: <u>4/30/2024</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: JD, AP				Location: Edwards V.5 pm					
Weather: 67-76°F p.sunny wind NNE 7-13 mph				Environment: grass, weeds					
Multiparameter Water Meter		Make: AquaTroll	Model: G00	Serial Number: 739449					
Water Level Meter		Make: Heron	Model: D:000-T	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	N	NA	MSI	023067-01	3/14/2025
pH 7.00a	7.07	s.u.	±0.1 s.u.	I	I	I	MSI	023051-02	2/21/2025
pH 10.00a	10.08	s.u.	±0.1 s.u.	I	I	I	MSI	022361-01	12/27/2024
SC Zero (DI)	13.92	µS/cm	0-25 µS/cm	I	I	I	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2005.5	µS/cm	±5%	I	I	I	Geotech	3GF1197	Jun-24
ORP	204.1	mV	±15 mV	F	Y	231.9	InSitu	3GI1011	Jun-24
DO (Zero pt)	0.09	mg/L	±0.1	P	N	NA	Macron	#000228049	8/26/2025
DO (Saturated)	98.30	%	97-100%	I	I	I	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.29	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: 0947					
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	3.95	s.u.	±0.15 s.u.	P	NA	Geotech	3GB1049	Feb-25	
pH 7.00b	6.93	s.u.	±0.15 s.u.	I	I	Geotech	2GF113	Jun-24	
pH 10.00b	10.03	s.u.	±0.15 s.u.	I	I	Geotech	3GA1134	Jan-25	
SC 1000	1017.1	µS/cm	±5%	I	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		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	1021.8	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.27	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)
Approx. every 4 hrs, unless only one well									
Comments:									
Signature: 				Date: 5/1/24					

Multiparameter Meter Field Calibration Checklist

Field Personnel: JD AP				Location: Edwards Verra					
Weather: 67°-86°L Sunny with SE wind				Environment: grass, gravel					
Multiparameter Water Meter		Make: Horiba	Model: U-5000	Serial Number: WV683C85					
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	3.63	s.u.	±0.1 s.u.	P	YES	4.00	MSI	023067-01	3/14/2025
pH 7.00a	7.08	s.u.	±0.1 s.u.	P	NO	-	MSI	023051-02	2/21/2025
pH 10.00a	10.30	s.u.	±0.1 s.u.	P	YES	10.00	MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	µS/cm	0-25 µS/cm	P	YES	0.0	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1820	µS/cm	±5%	C	YES	2000	Geotech	3GF1197	Jun-24
ORP	240	mV	±15 mV	P	NO	-	InSitu	3GI1011	Jun-24
DO (Zero pt)	0.09	mg/L	±0.1	P	NO	-	Macron	#000228049	8/26/2025
DO (Saturated)	99.2	%	97-100%	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.8	NTU	<2 NTU	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

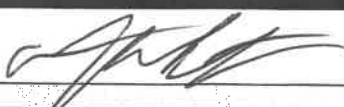
ICV (Initial Calibration Verification)					Time: 0903		236 @ 20°C		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer			
pH 4.00b	4.07	s.u.	±0.15 s.u.	P	-	-	Geotech	3GB1049	Feb-25
pH 7.00b	6.87	s.u.	±0.15 s.u.	P	-	-	Geotech	2GF113	Jun-24
pH 10.00b	9.89	s.u.	±0.15 s.u.	P	-	-	Geotech	3GA1134	Jan-25
SC 1000	1000	µS/cm	±5%	P	-	-	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	4.10	s.u.	±0.1 s.u.	P	NO	-	MSI	023067-01	3/14/2025
pH 7.00a	6.93	s.u.	±0.1 s.u.	P	NO	-	MSI	023051-02	2/21/2025
pH 10.00a	9.98	s.u.	±0.1 s.u.	P	NO	-	MSI	022361-01	12/27/2024
SC 1000	1020	µS/cm	±5%	P	NO	-	Ricca	4209A12	Aug-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	P	NO	-	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

Comments:

Signature: 	Date: 5/12/2024
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Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

June 05, 2024

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.

Sincerely,

A handwritten signature in cursive script, appearing to read "Diane Billings", written in dark ink.

Diane Billings
Project Manager

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order	HD05171
------------	---------

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 HE00278

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 HE00567

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: HD05171-01
Name: AP05S
Matrix: Ground Water - Grab

Sampled: 04/30/24 16:15
Received: 04/30/24 17:43
PO #: 2450166

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	1.06 J	pCi/L			1	1.46	05/23/24 20:56	PACE	904.0 903.0
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Sample: HD05171-02
Name: AP07S
Matrix: Ground Water - Grab

Sampled: 04/30/24 15:01
Received: 04/30/24 17:43
PO #: 2450166

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	0.575	pCi/L			1	0.556	05/23/24 20:56	PACE	904.0 903.0
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Sample: HD05171-03
Name: AW-01
Matrix: Ground Water - Grab

Sampled: 04/30/24 11:30
Received: 04/30/24 17:43
PO #: 2450166

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	0.483 J	pCi/L			1	0.547	05/23/24 20:56	PACE	904.0 903.0
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Sample: HD05171-04
Name: AW-01 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 04/30/24 11:30
Received: 04/30/24 17:43
PO #: 2450166

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	0.843	pCi/L			1	0.483	05/23/24 20:56	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: HD05171-05
Name: AW-05
Matrix: Ground Water - Grab

Sampled: 04/30/24 13:15
Received: 04/30/24 17:43
PO #: 2450166

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	2.22	pCi/L			1	0.5	05/23/24 20:56	PACE	904.0 903.0
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Sample: HD05171-06
Name: AW-16
Matrix: Ground Water - Grab

Sampled: 04/30/24 16:37
Received: 04/30/24 17:43
PO #: 2450166

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	2.44	pCi/L			1	1.24	05/23/24 20:56	PACE	904.0 903.0
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Sample: HD05171-07
Name: AW-18
Matrix: Ground Water - Grab

Sampled: 04/30/24 13:55
Received: 04/30/24 17:43
PO #: 2450166

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	3.23	pCi/L			1	0.997	05/23/24 20:56	PACE	904.0 903.0
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Sample: HD05171-08
Name: AW-19
Matrix: Ground Water - Grab

Sampled: 04/30/24 12:25
Received: 04/30/24 17:43
PO #: 2450166

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	0.180 U	pCi/L			1	0.56	05/23/24 20:56	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: HD05171-09
Name: AW-21
Matrix: Ground Water - Grab

Sampled: 04/30/24 10:50
Received: 04/30/24 17:43
PO #: 2450166

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	0.788	pCi/L			1	0.675	05/23/24 20:56	PACE	904.0 903.0
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Sample: HE00278-01
Name: AW-11
Matrix: Ground Water - Grab

Sampled: 05/01/24 14:33
Received: 05/01/24 16:41
PO #: 2450166

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	1.78	pCi/L			1	0.499	05/14/24 16:50	PACE	904.0 903.0
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Sample: HE00278-02
Name: AW-14
Matrix: Ground Water - Grab

Sampled: 05/01/24 13:20
Received: 05/01/24 16:41
PO #: 2450166

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	4.49	pCi/L			1	0.568	05/14/24 16:50	PACE	904.0 903.0
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Sample: HE00278-03
Name: AW-15
Matrix: Ground Water - Grab

Sampled: 05/01/24 11:10
Received: 05/01/24 16:41
PO #: 2450166

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	7.02	pCi/L			1	0.646	05/14/24 16:50	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: HE00278-04
Name: AW-15S
Matrix: Ground Water - Grab

Sampled: 05/01/24 12:10
Received: 05/01/24 16:41
PO #: 2450166

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	0.705	05/14/24 16:50	PACE	904.0 903.0
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Sample: HE00278-05
Name: AW-17
Matrix: Ground Water - Grab

Sampled: 05/01/24 15:49
Received: 05/01/24 16:41
PO #: 2450166

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	1.75	pCi/L			1	0.644	05/14/24 16:50	PACE	904.0 903.0
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Sample: HE00567-01
Name: AW-06
Matrix: Ground Water - Grab

Sampled: 05/02/24 11:34
Received: 05/02/24 17:22
PO #: 2450166

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	1.77	pCi/L			1	0.515	05/21/24 20:23	PACE	904.0 903.0
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Sample: HE00567-02
Name: AW-06 DUP
Matrix: Ground Water - Grab

Sampled: 05/02/24 11:34
Received: 05/02/24 17:22
PO #: 2450166

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	0.765	pCi/L			1	0.413	05/21/24 20:23	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: HE00567-03
Name: AW-08
Matrix: Ground Water - Grab

Sampled: 05/02/24 16:18
Received: 05/02/24 17:22
PO #: 2450166

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	0.468 J	pCi/L			1	0.498	05/23/24 20:56	PACE	904.0 903.0
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Sample: HE00567-04
Name: AW-09
Matrix: Ground Water - Grab

Sampled: 05/02/24 12:48
Received: 05/02/24 17:22
PO #: 2450166

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	1.32 J	pCi/L			1	1.45	05/23/24 20:56	PACE	904.0 903.0
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Sample: HE00567-05
Name: AW-10
Matrix: Ground Water - Grab

Sampled: 05/02/24 14:55
Received: 05/02/24 17:22
PO #: 2450166

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	2.53	pCi/L			1	1.19	05/23/24 20:56	PACE	904.0 903.0
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Sample: HE00567-06
Name: AW-10 DUP
Matrix: Ground Water - Grab

Sampled: 05/02/24 14:55
Received: 05/02/24 17:22
PO #: 2450166

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	3.77	pCi/L			1	1.16	05/23/24 20:56	PACE	904.0 903.0
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ANALYTICAL RESULTS

Sample: HE00567-07
Name: FIELD BLANK
Matrix: DI Water - Field Blank

Sampled: 05/02/24 16:30
Received: 05/02/24 17:22
PO #: 2450166

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	0.307 J	pCi/L			1	0.611	05/23/24 20:56	PACE	904.0 903.0
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NOTES

Specifications regarding method revisions and method modifications 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

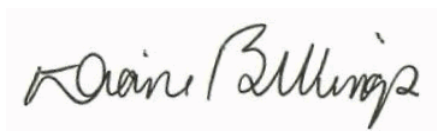
STL - Hazelwood, MO - 944 Anglum Rd, Hazelwood, MO 63042

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

June 04, 2024

Pace IR - Peoria, IL

Sample Delivery Group: L1732520
Samples Received: 05/03/2024
Project Number: HD05171
Description:

Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:



Stephanie M Coble
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 mydata.pacelabs.com

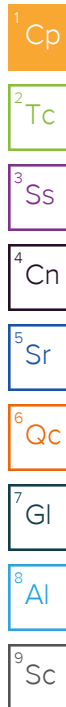


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SAMPLE SUMMARY

HD05171-01 L1732520-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2289951	1	05/20/24 16:49	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2289951	1	05/20/24 16:49	05/22/24 18:14	ZRG	Mt. Juliet, TN

Collected by
Collected date/time
04/30/24 16:15
Received date/time
05/03/24 09:00

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

HD05171-02 L1732520-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2289951	1	05/20/24 16:49	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2289951	1	05/20/24 16:49	05/22/24 18:14	ZRG	Mt. Juliet, TN

Collected by
Collected date/time
04/30/24 15:01
Received date/time
05/03/24 09:00

HD05171-03 L1732520-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2289951	1	05/20/24 16:49	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2289951	1	05/20/24 16:49	05/22/24 18:14	ZRG	Mt. Juliet, TN

Collected by
Collected date/time
04/30/24 11:30
Received date/time
05/03/24 09:00

HD05171-04 L1732520-04 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2289951	1	05/20/24 16:49	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2289951	1	05/20/24 16:49	05/22/24 18:14	ZRG	Mt. Juliet, TN

Collected by
Collected date/time
04/30/24 11:30
Received date/time
05/03/24 09:00

HD05171-05 L1732520-05 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2289951	1	05/20/24 16:49	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2289951	1	05/20/24 16:49	05/22/24 18:14	ZRG	Mt. Juliet, TN

Collected by
Collected date/time
04/30/24 13:15
Received date/time
05/03/24 09:00

HD05171-06 L1732520-06 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2289951	1	05/20/24 16:49	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2289951	1	05/20/24 16:49	05/22/24 18:14	ZRG	Mt. Juliet, TN

Collected by
Collected date/time
04/30/24 16:37
Received date/time
05/03/24 09:00

SAMPLE SUMMARY

HD05171-07 L1732520-07 Non-Potable Water

Collected by

Collected date/time

Received date/time

04/30/24 13:55

05/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2289951	1	05/20/24 16:49	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2289951	1	05/20/24 16:49	05/22/24 18:14	ZRG	Mt. Juliet, TN

¹Cp

²Tc

³Ss

⁴Cn

⁵Sr

⁶Qc

⁷Gl

⁸Al

⁹Sc

HD05171-08 L1732520-08 Non-Potable Water

Collected by

Collected date/time

Received date/time

04/30/24 12:25

05/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2289951	1	05/20/24 16:49	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2289951	1	05/20/24 16:49	05/22/24 18:14	ZRG	Mt. Juliet, TN

HD05171-09 L1732520-09 Non-Potable Water

Collected by

Collected date/time

Received date/time

04/30/24 10:50

05/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2289951	1	05/20/24 16:49	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2289951	1	05/20/24 16:49	05/22/24 18:14	ZRG	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.



Stephanie M Coble
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	-2.28	U	0.742	0.858	1.41	0.738	05/23/2024 20:56	WG2287284
(T) Barium	111					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	76.5					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.06	J	0.866	1.46	05/23/2024 20:56	WG2289951

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	1.06		0.447	0.218	0.381	0.249	05/22/2024 18:14	WG2289951
(T) Barium-133	97.8					30.0-143	05/22/2024 18:14	WG2289951

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	0.0750	U	0.257	0.372	0.468	0.248	05/23/2024 20:56	WG2287284
(T) Barium	94.1					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	79.7					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.575		0.411	0.556	05/23/2024 20:56	WG2289951

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	0.500		0.321	0.136	0.300	0.218	05/22/2024 18:14	WG2289951
(T) Barium-133	84.3					30.0-143	05/22/2024 18:14	WG2289951

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	0.288	J	0.214	0.319	0.381	0.202	05/23/2024 20:56	WG2287284
(T) Barium	110					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	89.5					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.483	J	0.343	0.547	05/23/2024 20:56	WG2289951

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	0.194	J	0.268	0.0882	0.392	0.277	05/22/2024 18:14	WG2289951
(T) Barium-133	70.9					30.0-143	05/22/2024 18:14	WG2289951

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	0.362	J	0.217	0.323	0.384	0.204	05/23/2024 20:56	WG2287284
(T) Barium	104					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	87.7					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.843		0.371	0.483	05/23/2024 20:56	WG2289951

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	0.481		0.301	0.134	0.293	0.205	05/22/2024 18:14	WG2289951
(T) Barium-133	90.1					30.0-143	05/22/2024 18:14	WG2289951

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	0.908		0.242	0.347	0.409	0.216	05/23/2024 20:56	WG2287284
(T) Barium	89.8					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	99.6					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.22		0.532	0.500	05/23/2024 20:56	WG2289951

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	1.32		0.474	0.224	0.288	0.206	05/22/2024 18:14	WG2289951
(T) Barium-133	90.6					30.0-143	05/22/2024 18:14	WG2289951

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	0.142	U	0.659	0.777	1.20	0.632	05/23/2024 20:56	WG2287284
(T) Barium	115					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	73.6					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.44		0.895	1.24	05/23/2024 20:56	WG2289951

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	2.30		0.605	0.267	0.297	0.208	05/22/2024 18:14	WG2289951
(T) Barium-133	82.7					30.0-143	05/22/2024 18:14	WG2289951

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	2.29		0.573	0.676	0.964	0.508	05/23/2024 20:56	WG2287284
(T) Barium	112					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	92.4					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.23		0.675	0.997	05/23/2024 20:56	WG2289951

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	0.943		0.356	0.175	0.256	0.174	05/22/2024 18:14	WG2289951
(T) Barium-133	95.9					30.0-143	05/22/2024 18:14	WG2289951

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	-0.0112	U	0.271	0.370	0.489	0.255	05/23/2024 20:56	WG2287284
(T) Barium	123					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	99.7					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.180	U	0.338	0.560	05/23/2024 20:56	WG2289951

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	0.180	J	0.202	0.0888	0.272	0.188	05/22/2024 18:14	WG2289951
(T) Barium-133	94.0					30.0-143	05/22/2024 18:14	WG2289951

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	0.115	U	0.239	0.341	0.430	0.226	05/23/2024 20:56	WG2287284
(T) Barium	112					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	94.9					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.788		0.529	0.675	05/23/2024 20:56	WG2289951

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	0.673		0.472	0.150	0.520	0.349	05/22/2024 18:14	WG2289951
(T) Barium-133	66.1					30.0-143	05/22/2024 18:14	WG2289951

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4074757-1 05/23/24 20:56

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.152	<u>U</u>	0.198	0.363	0.190
(T) Barium	110		110		
(T) Yttrium	91.5		91.5		

L1732520-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1732520-03 05/23/24 20:56 • (DUP) R4074757-5 05/23/24 20:56

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	0.288	0.214	0.381	0.202	0.770	0.282	0.486	0.260	91.1	1.36		20	3
(T) Barium	110				113	113							
(T) Yttrium	89.5				88.2	88.2							

Laboratory Control Sample (LCS)

(LCS) R4074757-2 05/23/24 20:56

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.67	113	80.0-120	
(T) Barium			103		
(T) Yttrium			88.6		

L1732520-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1732520-02 05/23/24 20:56 • (MS) R4074757-3 05/23/24 20:56 • (MSD) R4074757-4 05/23/24 20:56

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	0.0750	18.2	17.4	108	104	1	70.0-130			4.27		20
(T) Barium		94.1			98.6	97.7							
(T) Yttrium		79.7			95.1	90.6							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4073809-1 05/22/24 18:14

Analyte	MB Result pCi/l	<u>MB Qualifier</u>	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	-0.0167	<u>U</u>	0.0432	0.102	0.0693
(T) Barium-133	72.7		72.7		

L1732520-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1732520-02 05/22/24 18:14 • (DUP) R4073809-5 05/22/24 18:14

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	<u>DUP Qualifier</u>	DUP RPD Limits %	DUP RER Limit
Radium-226	0.500	0.321	0.300	0.218	1.12	0.446	0.377	0.244	76.5	1.13		20	3
(T) Barium-133	84.3				82.8	82.8							

Laboratory Control Sample (LCS)

(LCS) R4073809-2 05/22/24 18:14

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Radium-226	5.00	5.45	109	80.0-120	
(T) Barium-133			53.5		

L1732520-09 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1732520-09 05/22/24 18:14 • (MS) R4073809-3 05/22/24 18:14 • (MSD) R4073809-4 05/22/24 18:14

Analyte	Spike Amount pCi/l	Original Result pCi/l	MS Result pCi/l	MSD Result pCi/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	MS RER	RPD Limits %
Radium-226	20.0	0.673	19.4	20.8	93.6	101	1	75.0-125			7.11		20
(T) Barium-133		66.1			53.7	80.8							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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.

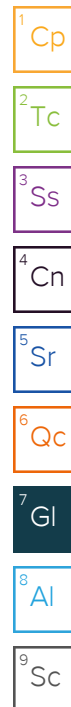
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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



ACCREDITATIONS & LOCATIONS

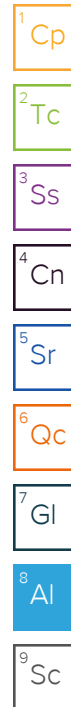
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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 ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	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 ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	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 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ 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

HD05171

1232

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
EDWARDS POWER PLANT, ASH POND
EDW-845-301

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: HD05171-01
Name: AP05S

Sampled: 04/30/24 16:15
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined 22	05/13/24 16:00	10/27/24 16:15	need Ra-226, Ra-228, total combined and QC. 10 Day TAT

Sample: HD05171-02
Name: AP07S

Sampled: 04/30/24 15:01
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/13/24 16:00	10/27/24 15:01	need Ra-226, Ra-228, total combined and QC. 10 Day TAT

Sample: HD05171-03
Name: AW-01

Sampled: 04/30/24 11:30
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/13/24 16:00	10/27/24 11:30	need Ra-226, Ra-228, total combined and QC. 10 Day TAT

Sample: HD05171-04
Name: AW-01 DUP

Sampled: 04/30/24 11:30
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/13/24 16:00	10/27/24 11:30	need Ra-226, Ra-228, total combined and QC. 10 Day TAT

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

HD05171

ATTACHMENT B.
845 QUARTERLY REPORT - QUARTER 2, 2024
EDWARDS POWER PLANT, ASH POND
EDW-845-301

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

U1732528

Sample: HD05171-05
Name: AW-05

Sampled: 04/30/24 13:15
Matrix: Ground Water
Preservative: HNO3, pH <2

-05

Analysis	Due	Expires	Comments
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01-Radium 226/228 combined	05/13/24 16:00	10/27/24 13:15	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
----------------------------	----------------	----------------	---

Sample: HD05171-06
Name: AW-16

Sampled: 04/30/24 16:37
Matrix: Ground Water
Preservative: HNO3, pH <2

-06

Analysis	Due	Expires	Comments
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01-Radium 226/228 combined	05/13/24 16:00	10/27/24 16:37	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
----------------------------	----------------	----------------	---

Sample: HD05171-07
Name: AW-18

Sampled: 04/30/24 13:55
Matrix: Ground Water
Preservative: HNO3, pH <2

-07

Analysis	Due	Expires	Comments
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01-Radium 226/228 combined	05/13/24 16:00	10/27/24 13:55	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
----------------------------	----------------	----------------	---

Sample: HD05171-08
Name: AW-19

Sampled: 04/30/24 12:25
Matrix: Ground Water
Preservative: HNO3, pH <2

-08

Analysis	Due	Expires	Comments
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01-Radium 226/228 combined	05/13/24 16:00	10/27/24 12:25	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT
----------------------------	----------------	----------------	---

OK

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC

HD05171

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: HD05171-09
Name: AW-21

Sampled: 04/30/24 10:50
Matrix: Ground Water
Preservative: HNO3, pH <2

Analysis	Due	Expires	Comments
----------	-----	---------	----------

01-Radium 226/228 combined

05/13/24 16:00

10/27/24 10:50

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 VOA Zero Headspace: ☒ Y ☐ N
Bottles Active 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
Total 9
77020307 5007

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 5/2/24 Total # of Containers: 9 Sample Origin (State): IL PO #: _____

Turn-Around Time Requested ☐ NORMAL ☐ RUSH Date Results Needed: _____

		<u>0900</u>	<u>20.10+20.2</u> °C
Relinquished By	Date/Time	Received By	Date/Time
<u>5/2/24 0850</u>	<u>05-03-24</u>	<u>[Signature]</u>	<u>05-03-24</u>
Sample Temperature Upon Receipt		Y or N	
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

May 20, 2024

Revised Report

Pace IR - Peoria, IL

Sample Delivery Group: L1732347
Samples Received: 05/03/2024
Project Number:
Description:

Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:

Haley Torrence

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 mydata.pacelabs.com

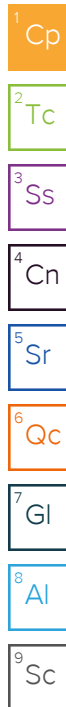


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SAMPLE SUMMARY

HE00278-01 L1732347-01 Non-Potable Water

Collected by
Collected date/time
05/01/24 14:33
Received date/time
05/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2283150	1	05/09/24 13:13	05/14/24 16:50	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2281006	1	05/06/24 12:24	05/14/24 16:50	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2281006	1	05/06/24 12:24	05/09/24 12:14	ZRG	Mt. Juliet, TN

HE00278-02 L1732347-02 Non-Potable Water

Collected by
Collected date/time
05/01/24 13:20
Received date/time
05/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2283150	1	05/09/24 13:13	05/14/24 16:50	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2281006	1	05/06/24 12:24	05/14/24 16:50	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2281006	1	05/06/24 12:24	05/09/24 12:14	ZRG	Mt. Juliet, TN

HE00278-03 L1732347-03 Non-Potable Water

Collected by
Collected date/time
05/01/24 11:10
Received date/time
05/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2283150	1	05/09/24 13:13	05/14/24 16:50	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2281006	1	05/06/24 12:24	05/14/24 16:50	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2281006	1	05/06/24 12:24	05/09/24 12:14	ZRG	Mt. Juliet, TN

HE00278-04 L1732347-04 Non-Potable Water

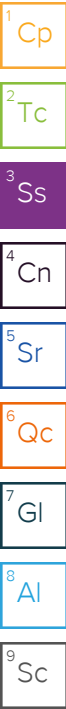
Collected by
Collected date/time
05/01/24 12:10
Received date/time
05/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2283150	1	05/09/24 13:13	05/14/24 16:50	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2281006	1	05/06/24 12:24	05/14/24 16:50	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2281006	1	05/06/24 12:24	05/09/24 12:14	ZRG	Mt. Juliet, TN

HE00278-05 L1732347-05 Non-Potable Water

Collected by
Collected date/time
05/01/24 15:49
Received date/time
05/03/24 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2283150	1	05/09/24 13:13	05/14/24 16:50	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2281006	1	05/06/24 12:24	05/14/24 16:50	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2281006	1	05/06/24 12:24	05/09/24 12:14	ZRG	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: 05/17/24 16:25

Project Narrative



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	1.12		0.245	0.392	0.417	0.219	05/14/2024 16:50	WG2283150
(T) Barium	112					30.0-143	05/14/2024 16:50	WG2283150
(T) Yttrium	108					30.0-136	05/14/2024 16:50	WG2283150

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.78		0.411	0.499	05/14/2024 16:50	WG2281006

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	0.667		0.330	0.160	0.274	0.192	05/09/2024 12:14	WG2281006
(T) Barium-133	96.4					30.0-143	05/09/2024 12:14	WG2281006

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	3.38		0.322	0.598	0.495	0.259	05/14/2024 16:50	WG2283150
(T) Barium	109					30.0-143	05/14/2024 16:50	WG2283150
(T) Yttrium	86.1					30.0-136	05/14/2024 16:50	WG2283150

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	4.49		0.539	0.568	05/14/2024 16:50	WG2281006

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	1.12		0.432	0.209	0.279	0.200	05/09/2024 12:14	WG2281006
(T) Barium-133	93.4					30.0-143	05/09/2024 12:14	WG2281006

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	4.09		0.379	0.704	0.581	0.304	05/14/2024 16:50	WG2283150
(T) Barium	84.9					30.0-143	05/14/2024 16:50	WG2283150
(T) Yttrium	87.8					30.0-136	05/14/2024 16:50	WG2283150

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	7.02		0.763	0.646	05/14/2024 16:50	WG2281006

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	2.93		0.662	0.313	0.282	0.198	05/09/2024 12:14	WG2281006
(T) Barium-133	87.1					30.0-143	05/09/2024 12:14	WG2281006

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	0.619	J	0.350	0.480	0.625	0.327	05/14/2024 16:50	WG2283150
(T) Barium	79.6					30.0-143	05/14/2024 16:50	WG2283150
(T) Yttrium	91.4					30.0-136	05/14/2024 16:50	WG2283150

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.846		0.427	0.705	05/14/2024 16:50	WG2281006

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	0.227	J	0.245	0.0857	0.327	0.222	05/09/2024 12:14	WG2281006
(T) Barium-133	75.0					30.0-143	05/09/2024 12:14	WG2281006

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	0.811		0.331	0.461	0.584	0.303	05/14/2024 16:50	WG2283150
(T) Barium	94.9					30.0-143	05/14/2024 16:50	WG2283150
(T) Yttrium	97.3					30.0-136	05/14/2024 16:50	WG2283150

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.75		0.501	0.644	05/14/2024 16:50	WG2281006

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	0.940		0.376	0.181	0.271	0.187	05/09/2024 12:14	WG2281006
(T) Barium-133	94.4					30.0-143	05/09/2024 12:14	WG2281006

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4070256-1 05/14/24 16:50

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.248	<u>U</u>	0.198	0.372	0.194
(T) Barium	102		102		
(T) Yttrium	89.5		89.5		

L1732347-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1732347-04 05/14/24 16:50 • (DUP) R4070256-5 05/14/24 16:50

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	0.619	0.350	0.625	0.327	-0.300	0.322	0.611	0.323	200	1.93	<u>U</u>	20	3
(T) Barium	79.6				84.0	84.0							
(T) Yttrium	91.4				97.9	97.9							

Laboratory Control Sample (LCS)

(LCS) R4070256-2 05/14/24 16:50

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	4.61	92.3	80.0-120	
(T) Barium			111		
(T) Yttrium			101		

L1732366-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1732366-01 05/14/24 16:50 • (MS) R4070256-3 05/14/24 16:50 • (MSD) R4070256-4 05/14/24 16:50

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	0.664	16.8	18.7	96.4	108	1	70.0-130			10.8		20
(T) Barium		101			112	118							
(T) Yttrium		94.9			91.2	78.2							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4067868-1 05/09/24 12:14

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	-0.0305	<u>U</u>	0.0556	0.131	0.0863
(T) Barium-133	70.2		70.2		

L1727514-05 Original Sample (OS) • Duplicate (DUP)

(OS) L1727514-05 05/09/24 12:14 • (DUP) R4067868-5 05/09/24 12:14

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	0.654	0.365	0.283	0.215	0.197	0.271	0.394	0.264	108	1.01	<u>J</u>	20	3
(T) Barium-133	79.3				87.4	87.4							

Laboratory Control Sample (LCS)

(LCS) R4067868-2 05/09/24 12:14

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.38	108	80.0-120	
(T) Barium-133			85.9		

L1727514-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727514-03 05/09/24 12:14 • (MS) R4067868-3 05/09/24 12:14 • (MSD) R4067868-4 05/09/24 12:14

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	-0.0347	22.4	20.8	112	104	1	75.0-125			7.41		20
(T) Barium-133		67.4			75.3	86.8							

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

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.

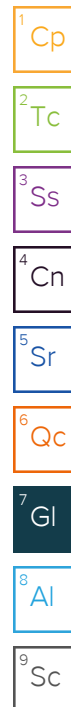
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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



ACCREDITATIONS & LOCATIONS

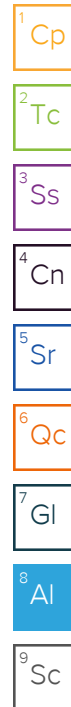
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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 ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	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 ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	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 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ 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
HE00278

B024

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

U732347

Sample: HE00278-01
Name: AW-11

Sampled: 05/01/24 14:33
Matrix: Ground Water
Preservative: HNO₃, pH <2

-01

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/14/24 16:00	10/28/24 14:33	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample: HE00278-02
Name: AW-14

Sampled: 05/01/24 13:20
Matrix: Ground Water
Preservative: HNO₃, pH <2

-02

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/14/24 16:00	10/28/24 13:20	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample: HE00278-03
Name: AW-15

Sampled: 05/01/24 11:10
Matrix: Ground Water
Preservative: HNO₃, pH <2

-03

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/14/24 16:00	10/28/24 11:10	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample: HE00278-04
Name: AW-15S

Sampled: 05/01/24 12:10
Matrix: Ground Water
Preservative: HNO₃, pH <2

-04

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/14/24 16:00	10/28/24 12:10	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample Receipt Checklist

COC Seal Present/Intact:	☒	☒	If Applicable
COC Signed/Accurate:	☒	☒	VOA Zero Headspace: ☒ Y ☒ N
Bottles active intact:	☒	☒	Pres. Correct/Check: ☒ Y ☒ N
Correct bottles used:	☒	☒	
Sufficient volume sent:	☒	☒	
RA Screen <0.5 mR/hr:	☒	☒	

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
HE00278

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

U732347

Sample: HE00278-05
Name: AW-17

Sampled: 05/01/24 15:49
Matrix: Ground Water
Preservative: HNO3, pH <2

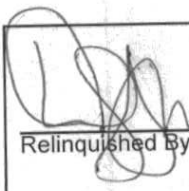
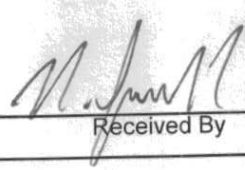
-05

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/14/24 16:00	10/28/24 15:49	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

TAS
18.7 + 0.1 = 18.8

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 5/2/24 Total # of Containers: 5 Sample Origin (State): IL PO #: _____
Turn-Around Time Requested ☐ NORMAL ☐ RUSH Date Results Needed: _____

	<u>5/2/24 0900</u>	Relinquished By	Date/Time		Received By	Date/Time	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

June 04, 2024

Pace IR - Peoria, IL

Sample Delivery Group: L1733366
Samples Received: 05/07/2024
Project Number: HE00567
Description:
Site: 001
Report To: Diane Billings
2231 W. Altorfer Drive
Peoria, IL 61615

Entire Report Reviewed By:



Stephanie M Coble
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 mydata.pacelabs.com

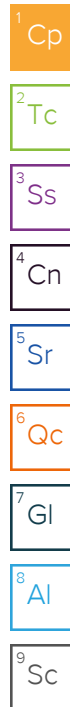


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⁸Al

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SAMPLE SUMMARY

HE00567-01 L1733366-01 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2286643	1	05/15/24 11:42	05/21/24 20:23	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2286162	1	05/15/24 12:17	05/21/24 20:23	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2286162	1	05/15/24 12:17	05/17/24 19:14	ZRG	Mt. Juliet, TN

Collected by
Collected date/time
05/02/24 11:34
Received date/time
05/07/24 09:00



HE00567-02 L1733366-02 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2286643	1	05/15/24 11:42	05/21/24 20:23	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2286162	1	05/15/24 12:17	05/21/24 20:23	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2286162	1	05/15/24 12:17	05/17/24 19:14	ZRG	Mt. Juliet, TN

Collected by
Collected date/time
05/02/24 11:34
Received date/time
05/07/24 09:00

HE00567-03 L1733366-03 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2286162	1	05/15/24 12:17	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2286162	1	05/15/24 12:17	05/17/24 19:14	ZRG	Mt. Juliet, TN

Collected by
Collected date/time
05/02/24 16:18
Received date/time
05/07/24 09:00

HE00567-04 L1733366-04 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2286162	1	05/15/24 12:17	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2286162	1	05/15/24 12:17	05/17/24 19:14	ZRG	Mt. Juliet, TN

Collected by
Collected date/time
05/02/24 12:48
Received date/time
05/07/24 09:00

HE00567-05 L1733366-05 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2286162	1	05/15/24 12:17	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2286162	1	05/15/24 12:17	05/17/24 19:14	ZRG	Mt. Juliet, TN

Collected by
Collected date/time
05/02/24 14:55
Received date/time
05/07/24 09:00

HE00567-06 L1733366-06 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2286162	1	05/15/24 12:17	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2286162	1	05/15/24 12:17	05/17/24 19:14	ZRG	Mt. Juliet, TN

Collected by
Collected date/time
05/02/24 14:55
Received date/time
05/07/24 09:00

SAMPLE SUMMARY

Collected by
Collected date/time
Received date/time

05/02/24 16:3005/07/24 09:00

HE00567-07 L1733366-07 Non-Potable Water

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Radiochemistry by Method 904/9320	WG2287284	1	05/21/24 08:25	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method Calculation	WG2286162	1	05/15/24 12:17	05/23/24 20:56	DDD	Mt. Juliet, TN
Radiochemistry by Method SM7500Ra B M	WG2286162	1	05/15/24 12:17	05/17/24 19:14	ZRG	Mt. Juliet, TN

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

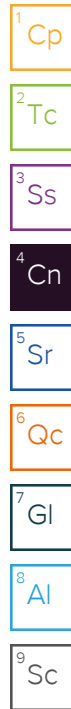
9Sc

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.



Stephanie M Coble
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	1.41		0.282	0.402	0.468	0.249	05/21/2024 20:23	WG2286643
(T) Barium	73.4					30.0-143	05/21/2024 20:23	WG2286643
(T) Yttrium	97.4					30.0-136	05/21/2024 20:23	WG2286643

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.77		0.384	0.515	05/21/2024 20:23	WG2286162

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	0.361		0.260	0.108	0.214	0.176	05/17/2024 19:14	WG2286162
(T) Barium-133	81.8					30.0-143	05/17/2024 19:14	WG2286162

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	0.459		0.224	0.330	0.397	0.211	05/21/2024 20:23	WG2286643
(T) Barium	87.4					30.0-143	05/21/2024 20:23	WG2286643
(T) Yttrium	107					30.0-136	05/21/2024 20:23	WG2286643

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.765		0.308	0.413	05/21/2024 20:23	WG2286162

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	0.306		0.212	0.0979	0.115	0.115	05/17/2024 19:14	WG2286162
(T) Barium-133	89.8					30.0-143	05/17/2024 19:14	WG2286162

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	0.0657	U	0.251	0.350	0.451	0.236	05/23/2024 20:56	WG2287284
(T) Barium	111					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	98.6					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.468	J	0.370	0.498	05/23/2024 20:56	WG2286162

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	0.402		0.272	0.0956	0.211	0.174	05/17/2024 19:14	WG2286162
(T) Barium-133	68.9					30.0-143	05/17/2024 19:14	WG2286162

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	0.807	J	0.806	0.924	1.43	0.748	05/23/2024 20:56	WG2287284
(T) Barium	118					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	74.4					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	1.32	J	0.857	1.45	05/23/2024 20:56	WG2286162

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	0.510		0.290	0.125	0.214	0.168	05/17/2024 19:14	WG2286162
(T) Barium-133	84.1					30.0-143	05/17/2024 19:14	WG2286162

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	0.678	J	0.652	0.755	1.16	0.605	05/23/2024 20:56	WG2287284
(T) Barium	111					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	93.1					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	2.53		0.836	1.19	05/23/2024 20:56	WG2286162

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	1.86		0.524	0.251	0.245	0.178	05/17/2024 19:14	WG2286162
(T) Barium-133	90.0					30.0-143	05/17/2024 19:14	WG2286162

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	1.49		0.653	0.756	1.14	0.594	05/23/2024 20:56	WG2287284
(T) Barium	125					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	93.3					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	3.77		0.871	1.16	05/23/2024 20:56	WG2286162

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	2.28		0.577	0.286	0.215	0.164	05/17/2024 19:14	WG2286162
(T) Barium-133	91.6					30.0-143	05/17/2024 19:14	WG2286162

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

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	-0.373	U	0.314	0.418	0.574	0.299	05/23/2024 20:56	WG2287284
(T) Barium	112					30.0-143	05/23/2024 20:56	WG2287284
(T) Yttrium	91.3					30.0-136	05/23/2024 20:56	WG2287284

Radiochemistry by Method Calculation

Analyte	Result	Qualifier	Uncertainty	MDA	Analysis Date	Batch
	pCi/l		+ / -	pCi/l	date / time	
Combined Radium	0.307	J	0.394	0.611	05/23/2024 20:56	WG2286162

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	0.307		0.238	0.0914	0.209	0.172	05/17/2024 19:14	WG2286162
(T) Barium-133	75.6					30.0-143	05/17/2024 19:14	WG2286162

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4072968-1 05/21/24 20:23

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	0.693		0.185	0.318	0.167
(T) Barium	91.0		91.0		
(T) Yttrium	91.6		91.6		

L1728414-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1728414-07 05/21/24 20:23 • (DUP) R4072968-5 05/21/24 20:23

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	1.55	0.348	0.593	0.310	1.09	0.422	0.741	0.387	34.7	0.837		20	3
(T) Barium	86.8				90.7	90.7							
(T) Yttrium	86.3				99.9	99.9							

Laboratory Control Sample (LCS)

(LCS) R4072968-2 05/21/24 20:23

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.74	115	80.0-120	
(T) Barium			89.7		
(T) Yttrium			96.9		

L1728414-21 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1728414-21 05/21/24 20:23 • (MS) R4072968-3 05/21/24 20:23 • (MSD) R4072968-4 05/21/24 20:23

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	3.59	21.3	20.2	106	99.1	1	70.0-130			5.36		20
(T) Barium		89.4			89.4	93.9							
(T) Yttrium		94.3			99.6	98.1							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4074757-1 05/23/24 20:56

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-228	-0.152	<u>U</u>	0.198	0.363	0.190
(T) Barium	110		110		
(T) Yttrium	91.5		91.5		

L1732520-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1732520-03 05/23/24 20:56 • (DUP) R4074757-5 05/23/24 20:56

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	0.288	0.214	0.381	0.202	0.770	0.282	0.486	0.260	91.1	1.36		20	3
(T) Barium	110				113	113							
(T) Yttrium	89.5				88.2	88.2							

Laboratory Control Sample (LCS)

(LCS) R4074757-2 05/23/24 20:56

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-228	5.00	5.67	113	80.0-120	
(T) Barium			103		
(T) Yttrium			88.6		

L1732520-02 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1732520-02 05/23/24 20:56 • (MS) R4074757-3 05/23/24 20:56 • (MSD) R4074757-4 05/23/24 20:56

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	0.0750	18.2	17.4	108	104	1	70.0-130			4.27		20
(T) Barium		94.1			98.6	97.7							
(T) Yttrium		79.7			95.1	90.6							

1Cp

2Tc

3Ss

4Cn

5Sr

6Qc

7Gl

8Al

9Sc

Method Blank (MB)

(MB) R4071512-1 05/17/24 19:14

Analyte	MB Result pCi/l	MB Qualifier	MB 2 sigma CE + / -	MB MDA pCi/l	MB Lc pCi/l
Radium-226	0.0371	<u>U</u>	0.0788	0.125	0.0826
(T) Barium-133	73.3		73.3		

L1733369-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1733369-01 05/17/24 19:14 • (DUP) R4071512-5 05/17/24 19:14

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	0.290	0.254	0.174	0.174	0.570	0.399	0.440	0.296	65.1	0.592		20	3
(T) Barium-133	57.2				78.1	78.1							

Laboratory Control Sample (LCS)

(LCS) R4071512-2 05/17/24 19:14

Analyte	Spike Amount pCi/l	LCS Result pCi/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Radium-226	5.00	5.40	108	80.0-120	
(T) Barium-133			71.0		

L1727916-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1727916-04 05/17/24 19:14 • (MS) R4071512-3 05/17/24 19:14 • (MSD) R4071512-4 05/17/24 19:14

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	0.116	21.2	18.6	105	92.5	1	75.0-125			12.7		20
(T) Barium-133		81.0			61.2	76.8							

Cp

Tc

Ss

Cn

Sr

Qc

Gl

Al

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.

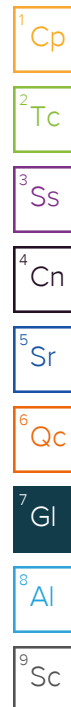
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location.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



ACCREDITATIONS & LOCATIONS

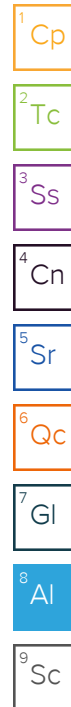
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

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 ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	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 ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	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 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA--Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ 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.



CONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
HE00567

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

A160

LT333100

Sample: HE00567-01
Name: AW-06

Sampled: 05/02/24 11:34
Matrix: Ground Water
Preservative: HNO3, pH <2

-01

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/15/24 16:00	10/29/24 11:34	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample: HE00567-02
Name: AW-06 DUP

Sampled: 05/02/24 11:34
Matrix: Ground Water
Preservative: HNO3, pH <2

-02

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/15/24 16:00	10/29/24 11:34	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample: HE00567-03
Name: AW-08

Sampled: 05/02/24 16:18
Matrix: Ground Water
Preservative: HNO3, pH <2

-03

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/15/24 16:00	10/29/24 16:18	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample: HE00567-04
Name: AW-09

Sampled: 05/02/24 12:48
Matrix: Ground Water
Preservative: HNO3, pH <2

-04

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/15/24 16:00	10/29/24 12:48	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

SUBCONTRACT ORDER
Transfer Chain of Custody

Pace Analytical Services, LLC
HE00567

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

U733360

Sample: HE00567-05
Name: AW-10

Sampled: 05/02/24 14:55
Matrix: Ground Water
Preservative: HNO₃, pH <2

-05

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/15/24 16:00	10/29/24 14:55	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample: HE00567-06
Name: AW-10 DUP

Sampled: 05/02/24 14:55
Matrix: Ground Water
Preservative: HNO₃, pH <2

-06

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/15/24 16:00	10/29/24 14:55	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Sample: HE00567-07
Name: FIELD BLANK

Sampled: 05/02/24 16:30
Matrix: DI Water
Preservative: HNO₃, pH <2

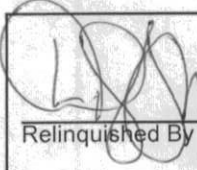
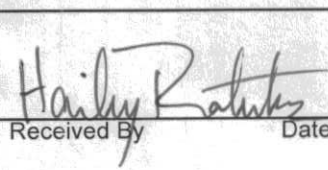
-07

Analysis	Due	Expires	Comments
01-Radium 226/228 combined	05/15/24 16:00	10/29/24 16:30	need Ra-226 , Ra-228, total combined and QC. 10 Day TAT

Please email results to Diane Billings at diane.billings@pacelabs.com

Date Shipped: 5/6/24 Total # of Containers: 7 Sample Origin (State): IL PO #: _____

Turn-Around Time Requested ☐ NORMAL ☐ RUSH Date Results Needed: _____

				Sample Temperature Upon Receipt	_____ °C
Relinquished By	Date/Time	Received By	Date/Time	Sample(s) Received on Ice	Y or N
	5/6/24 1000		5/12/24 0900	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
Sample Receipt Checklist					
COC Seal Present/Intact: ☒		If Applicable: ☒			
COC Signed/Accurate: ☒		VOA Zero Headspace: ☒			
Bottles arrive intact: ☒		Pres. Correct/Check: ☒			
Correct bottles used: ☒					
Sufficient volume sent: ☒					
RA Screen <0.5 mR/hr: ☒					
19.5+0.1=19.6 ED AL0 7762 4943 2100					

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Section D Required Client Information	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 ↑ Y/N ↑	EDW-257-301	EDW-845-301	Residual Chlorine (Y/N)	Project No./ Lab I.D.
	MATRIX	CODE			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other							
SAMPLE ID (A-Z, 0-9 / . -) Sample IDs MUST BE UNIQUE	DRINKING WATER	DW	WT G	G	4/30/24	16:15		4	X														
	WATER	WT	WT G	G	4/30/24	15:01		4	X														
	WASTE WATER	WW	WT G	G	4/30/24	11:30		4	X														
	PRODUCT	P	WT G	G	4/30/24	13:15		4	X														
	SOIL/SOLID	SL																					
	OTHER	OT																					
	WASTE	WA																					
	AIR	AR																					
	OTHER	OT																					
	TESSUE	TS																					
	AP05S		WT	G																			
	AP07S		WT	G																			
	AW-01	10 Dup	WT	G																			
	AW-05	51094	WT	G																			
	AW-06																						
AW-08																							
AW-09																							
AW-10																							
AW-11																							
AW-14																							
AW-15																							
AW-15S																							
AW-16		WT	G	G	4/30/24	16:37		4	X														
AW-17																							
AW-18		WT	G	G	4/30/24	13:55		4	X														
AW-19		WT	G	G	4/30/24	17:26		4	X														

	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
ADDITIONAL COMMENTS EDW-24Q2-Rev 0	Dwight M.	4/30/94	1743	[Signature]	4/30/94	1743	Temp In °C. Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
SAMPLER NAME AND SIGNATURE							
PRINT Name of SAMPLER:						Austin Morse	
SIGNATURE of SAMPLER:						Dwight M.	DT/30/94

HE00278
km

Section A Required Client Information				Section B Required Project Information				Section C Invoice Information				
Company:	Vistra Corp-Edwards	Report To:	Brian Voelker	Attention:	Mark Davis	Invoice Information:			Page:	1	of	2
Address:	7800 Citco Lane	Copy To:	Sam Davies-samantha.davies@vistracorp.com	Company Name:	Vistra Corp-Edwards							
City:	Peoria, IL 61607		Mark Davis-Mark.Davis1@vistracorp.com	Address:	see Section A							
Email To:	HE00278@VISTRA.CORP.COM	Purchase Order No.:		Quote Reference:								
Phone:	(217) 753-4911	Print Name:		Project Manager:								
Fax:		Project Number:	2285	Profile #								
Requested Due Date/TAT:				10 day								

Section D Required Client Information		Valid Matrix Codes		Matrix Code		Sample ID		Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.	
Item #	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code	Matrix Code
1	AP05S	DRINKING WATER	DRINKING WATER	DRINKING WATER	DRINKING WATER	DRINKING WATER	DRINKING WATER	DRINKING WATER	DRINKING WATER	DRINKING WATER	DRINKING WATER
2	AP07S	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER	WASTE WATER
3	AW-01	PRETREAT	PRETREAT	PRETREAT	PRETREAT	PRETREAT	PRETREAT	PRETREAT	PRETREAT	PRETREAT	PRETREAT
4	AW-05	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE	SOLUBLE
5	AW-06	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
6	AW-08	AIR	AIR	AIR	AIR	AIR	AIR	AIR	AIR	AIR	AIR
7	AW-09	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER
8	AW-10	TISSUE	TISSUE	TISSUE	TISSUE	TISSUE	TISSUE	TISSUE	TISSUE	TISSUE	TISSUE
9	AW-11										
10	AW-14										
11	AW-15										
12	AW-15S										
13	AW-16										
14	AW-17										
15	AW-18										
16	AW-19										

Section E Additional Comments		Relinquished By / Affiliation		Date		Time		Accepted By / Affiliation		Date		Time		Sample Conditions	
EDW-24Q2-Rev 0		[Signature]		5/11/24		1641		[Signature]		5/12/24		1641		5.3	
		[Signature]		5/11/24		1641		[Signature]		5/12/24		1641		5.3	

Section F Sampler Name and Signature		Date Signed		MM/DD/YY	
PRINT Name of Sampler:	Arman Popalator	DATE Signed	5/12/24	MM/DD/YY	05/12/24
SIGNATURE of Sampler:	[Signature]				

Carried

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ATTACHMENT C
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND
QUARTER 2, 2024

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AP07S	PMP	E005	Antimony, total	mg/L	02/10/21 - 04/30/24	14	100	All ND - Last	0.003	0.003
AP07S	PMP	E005	Arsenic, total	mg/L	02/10/21 - 04/30/24	14	86	CI around median	0.001	0.0300
AP07S	PMP	E005	Barium, total	mg/L	02/10/21 - 04/30/24	14	0	CI around mean	0.072	2.07
AP07S	PMP	E005	Beryllium, total	mg/L	02/10/21 - 04/30/24	14	100	All ND - Last	0.001	0.00190
AP07S	PMP	E005	Boron, total	mg/L	02/10/21 - 04/30/24	14	0	CB around linear reg	8.75	0.535
AP07S	PMP	E005	Cadmium, total	mg/L	02/10/21 - 04/30/24	14	86	CI around median	0.001	0.00100
AP07S	PMP	E005	Chloride, total	mg/L	02/10/21 - 04/30/24	14	0	CI around median	73	56.0
AP07S	PMP	E005	Chromium, total	mg/L	02/10/21 - 04/30/24	14	71	CI around median	0.004	0.0480
AP07S	PMP	E005	Cobalt, total	mg/L	02/10/21 - 04/30/24	14	7	CI around mean	0.00217	0.0280
AP07S	PMP	E005	Fluoride, total	mg/L	02/10/21 - 04/30/24	14	71	CI around median	0.25	0.396
AP07S	PMP	E005	Lead, total	mg/L	02/10/21 - 04/30/24	14	64	CI around median	0.001	0.0330
AP07S	PMP	E005	Lithium, total	mg/L	02/10/21 - 04/30/24	14	100	All ND - Last	0.02	0.0710
AP07S	PMP	E005	Mercury, total	mg/L	02/10/21 - 04/30/24	14	93	CI around median	0.0002	0.0002
AP07S	PMP	E005	Molybdenum, total	mg/L	02/10/21 - 04/30/24	14	50	CI around median	0.001	0.00620
AP07S	PMP	E005	pH (field)	SU	02/10/21 - 04/30/24	14	0	CI around mean	6.6/7.0	6.3/7.1
AP07S	PMP	E005	Radium 226 + Radium 228, total	pCi/L	02/10/21 - 04/30/24	14	0	CI around mean	0.567	9.60
AP07S	PMP	E005	Selenium, total	mg/L	02/10/21 - 04/30/24	14	100	All ND - Last	0.001	0.00320
AP07S	PMP	E005	Sulfate, total	mg/L	02/10/21 - 04/30/24	14	0	CI around mean	227	6.48
AP07S	PMP	E005	Thallium, total	mg/L	02/10/21 - 04/30/24	14	100	All ND - Last	0.001	0.001
AP07S	PMP	E005	Total Dissolved Solids	mg/L	02/10/21 - 04/30/24	14	0	CI around mean	834	1,050
AW-01	PMP	E005	Antimony, total	mg/L	11/18/22 - 04/30/24	9	100	All ND - Last	0.003	0.003
AW-01	PMP	E005	Arsenic, total	mg/L	11/18/22 - 04/30/24	9	0	CI around mean	0.00263	0.0300
AW-01	PMP	E005	Barium, total	mg/L	11/18/22 - 04/30/24	9	0	CI around mean	0.0979	2.07
AW-01	PMP	E005	Beryllium, total	mg/L	11/18/22 - 04/30/24	9	100	All ND - Last	0.001	0.00190
AW-01	PMP	E005	Boron, total	mg/L	11/18/22 - 04/30/24	9	0	CI around median	0.072	0.535
AW-01	PMP	E005	Cadmium, total	mg/L	11/18/22 - 04/30/24	9	100	All ND - Last	0.001	0.00100
AW-01	PMP	E005	Chloride, total	mg/L	11/18/22 - 04/30/24	9	0	CI around median	10	56.0

ATTACHMENT C.
COMPARISON OF STATISTICAL RESULTS TO BACKGROUND - QUARTER 2, 2024
845 QUARTERLY REPORT
EDWARDS POWER PLANT
ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-01	PMP	E005	Chromium, total	mg/L	11/18/22 - 04/30/24	9	78	CI around median	0.004	0.0480
AW-01	PMP	E005	Cobalt, total	mg/L	11/18/22 - 04/30/24	9	22	CI around mean	0.00251	0.0280
AW-01	PMP	E005	Fluoride, total	mg/L	11/18/22 - 04/30/24	9	56	CI around median	0.25	0.396
AW-01	PMP	E005	Lead, total	mg/L	11/18/22 - 04/30/24	9	78	CI around median	0.001	0.0330
AW-01	PMP	E005	Lithium, total	mg/L	11/18/22 - 04/30/24	9	100	All ND - Last	0.02	0.0710
AW-01	PMP	E005	Mercury, total	mg/L	11/18/22 - 04/30/24	9	100	All ND - Last	0.0002	0.0002
AW-01	PMP	E005	Molybdenum, total	mg/L	11/18/22 - 04/30/24	9	0	CI around mean	0.00275	0.00620
AW-01	PMP	E005	pH (field)	SU	11/18/22 - 04/30/24	9	0	CI around mean	6.7/7.1	6.3/7.1
AW-01	PMP	E005	Radium 226 + Radium 228, total	pCi/L	11/18/22 - 04/30/24	9	0	CI around median	0.288	9.60
AW-01	PMP	E005	Selenium, total	mg/L	11/18/22 - 04/30/24	9	89	CI around median	0.001	0.00320
AW-01	PMP	E005	Sulfate, total	mg/L	11/18/22 - 04/30/24	9	0	CI around median	41	6.48
AW-01	PMP	E005	Thallium, total	mg/L	11/18/22 - 04/30/24	9	100	All ND - Last	0.001	0.001
AW-01	PMP	E005	Total Dissolved Solids	mg/L	11/18/22 - 04/30/24	9	0	CI around mean	740	1,050
AW-05	UA	E005	Antimony, total	mg/L	11/09/15 - 04/30/24	18	94	Most recent sample	0.003	0.003
AW-05	UA	E005	Arsenic, total	mg/L	11/09/15 - 04/30/24	18	0	CI around median	0.0035	0.0300
AW-05	UA	E005	Barium, total	mg/L	11/09/15 - 04/30/24	18	0	CI around geomean	0.137	2.07
AW-05	UA	E005	Beryllium, total	mg/L	11/09/15 - 04/30/24	17	88	CI around median	0.001	0.00190
AW-05	UA	E005	Boron, total	mg/L	11/09/15 - 04/30/24	19	0	CB around T-S line	2.97	0.535
AW-05	UA	E005	Cadmium, total	mg/L	11/09/15 - 04/30/24	18	89	CI around median	0.001	0.00100
AW-05	UA	E005	Chloride, total	mg/L	11/09/15 - 04/30/24	19	0	CB around linear reg	-121	56.0
AW-05	UA	E005	Chromium, total	mg/L	11/09/15 - 04/30/24	18	33	CI around geomean	0.00559	0.0480
AW-05	UA	E005	Cobalt, total	mg/L	11/09/15 - 04/30/24	18	17	CI around geomean	0.0035	0.0280
AW-05	UA	E005	Fluoride, total	mg/L	11/09/15 - 04/30/24	19	58	CI around median	0.25	0.396
AW-05	UA	E005	Lead, total	mg/L	11/09/15 - 04/30/24	17	29	CI around geomean	0.0018	0.0330
AW-05	UA	E005	Lithium, total	mg/L	11/09/15 - 04/30/24	18	33	CI around median	0.02	0.0710
AW-05	UA	E005	Mercury, total	mg/L	11/09/15 - 04/30/24	18	94	CI around median	0.0002	0.0002
AW-05	UA	E005	Molybdenum, total	mg/L	11/09/15 - 04/30/24	18	0	CI around mean	0.00206	0.00620

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-05	UA	E005	pH (field)	SU	11/09/15 - 04/30/24	19	0	CI around mean	6.9/7.1	6.3/7.1
AW-05	UA	E005	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 04/30/24	18	0	CI around mean	0.746	9.60
AW-05	UA	E005	Selenium, total	mg/L	11/09/15 - 04/30/24	18	56	CI around median	0.001	0.00320
AW-05	UA	E005	Sulfate, total	mg/L	11/09/15 - 04/30/24	19	0	CI around median	280	6.48
AW-05	UA	E005	Thallium, total	mg/L	11/09/15 - 04/30/24	17	100	All ND - Last	0.001	0.001
AW-05	UA	E005	Total Dissolved Solids	mg/L	11/09/15 - 04/30/24	19	0	CI around mean	1,030	1,050
AW-06	UA	E005	Antimony, total	mg/L	11/10/15 - 05/02/24	19	100	All ND - Last	0.003	0.003
AW-06	UA	E005	Arsenic, total	mg/L	11/10/15 - 05/02/24	24	0	CI around geomean	0.00323	0.0300
AW-06	UA	E005	Barium, total	mg/L	11/10/15 - 05/02/24	24	0	CI around median	0.18	2.07
AW-06	UA	E005	Beryllium, total	mg/L	11/10/15 - 05/02/24	24	88	CI around median	0.001	0.00190
AW-06	UA	E005	Boron, total	mg/L	11/10/15 - 05/02/24	25	0	CB around linear reg	0.0564	0.535
AW-06	UA	E005	Cadmium, total	mg/L	11/10/15 - 05/02/24	19	100	All ND - Last	0.001	0.00100
AW-06	UA	E005	Chloride, total	mg/L	11/10/15 - 05/02/24	25	0	CB around T-S line	13.9	56.0
AW-06	UA	E005	Chromium, total	mg/L	11/10/15 - 05/02/24	24	54	CI around median	0.004	0.0480
AW-06	UA	E005	Cobalt, total	mg/L	11/10/15 - 05/02/24	24	58	CI around median	0.002	0.0280
AW-06	UA	E005	Fluoride, total	mg/L	11/10/15 - 05/02/24	25	8	CB around T-S line	0.197	0.396
AW-06	UA	E005	Lead, total	mg/L	11/10/15 - 05/02/24	24	38	CI around median	0.001	0.0330
AW-06	UA	E005	Lithium, total	mg/L	11/10/15 - 05/02/24	24	50	CI around median	0.02	0.0710
AW-06	UA	E005	Mercury, total	mg/L	11/10/15 - 05/02/24	19	95	CI around median	0.0002	0.0002
AW-06	UA	E005	Molybdenum, total	mg/L	11/10/15 - 05/02/24	24	0	CI around mean	0.00492	0.00620
AW-06	UA	E005	pH (field)	SU	11/10/15 - 05/02/24	25	0	CI around median	7.1/7.3	6.3/7.1
AW-06	UA	E005	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 05/02/24	24	0	CI around mean	0.747	9.60
AW-06	UA	E005	Selenium, total	mg/L	11/10/15 - 05/02/24	24	75	CI around median	0.001	0.00320
AW-06	UA	E005	Sulfate, total	mg/L	11/10/15 - 05/02/24	25	0	CB around linear reg	17.7	6.48
AW-06	UA	E005	Thallium, total	mg/L	11/10/15 - 05/02/24	19	100	All ND - Last	0.001	0.001
AW-06	UA	E005	Total Dissolved Solids	mg/L	11/10/15 - 05/02/24	25	0	CI around mean	514	1,050
AW-09	UA	E005	Antimony, total	mg/L	11/10/15 - 05/02/24	19	100	All ND - Last	0.003	0.003

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AW-09	UA	E005	Arsenic, total	mg/L	11/10/15 - 05/02/24	24	12	CI around mean	0.0119	0.0300
AW-09	UA	E005	Barium, total	mg/L	11/10/15 - 05/02/24	24	0	CI around geomean	0.296	2.07
AW-09	UA	E005	Beryllium, total	mg/L	11/10/15 - 05/02/24	24	83	CB around T-S line	-0.000284	0.00190
AW-09	UA	E005	Boron, total	mg/L	11/10/15 - 05/02/24	25	0	CB around linear reg	-0.0858	0.535
AW-09	UA	E005	Cadmium, total	mg/L	11/10/15 - 05/02/24	19	90	CI around median	0.001	0.00100
AW-09	UA	E005	Chloride, total	mg/L	11/10/15 - 05/02/24	25	0	CI around median	27	56.0
AW-09	UA	E005	Chromium, total	mg/L	11/10/15 - 05/02/24	24	58	CB around T-S line	-0.0427	0.0480
AW-09	UA	E005	Cobalt, total	mg/L	11/10/15 - 05/02/24	24	4	CB around T-S line	-0.0219	0.0280
AW-09	UA	E005	Fluoride, total	mg/L	11/10/15 - 05/02/24	25	64	CB around T-S line	0.179	0.396
AW-09	UA	E005	Lead, total	mg/L	11/10/15 - 05/02/24	24	46	CB around T-S line	-0.0235	0.0330
AW-09	UA	E005	Lithium, total	mg/L	11/10/15 - 05/02/24	24	38	CB around T-S line	-0.039	0.0710
AW-09	UA	E005	Mercury, total	mg/L	11/10/15 - 05/02/24	19	95	CI around median	0.0002	0.0002
AW-09	UA	E005	Molybdenum, total	mg/L	11/10/15 - 05/02/24	24	0	CI around mean	0.0143	0.00620
AW-09	UA	E005	pH (field)	SU	11/10/15 - 05/02/24	25	0	CB around linear reg	6.9/7.2	6.3/7.1
AW-09	UA	E005	Radium 226 + Radium 228, total	pCi/L	11/10/15 - 05/02/24	24	0	CI around median	0.771	9.60
AW-09	UA	E005	Selenium, total	mg/L	11/10/15 - 05/02/24	24	67	CB around T-S line	-0.00143	0.00320
AW-09	UA	E005	Sulfate, total	mg/L	11/10/15 - 05/02/24	25	56	CB around T-S line	-24.4	6.48
AW-09	UA	E005	Thallium, total	mg/L	11/10/15 - 05/02/24	19	95	CI around median	0.001	0.001
AW-09	UA	E005	Total Dissolved Solids	mg/L	11/10/15 - 05/02/24	25	0	CB around T-S line	756	1,050
AW-10	UA	E005	Antimony, total	mg/L	11/09/15 - 05/02/24	20	100	All ND - Last	0.003	0.003
AW-10	UA	E005	Arsenic, total	mg/L	11/09/15 - 05/02/24	25	0	CI around median	0.0099	0.0300
AW-10	UA	E005	Barium, total	mg/L	11/09/15 - 05/02/24	25	0	CI around median	0.93	2.07
AW-10	UA	E005	Beryllium, total	mg/L	11/09/15 - 05/02/24	25	76	CI around median	0.001	0.00190
AW-10	UA	E005	Boron, total	mg/L	11/09/15 - 05/02/24	26	0	CI around mean	0.462	0.535
AW-10	UA	E005	Cadmium, total	mg/L	11/09/15 - 05/02/24	20	95	CI around median	0.001	0.00100
AW-10	UA	E005	Chloride, total	mg/L	11/09/15 - 05/02/24	26	0	CI around geomean	87.1	56.0
AW-10	UA	E005	Chromium, total	mg/L	11/09/15 - 05/02/24	25	32	CI around median	0.004	0.0480

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AW-10	UA	E005	Cobalt, total	mg/L	11/09/15 - 05/02/24	25	4	CI around geomean	0.00393	0.0280
AW-10	UA	E005	Fluoride, total	mg/L	11/09/15 - 05/02/24	26	96	CI around median	0.25	0.396
AW-10	UA	E005	Lead, total	mg/L	11/09/15 - 05/02/24	25	12	CI around geomean	0.0021	0.0330
AW-10	UA	E005	Lithium, total	mg/L	11/09/15 - 05/02/24	25	0	CB around T-S line	-0.02	0.0710
AW-10	UA	E005	Mercury, total	mg/L	11/09/15 - 05/02/24	20	95	CI around median	0.0002	0.0002
AW-10	UA	E005	Molybdenum, total	mg/L	11/09/15 - 05/02/24	25	24	CI around median	0.0011	0.00620
AW-10	UA	E005	pH (field)	SU	11/09/15 - 05/02/24	27	0	CI around mean	6.9/7.1	6.3/7.1
AW-10	UA	E005	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 05/02/24	25	0	CI around mean	2.32	9.60
AW-10	UA	E005	Selenium, total	mg/L	11/09/15 - 05/02/24	25	64	CI around median	0.001	0.00320
AW-10	UA	E005	Sulfate, total	mg/L	11/09/15 - 05/02/24	26	81	CB around T-S line	0.825	6.48
AW-10	UA	E005	Thallium, total	mg/L	11/09/15 - 05/02/24	20	95	CI around median	0.001	0.001
AW-10	UA	E005	Total Dissolved Solids	mg/L	11/09/15 - 05/02/24	26	0	CB around T-S line	1,100	1,050
AW-11	UA	E005	Antimony, total	mg/L	11/09/15 - 05/01/24	19	100	All ND - Last	0.003	0.003
AW-11	UA	E005	Arsenic, total	mg/L	11/09/15 - 05/01/24	24	0	CI around geomean	0.00897	0.0300
AW-11	UA	E005	Barium, total	mg/L	11/09/15 - 05/01/24	24	0	CI around geomean	0.871	2.07
AW-11	UA	E005	Beryllium, total	mg/L	11/09/15 - 05/01/24	24	79	CI around median	0.001	0.00190
AW-11	UA	E005	Boron, total	mg/L	11/09/15 - 05/01/24	25	0	CI around mean	0.224	0.535
AW-11	UA	E005	Cadmium, total	mg/L	11/09/15 - 05/01/24	19	84	CI around median	0.001	0.00100
AW-11	UA	E005	Chloride, total	mg/L	11/09/15 - 05/01/24	25	0	CI around mean	31.3	56.0
AW-11	UA	E005	Chromium, total	mg/L	11/09/15 - 05/01/24	24	54	CB around T-S line	-0.018	0.0480
AW-11	UA	E005	Cobalt, total	mg/L	11/09/15 - 05/01/24	24	29	CB around T-S line	-0.00886	0.0280
AW-11	UA	E005	Fluoride, total	mg/L	11/09/15 - 05/01/24	25	88	CI around median	0.25	0.396
AW-11	UA	E005	Lead, total	mg/L	11/09/15 - 05/01/24	24	38	CB around T-S line	-0.0111	0.0330
AW-11	UA	E005	Lithium, total	mg/L	11/09/15 - 05/01/24	24	17	CB around T-S line	-0.0136	0.0710
AW-11	UA	E005	Mercury, total	mg/L	11/09/15 - 05/01/24	19	100	All ND - Last	0.0002	0.0002
AW-11	UA	E005	Molybdenum, total	mg/L	11/09/15 - 05/01/24	24	8	CB around linear reg	-0.00126	0.00620
AW-11	UA	E005	pH (field)	SU	11/09/15 - 05/01/24	25	0	CI around median	6.9/7.2	6.3/7.1

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AW-11	UA	E005	Radium 226 + Radium 228, total	pCi/L	11/09/15 - 05/01/24	24	0	CI around geomean	1.57	9.60
AW-11	UA	E005	Selenium, total	mg/L	11/09/15 - 05/01/24	24	71	CB around T-S line	0.000173	0.00320
AW-11	UA	E005	Sulfate, total	mg/L	11/09/15 - 05/01/24	25	68	CB around T-S line	0.14	6.48
AW-11	UA	E005	Thallium, total	mg/L	11/09/15 - 05/01/24	19	100	All ND - Last	0.001	0.001
AW-11	UA	E005	Total Dissolved Solids	mg/L	11/09/15 - 05/01/24	25	0	CB around T-S line	938	1,050
AW-14	UA	E005	Antimony, total	mg/L	02/11/21 - 05/01/24	13	92	CI around median	0.003	0.003
AW-14	UA	E005	Arsenic, total	mg/L	02/11/21 - 05/01/24	13	0	CB around linear reg	-0.000327	0.0300
AW-14	UA	E005	Barium, total	mg/L	02/11/21 - 05/01/24	13	0	CI around mean	0.625	2.07
AW-14	UA	E005	Beryllium, total	mg/L	02/11/21 - 05/01/24	13	100	All ND - Last	0.001	0.00190
AW-14	UA	E005	Boron, total	mg/L	02/11/21 - 05/01/24	13	0	CI around median	0.17	0.535
AW-14	UA	E005	Cadmium, total	mg/L	02/11/21 - 05/01/24	13	100	All ND - Last	0.001	0.00100
AW-14	UA	E005	Chloride, total	mg/L	02/11/21 - 05/01/24	13	0	CI around geomean	23.6	56.0
AW-14	UA	E005	Chromium, total	mg/L	02/11/21 - 05/01/24	13	92	CI around median	0.004	0.0480
AW-14	UA	E005	Cobalt, total	mg/L	02/11/21 - 05/01/24	13	23	CB around linear reg	-0.00171	0.0280
AW-14	UA	E005	Fluoride, total	mg/L	02/11/21 - 05/01/24	13	85	CI around median	0.25	0.396
AW-14	UA	E005	Lead, total	mg/L	02/11/21 - 05/01/24	13	69	CI around median	0.001	0.0330
AW-14	UA	E005	Lithium, total	mg/L	02/11/21 - 05/01/24	13	62	CI around median	0.02	0.0710
AW-14	UA	E005	Mercury, total	mg/L	02/11/21 - 05/01/24	13	100	All ND - Last	0.0002	0.0002
AW-14	UA	E005	Molybdenum, total	mg/L	02/11/21 - 05/01/24	13	23	CI around geomean	0.00151	0.00620
AW-14	UA	E005	pH (field)	SU	02/11/21 - 05/01/24	13	0	CI around mean	6.8/7.0	6.3/7.1
AW-14	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 05/01/24	13	0	CI around mean	1.94	9.60
AW-14	UA	E005	Selenium, total	mg/L	02/11/21 - 05/01/24	13	85	CI around median	0.001	0.00320
AW-14	UA	E005	Sulfate, total	mg/L	02/11/21 - 05/01/24	13	15	CI around geomean	2.18	6.48
AW-14	UA	E005	Thallium, total	mg/L	02/11/21 - 05/01/24	13	100	All ND - Last	0.001	0.001
AW-14	UA	E005	Total Dissolved Solids	mg/L	02/11/21 - 05/01/24	13	0	CI around mean	921	1,050
AW-15	UA	E005	Antimony, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.003	0.003
AW-15	UA	E005	Arsenic, total	mg/L	02/12/21 - 05/01/24	11	9	CI around mean	0.00147	0.0300

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AW-15	UA	E005	Barium, total	mg/L	02/12/21 - 05/01/24	11	0	CI around mean	1.65	2.07
AW-15	UA	E005	Beryllium, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.001	0.00190
AW-15	UA	E005	Boron, total	mg/L	02/12/21 - 05/01/24	11	0	CI around mean	0.347	0.535
AW-15	UA	E005	Cadmium, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.001	0.00100
AW-15	UA	E005	Chloride, total	mg/L	02/12/21 - 05/01/24	11	0	CB around linear reg	25.5	56.0
AW-15	UA	E005	Chromium, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.004	0.0480
AW-15	UA	E005	Cobalt, total	mg/L	02/12/21 - 05/01/24	11	91	CI around median	0.002	0.0280
AW-15	UA	E005	Fluoride, total	mg/L	02/12/21 - 05/01/24	11	82	CI around median	0.25	0.396
AW-15	UA	E005	Lead, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.001	0.0330
AW-15	UA	E005	Lithium, total	mg/L	02/12/21 - 05/01/24	11	0	CI around mean	0.0286	0.0710
AW-15	UA	E005	Mercury, total	mg/L	02/12/21 - 05/01/24	11	91	CI around median	0.0002	0.0002
AW-15	UA	E005	Molybdenum, total	mg/L	02/12/21 - 05/01/24	11	82	CI around median	0.001	0.00620
AW-15	UA	E005	pH (field)	SU	02/12/21 - 05/01/24	10	0	CI around mean	6.7/6.9	6.3/7.1
AW-15	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 05/01/24	11	0	CI around mean	3.54	9.60
AW-15	UA	E005	Selenium, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.001	0.00320
AW-15	UA	E005	Sulfate, total	mg/L	02/12/21 - 05/01/24	11	91	Most recent sample	1	6.48
AW-15	UA	E005	Thallium, total	mg/L	02/12/21 - 05/01/24	11	100	All ND - Last	0.001	0.001
AW-15	UA	E005	Total Dissolved Solids	mg/L	02/12/21 - 05/01/24	11	0	CI around mean	926	1,050
AW-15S	PMP	E005	Antimony, total	mg/L	02/12/21 - 05/01/24	14	100	All ND - Last	0.003	0.003
AW-15S	PMP	E005	Arsenic, total	mg/L	02/12/21 - 05/01/24	14	64	CI around median	0.001	0.0300
AW-15S	PMP	E005	Barium, total	mg/L	02/12/21 - 05/01/24	14	0	CB around T-S line	-0.069	2.07
AW-15S	PMP	E005	Beryllium, total	mg/L	02/12/21 - 05/01/24	14	93	CI around median	0.001	0.00190
AW-15S	PMP	E005	Boron, total	mg/L	02/12/21 - 05/01/24	14	0	CI around mean	5.54	0.535
AW-15S	PMP	E005	Cadmium, total	mg/L	02/12/21 - 05/01/24	14	100	All ND - Last	0.001	0.00100
AW-15S	PMP	E005	Chloride, total	mg/L	02/12/21 - 05/01/24	14	0	CB around linear reg	21.7	56.0
AW-15S	PMP	E005	Chromium, total	mg/L	02/12/21 - 05/01/24	14	93	CI around median	0.004	0.0480
AW-15S	PMP	E005	Cobalt, total	mg/L	02/12/21 - 05/01/24	14	93	CI around median	0.002	0.0280

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AW-15S	PMP	E005	Fluoride, total	mg/L	02/12/21 - 05/01/24	14	36	CI around median	0.25	0.396
AW-15S	PMP	E005	Lead, total	mg/L	02/12/21 - 05/01/24	14	86	CI around median	0.001	0.0330
AW-15S	PMP	E005	Lithium, total	mg/L	02/12/21 - 05/01/24	14	86	CI around median	0.02	0.0710
AW-15S	PMP	E005	Mercury, total	mg/L	02/12/21 - 05/01/24	14	100	All ND - Last	0.0002	0.0002
AW-15S	PMP	E005	Molybdenum, total	mg/L	02/12/21 - 05/01/24	14	0	CB around linear reg	0.00212	0.00620
AW-15S	PMP	E005	pH (field)	SU	02/12/21 - 05/01/24	14	0	CI around mean	6.8/7.0	6.3/7.1
AW-15S	PMP	E005	Radium 226 + Radium 228, total	pCi/L	02/12/21 - 05/01/24	13	0	CI around mean	0.42	9.60
AW-15S	PMP	E005	Selenium, total	mg/L	02/12/21 - 05/01/24	14	43	CI around median	0.001	0.00320
AW-15S	PMP	E005	Sulfate, total	mg/L	02/12/21 - 05/01/24	14	0	CI around mean	522	6.48
AW-15S	PMP	E005	Thallium, total	mg/L	02/12/21 - 05/01/24	14	100	All ND - Last	0.001	0.001
AW-15S	PMP	E005	Total Dissolved Solids	mg/L	02/12/21 - 05/01/24	14	0	CI around mean	1,210	1,050
AW-16	UA	E005	Antimony, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.003	0.003
AW-16	UA	E005	Arsenic, total	mg/L	02/11/21 - 04/30/24	14	21	CI around mean	0.00113	0.0300
AW-16	UA	E005	Barium, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	0.999	2.07
AW-16	UA	E005	Beryllium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.00190
AW-16	UA	E005	Boron, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	0.458	0.535
AW-16	UA	E005	Cadmium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.00100
AW-16	UA	E005	Chloride, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	43	56.0
AW-16	UA	E005	Chromium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.004	0.0480
AW-16	UA	E005	Cobalt, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.002	0.0280
AW-16	UA	E005	Fluoride, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.25	0.396
AW-16	UA	E005	Lead, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.0330
AW-16	UA	E005	Lithium, total	mg/L	02/11/21 - 04/30/24	14	0	CB around T-S line	0.019	0.0710
AW-16	UA	E005	Mercury, total	mg/L	02/11/21 - 04/30/24	14	93	CI around median	0.0002	0.0002
AW-16	UA	E005	Molybdenum, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.00620
AW-16	UA	E005	pH (field)	SU	02/11/21 - 04/30/24	14	0	CI around mean	6.6/6.8	6.3/7.1
AW-16	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 04/30/24	14	0	CB around linear reg	1.57	9.60

ATTACHMENT C.
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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-16	UA	E005	Selenium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.00320
AW-16	UA	E005	Sulfate, total	mg/L	02/11/21 - 04/30/24	14	86	CI around median	1	6.48
AW-16	UA	E005	Thallium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.001
AW-16	UA	E005	Total Dissolved Solids	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	1,070	1,050
AW-17	UA	E005	Antimony, total	mg/L	02/11/21 - 05/01/24	14	100	All ND - Last	0.003	0.003
AW-17	UA	E005	Arsenic, total	mg/L	02/11/21 - 05/01/24	14	0	CI around mean	0.00436	0.0300
AW-17	UA	E005	Barium, total	mg/L	02/11/21 - 05/01/24	14	0	CI around mean	1.03	2.07
AW-17	UA	E005	Beryllium, total	mg/L	02/11/21 - 05/01/24	14	100	All ND - Last	0.001	0.00190
AW-17	UA	E005	Boron, total	mg/L	02/11/21 - 05/01/24	14	0	CI around mean	0.416	0.535
AW-17	UA	E005	Cadmium, total	mg/L	02/11/21 - 05/01/24	14	100	All ND - Last	0.001	0.00100
AW-17	UA	E005	Chloride, total	mg/L	02/11/21 - 05/01/24	14	0	CI around mean	51.8	56.0
AW-17	UA	E005	Chromium, total	mg/L	02/11/21 - 05/01/24	14	71	CI around median	0.004	0.0480
AW-17	UA	E005	Cobalt, total	mg/L	02/11/21 - 05/01/24	14	0	CI around median	0.0022	0.0280
AW-17	UA	E005	Fluoride, total	mg/L	02/11/21 - 05/01/24	14	93	CI around median	0.25	0.396
AW-17	UA	E005	Lead, total	mg/L	02/11/21 - 05/01/24	14	71	CI around median	0.001	0.0330
AW-17	UA	E005	Lithium, total	mg/L	02/11/21 - 05/01/24	14	0	CB around linear reg	0.00612	0.0710
AW-17	UA	E005	Mercury, total	mg/L	02/11/21 - 05/01/24	14	93	CI around median	0.0002	0.0002
AW-17	UA	E005	Molybdenum, total	mg/L	02/11/21 - 05/01/24	14	50	CB around linear reg	6.1e-05	0.00620
AW-17	UA	E005	pH (field)	SU	02/11/21 - 05/01/24	14	0	CI around mean	6.6/7.0	6.3/7.1
AW-17	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 05/01/24	14	0	CI around mean	2.43	9.60
AW-17	UA	E005	Selenium, total	mg/L	02/11/21 - 05/01/24	14	100	All ND - Last	0.001	0.00320
AW-17	UA	E005	Sulfate, total	mg/L	02/11/21 - 05/01/24	14	100	All ND - Last	1	6.48
AW-17	UA	E005	Thallium, total	mg/L	02/11/21 - 05/01/24	14	100	All ND - Last	0.001	0.001
AW-17	UA	E005	Total Dissolved Solids	mg/L	02/11/21 - 05/01/24	14	0	CI around mean	841	1,050
AW-18	UA	E005	Antimony, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.003	0.003
AW-18	UA	E005	Arsenic, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	0.00332	0.0300
AW-18	UA	E005	Barium, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	1.23	2.07

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-18	UA	E005	Beryllium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.00190
AW-18	UA	E005	Boron, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	0.606	0.535
AW-18	UA	E005	Cadmium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.00100
AW-18	UA	E005	Chloride, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	85.8	56.0
AW-18	UA	E005	Chromium, total	mg/L	02/11/21 - 04/30/24	14	93	CI around median	0.004	0.0480
AW-18	UA	E005	Cobalt, total	mg/L	02/11/21 - 04/30/24	14	79	CI around median	0.002	0.0280
AW-18	UA	E005	Fluoride, total	mg/L	02/11/21 - 04/30/24	14	57	CB around T-S line	-4.17	0.396
AW-18	UA	E005	Lead, total	mg/L	02/11/21 - 04/30/24	14	79	CI around median	0.001	0.0330
AW-18	UA	E005	Lithium, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	-0.0197	0.0710
AW-18	UA	E005	Mercury, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.0002	0.0002
AW-18	UA	E005	Molybdenum, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	-0.0109	0.00620
AW-18	UA	E005	pH (field)	SU	02/11/21 - 04/30/24	14	0	CI around mean	6.7/7.0	6.3/7.1
AW-18	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 04/30/24	14	0	CI around mean	2.45	9.60
AW-18	UA	E005	Selenium, total	mg/L	02/11/21 - 04/30/24	14	93	CI around median	0.001	0.00320
AW-18	UA	E005	Sulfate, total	mg/L	02/11/21 - 04/30/24	14	0	CI around geomean	4.19	6.48
AW-18	UA	E005	Thallium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.001
AW-18	UA	E005	Total Dissolved Solids	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	797	1,050
AW-19	UA	E005	Antimony, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.003	0.003
AW-19	UA	E005	Arsenic, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	0.0116	0.0300
AW-19	UA	E005	Barium, total	mg/L	02/11/21 - 04/30/24	14	0	CI around median	0.18	2.07
AW-19	UA	E005	Beryllium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.00190
AW-19	UA	E005	Boron, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	2.57	0.535
AW-19	UA	E005	Cadmium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.00100
AW-19	UA	E005	Chloride, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	76.2	56.0
AW-19	UA	E005	Chromium, total	mg/L	02/11/21 - 04/30/24	14	71	CI around median	0.004	0.0480
AW-19	UA	E005	Cobalt, total	mg/L	02/11/21 - 04/30/24	14	71	CI around median	0.002	0.0280
AW-19	UA	E005	Fluoride, total	mg/L	02/11/21 - 04/30/24	14	14	CB around linear reg	0.0989	0.396

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ASH POND
BARTONVILLE, IL

Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-19	UA	E005	Lead, total	mg/L	02/11/21 - 04/30/24	14	50	CI around median	0.001	0.0330
AW-19	UA	E005	Lithium, total	mg/L	02/11/21 - 04/30/24	14	71	CI around median	0.02	0.0710
AW-19	UA	E005	Mercury, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.0002	0.0002
AW-19	UA	E005	Molybdenum, total	mg/L	02/11/21 - 04/30/24	14	0	CI around median	0.0035	0.00620
AW-19	UA	E005	pH (field)	SU	02/11/21 - 04/30/24	14	0	CI around mean	6.8/7.1	6.3/7.1
AW-19	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 04/30/24	14	0	CI around mean	0.443	9.60
AW-19	UA	E005	Selenium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.00320
AW-19	UA	E005	Sulfate, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	53.6	6.48
AW-19	UA	E005	Thallium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.001
AW-19	UA	E005	Total Dissolved Solids	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	617	1,050
AW-21	UA	E005	Antimony, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.003	0.003
AW-21	UA	E005	Arsenic, total	mg/L	02/11/21 - 04/30/24	14	21	CI around geomean	0.00112	0.0300
AW-21	UA	E005	Barium, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	0.0611	2.07
AW-21	UA	E005	Beryllium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.00190
AW-21	UA	E005	Boron, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	10.3	0.535
AW-21	UA	E005	Cadmium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.00100
AW-21	UA	E005	Chloride, total	mg/L	02/11/21 - 04/30/24	14	0	CB around linear reg	64.1	56.0
AW-21	UA	E005	Chromium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.004	0.0480
AW-21	UA	E005	Cobalt, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.002	0.0280
AW-21	UA	E005	Fluoride, total	mg/L	02/11/21 - 04/30/24	14	7	CB around linear reg	0.103	0.396
AW-21	UA	E005	Lead, total	mg/L	02/11/21 - 04/30/24	14	93	CI around median	0.001	0.0330
AW-21	UA	E005	Lithium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.02	0.0710
AW-21	UA	E005	Mercury, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.0002	0.0002
AW-21	UA	E005	Molybdenum, total	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	0.0177	0.00620
AW-21	UA	E005	pH (field)	SU	02/11/21 - 04/30/24	14	0	CI around geomean	6.9/7.7	6.3/7.1
AW-21	UA	E005	Radium 226 + Radium 228, total	pCi/L	02/11/21 - 04/30/24	14	0	CI around mean	0.495	9.60
AW-21	UA	E005	Selenium, total	mg/L	02/11/21 - 04/30/24	14	64	CB around T-S line	0.001	0.00320

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Well ID	HSU	Event	Parameter	Units	Date Range	Sample Count	Percent ND	Statistical Calculation	Statistical Result	Background
AW-21	UA	E005	Sulfate, total	mg/L	02/11/21 - 04/30/24	14	0	CI around median	220	6.48
AW-21	UA	E005	Thallium, total	mg/L	02/11/21 - 04/30/24	14	100	All ND - Last	0.001	0.001
AW-21	UA	E005	Total Dissolved Solids	mg/L	02/11/21 - 04/30/24	14	0	CI around mean	646	1,050

Notes:
Lower Confidence Limit (LCL) or Upper Confidence Limit (UCL) exceeded the statistical background value
HSU = hydrostratigraphic unit:
PMP = Potential Migration Pathway
UA = Uppermost Aquifer
mg/L = milligrams per liter
ND = non-detect
pCi/L = picocuries per liter
SU = standard units
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 the Statistical Analysis Plan using constituent concentrations observed at each monitoring well during all sampling events within the specified date range
For pH, the values presented are the lower / upper limits of the background determination