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Illinois Power Resources Generating, LLC

Date
January 31, 2023

Project No.
1940102203-006

2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

BOTTOM ASH BASIN DUCK CREEK POWER PLANT CANTON, ILLINOIS CCR UNIT 205

**2022 ANNUAL GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT BOTTOM ASH BASIN**

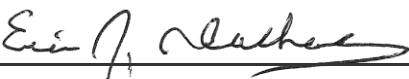
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ACRONYMS AND ABBREVIATIONS

§	Section
35 I.A.C.	Title 35 of the Illinois Administrative Code
40 C.F.R.	Title 40 of the Code of Federal Regulations
BAB	Bottom Ash Basin
CCR	coal combustion residuals
DCPP	Duck Creek Power Plant
GWPS	groundwater protection standard
IEPA	Illinois Environmental Protection Agency
NA	not applicable
NVD	Natural Variability Demonstration
NRT/OBG	Natural Resource Technology, an OBG Company
Ramboll	Ramboll Americas Engineering Solutions, Inc.
SAP	Sampling and Analysis Plan
SSI	statistically significant increase
TBD	to be determined

EXECUTIVE SUMMARY

This report has been prepared to provide the information required by Title 40 of the Code of Federal Regulations (40 C.F.R.) Section (§) 257.90(e) for the Bottom Ash Basin (BAB) located at the Duck Creek Power Plant (DCPP) near Canton, Illinois.

Groundwater is being monitored at the BAB in accordance with the detection monitoring program requirements specified in 40 C.F.R. § 257.94.

No changes were made to the monitoring system in 2022 (no wells were installed or decommissioned). As discussed in Section 5 of this annual report, the monitoring well network will be updated in 2023 to use the same monitoring well network developed for compliance with Title 35 of the Illinois Administrative Code (35 I.A.C.) § 845, which was submitted to the Illinois Environmental Protection Agency (IEPA) via an operating permit application.

The following Statistically Significant Increases (SSIs) of 40 C.F.R. § 257 Appendix III parameter concentrations greater than background concentrations were determined:

- pH at well BA01

A Natural Variability Demonstration (NVD) was completed for the SSIs referenced above and the BAB remains in the Detection Monitoring Program.

1. INTRODUCTION

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

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

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

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

This report provides the required information for the BAB for calendar year 2022.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

No changes have occurred to the monitoring program status in calendar year 2022 and the BAB remains in the detection monitoring program in accordance with 40 C.F.R. § 257.94.

3. KEY ACTIONS COMPLETED IN 2022

The detection monitoring program is summarized in **Table A** on the following page. The groundwater monitoring system, including the CCR unit and all background and compliance monitoring wells, is presented in **Figure 1**. No changes were made to the monitoring system in 2022. In general, one groundwater sample was collected from each background and compliance well during each monitoring event.^{1,3} All samples were collected and analyzed in accordance with the Sampling and Analysis Plan (SAP) (Natural Resource Technology, an OBG Company [NRT/OBG], 2017a). Potentiometric surface maps for both monitoring events in 2022 are included in **Figures 2 and 3**. All monitoring data and analytical results obtained under 40 C.F.R. § 257.90 through 257.98 (as applicable) in both monitoring events in 2022 are presented in **Tables 1 and 2**. Laboratory reports for both 2022 monitoring events are included in **Appendix A**.

Analytical data were evaluated in accordance with the Statistical Analysis Plan (NRT/OBG, 2017b) to determine any SSIs of Appendix III parameters relative to background concentrations. Statistical background values are provided in **Table 3**. A flow chart showing the statistical methodology for determination of background values is included as **Appendix B**.

Potential alternate sources and natural variation were evaluated as outlined in the 40 C.F.R. § 257.94(e)(2). An NVD was completed and certified by a qualified professional engineer. The date the NVD was completed is provided in **Table A**. The NVD is included in **Appendix C**.

¹ Sampling was limited to BA01 during the June 2022 sampling event to confirm SSIs of select Appendix III parameters initially detected at concentrations greater than statistical background values in the preceding sampling event, as allowed by the Statistical Analysis Plan.

³ Sampling was limited to BA01 and BA02 during the October 2022 sampling event to confirm SSIs of select Appendix III parameters initially detected at concentrations greater than statistical background values in the preceding sampling event, as allowed by the Statistical Analysis Plan.

Table A. 2022 Detection Monitoring Program Summary

Sampling Date	Analytical Data Receipt Date	Parameters Collected	SSI(s)	SSI(s) Determination Date	NVD Completion Date
January 31, 2022	February 21, 2022	Appendix III	pH at BA01	May 22, 2022	August 20, 2022
June 23, 2022 ¹	August 05, 2022	pH at well BA01 ²	NA	NA	NA
July 19 - 20, 2022	October 06, 2022	Appendix III	None	January 04, 2023	NA
October 26, 2022 ³	November 30, 2022	pH at wells BA01 and BA03 ²	NA	NA	NA

Notes:

NA: not applicable

NVD: Natural Variability Demonstration

SSI: statistically significant increase

TBD: to be determined

¹ Sampling was limited to BA01 during the June 2022 sampling event to confirm SSIs of select Appendix III parameters initially detected at concentrations greater than statistical background values in the preceding sampling event, as allowed by the Statistical Analysis Plan.

² Groundwater sample analysis was limited to select Appendix III parameters initially detected at concentrations greater than statistical background values in the preceding sampling event to confirm SSIs, as allowed by the Statistical Analysis Plan.

³ Sampling was limited to BA01 and BA02 during the October 2022 sampling event to confirm SSIs of select Appendix III parameters initially detected at concentrations greater than statistical background values in the preceding sampling event, as allowed by the Statistical Analysis Plan.

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

No problems were encountered with the Groundwater Monitoring Program during 2022. Groundwater samples were collected and analyzed in accordance with the SAP and all data were accepted.

5. KEY ACTIVITIES PLANNED FOR 2023

The following key activities are planned for 2023:

- Beginning in 2023, the current monitoring well system will be updated to use the same monitoring well network that was proposed for compliance with 35 I.A.C. § 845 which includes all of the monitoring wells used in the 2022 monitoring system. This is a logical step toward aligning the two regulatory programs. The following documents support the expanded monitoring system for 2023:
 - Hydrogeological Site Characterization Report (Ramboll, 2021), which expands upon the hydrogeologic information provided in the Hydrogeologic Monitoring Plan (NRT/OBG, 2017c)
 - Multi-Site SAP (Ramboll, 2022a)
 - Multi-Site Quality Assurance Project Plan (Ramboll, 2022b)
 - Multi-Site Data Management Plan (Ramboll, 2022c)
 - Multi-Site Statistical Analysis Plan and Certification (Ramboll, 2022d)
 - 40 C.F.R. § 257 Groundwater Monitoring Plan (Ramboll, 2022e), which replaces the monitoring plan provided in the Hydrogeologic Monitoring Plan
 - Monitoring Well Network Certification
- Continuation of the detection monitoring program with semi-annual sampling scheduled for the first and third quarters of 2023.
- Complete evaluation of analytical data from the compliance wells using background data to determine whether an SSI of Appendix III parameters detected at concentrations greater than background concentrations has occurred.
- If an SSI is identified, potential alternate sources (*i.e.*, a source other than the CCR unit caused the SSI or that the SSI resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality) will be evaluated.
 - If an alternate source is identified to be the cause of the SSI, a written demonstration will be completed within 90 days of SSI determination and included in the 2023 Annual Groundwater Monitoring and Corrective Action Report.
 - If an alternate source(s) is not identified to be the cause of the SSI, the applicable requirements of 40 C.F.R. §§ 257.94 through 257.98 as may apply in 2023 (*e.g.*, assessment monitoring) will be met, including associated recordkeeping/notifications required by 40 C.F.R. §§ 257.105 through 257.108.

6. REFERENCES

Natural Resource Technology, an OBG Company (NRT/OBG), 2017a. Sampling and Analysis Plan, Coffeen Ash Pond No. 1, Coffeen Power Station, Coffeen, Illinois, Project No. 2285, Revision 0. October 17, 2017.

Natural Resource Technology, an OBG Company (NRT/OBG), 2017b. Statistical Analysis Plan, Coffeen Power Station, Newton Power Station, Illinois Power Generating Company. October 17, 2017.

Natural Resource Technology, an OBG Company (NRT/OBG), 2017c. Hydrogeologic Monitoring Plan, Coffeen Power Station, Coffeen, Illinois. October 17, 2017.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2021. Hydrogeological Site Characterization Report, the Bottom Ash Basin, Duck Creek Power Plant, Canton, Illinois. October 21, 2021.

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022a. Multi-Site Sampling and Analysis Plan. December 28, 2022.

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

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

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

Ramboll Americas Engineering Solutions, Inc. (Ramboll), 2022e. 40 C.F.R. § 257 Groundwater Monitoring Plan, the Bottom Ash Basin, Duck Creek Power Plant, Canton, Illinois. December 28, 2022.

TABLES

TABLE 1
GROUNDWATER ELEVATIONS
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT
205 - BOTTOM ASH BASIN
CANTON, IL

Well ID	Monitored Unit	Well Screen Interval (feet BGS)	Well Type	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
BA01	UA	33.06 - 37.73	Compliance	40.46890	-89.98214	01/25/2022	14.46	572.63
BA01	UA	33.06 - 37.73	Compliance	40.46890	-89.98214	07/18/2022	14.84	572.25
BA01C	BR	35.81 - 45.26	Water Level Only	40.46890	-89.98210	01/25/2022	14.08	572.56
BA01C	BR	35.81 - 45.26	Water Level Only	40.46890	-89.98210	07/18/2022	14.43	572.21
BA01L	UA/PMP	11.9 - 21.37	Water Level Only	40.46890	-89.98212	01/25/2022	12.18	574.62
BA01L	UA/PMP	11.9 - 21.37	Water Level Only	40.46890	-89.98212	07/18/2022	13.77	573.03
BA02	UA	23.63 - 28.43	Compliance	40.46843	-89.98132	01/25/2022	8.60	571.32
BA02	UA	23.63 - 28.43	Compliance	40.46843	-89.98132	07/18/2022	9.64	570.28
BA02L	UA/PMP	6.98 - 11.66	Water Level Only	40.46844	-89.98133	01/25/2022	8.42	571.49
BA02L	UA/PMP	6.98 - 11.66	Water Level Only	40.46844	-89.98133	07/18/2022	9.61	570.30
BA03	UA	16.11 - 25.57	Compliance	40.46809	-89.98214	01/25/2022	7.14	571.20
BA03	UA	16.11 - 25.57	Compliance	40.46809	-89.98214	07/18/2022	8.40	569.94
BA03L	UA/PMP	5.25 - 9.94	Water Level Only	40.46808	-89.98213	01/25/2022	6.65	571.10
BA03L	UA/PMP	5.25 - 9.94	Water Level Only	40.46808	-89.98213	07/18/2022	7.95	569.80
BA04	UA	24.58 - 29.38	Compliance	40.46838	-89.98299	01/25/2022	6.46	571.73
BA04	UA	24.58 - 29.38	Compliance	40.46838	-89.98299	07/18/2022	6.05	572.14
BA05	UA	36.48 - 46.08	Background	40.46936	-89.98307	01/25/2022	18.45	577.27
BA05	UA	36.48 - 46.08	Background	40.46936	-89.98307	07/18/2022	20.56	575.16
BA06	UA	32.32 - 41.93	Background	40.46932	-89.98096	01/25/2022	22.55	573.08
BA06	UA	32.32 - 41.93	Background	40.46932	-89.98096	07/18/2022	25.43	570.20

Notes:
BGS = below ground surface
BMP = below measuring point
NAVD88 = North American Vertical Datum of 1988
Monitored Unit Abbreviations:
BR = bedrock
UA = uppermost aquifer
UA/PMP = uppermost aquifer/potential migration pathway

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT
205 - BOTTOM ASH BASIN
CANTON, IL

Well ID	Well Type	Date	Event ID	Boron, total (mg/L)	Calcium, total (mg/L)	Chloride, total (mg/L)	Fluoride, total (mg/L)	pH (field) (SU)	Sulfate, total (mg/L)	Total Dissolved Solids (mg/L)
Background Value(s)	--	--	--	3.90	423	650	0.549	6.9/7.7	613	2,240
BA05	Background	01/31/2022	D10	0.100	190	6.80	0.25 U	7.0	480	1,100
BA05	Background	07/19/2022	D11	0.110	200	9.80	0.25 U	7.7	520	1,300
BA06	Background	01/31/2022	D10	6.80	350	620	0.25 U	6.6	430	1,900 J
BA06	Background	07/19/2022	D11	6.70	310	470	0.25 U	7.1	320	850
BA01	Compliance	01/31/2022	D10	0.0240	120	12.0	0.25 U	6.6	130	410
BA01	Compliance	06/23/2022	D10R	--	--	--	--	7.0	--	--
BA01	Compliance	07/19/2022	D11	0.0260	130	10.0	0.25 U	7.8	130	690
BA01	Compliance	10/26/2022	D11R	--	--	--	--	6.9	--	--
BA02	Compliance	01/31/2022	D10	0.0430	83.0	10.0	0.25 U	7.2	14.0	530
BA02	Compliance	07/20/2022	D11	0.0520	100	9.60	0.25 U	6.9	13.0	540
BA03	Compliance	01/31/2022	D10	0.0190	96.0	6.00	0.25 U	7.2	18.0	460
BA03	Compliance	07/20/2022	D11	0.0200	110	4.80	0.25 U	6.8	17.0	500
BA03	Compliance	10/26/2022	D11R	--	--	--	--	7.0	--	--
BA04	Compliance	01/31/2022	D10	0.660	130	46.0	0.268	7.0	170	650
BA04	Compliance	07/19/2022	D11	0.330	140	46.0	0.25 U	7.6	170	790

Notes:
If an event includes a resample, a statistically significant increase (SSI) is confirmed if both the sample and the resample exceed the background value.
Exceedance of Background
mg/L = milligrams per liter
SU = Standard Units
- = not analyzed
U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.
Lab reports may or may not report both the limit of detection and the limit of quantitation. Limits are provided in the electronic data deliverable. As such, the U-flagged result value provided in this table may not match the result value provided in the lab report.
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.

TABLE 3
STATISTICAL BACKGROUND VALUES
2022 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT
205 - BOTTOM ASH BASIN
CANTON, IL

Parameter	Date Range	Sample Count	Percent Non-Detects	Statistical Calculation	Statistical Background Value (LPL/UPL)
Boron (mg/L)	09/12/2016 - 06/26/2017	16	0	Non-parametric UPL	3.90
Calcium (mg/L)	09/12/2016 - 06/26/2017	16	0	Parametric UPL	423
Chloride (mg/L)	09/12/2016 - 06/26/2017	16	0	Non-parametric UPL	650
Fluoride (mg/L)	09/12/2016 - 06/26/2017	16	19	Parametric UPL (log-transformed)	0.549
pH (field) (SU)	09/12/2016 - 06/26/2017	16	0	Parametric LPL/UPL	6.9/7.7
Sulfate (mg/L)	09/12/2016 - 06/26/2017	16	0	Parametric UPL	613
Total Dissolved Solids (mg/L)	09/12/2016 - 06/26/2017	16	0	Parametric UPL	2,240

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

FIGURES

PROJECT: 169000XXXXX | DATED: 1/5/2022 | DESIGNER: galarmc
Y:\Mapping\Projects\22\2285\MXD\2021_Annual\GWM_CAR\DC_Creek\BAB_205\Figure 1 DC BAB MW Location Map.mxd



- BACKGROUND WELL
- COMPLIANCE WELL
- 40 C.F.R. § 257 REGULATED UNIT (SUBJECT UNIT)



MONITORING WELL LOCATION MAP

2022 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
BOTTOM ASH BASIN
DUCK CREEK POWER PLANT
CANTON, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.



PROJECT: 169000XXXX | DATED: 10/4/2022 | DESIGNER: galammc
Y:\Mapping\Projects\22\2285\MXD\GW_Contours\Round_Creek\BAB_205\DC BAB 205 Pot Surface 2020125.mxd



- BACKGROUND WELL
- COMPLIANCE WELL
- MONITORING WELL
- 40 C.F.R. § 257 REGULATED UNIT (SUBJECT UNIT)
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION

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

0 50 100 Feet

POTENTIOMETRIC SURFACE MAP JANUARY 25, 2022

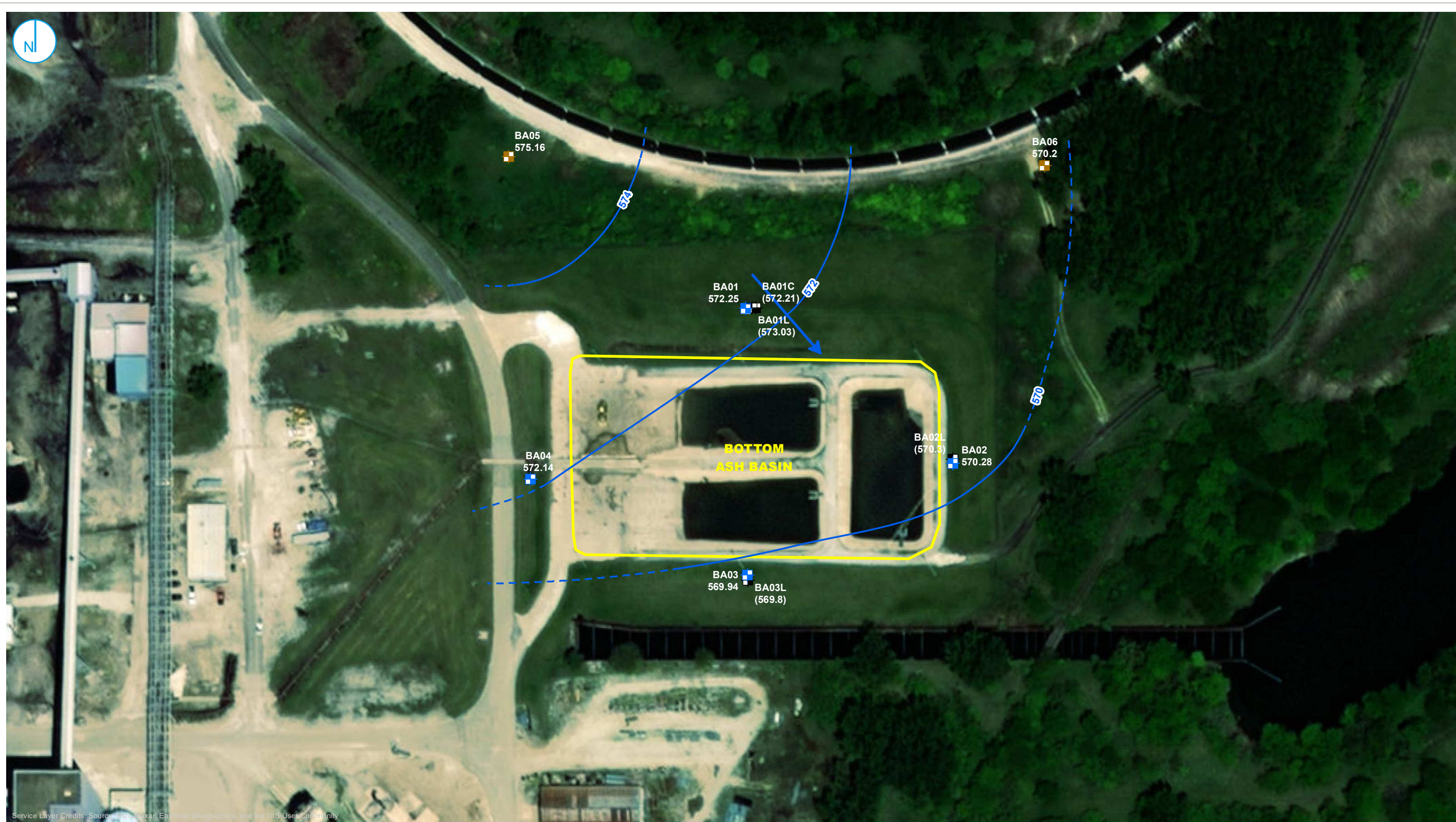
2022 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
BOTTOM ASH BASIN
DUCK CREEK POWER PLANT
CANTON, ILLINOIS

FIGURE 2

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

PROJECT: 169000XXXX | DATED: 12/9/2022 | DESIGNER: galammc
Y:\Mapping\Projects\22\2285\MXD\GW_Contours\Round_Creek\BAB_205\DC BAB 205 Pot Surface 20220718.mxd



- BACKGROUND WELL
- COMPLIANCE WELL
- MONITORING WELL
- 40 C.F.R. § 257 REGULATED UNIT (SUBJECT UNIT)
- GROUNDWATER ELEVATION CONTOUR (2-FT CONTOUR INTERVAL, NAVD88)
- INFERRED GROUNDWATER ELEVATION
- GROUNDWATER FLOW DIRECTION

0 50 100 Feet

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

POTENTIOMETRIC SURFACE MAP JULY 18, 2022

2022 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT
BOTTOM ASH BASIN
DUCK CREEK POWER PLANT
CANTON, ILLINOIS

FIGURE 3

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

APPENDICES

APPENDIX A LABORATORY REPORTS



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

February 21, 2022

Eric Bauer
Ramboll - Milwaukee
234 W Florida Street, 5th Floor
Milwaukee, WI 53204

Dear Eric Bauer:

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 Director of Client Services, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lgrant@pdclab.com.

Sincerely,

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

Gail Schindler
Project Manager
(309) 692-9688 x1716
gschindler@pdclab.com

**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

Work Order FB00030

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: FB00030-01

Name: BA01

Matrix: Ground Water - Grab

Sampled: 01/31/22 11:22

Received: 01/31/22 18:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	12	mg/L	Q4	02/04/22 13:14	5	5.0	02/04/22 13:14	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L	Q2	02/04/22 12:19	1	0.250	02/04/22 12:19	CRD	EPA 300.0 REV 2.1
Sulfate	130	mg/L	Q4	02/04/22 13:32	25	25	02/04/22 13:32	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	14.76	Feet		01/31/22 11:22	1		01/31/22 11:22	FIELD	Field
Dissolved oxygen, Field	0.17	mg/L		01/31/22 11:22	1		01/31/22 11:22	FIELD	Field
Oxidation Reduction Potential	3.60	mV		01/31/22 11:22	1	-500	01/31/22 11:22	FIELD	Field
pH, Field Measured	6.60	pH Units		01/31/22 11:22	1		01/31/22 11:22	FIELD	Field
Specific Conductance, Field Measured	978.7	umhos/cm		01/31/22 11:22	1		01/31/22 11:22	FIELD	Field
Temperature, Field Measured	10.1	°C		01/31/22 11:22	1		01/31/22 11:22	FIELD	Field
Turbidity, Field Measured	3.38	NTU		01/31/22 11:22	1	0.00	01/31/22 11:22	FIELD	Field
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	420	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Solids - total dissolved solids (TDS)	410	mg/L		02/03/22 11:41	1	26	02/03/22 14:41	ADM	SM 2540C
Total Metals - PIA									
Boron	24	ug/L		02/03/22 08:36	5	10	02/07/22 12:53	JMW	EPA 6020A
Calcium	120	mg/L		02/03/22 08:36	5	0.20	02/07/22 12:53	JMW	EPA 6020A
Magnesium	55	mg/L		02/03/22 08:36	5	0.10	02/07/22 12:53	JMW	EPA 6020A
Potassium	0.66	mg/L		02/03/22 08:36	5	0.10	02/07/22 12:53	JMW	EPA 6020A
Sodium	9.9	mg/L		02/03/22 08:36	5	0.10	02/07/22 12:53	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FB00030-02

Name: BA02

Matrix: Ground Water - Grab

Sampled: 01/31/22 13:00

Received: 01/31/22 18:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	10	mg/L		02/04/22 14:08	5	5.0	02/04/22 14:08	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/04/22 13:50	1	0.250	02/04/22 13:50	CRD	EPA 300.0 REV 2.1
Sulfate	14	mg/L		02/04/22 14:08	5	5.0	02/04/22 14:08	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	8.9	Feet		01/31/22 13:00	1		01/31/22 13:00	FIELD	Field
Dissolved oxygen, Field	6.7	mg/L		01/31/22 13:00	1		01/31/22 13:00	FIELD	Field
Oxidation Reduction Potential	162	mV		01/31/22 13:00	1	-500	01/31/22 13:00	FIELD	Field
pH, Field Measured	7.20	pH Units		01/31/22 13:00	1		01/31/22 13:00	FIELD	Field
Specific Conductance, Field Measured	846.2	umhos/cm		01/31/22 13:00	1		01/31/22 13:00	FIELD	Field
Temperature, Field Measured	9.7	°C		01/31/22 13:00	1		01/31/22 13:00	FIELD	Field
Turbidity, Field Measured	14.2	NTU		01/31/22 13:00	1	0.00	01/31/22 13:00	FIELD	Field
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	460	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Solids - total dissolved solids (TDS)	530	mg/L		02/03/22 11:41	1	26	02/03/22 14:41	ADM	SM 2540C
Total Metals - PIA									
Boron	43	ug/L		02/03/22 08:36	5	10	02/07/22 12:57	JMW	EPA 6020A
Calcium	83	mg/L		02/03/22 08:36	5	0.20	02/07/22 12:57	JMW	EPA 6020A
Magnesium	42	mg/L		02/03/22 08:36	5	0.10	02/07/22 12:57	JMW	EPA 6020A
Potassium	1.1	mg/L		02/03/22 08:36	5	0.10	02/07/22 12:57	JMW	EPA 6020A
Sodium	40	mg/L		02/03/22 08:36	5	0.10	02/07/22 12:57	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FB00030-03

Name: BA02 DUPLICATE

Matrix: Ground Water - Field Duplicate

Sampled: 01/31/22 13:00

Received: 01/31/22 18:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	11	mg/L		02/04/22 14:45	5	5.0	02/04/22 14:45	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/04/22 14:26	1	0.250	02/04/22 14:26	CRD	EPA 300.0 REV 2.1
Sulfate	14	mg/L		02/04/22 14:45	5	5.0	02/04/22 14:45	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	8.9	Feet		01/31/22 13:00	1		01/31/22 13:00	FIELD	Field
Dissolved oxygen, Field	6.7	mg/L		01/31/22 13:00	1		01/31/22 13:00	FIELD	Field
Oxidation Reduction Potential	162	mV		01/31/22 13:00	1	-500	01/31/22 13:00	FIELD	Field
pH, Field Measured	7.20	pH Units		01/31/22 13:00	1		01/31/22 13:00	FIELD	Field
Specific Conductance, Field Measured	846.2	umhos/cm		01/31/22 13:00	1		01/31/22 13:00	FIELD	Field
Temperature, Field Measured	9.7	°C		01/31/22 13:00	1		01/31/22 13:00	FIELD	Field
Turbidity, Field Measured	14.2	NTU		01/31/22 13:00	1	0.00	01/31/22 13:00	FIELD	Field
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	480	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Solids - total dissolved solids (TDS)	470	mg/L		02/03/22 11:41	1	26	02/03/22 14:41	ADM	SM 2540C
Total Metals - PIA									
Boron	43	ug/L		02/03/22 08:36	5	10	02/07/22 13:01	JMW	EPA 6020A
Calcium	83	mg/L		02/03/22 08:36	5	0.20	02/07/22 13:01	JMW	EPA 6020A
Magnesium	42	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:01	JMW	EPA 6020A
Potassium	1.1	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:01	JMW	EPA 6020A
Sodium	40	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:01	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FB00030-04

Name: BA03

Matrix: Ground Water - Grab

Sampled: 01/31/22 14:08

Received: 01/31/22 18:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	6.0	mg/L		02/04/22 15:03	1	1.0	02/04/22 15:03	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		02/04/22 15:03	1	0.250	02/04/22 15:03	CRD	EPA 300.0 REV 2.1
Sulfate	18	mg/L		02/04/22 15:57	5	5.0	02/04/22 15:57	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	7.59	Feet		01/31/22 14:08	1		01/31/22 14:08	FIELD	Field
Dissolved oxygen, Field	4.2	mg/L		01/31/22 14:08	1		01/31/22 14:08	FIELD	Field
Oxidation Reduction Potential	121	mV		01/31/22 14:08	1	-500	01/31/22 14:08	FIELD	Field
pH, Field Measured	7.18	pH Units		01/31/22 14:08	1		01/31/22 14:08	FIELD	Field
Specific Conductance, Field Measured	796.6	umhos/cm		01/31/22 14:08	1		01/31/22 14:08	FIELD	Field
Temperature, Field Measured	10.6	°C		01/31/22 14:08	1		01/31/22 14:08	FIELD	Field
Turbidity, Field Measured	20.0	NTU		01/31/22 14:08	1	0.00	01/31/22 14:08	FIELD	Field
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	410	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Solids - total dissolved solids (TDS)	460	mg/L		02/03/22 11:41	1	26	02/03/22 14:41	ADM	SM 2540C
Total Metals - PIA									
Boron	19	ug/L		02/03/22 08:36	5	10	02/07/22 13:04	JMW	EPA 6020A
Calcium	96	mg/L		02/03/22 08:36	5	0.20	02/07/22 13:04	JMW	EPA 6020A
Magnesium	48	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:04	JMW	EPA 6020A
Potassium	0.81	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:04	JMW	EPA 6020A
Sodium	6.6	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:04	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FB00030-05

Name: BA04

Matrix: Ground Water - Grab

Sampled: 01/31/22 14:53

Received: 01/31/22 18:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	46	mg/L		02/04/22 16:52	10	10	02/04/22 16:52	CRD	EPA 300.0 REV 2.1
Sulfate	170	mg/L		02/04/22 17:10	25	25	02/04/22 17:10	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.78	Feet		01/31/22 14:53	1		01/31/22 14:53	FIELD	Field
Dissolved oxygen, Field	0.64	mg/L		01/31/22 14:53	1		01/31/22 14:53	FIELD	Field
Oxidation Reduction Potential	127	mV		01/31/22 14:53	1	-500	01/31/22 14:53	FIELD	Field
pH, Field Measured	6.99	pH Units		01/31/22 14:53	1		01/31/22 14:53	FIELD	Field
Specific Conductance, Field Measured	1102	umhos/cm		01/31/22 14:53	1		01/31/22 14:53	FIELD	Field
Temperature, Field Measured	10.8	°C		01/31/22 14:53	1		01/31/22 14:53	FIELD	Field
Turbidity, Field Measured	0.900	NTU		01/31/22 14:53	1	0.00	01/31/22 14:53	FIELD	Field
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	440	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Fluoride	0.268	mg/L		02/08/22 15:59	1	0.250	02/08/22 15:59	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	650	mg/L		02/03/22 10:08	1	26	02/03/22 11:25	ADM	SM 2540C
Total Metals - PIA									
Boron	660	ug/L		02/03/22 08:36	5	10	02/07/22 13:08	JMW	EPA 6020A
Calcium	130	mg/L		02/03/22 08:36	5	0.20	02/07/22 13:08	JMW	EPA 6020A
Magnesium	63	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:08	JMW	EPA 6020A
Potassium	0.97	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:08	JMW	EPA 6020A
Sodium	15	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:08	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FB00030-06

Name: BA05

Matrix: Ground Water - Grab

Sampled: 01/31/22 16:42

Received: 01/31/22 18:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	6.8	mg/L		02/07/22 21:50	5	5.0	02/07/22 21:50	CRD	EPA 300.0 REV 2.1
Sulfate	480	mg/L		02/04/22 18:05	100	100	02/04/22 18:05	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	18.59	Feet		01/31/22 16:42	1		01/31/22 16:42	FIELD	Field
Dissolved oxygen, Field	1.6	mg/L		01/31/22 16:42	1		01/31/22 16:42	FIELD	Field
Oxidation Reduction Potential	-54.0	mV		01/31/22 16:42	1	-500	01/31/22 16:42	FIELD	Field
pH, Field Measured	7.03	pH Units		01/31/22 16:42	1		01/31/22 16:42	FIELD	Field
Specific Conductance, Field Measured	1616	umhos/cm		01/31/22 16:42	1		01/31/22 16:42	FIELD	Field
Temperature, Field Measured	10.6	°C		01/31/22 16:42	1		01/31/22 16:42	FIELD	Field
Turbidity, Field Measured	5.10	NTU		01/31/22 16:42	1	0.00	01/31/22 16:42	FIELD	Field
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	490	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Fluoride	< 0.250	mg/L		02/08/22 16:03	1	0.250	02/08/22 16:03	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1100	mg/L		02/03/22 10:08	1	26	02/03/22 11:25	ADM	SM 2540C
Total Metals - PIA									
Boron	100	ug/L		02/03/22 08:36	5	10	02/07/22 13:12	JMW	EPA 6020A
Calcium	190	mg/L		02/03/22 08:36	5	0.20	02/07/22 13:12	JMW	EPA 6020A
Magnesium	93	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:12	JMW	EPA 6020A
Potassium	2.9	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:12	JMW	EPA 6020A
Sodium	40	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:12	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FB00030-07

Name: BA06

Matrix: Ground Water - Grab

Sampled: 01/31/22 15:43

Received: 01/31/22 18:10

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	620	mg/L		02/04/22 18:41	100	100	02/04/22 18:41	CRD	EPA 300.0 REV 2.1
Sulfate	430	mg/L		02/04/22 18:41	100	100	02/04/22 18:41	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	22.66	Feet		01/31/22 15:43	1		01/31/22 15:43	FIELD	Field
Dissolved oxygen, Field	0.29	mg/L		01/31/22 15:43	1		01/31/22 15:43	FIELD	Field
Oxidation Reduction Potential	-14.1	mV		01/31/22 15:43	1	-500	01/31/22 15:43	FIELD	Field
pH, Field Measured	6.64	pH Units		01/31/22 15:43	1		01/31/22 15:43	FIELD	Field
Specific Conductance, Field Measured	3093	umhos/cm		01/31/22 15:43	1		01/31/22 15:43	FIELD	Field
Temperature, Field Measured	10.8	°C		01/31/22 15:43	1		01/31/22 15:43	FIELD	Field
Turbidity, Field Measured	246	NTU		01/31/22 15:43	1	0.00	01/31/22 15:43	FIELD	Field
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	460	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Alkalinity - carbonate as CaCO3	< 10	mg/L		02/08/22 07:40	1	10	02/08/22 07:40	JAA	SM 2320B 1997
Fluoride	< 0.250	mg/L		02/08/22 16:04	1	0.250	02/08/22 16:04	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	1900	mg/L	M	02/03/22 10:08	1	26	02/03/22 11:25	ADM	SM 2540C
Total Metals - PIA									
Boron	6800	ug/L		02/03/22 08:36	5	10	02/07/22 13:15	JMW	EPA 6020A
Calcium	350	mg/L		02/03/22 08:36	5	0.20	02/07/22 13:15	JMW	EPA 6020A
Magnesium	210	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:15	JMW	EPA 6020A
Potassium	2.9	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:15	JMW	EPA 6020A
Sodium	15	mg/L		02/03/22 08:36	5	0.10	02/07/22 13:15	JMW	EPA 6020A



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B223437 - SW 3015 - EPA 6020A</u>									
Blank (B223437-BLK1)				Prepared: 02/03/22 Analyzed: 02/07/22					
Boron	< 10	ug/L							
Calcium	< 0.20	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
LCS (B223437-BS1)				Prepared: 02/03/22 Analyzed: 02/07/22					
Boron	506	ug/L		555.6		91	80-120		
Calcium	5.98	mg/L		5.556		108	80-120		
Magnesium	6.15	mg/L		5.556		111	80-120		
Potassium	5.85	mg/L		5.556		105	80-120		
Sodium	5.72	mg/L		5.556		103	80-120		
<u>Batch B223454 - No Prep - SM 2540C</u>									
Blank (B223454-BLK1)				Prepared & Analyzed: 02/03/22					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B223454-BS1)				Prepared & Analyzed: 02/03/22					
Solids - total dissolved solids (TDS)	953	mg/L		1000		95	84.9-109		
Duplicate (B223454-DUP1)				Prepared & Analyzed: 02/03/22					
Sample: FB00030-07									
Solids - total dissolved solids (TDS)	1730	mg/L	M		1910			10	5
<u>Batch B223461 - No Prep - SM 2540C</u>									
Blank (B223461-BLK1)				Prepared & Analyzed: 02/03/22					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B223461-BS1)				Prepared & Analyzed: 02/03/22					
Solids - total dissolved solids (TDS)	967	mg/L		1000		97	84.9-109		
<u>Batch B223675 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B223675-CCB1)				Prepared & Analyzed: 02/04/22					
Sulfate	0.00	mg/L							
Chloride	0.0748	mg/L							
Fluoride	0.00	mg/L							
Calibration Blank (B223675-CCB2)				Prepared & Analyzed: 02/04/22					
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.0775	mg/L							
Calibration Check (B223675-CCV1)				Prepared & Analyzed: 02/04/22					
Chloride	5.09	mg/L		5.000		102	90-110		
Sulfate	5.16	mg/L		5.000		103	90-110		
Fluoride	5.10	mg/L		5.000		102	90-110		
Calibration Check (B223675-CCV2)				Prepared & Analyzed: 02/04/22					
Fluoride	5.06	mg/L		5.000		101	90-110		



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B223675 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Check (B223675-CCV2)				Prepared & Analyzed: 02/04/22					
Sulfate	4.96	mg/L		5.000		99	90-110		
Chloride	4.88	mg/L		5.000		98	90-110		
Matrix Spike (B223675-MS1)				Sample: FB00030-01	Prepared & Analyzed: 02/04/22				
Sulfate	1.00E9	mg/L	Q4	1.500	133	NR	80-120		
Fluoride	1.51	mg/L		1.500	0.224	86	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	12	NR	80-120		
Matrix Spike Dup (B223675-MSD1)				Sample: FB00030-01	Prepared & Analyzed: 02/04/22				
Chloride	< 1.0	mg/L	Q4	1.500	12	NR	80-120		20
Fluoride	< 0.250	mg/L	Q2	1.500	0.224	NR	80-120		20
Sulfate	1.00E9	mg/L	Q4	1.500	133	NR	80-120	0	20
<u>Batch B223786 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B223786-CCB1)				Prepared & Analyzed: 02/07/22					
Chloride	0.0440	mg/L							
Calibration Check (B223786-CCV1)				Prepared & Analyzed: 02/07/22					
Chloride	4.63	mg/L		5.000		93	90-110		
<u>Batch B223816 - No Prep - SM 4500F C 1997</u>									
Calibration Blank (B223816-CCB1)				Prepared & Analyzed: 02/08/22					
Fluoride	0.0110	mg/L							
Calibration Blank (B223816-CCB2)				Prepared & Analyzed: 02/08/22					
Fluoride	0.0140	mg/L							
Calibration Check (B223816-CCV1)				Prepared & Analyzed: 02/08/22					
Fluoride	0.737	mg/L		0.7000		105	90-110		
Calibration Check (B223816-CCV2)				Prepared & Analyzed: 02/08/22					
Fluoride	0.699	mg/L		0.7000		100	90-110		
<u>Batch B224030 - No Prep - SM 2320B 1997</u>									
Blank (B224030-BLK1)				Prepared & Analyzed: 02/08/22					
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L							
Duplicate (B224030-DUP2)				Sample: FB00030-03	Prepared & Analyzed: 02/08/22				
Alkalinity - carbonate as CaCO ₃	< 10	mg/L				ND			10
Duplicate (B224030-DUP4)				Sample: FB00030-01	Prepared & Analyzed: 02/08/22				
Alkalinity - carbonate as CaCO ₃	< 10	mg/L				ND			10
<u>Batch B224032 - No Prep - SM 2320B 1997</u>									
Blank (B224032-BLK1)				Prepared & Analyzed: 02/08/22					
Alkalinity - bicarbonate as CaCO ₃	5.00	mg/L							
Blank (B224032-BLK2)				Prepared & Analyzed: 02/08/22					
Alkalinity - bicarbonate as CaCO ₃	2.50	mg/L							
Duplicate (B224032-DUP2)				Sample: FB00030-03	Prepared & Analyzed: 02/08/22				
Alkalinity - bicarbonate as CaCO ₃	450	mg/L			475			5	10
Duplicate (B224032-DUP4)				Sample: FB00030-01	Prepared & Analyzed: 02/08/22				
Alkalinity - bicarbonate as CaCO ₃	400	mg/L			425			6	10



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651



NOTES

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

* Not a TNI accredited analyte

Certifications

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

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

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

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

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

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

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

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

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

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

USEPA DMR-QA Program

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

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

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

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

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

Qualifiers

- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- Q2 Matrix Spike Duplicate failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.

Gail J Schindler

Certified by: Gail Schindler, Project Manager



WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Duck Creek Bottom Ash Basin					Client: RAMBOLL						
Project Number: 2285					Task #: Unit 205		Start Date: 1/31/22		Time: 1050		
Field Personnel: <u>Matt Talien</u>					Finish Date: 1/31/22		Time: 1122				
WELL INFORMATION					EVENT TYPE					PURGE INFORMATION	
Well ID: BA01 UPGRADE					☐ Well Development					Purge Method: ☐ Bailer ☒ Pump	
Casing ID: 2					☒ Low-Flow / Low-Stress Sampling					Bailer Type: n/a	
Screen Interval: n/a					☐ Well Volume Approach Sampling					Pump Type and Serial #: n/a	
Borehole Diameter: n/a					☐ Other (Specify below)					Tube/Pump Intake Depth: n/a	
Filter Pack Interval: n/a										Stabilized Pumping Rate: 250 ml/min	
DEPTH MEASUREMENTS										VOLUME CALCULATION AND PRODUCTION INFORMATION	
INITIAL			FINAL			Volume Calculation Type: ☒ Well Casing ☐ Borehole					
Depth FT BTOC		Date/Time (24-Hour)	Depth FT BTOC	Date/Time (24-Hour)	Volume Per Foot: n/a						
LNAPL	n/a	n/a	n/a	n/a	Standing Water Column: n/a						
Groundwater	14.76	1/31/22 1050	14.81	1/31/22 1122	1 Well Volume: n/a						
DNAPL	n/a	n/a	n/a	n/a	5 Well Volumes: n/a						
Casing Base	n/a	n/a	n/a	n/a	Total Volumes Produced: n/a						
Water Level Serial #: <u>3614</u>					Well Purged Dry? ☐ Yes ☒ No					Aquatroll 600 - <u>405964</u>	
Heron Dipper - <u>3711</u>					Water Quality Probe Type and Serial #: <u>22215</u>						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (mls)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	10:50	0	14.76	0.00							
purge	11:05	1500	14.80	0.04	10.19	6.59	984.92	0.18	4.04	6.7	clear
	11:07	1700	14.80	0.04	10.13	6.59	979.05	0.17	2.95	5.2	clear
	11:09	1900	14.80	0.04	10.10	6.60	978.67	0.17	3.38	3.6	clear
NOTES											
3 bottles MS/MSD/Dmp											
ABBREVIATIONS											
Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured											
ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius											

not 1/31/22

not 1/31/22

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Duck Creek Bottom Ash Basin	Client: RAMBOLL
Project Number: 2285	Task #: Unit 205
Field Personnel: Matt Juleva	Start Date: 1/31/22
	Time: 1145
	Finish Date: 1/31/22
	Time: 1300

WELL INFORMATION

Well ID: BA02	
Casing ID: 2	Inches _____
Screen Interval: n/a	
Borehole Diameter: n/a	Inches _____
Filter Pack Interval: n/a	

EVENT TYPE

☐ Well Development
☒ Low-Flow / Low-Stress Sampling
☐ Well Volume Approach Sampling
☐ Other (Specify below)

PURGE INFORMATION

Purge Method:	☐ Bailer	☒ Pump
Bailer Type:	n/a	
Pump Type and Serial #:	n/a	
Tube/Pump Intake Depth:	n/a	
Stabilized Pumping Rate:	100 ml/min	2.5 L/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Date/Time (24-Hour)	Depth FT BTOC	Date/Time (24-Hour)
LNAPL	n/a	n/a	n/a	n/a
Groundwater	8.90	1/31/22 1145	10.50	1/31/22 1300
DNAPL	n/a	n/a	n/a	n/a
Casing Base	n/a	n/a	n/a	n/a

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type:	 Well Casing	 Borehole
Volume Per Foot:	n/a	
Standing Water Column:	n/a feet	
1 Well Volume:	n/a Gallons	3 Well Volumes: n/a Gallons
5 Well Volumes:	n/a Gallons	10 Well Volumes: n/a Gallons
Total Volumes Produced:	n/a Gallons	
Well Purged Dry?	☐ Yes	☒ No

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (mils)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	11:45	0	8.90	0.00							
purge	12:10	2500	10.28	1.38	10.53	7.13	850.58	6.56	16.23	160.5	clear
	12:12	2700	10.39	1.49	10.42	7.17	844.43	6.64	17.26	161.9	clear
	12:14	2900	10.39	1.49	10.43	7.17	849.51	6.69	17.86	161.6	clear
	12:17	3050	10.33	1.43	9.63	7.19	847.21	6.75	16.88	161.3	clear
	12:21	3200	10.33	1.43	9.67	7.20	846.46	6.74	14.70	161.8	clear
	12:23	3350	10.34	1.44	9.67	7.20	846.17	6.74	14.60	161.8	clear
	12:25	3500	10.34	1.44	9.71	7.20	846.18	6.71	14.23	161.9	clear

NOTES

$$2 + 2 \text{ duplicate}$$

ABBREVIATIONS

Cond. - Actual Conductivity	ORP - Oxidation-Reduction Potential
FT BTQC - Feet Below Top of Casing	SEC - Specific Electrical Conductance
na - Not Applicable	SU - Standard Units
nm - Not Measured	Temp - Temperature
	°C - Degrees Celsius

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Duck Creek Bottom Ash Basin			Client: RAMBOLL								
Project Number: 2285			Task #: Unit 205			Start Date: 1/31/22		Time: 1330			
Field Personnel: Matt J. J. J.			Finish Date: 1/31/22			Time: 1408					
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: BA03			☐ Well Development ☒ Low-Flow / Low-Stress Sampling ☐ Well Volume Approach Sampling ☐ Other (Specify below)			Purge Method: ☐ Bailer ☒ Pump					
Casing ID: 2			Inches			Bailer Type: n/a					
Screen Interval: n/a			Inches			Pump Type and Serial #: n/a					
Borehole Diameter: n/a			Inches			Tube/Pump Intake Depth: n/a					
Filter Pack Interval: n/a			Inches			Stabilized Pumping Rate: 200 min		130 min			
DEPTH MEASUREMENTS					VOLUME CALCULATION AND PRODUCTION INFORMATION						
INITIAL			FINAL		Volume Calculation Type: ☒ Well Casing ☐ Borehole						
Depth	Date/Time	Depth	Date/Time	Volume Per Foot:	n/a						
FT BTOC	(24-Hour)	FT BTOC	(24-Hour)	Standing Water Column:	n/a						
n/a	n/a	n/a	n/a	1 Well Volume:	n/a		3 Well Volumes:		n/a		
7.59	1/31/22 1330	7.95	1/31/22 1408	5 Well Volumes:	n/a		10 Well Volumes:		n/a		
n/a	n/a	n/a	n/a	Total Volumes Produced:	n/a		Gallons				
n/a	n/a	n/a	n/a	Well Purged Dry?	☐ Yes ☒ No		Gallons				
Water Level Serial #: 269022					Water Quality Probe Type and Serial #: Aquatrol 602 #762215						
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (mls)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1330	0	7.59	0.00	11.08	7.20	797.59	4.30	27.11	119.6	51.94
purge	1345	1500	7.95	0.36	10.87	7.20	796.72	4.33	25.17	119.5	51.94
	1347	1700	7.95	0.36	10.64	7.20	796.27	4.36	23.11	119.7	51.94
	1349	1900	7.95	0.36	10.53	7.20	796.01	4.38	20.17	120.1	51.94
	1351	2100	7.95	0.36	10.57	7.19	796.51	4.33	19.61	120.5	51.94
	1353	2300	7.95	0.36	10.62	7.18	796.63	4.29	19.95	120.8	51.94
	1355	2500	7.95	0.36							
NOTES										ABBREVIATIONS	
2 bottles										Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured ORP - Oxidation-Reduction Potential SEC - Specific Electrical Conductance SU - Standard Units Temp - Temperature °C - Degrees Celsius	

mtg 1/31/22

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WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Duck Creek Bottom Ash Basin Client: RAMBOLL
 Project Number: 2285 Task #: Unit 205 Start Date: 1/31/22 Time: 1422
 Field Personnel: Matt Faldich Finish Date: 1/31/22 Time: 1453

WELL INFORMATION
 Well ID: BA04
 Casing ID: 2
 Screen Interval: n/a
 Borehole Diameter: n/a
 Filter Pack Interval: n/a

EVENT TYPE
☐ Well Development
☒ Low-Flow / Low-Stress Sampling
☐ Well Volume Approach Sampling
☐ Other (Specify below)

PURGE INFORMATION
 Purge Method: ☐ Bailer ☒ Pump
 Bailer Type: n/a
 Pump Type and Serial #: n/a
 Tube/Pump Intake Depth: n/a
 Stabilized Pumping Rate: 300 ml/min

DEPTH MEASUREMENTS

	INITIAL	FINAL
Depth FT BTOC	Date/Time (24-Hour)	Date/Time (24-Hour)
LNAPL	n/a	n/a
Groundwater	6.78	6.81
DNAPL	n/a	n/a
Casing Base	n/a	n/a

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☒ Well Casing ☐ Borehole
 Volume Per Foot: n/a
 Standing Water Column: n/a
 1 Well Volume: n/a Gallons
 5 Well Volumes: n/a Gallons
 Total Volumes Produced: n/a Gallons
 Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: 541181 Water Quality Probe Type and Serial #: Aquatrol 600 # 762215

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (mils)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1422	0	6.78	0.03	10.75	7.03	1096.3	1.34	0.97	130.1	clear
purge	1434	1200	6.81	0.03	10.71	7.02	1098.1	1.24	1.11	129.7	clear
	1436	1400	6.81	0.03	10.74	7.01	1100.0	0.94	0.94	128.8	clear
	1438	1600	6.81	0.03	10.86	7.00	1101.8	0.83	1.00	128.1	clear
	1440	1800	6.81	0.03	10.85	6.99	1102.5	0.73	0.91	127.2	clear
	1442	2000	6.81	0.03	10.84	6.99	1102.3	0.64	0.90	126.6	clear
	1444	2200	6.81	0.03	10.84	6.99	1102.3	0.64	0.90	126.6	clear

NOTES

2 bottles

ABBREVIATIONS

Cond - Actual Conductivity
 FT BTOC - Feet Below Top of Casing
 na - Not Applicable
 nm - Not Measured
 °C - Degrees Celsius

ORP - Oxidation-Reduction Potential
 SEC - Specific Electrical Conductance
 SU - Standard Units
 Temp - Temperature

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION											
Site: Duck Creek Bottom Ash Basin			Client: RAMBOLL								
Project Number: 2285			Task #: Unit 205			Start Date: 1/31/22		Time: 1611			
Field Personnel: Matt Talica			Finish Date: 1/31/22			Time: 1642					
WELL INFORMATION			EVENT TYPE			PURGE INFORMATION					
Well ID: BA05			☐ Well Development ☒ Low-Flow / Low-Stress Sampling ☐ Well Volume Approach Sampling ☐ Other (Specify below)			Purge Method: ☐ Bailer ☒ Pump Bailer Type: n/a Pump Type and Serial #: n/a Tube/Pump Intake Depth: n/a Stabilized Pumping Rate: 100 gal/min					
DEPTH MEASUREMENTS			FINAL			VOLUME CALCULATION AND PRODUCTION INFORMATION					
Depth FT BTOC n/a			Date/Time (24-Hour) n/a			Volume Calculation Type: ☒ Well Casing ☐ Borehole Volume Per Foot: n/a					
LNAPL n/a			Depth FT BTOC n/a			Standing Water Column: n/a feet 1 Well Volume: n/a Gallons 3 Well Volumes: n/a Gallons 5 Well Volumes: n/a Gallons 10 Well Volumes: n/a Gallons Total Volumes Produced: n/a Gallons Well Purged Dry? ☐ Yes ☒ No					
DNAPL n/a			Date/Time (24-Hour) n/a								
Casing Base n/a			Date/Time (24-Hour) n/a								
Water Level Serial #: Soling			29022			Water Quality Probe Type and Serial #: Aquaveil 600 # 262215					
WATER QUALITY INDICATOR PARAMETERS											
Sampling Stage	Time (military)	Volume Removed (mils)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1611	0	18.59	0.00	10.45	7.03	1614.2	1.71	5.77	-47.0	c180w
purge	1623	1200	19.80	1.21	10.52	7.03	1614.2	1.64	5.02	-50.0	c180w
	1625	1400	19.94	1.35	10.54	7.03	1613.2	1.64	4.34	-51.7	c180w
	1627	1600	20.05	1.46	10.52	7.04	1614.4	1.62	4.97	-52.2	c180w
	1629	1800	20.11	1.52	10.57	7.03	1616.3	1.61	5.10	-54.0	c180w
	1631	2000	20.19	1.60							
NOTES										ABBREVIATIONS	
Drawdown did not stabilize, slow recharge.										Cond. - Actual Conductivity FT BTOC - Feet Below Top of Casing na - Not Applicable nm - Not Measured °C - Degrees Celsius	

1/31/22

1/31/22

WELL DEVELOPMENT AND GROUNDWATER SAMPLING FIELD FORM

PROJECT INFORMATION

Site: Duck Creek Bottom Ash Basin Client: RAMBOLL
 Project Number: 2285 Task #: Unit 205 Start Date: 1/31/22 Time: 15/2
 Field Personnel: Matt Tuller Finish Date: 1/31/22 Time: 1543

WELL INFORMATION
 Well ID: BA06
 Casing ID: 2 Inches
 Screen Interval: n/a
 Borehole Diameter: n/a
 Filter Pack Interval: n/a

EVENT TYPE
☐ Well Development
☒ Low-Flow / Low-Stress Sampling
☐ Well Volume Approach Sampling
☐ Other (Specify below)

PURGE INFORMATION
 Purge Method: ☐ Bailer ☒ Pump
 Bailer Type: n/a
 Pump Type and Serial #: n/a
 Tube/Pump Intake Depth: n/a
 Stabilized Pumping Rate: 100 ml/min

DEPTH MEASUREMENTS

	INITIAL		FINAL	
	Depth FT BTOC	Date/Time (24-Hour)	Depth FT BTOC	Date/Time (24-Hour)
LNAPL	n/a	n/a	n/a	n/a
Groundwater	22.66	1/31/22 1512	25.29	1/31/22 1543
DNAPL	n/a	n/a	n/a	n/a
Casing Base	n/a	n/a	n/a	n/a

VOLUME CALCULATION AND PRODUCTION INFORMATION

Volume Calculation Type: ☒ Well Casing ☐ Borehole
 Volume Per Foot: n/a
 Standing Water Column: n/a feet
 1 Well Volume: n/a Gallons 3 Well Volumes: n/a Gallons
 5 Well Volumes: n/a Gallons 10 Well Volumes: n/a Gallons
 Total Volumes Produced: n/a Gallons
 Well Purged Dry? ☐ Yes ☒ No

Water Level Serial #: 269022
 Water Quality Probe Type and Serial #: Aquatrol 600 # 263213

WATER QUALITY INDICATOR PARAMETERS

Sampling Stage	Time (military)	Volume Removed (mls)	Depth to Water (Feet)	Drawdown (Feet)	Temp (°C)	pH (SU)	SEC or Cond. (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP (mV)	Visual Clarity
initial	1512	0	22.66	0.00		6.64	3113.1	0.37	228.46	-9.0	moderate
purge	1527	1500	24.18	1.52	10.84	6.64	3106.3	0.32	238.97	-11.5	moderate
	1529	1700	24.35	1.69	10.77	6.65	3073.3	0.29	246.26	-14.1	moderate
	1531	1900	24.51	1.85	10.75	6.64					

NOTES
 drawdown did not stabilize. slow recharge

ABBREVIATIONS
 Cond. - Actual Conductivity
 FT BTOC - Feet Below Top of Casing
 na - Not Applicable
 nm - Not Measured
 °C - Degrees Celsius
 ORP - Oxidation-Reduction Potential
 SEC - Specific Electrical Conductance
 SU - Standard Units
 Temp - Temperature

Multiparameter Meter Field Calibration Checklist

Field Personnel	AP		Date:	1/31/2022	
Weather conditions:	28°-31° F Sunny Wind SE at 12 mph		Signature:		
Make/Model	AquaTroll 600		S/N	762098	
Instrument unpacked/RDO sensor installed from storage solution and rinsed with pH 4 buffer then triple rinsed with DI water prior. Instrument then subjected to calibration check/calibration regiment (pH 4, then pH 7, then pH 10, followed by Spec Con., ORP, and RDO) instrument and calibration cup rinsed between each buffer.					
Sources					
pH Buffers					
Primary Source:					
pH: 4a	4.00	pH: 7a	7.00	pH: 10a	10.00
Range:	+/- 0.02	Range:	+/- 0.02	Range:	+/- 0.02
Manufacturer:	MSI	Manufacturer:	MSI	Manufacturer:	MSI
Lot #:	L159-11	Lot #:	L146-06	Lot #:	K344-09
exp:	10-Jun-23	exp:	1-Jun-23	exp:	17-Dec-22
Secondary Source:					
pH: 4b	4.00	pH: 7b	7.00	pH: 10b	10.00
Range:	+/- 0.01	Range:	+/- 0.01	Range:	+/- 0.01
Manufacturer:	Geotech	Manufacturer:	Geotech	Manufacturer:	Geotech
Lot #:	1GD680	Lot #:	0GJ268	Lot #:	0GJ170
exp:	Apr-23	exp:	Oct-22	exp:	Oct-22
Spec Con.					
µS/cm: DI water	0	µS/cm: SC1000	1000	µS/cm: SC2000	2000
Range:	Not Measured	Range:	+/- 1	Range:	+/- 1 %
Manufacturer:	PDC Laboratories, Inc	Manufacturer:	RICCA Chemical	Manufacturer:	Geotech
Received:		Lot #:	4101A25	Lot #:	1GF629
		exp:	Dec-22	exp:	Jun-22
RDO					
Sodium Sulfite in DI Water		ORP		Zobell's Standard	
Value:	0	Value*:	242 15°C		
Range:	+/- 0.01	Range:	+/- 10 mV		
Manufacturer:	Fisher Chemical	Manufacturer:	In-Situ		
Lot #:	168261	Lot #:	1GF668		
Prepared by:	PDC Tech Services, Inc:	exp:	Mar-22		
Turbidity (if required)					
0 NTU	0 (DI Water)	1 NTU	1	10 NTU	10
Range:	Not Measured	Range:		Range:	
Manufacturer:	PDC Laboratories, Inc	Manufacturer:		Manufacturer:	
Lot #:	NA	Lot #:		Lot #:	
exp:	NA	exp:		exp:	
Notes: *See bottle for chart of values based on Temperature					

Multiparameter Meter Calibration Checklist (continued)

Values are tested at the beginning of the day, at mid-day, and at the end of the day to document potential drift.
CCV checks are conducted ~ every 4 hours, unless only one well is read then is not required.

Initial Calibration Check/Calibration: 1004

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4a	3.95	s.u.	±0.1 s.u.	Pass	No	N/A
7a	7.00	s.u.	±0.1 s.u.			
10a	0.06	s.u.	±0.1 s.u.			
SC Zero (DI)	0.11	µS/cm	0<25 µS/cm			
SC 2000	2066.7	µS/cm	±5%			
ORP	247.7	mV	±15 mV			
DO (Zero pt)	0.08	mg/L	±0.1			
DO (Saturated)	98.72	%	97-100%			
Turbidity (DI)	0.00	NTU	<2 NTU			

ICV (Initial Calibration Verification)

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?
4b	4.00	s.u.	±0.15 s.u.	Pass	N/A
7b	6.86	s.u.	±0.15 s.u.		
10b	9.87	s.u.	±0.15 s.u.		
SC1000	1016.6	µS/cm	±5%		

CCV (Continued Calibration Verification):

1658

Approx. every 4 hrs, unless only one well

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4	4.80	s.u.	±0.1 s.u.	Pass	No	N/A
7	7.10	s.u.	±0.1 s.u.			
10	10.05	s.u.	±0.1 s.u.			
SC 1000	1026.0	µS/cm	±5%			
DO (Zero pt)	0.08	mg/L	±0.1 mg/L			
Turbidity (DI)	0.00	NTU	<2 NTU			

CCV (Continued Calibration Verification):

Approx. every 4 hrs, unless only one well

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4		s.u.	±0.1 s.u.			
7*		s.u.	±0.1 s.u.			
10		s.u.	±0.1 s.u.			
SC 1000		µS/cm	±5%			
DO (Zero pt)		mg/L	±0.1 mg/L			
Turbidity (DI)		NTU	<2 NTU			

Comments:

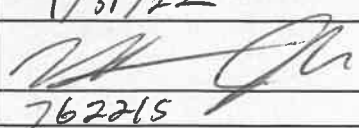
Signature:

Date:



1/31/2022

Multiparameter Meter Field Calibration Checklist

Field Personnel	Matt Julien		Date:	1/31/22	
Weather conditions:	28°-39°F Sunny - P. cloudy wind SE 10-15 mph		Signature:		
Make/Model	AquaTroll 600		S/N	762215	
Instrument unpacked/RDO sensor installed from storage solution and rinsed with pH 4 buffer then triple rinsed with DI water prior. Instrument then subjected to calibration check/calibration regiment (pH 4, then pH 7, then pH 10, followed by Spec Con., ORP, and RDO) instrument and calibration cup rinsed between each buffer.					
Sources					
pH Buffers					
Primary Source:					
pH: 4a	4.00	pH: 7a	7.00	pH: 10a	10.00
Range:	+/- 0.02	Range:	+/- 0.02	Range:	+/- 0.02
Manufacturer:	MSI	Manufacturer:	MSI	Manufacturer:	MSI
Lot #:	L159-11	Lot #:	L146-06	Lot #:	K344-09
exp:	10-Jun-23	exp:	1-Jun-23	exp:	17-Dec-22
Secondary Source:					
pH: 4b	4.00	pH: 7b	7.00	pH: 10b	10.00
Range:	+/- 0.01	Range:	+/- 0.01	Range:	+/- 0.01
Manufacturer:	Geotech	Manufacturer:	Geotech	Manufacturer:	Geotech
Lot #:	1GD680	Lot #:	0GJ268	Lot #:	0GJ170
exp:	Apr-23	exp:	Oct-22	exp:	Oct-22
Spec Con.					
μS/cm: DI water	0	μS/cm: SC1000	1000	μS/cm: SC2000	2000
Range:	Not Measured	Range:	+/- 1	Range:	+/- 1 %
Manufacturer:	PDC Laboratories, Inc	Manufacturer:	RICCA Chemical	Manufacturer:	Geotech
Received:		Lot #:	4101A25	Lot #:	1GF629
		exp:	Dec-22	exp:	Jun-22
RDO					
Value:	Sodium Sulfite in DI Water		ORP	Zobell's Standard	
Range:	+/- 0.01		Value*:		
Manufacturer:	Fisher Chemical		Range:	+/- 10 mV	
Lot #:	168261		Manufacturer:	In-Situ	
Prepared by:	PDC Tech Services, Inc:		Lot #:	1GF668	
			exp:	Mar-22	
Turbidity (if required)					
0 NTU	0 (DI Water)	1 NTU	1	10 NTU	10
Range:	Not Measured	Range:		Range:	
Manufacturer:	PDC Laboratories, Inc	Manufacturer:		Manufacturer:	
Lot #:	NA	Lot #:		Lot #:	
exp:	NA	exp:		exp:	
Notes:					
	*See bottle for chart of values based on Temperature				

Multiparameter Meter Calibration Checklist (continued)

Values are tested at the beginning of the day, at mid-day, and at the end of the day to document potential drift.

CCV checks are conducted ~ every 4 hours, unless only one well is read then is not required.

Initial Calibration Check/Calibration: **0956**

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4a	4.10	s.u.	±0.1 s.u.	Pass	Yes	4.00
7a	7.04	s.u.	±0.1 s.u.	↓	↓	7.00
10a	10.00	s.u.	±0.1 s.u.	↓	↓	10.00
SC Zero (DI)	13.98	µS/cm	0<25 µS/cm	Pass	No	N/A
SC 2000	2013.9	µS/cm	±5%	↓	↓	↓
ORP	224.7019	mV	±15 mV	↓	↓	↓
DO (Zero pt)	0.05	mg/L	±0.1	↓	↓	↓
DO (Saturated)	97.84	%	97-100%	↓	↓	↓
Turbidity (DI)	0.98	NTU	<2 NTU	↓	↓	↓

ICV (Initial Calibration Verification) **10:05**

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?
4b	4.05	s.u.	±0.15 s.u.	Pass	None
7b	6.89	s.u.	±0.15 s.u.	↓	↓
10b	9.88	s.u.	±0.15 s.u.	↓	↓
SC1000	1000.0	µS/cm	±5%	↓	↓

CCV (Continued Calibration Verification): **1415**

Approx. every 4 hrs, unless only one well

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4	4.03	s.u.	±0.1 s.u.	Pass	No	N/A
7	7.01	s.u.	±0.1 s.u.	↓	↓	↓
10	10.02	s.u.	±0.1 s.u.	↓	↓	↓
SC 1000	1003.7	µS/cm	±5%	↓	↓	↓
DO (Zero pt)	0.07	mg/L	±0.1 mg/L	↓	↓	↓
Turbidity (DI)	0.84	NTU	<2 NTU	↓	↓	↓

CCV (Continued Calibration Verification): **17:02**

Approx. every 4 hrs, unless only one well

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4	4.05	s.u.	±0.1 s.u.	Pass	No	N/A
7*	7.02	s.u.	±0.1 s.u.	↓	↓	↓
10	10.04	s.u.	±0.1 s.u.	↓	↓	↓
SC 1000	1003.0	µS/cm	±5%	↓	↓	↓
DO (Zero pt)	0.06	mg/L	±0.1 mg/L	↓	↓	↓
Turbidity (DI)	0.93	NTU	<2 NTU	↓	↓	↓

Comments:

Signature:



Date:

1/31/22

Multiparameter Meter Field Calibration Checklist

Field Personnel:	MIN	Date:	1/31/22
Weather conditions:	28-40°, sunny, No 11MPH wind	Signature:	<i>[Signature]</i>
Make/Model:	AquaTroll 600	S/N:	846000

Instrument unpacked/RDO sensor installed from storage solution and rinsed with pH 4 buffer then triple rinsed with DI water prior. Instrument then subjected to calibration check/calibration regiment (pH 4, then pH 7, then pH 10, followed by Spec Con., ORP, and RDO) instrument and calibration cup rinsed between each buffer.

Sources

pH Buffers					
Primary Source:					
pH: 4a	4.00	pH: 7a	7.00	pH: 10a	10.00
Range:	+/- 0.02	Range:	+/- 0.02	Range:	+/- 0.02
Manufacturer:	MSI	Manufacturer:	MSI	Manufacturer:	MSI
Lot #:	L159-11	Lot #:	L146-06	Lot #:	K344-09
exp:	10-Jun-23	exp:	1-Jun-23	exp:	17-Dec-22

Secondary Source:					
pH: 4b	4.00	pH: 7b	7.00	pH: 10b	10.00
Range:	+/- 0.01	Range:	+/- 0.01	Range:	+/- 0.01
Manufacturer:	Geotech	Manufacturer:	Geotech	Manufacturer:	Geotech
Lot #:	1GD680	Lot #:	0GJ268	Lot #:	0GJ170
exp:	Apr-23	exp:	Oct-22	exp:	Oct-22

Spec Con.					
µS/cm: DI water	0	µS/cm: SC1000	1000	µS/cm: SC2000	2000
Range:	Not Measured	Range:	+/- 1	Range:	+/- 1 %
Manufacturer:	PDC Laboratories, Inc	Manufacturer:	RICCA Chemical	Manufacturer:	Geotech
Received:		Lot #:	4101A25	Lot #:	1GF629
		exp:	Dec-22	exp:	Jun-22

RDO	Sodium Sulfite in DI Water	ORP	Zobell's Standard
Value:	0	Value*:	
Range:	+/- 0.01	Range:	+/- 10 mV
Manufacturer:	Fisher Chemical	Manufacturer:	In-Situ
Lot #:	168261	Lot #:	1GF668
Prepared by:	PDC Tech Services, Inc:	exp:	Mar-22

Turbidity (if required)					
0 NTU	0 (DI Water)	1 NTU	1	10 NTU	10
Range:	Not Measured	Range:		Range:	
Manufacturer:	PDC Laboratories, Inc	Manufacturer:		Manufacturer:	
Lot #:	NA	Lot #:		Lot #:	
exp:	NA	exp:		exp:	

Notes: *See bottle for chart of values based on Temperature

Multiparameter Meter Calibration Checklist (continued)

Values are tested at the beginning of the day, at mid-day, and at the end of the day to document potential drift.

CCV checks are conducted ~ every 4 hours, unless only one well is read then is not required.

Initial Calibration Check/Calibration: 0951

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4a	4.03	s.u.	±0.1 s.u.	P	N	N/A
7a	7.04	s.u.	±0.1 s.u.			
10a	10.03	s.u.	±0.1 s.u.			
SC Zero (DI)	5.47	µS/cm	0<25 µS/cm			
SC 2000	2005	µS/cm	±5%			
ORP	228	mV	±15 mV			
DO (Zero pt)	0.04	mg/L	±0.1			
DO (Saturated)	97.47	%	97-100%			
Turbidity (DI)	0.00	NTU	<2 NTU			

ICV (Initial Calibration Verification)

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?
4b	4.04	s.u.	±0.15 s.u.	P	N/A
7b	6.91	s.u.	±0.15 s.u.		
10b	10.00	s.u.	±0.15 s.u.		
SC1000	982	µS/cm	±5%		

CCV (Continued Calibration Verification): 1652

Approx. every 4 hrs, unless only one well

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4	4.04	s.u.	±0.1 s.u.	P	N	N/A
7	7.02	s.u.	±0.1 s.u.			
10	9.99	s.u.	±0.1 s.u.			
SC 1000	1004	µS/cm	±5%			
DO (Zero pt)	0.04	mg/L	±0.1 mg/L			
Turbidity (DI)	0.00	NTU	<2 NTU			

CCV (Continued Calibration Verification):

Approx. every 4 hrs, unless only one well

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4		s.u.	±0.1 s.u.			
7*		s.u.	±0.1 s.u.			
10		s.u.	±0.1 s.u.			
SC 1000		µS/cm	±5%			
DO (Zero pt)		mg/L	±0.1 mg/L			
Turbidity (DI)		NTU	<2 NTU			

Comments:

Signature:



Date:

1/31/22

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Jac Reed	Date:	1/31/22
Weather conditions:		Signature:	Joseph R Reed
Make/Model:	Amprobe 600x Heriba	S/N:	Heriba NE8 AGL 65

Instrument unpacked/RDO sensor installed from storage solution and rinsed with pH 4 buffer then triple rinsed with DI water prior. Instrument then subjected to calibration check/calibration regiment (pH 4, then pH 7, then pH 10, followed by Spec Con., ORP, and RDO) instrument and calibration cup rinsed between each buffer.

Sources

pH Buffers

Primary Source:					
pH: 4a	4.00	pH: 7a	7.00	pH: 10a	10.00
Range:	+/- 0.02	Range:	+/- 0.02	Range:	+/- 0.02
Manufacturer:	MSI	Manufacturer:	MSI	Manufacturer:	MSI
Lot #:	L159-11	Lot #:	L146-06	Lot #:	K344-09
exp:	10-Jun-23	exp:	1-Jun-23	exp:	17-Dec-22

Secondary Source:					
pH: 4b	4.00	pH: 7b	7.00	pH: 10b	10.00
Range:	+/- 0.01	Range:	+/- 0.01	Range:	+/- 0.01
Manufacturer:	Geotech	Manufacturer:	Geotech	Manufacturer:	Geotech
Lot #:	1GD680	Lot #:	0GJ268	Lot #:	0GJ170
exp:	Apr-23	exp:	Oct-22	exp:	Oct-22

Spec Con.

µS/cm: DI water	0	µS/cm: SC1000	1000	µS/cm: SC2000	2000
Range:	Not Measured	Range:	+/- 1	Range:	+/- 1 %
Manufacturer:	PDC Laboratories, Inc	Manufacturer:	RICCA Chemical	Manufacturer:	Geotech
Received:		Lot #:	4101A25	Lot #:	1GF629
		exp:	Dec-22	exp:	Jun-22

RDO	Sodium Sulfite in DI Water	ORP	Zobell's Standard
Value:	0	Value*: 213°C	
Range:	+/- 0.01	Range:	+/- 10 mV
Manufacturer:	Fisher Chemical	Manufacturer:	In-Situ
Lot #:	168261	Lot #:	1GF668
Prepared by:	PDC Tech Services, Inc:	exp:	Mar-22

Turbidity (if required)

0 NTU	0 (DI Water)	1 NTU	1	10 NTU	10
Range:	Not Measured	Range:		Range:	
Manufacturer:	PDC Laboratories, Inc	Manufacturer:		Manufacturer:	
Lot #:	NA	Lot #:		Lot #:	
exp:	NA	exp:		exp:	

Notes: *See bottle for chart of values based on Temperature

Multiparameter Meter Calibration Checklist (continued)

Values are tested at the beginning of the day, at mid-day, and at the end of the day to document potential drift.

CCV checks are conducted ~ every 4 hours, unless only one well is read then is not required.

Initial Calibration Check/Calibration:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4a	3.97	s.u.	±0.1 s.u.	Pass?		
7a		s.u.	±0.1 s.u.			
10a		s.u.	±0.1 s.u.			
SC Zero (DI)		µS/cm	0<25 µS/cm			
SC 2000		µS/cm	±5%			
ORP	275	mV	±15 mV			
DO (Zero pt)	8.46	mg/L	±0.1	< regular reading		
DO (Saturated)		%	97-100%			
Turbidity (DI)	0.0	NTU	<2 NTU			

ICV (Initial Calibration Verification)

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?
4b		s.u.	±0.15 s.u.		
7b		s.u.	±0.15 s.u.		
10b		s.u.	±0.15 s.u.		
SC1000		µS/cm	±5%		

CCV (Continued Calibration Verification):

Approx. every 4 hrs, unless only one well

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4		s.u.	±0.1 s.u.			
7		s.u.	±0.1 s.u.			
10		s.u.	±0.1 s.u.			
SC 1000		µS/cm	±5%			
DO (Zero pt)		mg/L	±0.1 mg/L			
Turbidity (DI)		NTU	<2 NTU			

CCV (Continued Calibration Verification):

Approx. every 4 hrs, unless only one well

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading
4	3.99	s.u.	±0.1 s.u.	Pass		
7*		s.u.	±0.1 s.u.			
10		s.u.	±0.1 s.u.			
SC 1000		µS/cm	±5%			
DO (Zero pt)		mg/L	±0.1 mg/L			
Turbidity (DI)	0.0	NTU	<2 NTU			

Comments:

Signature:

Joseph R. Reed

Date:

1/31/22

21.3°C

Used Factory Solutions

4.40

RAMBOLL
234 W. FLORIDA STREET, 5th FLOOR
MILWAUKEE, WI 53204
TEL: 414.837.3607

RAMBOLL - MILWAUKEE

CHAIN OF CUSTODY #

615 2-1-22

DATE: 1/31/22

TEL: 414.837.3607

PAGE: 1 OF 1

LABORATORY SAMPLES SUBMITTED TO:

Laboratories, Inc.

1 W Altorfer Drive

TY:

ria, IL 61615

EL:

TEL: 683-1716

FAX: 309-692-9689

JRNAROUND TIME

STANDARD 24 HR 48 HR 5 DAYS

a Package: Level 2 Level 4

E-MAIL

gschindler@pdcilab.com

CLIENT PROJECT NAME

Duck Creek Bottom Ash Basin

PROJECT CONTACT:

Gail Schindler

SAMPLER(S) (SIGNATURE)

PROJECT NUMBER / TASK NAME

2285 / Unit 205

QUOTE NO.:

REQUESTED ANALYSIS

Method Number and Analytes			
A	A	D	N
N	N	N	N

Preservation Code
(pick letter)
Filtered (Yor N)

Preservatives: A = none, B = HCL, C = H₂SO₄,
D = HNO₃, E = methanol, F = Sodium Bisulfate,
G = zinc acetate, H = other

SPECIAL REQUIREMENTS

3 USE ONLY	SAMPLE ID	QC SAMPLE	FIELD COMMENTS	SAMPLE		MATRIX	SAMPLE TYPE	SAMPLE INTERVAL (H)		#cont	Method Number and Analytes											
				DATE	TIME			TOP	BOTTOM		C, F, SO ₄	TDS	B, Ca	A	A	D	N	N	N	N	N	N
	BA01	ms / MSQ		1/31/22	1122	GW	Grab			3	X	X	X	X	X	X	X	X	X	X	X	X
	BA02			1/31/22	1300	GW	Grab			2	X	X	X	X	X	X	X	X	X	X	X	X
	BA02 Duplicate			1/31/22	1300	GW	Grab			2	X	X	X	X	X	X	X	X	X	X	X	X
	BA03			1/31/22	1408	GW	Grab			2	X	X	X	X	X	X	X	X	X	X	X	X
	BA04			1/31/22	1453	GW	Grab			2	X	X	X	X	X	X	X	X	X	X	X	X
	BA05			1/31/22	1612	GW	Grab			2	X	X	X	X	X	X	X	X	X	X	X	X
	BA06			1/31/22	1543	GW	Grab			2	X	X	X	X	X	X	X	X	X	X	X	X

Received by: (Signature)

Received by: (Signature)



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

August 05, 2022

Daryl Johnson
Vistra - Duck Creek
17751 North Cilco Road
Canton, IL 61520-8761

Dear Daryl Johnson:

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 Director of Client Services, 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 that reads "Gail Schindler".

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

**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

Work Order FF04693

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



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

Case Narrative

Revised Report - repoted to MDL with J flags



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

ANALYTICAL RESULTS

Sample: FF04693-01

Name: BA01

Matrix: Ground Water - Grab

Sampled: 06/23/22 10:00

Received: 06/23/22 14:16

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
pH, Field Measured	6.98	pH Units		06/23/22 10:00	1		06/23/22 10:00	FIELD	Field



Pace Analytical Services, LLC

2231 W. Altorfer Drive

Peoria, IL 61615

(800)752-6651

QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit



NOTES

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

* Not a TNI accredited analyte

Memos

Revised Report - added missing collection times

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

Gail G Schindler



Certified by: Gail Schindler, Project Manager

DUCK CREEK BOTTOM ASH BASIN

WELL/SAMPLE POINT BA01

Purge Method: Low-flow / Bubbler

Date: 6/23/22 Start Time: 1031 Finish/Sample Time: 1056

Well Depth (Bottom) From MP: _____ ft
 Depth to Water From MP: 14.50 ft
 Water Column Length: _____ ft
 Well Water Volume: _____ Gal / L
 Min. Purge Volume: _____ Gal / L
 Total Purge Volume: 2.0 Gal / L
 Max Drawdown: _____ ft
 Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1041	14.52	100	6.99	926.71	18.21	36.0	0.34	5.71
2	1043	14.52	100	6.99	934.22	17.88	35.8	0.53	7.62
3	1045	14.52	100	6.99	944.12	17.96	19.0	0.71	7.83
4	1047	14.52	100	6.99	922.32	17.94	3.8	0.89	7.52
5	1049	14.52	100	6.99	932.38	17.88	1.6	0.91	9.57
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600 #606127

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	/	/

pad moved

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) <i>6/23/22</i>
	<i>500</i>

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

Final DTW: 14.52 ft

Comments

Sampler's Signature: 

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Aidan Jones</u>				Location: <u>Duck Creek</u>			
Weather:				Environment: <u>grassy, open clearing</u>			
Multiparameter Water Meter		Make: <u>AT</u>	Model: <u>600</u>	Serial Number: <u>846000</u>			
Water Level Meter		Make: <u>Heron</u>	Model: <u>Dipper-T2</u>	Serial Number: <u>19FF211192HB</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.39</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Y</u>	<u>4.00</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>6.38</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Y</u>	<u>7.00</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>9.42</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Y</u>	<u>10.00</u>	MSI	L354-22	1/5/2024
SC Zero (DI)	<u>20.54</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N/A</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>21055.3</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Geotech	1GK328	Nov-22
ORP	<u>211.2</u>	mV	±15 mV	<u>I</u>	<u>I</u>	<u>I</u>	InSitu	1GL481	Sep-22
DO (Zero pt)	<u>0.03</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>1.29</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>9:22</u>				
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Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.11</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	1GF009	Jun-23
pH 7.00b	<u>6.95</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech	0GJ268	Oct-22
pH 10.00b	<u>9.41</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech	1GF458	Jun-23
SC 1000	<u>1038.3</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	Ricca	2108D48	Jul-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>13:11</u>				
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.97</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N/A</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>6.95</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1021.1</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.05</u>	mg/L	±0.1 mg/L	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.95</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

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

Comments:

Signature: <u>Aidan Jones</u>	Date: <u>6/23/22</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: KALEB DECKE		Location: DUCK CREEK	
Weather: 79° SUNNY WIND SWS		Environment: GRASSY	
Multiparameter Water Meter	Make: AT	Model: 600	Serial Number: 762098
Water Level Meter	Make: HERRON	Model: WATER TAPE	Serial Number: 19FF2202131ML

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	Pass	No	NA	MSI	L315-04	11/22/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	Pass	No	NA	MSI	L172-33	6/23/2023
pH 10.00a	9.97	s.u.	±0.1 s.u.	Pass	No	NA	MSI	L354-22	1/5/2024
SC Zero (DI)	0.00	µS/cm	0<25 µS/cm	Pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1979.0	µS/cm	±5%	Pass	No	NA	Geotech	1GK328	Nov-22
ORP	213.00	mV	±15 mV	Pass	No	NA	InSitu	1GL481	Sep-22
DO (Zero pt)	0.08	mg/L	±0.1	Pass	No	NA	Macron	#000228049	8/26/2025
DO (Saturated)	99.71	%	97-100%	Pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.01	NTU	<2 NTU	Pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 0900			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.05	s.u.	±0.15 s.u.	Pass	No	Geotech	1GF009	Jun-23
pH 7.00b	7.05	s.u.	±0.15 s.u.	Pass	No	Geotech	0GJ268	Oct-22
pH 10.00b	9.85	s.u.	±0.15 s.u.	Pass	No	Geotech	1GF458	Jun-23
SC 1000	1010.00	µS/cm	±5%	Pass	No	Ricca	2108D48	Jul-23

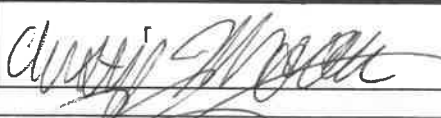
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1250				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	Pass	No	NA	MSI	L315-04	11/22/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	Pass	No	NA	MSI	L172-33	6/23/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.	Pass	No	NA	MSI	L354-22	1/5/2024
SC 1000	998.21	µS/cm	±5%	Pass	No	NA	Ricca	2108D48	Jul-23
DO (Zero pt)	0.00	mg/L	±0.1 mg/L	Pass	No	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	1.051	NTU	<2 NTU	Pass	No	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1255				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: 	Date: 23-Jun-22
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REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

STATE WHERE SAMPLE COLLECTED

[illegible]



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

October 06, 2022

Daryl Johnson
Vistra - Duck Creek
17751 North Cilco Road
Canton, IL 61520-8761

Dear Daryl Johnson:

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 Director of Client Services, 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 that reads "Gail Schindler".

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

**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

Work Order FG03531

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 FG03866

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: FG03531-01
Name: DC BA01
Matrix: Ground Water - Grab

Sampled: 07/19/22 14:53
Received: 07/20/22 08:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	10	mg/L		07/25/22 12:03	5	5.0	07/25/22 12:03	CJP	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/25/22 11:45	1	0.250	07/25/22 11:45	CJP	EPA 300.0 REV 2.1
Sulfate	130	mg/L		07/25/22 12:21	25	25	07/25/22 12:21	CJP	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	15.01	Feet		07/19/22 14:53	1		07/19/22 14:53	FIELD	Field
Dissolved oxygen, Field	0.60	mg/L		07/19/22 14:53	1		07/19/22 14:53	FIELD	Field
Oxidation Reduction Potential	-63.2	mV		07/19/22 14:53	1	-500	07/19/22 14:53	FIELD	Field
pH, Field Measured	7.76	pH Units		07/19/22 14:53	1		07/19/22 14:53	FIELD	Field
Specific Conductance, Field Measured	967.3	umhos/cm		07/19/22 14:53	1		07/19/22 14:53	FIELD	Field
Temperature, Field Measured	61.6	°F		07/19/22 14:53	1		07/19/22 14:53	FIELD	Field
Temperature, Field Measured	16.4	°C		07/19/22 14:53	1		07/19/22 14:53	FIELD	Field
Turbidity, Field Measured	1.48	NTU		07/19/22 14:53	1	0.00	07/19/22 14:53	FIELD	Field
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	400	mg/L		07/21/22 08:05	1	10	07/21/22 08:05	KAM	SM 2320B 1997
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		07/21/22 08:05	1	10	07/21/22 08:05	KAM	SM 2320B 1997
Solids - total dissolved solids (TDS)	690	mg/L		07/21/22 14:57	1	26	07/21/22 16:26	CGL	SM 2540C
Total Metals - PIA									
Boron	26	ug/L		07/25/22 09:48	5	10	07/29/22 07:52	JMW	EPA 6020A
Calcium	130	mg/L	Q4	07/25/22 09:48	5	0.20	07/28/22 11:54	JMW	EPA 6020A
Magnesium	61	mg/L		07/25/22 09:48	5	0.10	07/28/22 11:54	JMW	EPA 6020A
Potassium	0.64	mg/L		07/25/22 09:48	5	0.10	07/28/22 11:54	JMW	EPA 6020A
Sodium	11	mg/L		07/25/22 09:48	5	0.10	07/28/22 11:54	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FG03531-02
Name: DC BA04
Matrix: Ground Water - Grab

Sampled: 07/19/22 15:35
Received: 07/20/22 08:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	46	mg/L		07/25/22 13:33	5	5.0	07/25/22 13:33	CJP	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/25/22 13:15	1	0.250	07/25/22 13:15	CJP	EPA 300.0 REV 2.1
Sulfate	170	mg/L		07/25/22 13:51	25	25	07/25/22 13:51	CJP	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.26	Feet		07/19/22 15:35	1		07/19/22 15:35	FIELD	Field
Dissolved oxygen, Field	0.79	mg/L		07/19/22 15:35	1		07/19/22 15:35	FIELD	Field
Oxidation Reduction Potential	42.7	mV		07/19/22 15:35	1	-500	07/19/22 15:35	FIELD	Field
pH, Field Measured	7.64	pH Units		07/19/22 15:35	1		07/19/22 15:35	FIELD	Field
Specific Conductance, Field Measured	1170	umhos/cm		07/19/22 15:35	1		07/19/22 15:35	FIELD	Field
Temperature, Field Measured	68.4	°F		07/19/22 15:35	1		07/19/22 15:35	FIELD	Field
Temperature, Field Measured	20.2	°C		07/19/22 15:35	1		07/19/22 15:35	FIELD	Field
Turbidity, Field Measured	1.75	NTU		07/19/22 15:35	1	0.00	07/19/22 15:35	FIELD	Field
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	420	mg/L		07/21/22 08:05	1	10	07/21/22 08:05	KAM	SM 2320B 1997
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		07/21/22 08:05	1	10	07/21/22 08:05	KAM	SM 2320B 1997
Solids - total dissolved solids (TDS)	790	mg/L		07/21/22 14:57	1	26	07/21/22 16:26	CGL	SM 2540C
Total Metals - PIA									
Boron	330	ug/L		07/25/22 09:48	5	10	07/29/22 08:03	JMW	EPA 6020A
Calcium	140	mg/L		07/25/22 09:48	5	0.20	07/28/22 11:57	JMW	EPA 6020A
Magnesium	71	mg/L		07/25/22 09:48	5	0.10	07/28/22 11:57	JMW	EPA 6020A
Potassium	0.91	mg/L		07/25/22 09:48	5	0.10	07/28/22 11:57	JMW	EPA 6020A
Sodium	13	mg/L		07/25/22 09:48	5	0.10	07/28/22 11:57	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FG03531-03
Name: DC BA05
Matrix: Ground Water - Grab

Sampled: 07/19/22 13:16
Received: 07/20/22 08:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	9.8	mg/L		07/25/22 14:09	1	1.0	07/25/22 14:09	CJP	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/25/22 14:09	1	0.250	07/25/22 14:09	CJP	EPA 300.0 REV 2.1
Sulfate	520	mg/L		07/25/22 14:46	100	100	07/25/22 14:46	CJP	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	20.75	Feet		07/19/22 13:16	1		07/19/22 13:16	FIELD	Field
Dissolved oxygen, Field	0.47	mg/L		07/19/22 13:16	1		07/19/22 13:16	FIELD	Field
Oxidation Reduction Potential	-102	mV		07/19/22 13:16	1	-500	07/19/22 13:16	FIELD	Field
pH, Field Measured	7.68	pH Units		07/19/22 13:16	1		07/19/22 13:16	FIELD	Field
Specific Conductance, Field Measured	1558	umhos/cm		07/19/22 13:16	1		07/19/22 13:16	FIELD	Field
Temperature, Field Measured	61.2	°F		07/19/22 13:16	1		07/19/22 13:16	FIELD	Field
Temperature, Field Measured	16.2	°C		07/19/22 13:16	1		07/19/22 13:16	FIELD	Field
Turbidity, Field Measured	1.12	NTU		07/19/22 13:16	1	0.00	07/19/22 13:16	FIELD	Field
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	490	mg/L		07/21/22 08:05	1	10	07/21/22 08:05	KAM	SM 2320B 1997
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		07/21/22 08:05	1	10	07/21/22 08:05	KAM	SM 2320B 1997
Solids - total dissolved solids (TDS)	1300	mg/L		07/21/22 14:57	1	26	07/21/22 16:26	CGL	SM 2540C
Total Metals - PIA									
Boron	110	ug/L		07/25/22 09:48	5	10	07/29/22 08:06	JMW	EPA 6020A
Calcium	200	mg/L		07/25/22 09:48	5	0.20	07/28/22 12:01	JMW	EPA 6020A
Magnesium	100	mg/L		07/25/22 09:48	5	0.10	07/28/22 12:01	JMW	EPA 6020A
Potassium	3.0	mg/L		07/25/22 09:48	5	0.10	07/28/22 12:01	JMW	EPA 6020A
Sodium	46	mg/L		07/25/22 09:48	5	0.10	07/28/22 12:01	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FG03531-04
Name: DC BA06
Matrix: Ground Water - Grab

Sampled: 07/19/22 14:03
Received: 07/20/22 08:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	470	mg/L		07/25/22 15:04	100	100	07/25/22 15:04	CJP	EPA 300.0 REV 2.1
Sulfate	320	mg/L		07/25/22 15:04	100	100	07/25/22 15:04	CJP	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	25.59	Feet		07/19/22 14:03	1		07/19/22 14:03	FIELD	Field
Dissolved oxygen, Field	0.54	mg/L		07/19/22 14:03	1		07/19/22 14:03	FIELD	Field
Oxidation Reduction Potential	-62.6	mV		07/19/22 14:03	1	-500	07/19/22 14:03	FIELD	Field
pH, Field Measured	7.10	pH Units		07/19/22 14:03	1		07/19/22 14:03	FIELD	Field
Specific Conductance, Field Measured	2957	umhos/cm		07/19/22 14:03	1		07/19/22 14:03	FIELD	Field
Temperature, Field Measured	16.5	°C		07/19/22 14:03	1		07/19/22 14:03	FIELD	Field
Temperature, Field Measured	61.6	°F		07/19/22 14:03	1		07/19/22 14:03	FIELD	Field
Turbidity, Field Measured	1.69	NTU		07/19/22 14:03	1	0.00	07/19/22 14:03	FIELD	Field
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	580	mg/L		07/21/22 08:05	1	10	07/21/22 08:05	KAM	SM 2320B 1997
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		07/21/22 08:05	1	10	07/21/22 08:05	KAM	SM 2320B 1997
Fluoride	< 0.250	mg/L		07/27/22 15:16	1	0.250	07/27/22 15:16	TTH	SM 4500F C 1997
Solids - total dissolved solids (TDS)	850	mg/L		07/21/22 14:57	1	26	07/21/22 16:26	CGL	SM 2540C
Total Metals - PIA									
Boron	6700	ug/L		07/25/22 09:48	5	10	07/29/22 11:49	JMW	EPA 6020A
Calcium	310	mg/L		07/25/22 09:48	5	0.20	07/28/22 12:05	JMW	EPA 6020A
Magnesium	210	mg/L		07/25/22 09:48	5	0.10	07/28/22 12:05	JMW	EPA 6020A
Potassium	0.33	mg/L		07/25/22 09:48	5	0.10	07/28/22 12:05	JMW	EPA 6020A
Sodium	17	mg/L		07/25/22 09:48	5	0.10	07/28/22 12:05	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FG03866-01
Name: DC BA02
Matrix: Ground Water - Grab

Sampled: 07/20/22 12:48
Received: 07/21/22 08:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	9.6	mg/L		07/25/22 15:58	1	1.0	07/25/22 15:58	CJP	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/25/22 15:58	1	0.250	07/25/22 15:58	CJP	EPA 300.0 REV 2.1
Sulfate	13	mg/L		07/25/22 16:52	5	5.0	07/25/22 16:52	CJP	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	10.05	Feet		07/20/22 12:48	1		07/20/22 12:48	FIELD	Field
Dissolved oxygen, Field	3.8	mg/L		07/20/22 12:48	1		07/20/22 12:48	FIELD	Field
Oxidation Reduction Potential	37.0	mV		07/20/22 12:48	1	-500	07/20/22 12:48	FIELD	Field
pH, Field Measured	6.87	pH Units		07/20/22 12:48	1		07/20/22 12:48	FIELD	Field
Specific Conductance, Field Measured	785.0	umhos/cm		07/20/22 12:48	1		07/20/22 12:48	FIELD	Field
Temperature, Field Measured	64.2	°F		07/20/22 12:48	1		07/20/22 12:48	FIELD	Field
Temperature, Field Measured	17.9	°C		07/20/22 12:48	1		07/20/22 12:48	FIELD	Field
Turbidity, Field Measured	65.3	NTU		07/20/22 12:48	1	0.00	07/20/22 12:48	FIELD	Field
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	500	mg/L		07/25/22 08:12	1	10	07/25/22 08:12	CWW	SM 2320B 1997
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		07/25/22 08:12	1	10	07/25/22 08:12	CWW	SM 2320B 1997
Solids - total dissolved solids (TDS)	540	mg/L		07/26/22 10:50	1	26	07/26/22 14:56	CGL	SM 2540C
Total Metals - PIA									
Boron	52	ug/L		07/25/22 09:48	5	10	07/29/22 09:42	JMW	EPA 6020A
Calcium	100	mg/L		07/25/22 09:48	5	0.20	07/28/22 15:02	JMW	EPA 6020A
Magnesium	46	mg/L		07/25/22 09:48	5	0.10	07/28/22 15:02	JMW	EPA 6020A
Potassium	1.2	mg/L		07/25/22 09:48	5	0.10	07/28/22 15:02	JMW	EPA 6020A
Sodium	44	mg/L		07/25/22 09:48	5	0.10	07/28/22 15:02	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FG03866-02
Name: DC BA03
Matrix: Ground Water - Grab

Sampled: 07/20/22 11:58
Received: 07/21/22 08:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	4.8	mg/L		07/25/22 17:10	1	1.0	07/25/22 17:10	CJP	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/25/22 17:10	1	0.250	07/25/22 17:10	CJP	EPA 300.0 REV 2.1
Sulfate	17	mg/L		07/25/22 17:28	5	5.0	07/25/22 17:28	CJP	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	8.59	Feet		07/20/22 11:58	1		07/20/22 11:58	FIELD	Field
Dissolved oxygen, Field	1.9	mg/L		07/20/22 11:58	1		07/20/22 11:58	FIELD	Field
Oxidation Reduction Potential	198	mV		07/20/22 11:58	1	-500	07/20/22 11:58	FIELD	Field
pH, Field Measured	6.85	pH Units		07/20/22 11:58	1		07/20/22 11:58	FIELD	Field
Specific Conductance, Field Measured	717.0	umhos/cm		07/20/22 11:58	1		07/20/22 11:58	FIELD	Field
Temperature, Field Measured	65.4	°F		07/20/22 11:58	1		07/20/22 11:58	FIELD	Field
Temperature, Field Measured	18.6	°C		07/20/22 11:58	1		07/20/22 11:58	FIELD	Field
Turbidity, Field Measured	9.70	NTU		07/20/22 11:58	1	0.00	07/20/22 11:58	FIELD	Field
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	410	mg/L		07/25/22 08:12	1	10	07/25/22 08:12	CWW	SM 2320B 1997
Alkalinity - carbonate as CaCO ₃	< 10	mg/L		07/25/22 08:12	1	10	07/25/22 08:12	CWW	SM 2320B 1997
Solids - total dissolved solids (TDS)	500	mg/L		07/26/22 10:50	1	26	07/26/22 14:56	CGL	SM 2540C
Total Metals - PIA									
Boron	20	ug/L		07/25/22 09:48	5	10	07/29/22 09:45	JMW	EPA 6020A
Calcium	110	mg/L		07/25/22 09:48	5	0.20	07/28/22 15:06	JMW	EPA 6020A
Magnesium	52	mg/L		07/25/22 09:48	5	0.10	07/28/22 15:06	JMW	EPA 6020A
Potassium	0.71	mg/L		07/25/22 09:48	5	0.10	07/28/22 15:06	JMW	EPA 6020A
Sodium	7.1	mg/L		07/25/22 09:48	5	0.10	07/28/22 15:06	JMW	EPA 6020A



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B238575 - No Prep - SM 2320B 1997</u>									
Blank (B238575-BLK1)				Prepared & Analyzed: 07/21/22					
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L							
<u>Batch B238576 - No Prep - SM 2320B 1997</u>									
Blank (B238576-BLK1)				Prepared & Analyzed: 07/21/22					
Alkalinity - bicarbonate as CaCO ₃	2.50	mg/L							
LCS (B238576-BS1)				Prepared & Analyzed: 07/21/22					
Alkalinity - bicarbonate as CaCO ₃	65.0	mg/L					90-110		
<u>Batch B238622 - No Prep - SM 2540C</u>									
Blank (B238622-BLK1)				Prepared & Analyzed: 07/21/22					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B238622-BS1)				Prepared & Analyzed: 07/21/22					
Solids - total dissolved solids (TDS)	1000	mg/L		1000		100	84.9-109		
<u>Batch B238816 - SW 3015 - EPA 6020A</u>									
Blank (B238816-BLK1)				Prepared: 07/25/22 Analyzed: 07/29/22					
Boron	< 10	ug/L							
Calcium	< 0.20	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
LCS (B238816-BS1)				Prepared: 07/25/22 Analyzed: 07/29/22					
Boron	537	ug/L		555.6		97	80-120		
Calcium	5.48	mg/L		5.556		99	80-120		
Magnesium	5.83	mg/L		5.556		105	80-120		
Potassium	5.72	mg/L		5.556		103	80-120		
Sodium	5.63	mg/L		5.556		101	80-120		
Matrix Spike (B238816-MS1)				Sample: FG03531-01 Prepared: 07/25/22 Analyzed: 07/29/22					
Boron	566	ug/L		555.6	25.6	97	75-125		
Calcium	128	mg/L	Q4	5.556	125	51	75-125		
Magnesium	66.4	mg/L		5.556	60.8	101	75-125		
Potassium	6.39	mg/L		5.556	0.643	103	75-125		
Sodium	16.2	mg/L		5.556	10.7	100	75-125		
Matrix Spike Dup (B238816-MSD1)				Sample: FG03531-01 Prepared: 07/25/22 Analyzed: 07/29/22					
Boron	576	ug/L		555.6	25.6	99	75-125	2	20
Calcium	130	mg/L	Q4	5.556	125	97	75-125	2	20
Magnesium	67.3	mg/L		5.556	60.8	118	75-125	1	20
Potassium	6.45	mg/L		5.556	0.643	105	75-125	1	20
Sodium	16.4	mg/L		5.556	10.7	104	75-125	1	20
<u>Batch B238936 - IC No Prep - EPA 300.0 REV 2.1</u>									



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B238936 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B238936-CCB1)				Prepared & Analyzed: 07/25/22					
Sulfate	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.212	mg/L							
Calibration Check (B238936-CCV1)				Prepared & Analyzed: 07/25/22					
Sulfate	5.12	mg/L		5.000		102	90-110		
Chloride	5.03	mg/L		5.000		101	90-110		
Fluoride	5.22	mg/L		5.000		104	90-110		
<u>Batch B238946 - No Prep - SM 2540C</u>									
Blank (B238946-BLK1)				Prepared & Analyzed: 07/26/22					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B238946-BS1)				Prepared & Analyzed: 07/26/22					
Solids - total dissolved solids (TDS)	1000	mg/L		1000		100	84.9-109		
<u>Batch B239029 - No Prep - SM 4500F C 1997</u>									
Calibration Blank (B239029-CCB1)				Prepared & Analyzed: 07/27/22					
Fluoride	0.00800	mg/L							
Calibration Blank (B239029-CCB2)				Prepared & Analyzed: 07/27/22					
Fluoride	0.00700	mg/L							
Calibration Check (B239029-CCV1)				Prepared & Analyzed: 07/27/22					
Fluoride	0.656	mg/L		0.7000		94	90-110		
Calibration Check (B239029-CCV2)				Prepared & Analyzed: 07/27/22					
Fluoride	0.699	mg/L		0.7000		100	90-110		
<u>Batch B239098 - No Prep - SM 2320B 1997</u>									
Blank (B239098-BLK1)				Prepared & Analyzed: 07/25/22					
Alkalinity - bicarbonate as CaCO ₃	2.50	mg/L							
LCS (B239098-BS1)				Prepared & Analyzed: 07/25/22					
Alkalinity - bicarbonate as CaCO ₃	60.0	mg/L					90-110		
<u>Batch B239115 - No Prep - SM 2320B 1997</u>									
Blank (B239115-BLK1)				Prepared & Analyzed: 07/25/22					
Alkalinity - carbonate as CaCO ₃	< 2.0	mg/L							



NOTES

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

* Not a TNI accredited analyte

Certifications

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

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

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

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

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

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

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

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

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

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

USEPA DMR-QA Program

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

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

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

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

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

Qualifiers

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

Certified by: Gail Schindler, Project Manager



Duck Creek

WELL/SAMPLE POINT **BA01**

Purge Method: bladder pump

Date: 7/19/22 Start Time: 14:18 Finish/Sample Time: 14:53

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1.5 Gal / 1

Depth to Water From MP: 15.01 ft Total Purge Volume: 2.1 Gal / 1

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	14:35	15.06	100	7.75	976.56	17.08	-60.7	0.70	1.68
2	14:36	15.06	100	7.75	977.33	16.73	-63.0	0.66	1.92
3	14:37	15.06	100	7.76	967.28	16.45	-63.2	0.60	1.48
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
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) <u>1000 mL</u>

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

Final DTW: 15.06 ft

Comments

Sampler's Signature: Ardon Jones

Duck Creek

WELL/SAMPLE POINT **BA02**

Purge Method: bladder

Date: 7/20/2022 Start Time: 1209 Finish/Sample Time: 1248

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

Depth to Water From MP: 10.05 ft Total Purge Volume: 1000 Gal / L 62

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: 2.00 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	1228	11.30	100	6.87	703	18.1	33.0	3.81	75.1
2	1230	11.33	100	6.87	782	18.0	33.0	3.83	69.1
3	1232	11.35	100	6.81	785	17.9	37.0	3.77	64.3
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

A Horiba
App 7/20/22

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 12.05 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT BA03

Purge Method: bladder

Date: 7/20/2022 Start Time: 1114 Finish/Sample Time: 1158

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

Depth to Water From MP: 8.59 ft Total Purge Volume: 1000 Gal / L ML

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1137	8.90	100	6.86	718	18.73	197	2.00	23.5
2	1139	8.90	100	6.86	732	18.60	197	1.94	16.5
3	1141	8.91	100	6.85	717	18.58	198	1.89	9.7
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT BA04

Purge Method: Bladder pump

Date: 7/19/22 Start Time: 15:03 Finish/Sample Time: 15:35

Well Depth (Bottom) From MP: _____ ft
 Depth to Water From MP: 6.26 ft
 Water Column Length: _____ ft
 Well Water Volume: _____ Gal / L
 Min. Purge Volume: 1.5 Gal / L
 Total Purge Volume: 2.1 Gal / L
 Max Drawdown: _____ ft
 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	15:17	6.3	100	7.65	1,170.1	20.50	40.9	0.82	1.74
2	15:19	6.31	100	7.64	1,168.3	20.20	41.6	0.81	1.72
3	15:21	6.31	100	7.64	1,169.6	20.20	42.7	0.79	1.75
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
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) 1 L

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

Final DTW: 6.31 ft

Comments

Sampler's Signature: Aidon Jones

Duck Creek

WELL/SAMPLE POINT **BA05**

Purge Method:

Date: 7/19/22

Start Time: 12:40

Finish/Sample Time: bladder pump

Well Depth (Bottom) From MP: _____ ft

Min. Purge Volume: 1.5 Gal / 1

Depth to Water From MP: 20.75 ft

Total Purge Volume: 2.1 Gal / 1

Water Column Length: _____ ft

Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L

Total Drawdown: 2.75 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	12:59	23.53	100	7.74	1,266.9	16.02	-117.7	0.91	1.31
2	1:01	23.55	100	7.69	1,619.9	15.98	-112.4	0.53	2.15
3	1:03	23.65	100	7.68	1,557.9	16.25	-102.2	0.47	1.12
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

Well Integrity	Yes	No
Well has ID sign	☒	
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) 1 L

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

Final DTW: 23.50 ft

Comments

Sampler's Signature:

Aidon Jones

Duck Creek

WELL/SAMPLE POINT BA06

Purge Method: bladder pump

Date: 7/19/22 Start Time: 13:30 Finish/Sample Time: 14:03

Well Depth (Bottom) From MP: _____ ft Min. Purge Volume: 1.5 Gal / B

Depth to Water From MP: 25.59 ft Total Purge Volume: 2.1 Gal / D

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: 3.42 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	13:46	27.76	100	7.12	2,934.5	16.62	-62.6	0.61	2.39
2	13:47	27.95	100	7.10	2,962.8	16.65	-62.5	0.58	2.20
3	13:48	28.06	100	7.10	2,957.0	16.47	-62.4	0.54	1.69
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 29.01 ft

Comments

Sampler's Signature: Aidan Jones

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>KIMBERLY DEWE</u>				Location: <u>DUCK CREEK</u>			
Weather: <u>79° SUNNY / WINDY</u>				Environment: <u>GRASSY</u>			
Multiparameter Water Meter		Make: <u>AT</u>	Model: <u>C600</u>	Serial Number: <u>762098</u>			
Water Level Meter		Make: <u>WT</u>	Model: <u>HERONS</u>	Serial Number: <u>19FF2202131ML</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.04</u>	s.u.	±0.1 s.u.	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.02</u>	s.u.	±0.1 s.u.	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.04</u>	s.u.	±0.1 s.u.	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	MSI	L354-22	1/5/2024
SC Zero (DI)	<u>2.35</u>	µS/cm	0<25 µS/cm	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2022.14</u>	µS/cm	±5%	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	Geotech	1GK328	Nov-22
ORP	<u>213.70</u>	mV	±15 mV	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	InSitu	1GL481	Sep-22
DO (Zero pt)	<u>0.06</u>	mg/L	±0.1	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.20</u>	%	97-100%	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.43</u>	NTU	<2 NTU	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>0900</u>	
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Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.04</u>	s.u.	±0.15 s.u.	<u>PASS</u>	<u>NO</u>	Geotech	1GF009	Jun-23
pH 7.00b	<u>6.99</u>	s.u.	±0.15 s.u.	<u>PASS</u>	<u>NO</u>	Geotech	0GJ268	Oct-22
pH 10.00b	<u>9.98</u>	s.u.	±0.15 s.u.	<u>PASS</u>	<u>NO</u>	Geotech	1GF458	Jun-23
SC 1000	<u>1031.20</u>	µS/cm	±5%	<u>PASS</u>	<u>NO</u>	Ricca	2108D48	Jul-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>1515</u>	
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.06</u>	s.u.	±0.1 s.u.	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.03</u>	s.u.	±0.1 s.u.	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.06</u>	s.u.	±0.1 s.u.	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1049.30</u>	µS/cm	±5%	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.00</u>	mg/L	±0.1 mg/L	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.08</u>	NTU	<2 NTU	<u>PASS</u>	<u>NO</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: 	Date: <u>7/9/22</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>AP, KL</u>				Location: <u>Duck Creek</u>			
Weather: <u>80°F Sunny with 5-10 mph</u>				Environment: <u>grass, dirt, DSL</u>			
Multiparameter Water Meter		Make: <u>Hanna</u>	Model: <u>N-5000</u>	Serial Number: <u>PW26YJD3</u>			
Water Level Meter		Make: <u>Heron</u>	Model: <u>DPR-12</u>	Serial Number: <u>19FL211192HB</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.95</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>-</u>	s.u.	±0.1 s.u.	<u>-</u>	<u>-</u>	<u>-</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>-</u>	s.u.	±0.1 s.u.	<u>-</u>	<u>-</u>	<u>-</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>-</u>	µS/cm	0<25 µS/cm	<u>-</u>	<u>-</u>	<u>-</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 1000	<u>4590</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>-</u>	Geotech	1GK328	Nov-22
ORP	<u>-</u>	mV	±15 mV	<u>-</u>	<u>-</u>	<u>-</u>	InSitu	1GL481	Sep-22
DO (Zero pt)	<u>8.25</u>	mg/L	±0.1	<u>P</u>	<u>N</u>	<u>-</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>-</u>	%	97-100%	<u>-</u>	<u>-</u>	<u>-</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>-</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>-</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>-</u>	Geotech	1GF009	Jun-23	
pH 7.00b	<u>-</u>	s.u.	±0.15 s.u.	<u>-</u>	<u>-</u>	Geotech	0GJ268	Oct-22	
pH 10.00b	<u>-</u>	s.u.	±0.15 s.u.	<u>-</u>	<u>-</u>	Geotech	1GF458	Jun-23	
SC 1000	<u>-</u>	µS/cm	±5%	<u>-</u>	<u>-</u>	Ricca	1111A87	Nov-22	

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>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>NA</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>-</u>	s.u.	±0.1 s.u.	<u>-</u>	<u>-</u>	<u>-</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>-</u>	s.u.	±0.1 s.u.	<u>-</u>	<u>-</u>	<u>-</u>	MSI	L354-22	1/5/2024
SC 1000 SC	<u>4590</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>NA</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>8.25</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>NA</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments: Use Hanna calibration solution

Signature: <u>[Signature]</u>	Date: <u>7/19/22</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Aidan Jones</u>				Location: <u>Duck Creek</u>			
Weather: <u>Clear 81°F Wind: SSW 7 mph</u>				Environment: <u>open, grassy plains</u>			
Multiparameter Water Meter		Make: <u>AT</u>	Model: <u>600</u>	Serial Number: <u>846000</u>			
Water Level Meter		Make: <u>Solinst</u>	Model: <u>101</u>	Serial Number: <u>269022</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.75</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Y</u>	<u>4.00</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.78</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Y</u>	<u>7.00</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>9.81</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Y</u>	<u>10.00</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>10.94</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N/A</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2,002.5</u>	µS/cm	±5%	<u>L</u>	<u>L</u>	<u>L</u>	Geotech	1GK328	Nov-22
ORP	<u>220.1</u>	mV	±15 mV	<u>L</u>	<u>L</u>	<u>L</u>	InSitu	1GL481	Sep-22
DO (Zero pt)	<u>0.05</u>	mg/L	±0.1	<u>L</u>	<u>L</u>	<u>L</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>97.23</u>	%	97-100%	<u>L</u>	<u>L</u>	<u>L</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>1.86</u>	NTU	<2 NTU	<u>L</u>	<u>L</u>	<u>L</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>9:38</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.07</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	1GF009	Jun-23
pH 7.00b	<u>6.92</u>	s.u.	±0.15 s.u.	<u>L</u>	<u>L</u>	Geotech	0GJ268	Oct-22
pH 10.00b	<u>9.85</u>	s.u.	±0.15 s.u.	<u>L</u>	<u>L</u>	Geotech	1GF458	Jun-23
SC 1000	<u>1,031.1</u>	µS/cm	±5%	<u>L</u>	<u>L</u>	Ricca	1111A87	Nov-22

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>17:15</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.08</u>	s.u.	±0.1	<u>P</u>	<u>N/A</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.06</u>	s.u.	±0.1 s.u.	<u>L</u>	<u>L</u>	<u>L</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>9.94</u>	s.u.	±0.1 s.u.	<u>L</u>	<u>L</u>	<u>L</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1,049.3</u>	µS/cm	±5%	<u>L</u>	<u>L</u>	<u>L</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.08</u>	mg/L	±0.1 mg/L	<u>L</u>	<u>L</u>	<u>L</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.55</u>	NTU	<2 NTU	<u>L</u>	<u>L</u>	<u>L</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: <u>Aidan Jones</u>	Date: <u>7/19/22</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>AP KL</u>				Location: <u>Duck Creek</u>			
Weather: <u>84°-88°L, sunny</u>				Environment: <u>grass, dirt, LSL</u>			
Multiparameter Water Meter		Make: <u>Hanna</u>	Model: <u>V-5000</u>	Serial Number: <u>PW26YJD3</u>			
Water Level Meter		Make: <u>Hanna</u>	Model: <u>Dipper 72</u>	Serial Number: <u>19FF211192HB</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>-</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>-</u>	s.u.	±0.1 s.u.	<u>-</u>	<u>-</u>	<u>-</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>-</u>	s.u.	±0.1 s.u.	<u>-</u>	<u>-</u>	<u>-</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>-</u>	µS/cm	0<25 µS/cm	<u>-</u>	<u>-</u>	<u>-</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 1000	<u>4500</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>-</u>	Geotech	1GK328	Nov-22
ORP	<u>-</u>	mV	±15 mV	<u>-</u>	<u>-</u>	<u>-</u>	InSitu	1GL481	Sep-22
DO (Zero pt)	<u>8.20</u>	mg/L	±0.1	<u>P</u>	<u>NO</u>	<u>-</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>-</u>	%	97-100%	<u>-</u>	<u>-</u>	<u>-</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>-</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>0952</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>1</u>	s.u.	±0.15 s.u.	<u>1</u>	<u>1</u>	Geotech	1GF009	Jun-23
pH 7.00b	<u>1</u>	s.u.	±0.15 s.u.	<u>1</u>	<u>1</u>	Geotech	0GJ268	Oct-22
pH 10.00b	<u>1</u>	s.u.	±0.15 s.u.	<u>1</u>	<u>1</u>	Geotech	1GF458	Jun-23
SC 1000	<u>1</u>	µS/cm	±5%	<u>1</u>	<u>1</u>	Ricca	1111A87	Nov-22

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>1523</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NO</u>	<u>-</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>-</u>	s.u.	±0.1 s.u.	<u>-</u>	<u>-</u>	<u>-</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>-</u>	s.u.	±0.1 s.u.	<u>-</u>	<u>-</u>	<u>-</u>	MSI	L354-22	1/5/2024
SC 1000	<u>4650</u>	µS/cm	±5%	<u>P</u>	<u>NO</u>	<u>-</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>9.17</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NO</u>	<u>-</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>NO</u>	<u>-</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments: Hanna calibration calibration solution

Signature: <u>[Signature]</u>	Date: <u>7/20/2022</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Joe Reed</u>			Location: <u>Duck Creek Power Station</u>		
Weather: <u>80s-90s</u>			Environment: <u>grassy</u>		
Multiparameter Water Meter	Make: <u>aquatron</u>	Model: <u>600</u>	Serial Number:		
Water Level Meter	Make:	Model:	Serial Number:		

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>Pass</u>	<u>NA</u>	<u>NA</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.00</u>	s.u.	±0.1 s.u.	<u>Pass</u>	<u>NA</u>	<u>NA</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>9.99</u>	s.u.	±0.1 s.u.	<u>Pass</u>	<u>NA</u>	<u>NA</u>	MSI	L354-22	1/5/2024
SC Zero (DI)	<u>2.11</u>	µS/cm	0<25 µS/cm	<u>Pass</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2022.4</u>	µS/cm	±5%	<u>Pass</u>	<u>NA</u>	<u>NA</u>	Geotech	1GK328	Nov-22
ORP <u>27.82</u>	<u>226.8</u>	mV	±15 mV	<u>Pass</u>	<u>NA</u>	<u>NA</u>	InSitu	1GL481	Sep-22
DO (Zero pt)	<u>0.04</u>	mg/L	±0.1	<u>Pass</u>	<u>NA</u>	<u>NA</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.7</u>	%	97-100%	<u>Pass</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>Pass</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>1040</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>3.98</u>	s.u.	±0.15 s.u.	<u>Pass</u>	<u>NA</u>	Geotech	1GF009	Jun-23
pH 7.00b	<u>6.99</u>	s.u.	±0.15 s.u.	<u>Pass</u>	<u>NA</u>	Geotech	0GJ268	Oct-22
pH 10.00b	<u>9.95</u>	s.u.	±0.15 s.u.	<u>Pass</u>	<u>NA</u>	Geotech	1GF458	Jun-23
SC 1000	<u>1020.5</u>	µS/cm	±5%	<u>Pass</u>	<u>NA</u>	Ricca	2108D48	Jul-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>1530</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.95</u>	s.u.	±0.1 s.u.	<u>Pass</u>			MSI	L315-04	11/22/2023
pH 7.00a	<u>6.94</u>	s.u.	±0.1 s.u.	<u>Pass</u>			MSI	L172-33	6/23/2023
pH 10.00a	<u>9.94</u>	s.u.	±0.1 s.u.	<u>Pass</u>			MSI	L354-22	1/5/2024
SC 1000	<u>1025.4</u>	µS/cm	±5%	<u>Pass</u>			Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.04</u>	mg/L	±0.1 mg/L	<u>Pass</u>			Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.41</u>	NTU	<2 NTU	<u>Pass</u>			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: <u>Joseph R Reed</u>	Date: <u>7/20/22</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Aidan Jones</u>				Location: <u>Duck Creek</u>			
Weather: <u>81°F, Clear Wind: WNW mph</u>				Environment: <u>Clear, open grassy plains</u>			
Multiparameter Water Meter		Make: <u>AT</u>	Model: <u>600</u>	Serial Number: <u>762098</u>			
Water Level Meter		Make:	Model:	Serial Number:			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N/A</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.09</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>18.91</u>	µS/cm	0<25 µS/cm	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1,995.8</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Geotech	1GK328	Nov-22
ORP	<u>213.0</u>	mV	±15 mV	<u>I</u>	<u>I</u>	<u>I</u>	InSitu	1GL481	Sep-22
DO (Zero pt)	<u>0.06</u>	mg/L	±0.1	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>94.69</u>	%	97-100%	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>1.05</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>9:18</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.01</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	1GF009	Jun-23	
pH 7.00b	<u>6.88</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech	0GJ268	Oct-22	
pH 10.00b	<u>9.85</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech	1GF458	Jun-23	
SC 1000	<u>1,030.8</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	Ricca	1111A87	Nov-22	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>15:13</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N/A</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.03</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.08</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1,025.6</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.05</u>	mg/L	±0.1 mg/L	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.61</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

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

Comments:

Signature: <u>Aidan Jones</u>	Date: <u>7/28/22</u>
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FG03531

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp	Report To:	Brian Voelker	Attention:	Jason Stuckey
Address:	13498 E. 900th St	Copy To:	Jason Stuckey	Company Name:	Vistra Corp
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Address:	see Section A
Phone:	(217) 753-8911	Project Name:		Quote Reference:	
Fax:		Project Number:	2285	Project Manager:	
Requested Due Date/TAT:		standard		Profile #:	

Section D Required Client Information		Valid Matrix Codes		COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)		MATRIX CODE (see valid codes to left)		SAMPLE TEMP AT COLLECTION		# OF CONTAINERS		Preservatives		Requested Analysis Filtered (Y/N)		Project No./ Lab I.D.												
ITEM #	Sample ID (A-Z, 0-9, /, -) Sample IDs MUST BE UNIQUE	DRINKING WATER	WATER	WASTE WATER	PRODUCT	SL	OL	WP	AR	OT	TS	DATE	TIME	DATE	TIME	Unpreserved	H ₂ SO ₄	HCl	NaOH	Na ₂ O ₃	Methanol	Other	Y/N	Analysis Test	DC_257_203	DC_257_204	DC_257_205	DC_811_204	Residual Chlorine (Y/N)	
1	BA01											7/19/22	1453			2	X													
2	BA02											7/19/22	1535			2	X													
3	BA03											7/19/22	1316			2	X													
4	BA04											7/19/22	1403			2	X													
5	BA05											7/19/22				3	X													
6	BA06											7/19/22																		
7	G02L																													
8	G02S																													
9	G03L																													
10	G04L																													
11	G04S																													
12	G06L																													
13	G06S																													
14	G07L																													
15	G08L																													
16	G09L																													
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS		Temp in °C		Received on		Ice (Y/N)		Sealed Cooler (Y/N)		Samples Intact (Y/N)						
DC-Q3-2022		7/19/22		1706		7/19/22		7/19/22		800		5.5		Y		Y		N		Y		Y		Y						
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		DATE Signed (MM/DD/YY):		SIGNATURE of SAMPLER:		SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		DATE Signed (MM/DD/YY):		SIGNATURE of SAMPLER:		SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		DATE Signed (MM/DD/YY):		SIGNATURE of SAMPLER:		SAMPLER NAME AND SIGNATURE						
Aaron Penber		7/19/2022		7/19/2022		7/19/2022		Aaron Penber		7/19/2022		7/19/2022		Aaron Penber		7/19/2022		Aaron Penber		7/19/2022		Aaron Penber		7/19/2022						

CHAIN-OF-CUSTODY / Analytical Request Document

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

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DW WT WW P PL SL OL WP AR OT TS	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H ₂ SO ₄ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Analysis Test ↑ Y/N	Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.					
				DATE	TIME					DC_257_203	DC_257_204	DC_257_205	DC_811_204	Residual Chlorine (Y/N)											
1	G09S																								
2	G12S																								
3	G14L																								
4	G15S																								
5	G50S		WT G	7/11/22	1410		2	X																	
6	G51S																								
7	G54S																								
8	G57S		WT G	7/11/22	1526		2	X																	
9	G60S																								
10	G64S																								
11	P36L		WT G	7/11/22	1155		3	X																	
12	P37L																								
13	R10L																								
14	R13L																								
15	T43L		WT G	7/11/22	1450		3	X																	
16	T44L		WT G	7/11/22	1335		3	X																	
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS		Temp in °C		Received on		Sealed Cooler		Custody		Samples Intact	
DC-Q3-2022		[Signature]		7/14/22		1709		[Signature]		7/14/22		800		5.5		Y		N		Y		N		Y	

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Aaron Amberton
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed (MM/DD/YYYY): 7/14/2022

1603866

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section C

Invoice Information:

Attention: Jason Stuckey

Company Name: Vistra Corp

Address: see Section A

Quote Reference:

Project Manager:

Profile #:

Section B

Required Project Information:

Report To: Brian Voelker

Copy To: Jason Stuckey

Purchase Order No.:

Project Name:

Project Number: 2285

Section A

Required Client Information:

Company: Vistra Corp

Address: 13498 E. 900th St

Email To: Brian.Voelker@VistraCorp.com

Phone: (217) 753-8911

Fax:

Requested Due Date/TAT: standard

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location

STATE: IL

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW WASTE WATER PRODUCT P SOIL/SOLID OL OIL WIPE AIR OTHER TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↑ Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	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							
1		BA01	WT G	G	7/20/22	12:48		2	X														
2		BA02	WT G	G	7/20/22	11:54		2	X														
3		BA03																					
4		BA04																					
5		BA05																					
6		BA06																					
7		G02L																					
8		G02S																					
9		G03L																					
10		G04L																					
11		G04S	WT G	G	7/20/22	13:40		3	X														
12		G06L	WT G	G	7/20/22	14:18		2	X														
13		G06S	WT G	G	7/20/22	15:14		3	X														
14		G07L	WT G	G	7/20/22	12:39		3	X														
15		G08L																					
16		G09L																					

RELIQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
<i>[Signature]</i>		7/20/22	16:35	<i>[Signature]</i>		7/20/22	8:00	Temp in °C	4.6	Received on	Y
								Sealed Cooler	(Y/N)	Custody	N
								Samples Intact	(Y/N)		Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *Jason Stuckey*

SIGNATURE of SAMPLER: *[Signature]*

DATE Signed (MM/DD/YY): 7/20/22

FG03866

CHAIN-OF-CUSTODY / Analytical Request Document

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

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

Section D Required Client Information	Valid Matrix Codes MATRIX CODE DW WT WW P SL OL WPE APR WTS OT TS	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↑	Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
DC-Q3-2022		<i>[Signature]</i>		7/20/22		16:35		<i>[Signature]</i>		7/20/22		8:00		Temp in °C: 4.6	
														Received on: Y	
														Sealed Cooler: N	
														Custody: N	
														Samples Intact: Y	

FG03866

CHAIN-OF-CUSTODY / Analytical Request Document

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

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

Section D Required Client Information	Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	Residual Chlorine (Y/N)	Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
	MATRIX	CODE			Unpreserved	H ₂ SO ₄					HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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ADDITIONAL COMMENTS DC-Q3-2022		RELINQUISHED BY / AFFILIATION 	DATE 7/20/22	TIME 1635	ACCEPTED BY / AFFILIATION 	DATE 7/20/22	TIME 800	Temp in °C 4.6	Received on Y	Custody N	Sealed Cooler N	Samples Intact Y
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SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Aaron Pemberton SIGNATURE of SAMPLER:		DATE Signed 7/20/22
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Pace Analytical Services, LLC
2231 W. Altorfer Drive
Peoria, IL 61615
(800)752-6651

November 30, 2022

Daryl Johnson
Vistra - Duck Creek
17751 North Cilco Road
Canton, IL 61520-8761

Dear Daryl Johnson:

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 Director of Client Services, 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 that reads "Gail Schindler".

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

**SAMPLE RECEIPT CHECK LIST**

Items not applicable will be marked as in compliance

Work Order FJ04795

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



Work Order FJ05072

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



Work Order FJ05206

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 FJ05400

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



Work Order FK04082

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
YES	Case narrative provided



Work Order FK05034

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



ANALYTICAL RESULTS

Sample: FJ04795-01
Name: BA01
Matrix: Ground Water - Grab

Sampled: 10/26/22 15:36
Received: 10/27/22 07:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
pH, Field Measured	6.91	pH Units		10/26/22 15:36	1		10/26/22 15:36	FIELD	Field*

Sample: FJ04795-02
Name: BA03
Matrix: Ground Water - Grab

Sampled: 10/26/22 15:09
Received: 10/27/22 07:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
pH, Field Measured	6.98	pH Units		10/26/22 15:09	1		10/26/22 15:09	FIELD	Field*

Sample: FJ04795-03
Name: G03L
Matrix: Ground Water - Grab

Sampled: 10/26/22 11:35
Received: 10/27/22 07:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	15.72	Feet		10/26/22 11:35	1		10/26/22 11:35	FIELD	Field*
Dissolved oxygen, Field	3.9	mg/L		10/26/22 11:35	1		10/26/22 11:35	FIELD	Field*
Oxidation Reduction Potential	-97.2	mV		10/26/22 11:35	1	-500	10/26/22 11:35	FIELD	Field*
pH, Field Measured	6.98	pH Units		10/26/22 11:35	1		10/26/22 11:35	FIELD	Field*
Specific Conductance, Field Measured	743.0	umhos/cm		10/26/22 11:35	1		10/26/22 11:35	FIELD	Field*
Temperature, Field Measured	56.9	°F		10/26/22 11:35	1		10/26/22 11:35	FIELD	Field*
Temperature, Field Measured	13.8	°C		10/26/22 11:35	1		10/26/22 11:35	FIELD	Field*
Turbidity, Field Measured	971	NTU		10/26/22 11:35	1	0.00	10/26/22 11:35	FIELD	Field*

General Chemistry - PIA

Cyanide	< 0.0050	mg/L		11/04/22 11:43	1	0.0050	11/04/22 11:43	NWT	ASTM D7511-09e2
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Soluble Anions - PIA

Chloride, Dissolved	23	mg/L		10/27/22 22:11	10	10	10/27/22 22:11	LAM	EPA 300.0 REV 2.1
Fluoride, Dissolved	0.29	mg/L		10/27/22 21:17	1	0.25	10/27/22 21:17	LAM	EPA 300.0 REV 2.1
Nitrate, Dissolved	< 0.03	mg/L		10/27/22 21:17	1	0.03	10/27/22 21:17	LAM	EPA 300.0 REV 2.1
Sulfate, Dissolved	42	mg/L		10/27/22 22:11	10	10	10/27/22 22:11	LAM	EPA 300.0 REV 2.1



ANALYTICAL RESULTS

Sample: FJ04795-03

Name: G03L

Matrix: Ground Water - Grab

Sampled: 10/26/22 11:35

Received: 10/27/22 07:00

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Soluble General Chemistry - PIA</u>									
Solids - total dissolved solids (TDS)	440	mg/L	M	10/31/22 11:26	1	26	10/31/22 13:27	HRF	SM 2540C
<u>Soluble Metals - PIA</u>									
Antimony, Dissolved	< 3.0	ug/L		11/04/22 08:46	5	3.0	11/05/22 10:59	JMW	EPA 6020A
Arsenic, Dissolved	1.5	ug/L		11/04/22 08:46	5	1.0	11/05/22 10:59	JMW	EPA 6020A
Barium, Dissolved	100	ug/L		11/04/22 08:46	5	1.0	11/05/22 10:59	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/05/22 10:59	JMW	EPA 6020A
Boron, Dissolved	64	ug/L		11/04/22 08:46	5	10	11/05/22 10:59	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/05/22 10:59	JMW	EPA 6020A
Calcium, Dissolved	93	mg/L		11/04/22 08:46	5	0.10	11/05/22 10:59	JMW	EPA 6020A
Chromium, Dissolved	< 4.0	ug/L		11/04/22 08:46	5	4.0	11/05/22 10:59	JMW	EPA 6020A
Cobalt, Dissolved	< 2.0	ug/L		11/04/22 08:46	5	2.0	11/05/22 10:59	JMW	EPA 6020A
Copper, Dissolved	< 3.0	ug/L		11/04/22 08:46	5	3.0	11/05/22 10:59	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/05/22 10:59	JMW	EPA 6020A
Magnesium, Dissolved	39	mg/L		11/04/22 08:46	5	0.10	11/05/22 10:59	JMW	EPA 6020A
Mercury, Dissolved	< 0.20	ug/L		11/04/22 08:46	5	0.20	11/05/22 10:59	JMW	EPA 6020A
Nickel, Dissolved	< 5.0	ug/L		11/04/22 08:46	5	5.0	11/05/22 10:59	JMW	EPA 6020A
Potassium, Dissolved	0.53	mg/L		11/04/22 08:46	5	0.10	11/05/22 10:59	JMW	EPA 6020A
Selenium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/05/22 10:59	JMW	EPA 6020A
Silver	< 5.0	ug/L		11/04/22 08:46	5	5.0	11/05/22 10:59	JMW	EPA 6020A
Sodium, Dissolved	10	mg/L		11/04/22 08:46	5	0.10	11/05/22 10:59	JMW	EPA 6020A
Vanadium	< 5.0	ug/L		11/04/22 08:46	5	5.0	11/07/22 08:01	JMW	EPA 6020A
Zinc, Dissolved	< 6.0	ug/L		11/04/22 08:46	5	6.0	11/05/22 10:59	JMW	EPA 6020A
<u>Soluble Nutrients - PIA</u>									
Ammonia, Dissolved	0.55	mg/L		11/03/22 13:47	1	0.10	11/03/22 13:47	TTH	EPA 350.1 REV2



ANALYTICAL RESULTS

Sample: FJ04795-04
Name: G54L
Matrix: Ground Water - Grab

Sampled: 10/26/22 10:49
Received: 10/27/22 07:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	26.86	Feet		10/26/22 10:49	1		10/26/22 10:49	FIELD	Field*
Dissolved oxygen, Field	1.6	mg/L		10/26/22 10:49	1		10/26/22 10:49	FIELD	Field*
Oxidation Reduction Potential	-31.1	mV		10/26/22 10:49	1	-500	10/26/22 10:49	FIELD	Field*
pH, Field Measured	5.83	pH Units		10/26/22 10:49	1		10/26/22 10:49	FIELD	Field*
Specific Conductance, Field Measured	1289	umhos/cm		10/26/22 10:49	1		10/26/22 10:49	FIELD	Field*
Temperature, Field Measured	50.7	°F		10/26/22 10:49	1		10/26/22 10:49	FIELD	Field*
Temperature, Field Measured	10.4	°C		10/26/22 10:49	1		10/26/22 10:49	FIELD	Field*
Turbidity, Field Measured	0.680	NTU		10/26/22 10:49	1	0.00	10/26/22 10:49	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	26	mg/L		11/04/22 11:58	10	10	11/04/22 11:58	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	78	mg/L		11/04/22 11:58	10	10	11/04/22 11:58	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	840	mg/L		10/28/22 15:35	1	26	10/28/22 16:32	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	3.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:16	JMW	EPA 6020A
Boron, Dissolved	15	ug/L		11/04/22 08:46	5	10	11/08/22 10:16	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:16	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:16	JMW	EPA 6020A
Manganese, Dissolved	480	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:16	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-05
Name: G54S
Matrix: Ground Water - Grab

Sampled: 10/26/22 11:29
Received: 10/27/22 07:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	26.54	Feet		10/26/22 11:29	1		10/26/22 11:29	FIELD	Field*
Dissolved oxygen, Field	0.79	mg/L		10/26/22 11:29	1		10/26/22 11:29	FIELD	Field*
Oxidation Reduction Potential	-15.3	mV		10/26/22 11:29	1	-500	10/26/22 11:29	FIELD	Field*
pH, Field Measured	6.33	pH Units		10/26/22 11:29	1		10/26/22 11:29	FIELD	Field*
Specific Conductance, Field Measured	850.9	umhos/cm		10/26/22 11:29	1		10/26/22 11:29	FIELD	Field*
Temperature, Field Measured	55.8	°F		10/26/22 11:29	1		10/26/22 11:29	FIELD	Field*
Temperature, Field Measured	13.2	°C		10/26/22 11:29	1		10/26/22 11:29	FIELD	Field*
Turbidity, Field Measured	0.990	NTU		10/26/22 11:29	1	0.00	10/26/22 11:29	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	4.0	mg/L		11/08/22 12:42	1	1.0	11/08/22 12:42	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	32	mg/L		11/04/22 12:16	10	10	11/04/22 12:16	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	500	mg/L		10/28/22 15:35	1	26	10/28/22 16:32	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:20	JMW	EPA 6020A
Boron, Dissolved	35	ug/L		11/04/22 08:46	5	10	11/08/22 10:20	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:20	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:20	JMW	EPA 6020A
Manganese, Dissolved	74	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:20	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-06

Name: G55L

Matrix: Ground Water - Grab

Sampled: 10/26/22 12:05

Received: 10/27/22 07:00

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	23.2	Feet		10/26/22 12:05	1		10/26/22 12:05	FIELD	Field*
Dissolved oxygen, Field	0.91	mg/L		10/26/22 12:05	1		10/26/22 12:05	FIELD	Field*
Oxidation Reduction Potential	-11.3	mV		10/26/22 12:05	1	-500	10/26/22 12:05	FIELD	Field*
pH, Field Measured	6.40	pH Units		10/26/22 12:05	1		10/26/22 12:05	FIELD	Field*
Specific Conductance, Field Measured	984.2	umhos/cm		10/26/22 12:05	1		10/26/22 12:05	FIELD	Field*
Temperature, Field Measured	58.3	°F		10/26/22 12:05	1		10/26/22 12:05	FIELD	Field*
Temperature, Field Measured	14.6	°C		10/26/22 12:05	1		10/26/22 12:05	FIELD	Field*
Turbidity, Field Measured	1.16	NTU		10/26/22 12:05	1	0.00	10/26/22 12:05	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	25	mg/L		11/04/22 12:34	10	10	11/04/22 12:34	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	79	mg/L		11/04/22 12:34	10	10	11/04/22 12:34	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	670	mg/L		10/28/22 15:35	1	26	10/28/22 16:32	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:24	JMW	EPA 6020A
Boron, Dissolved	15	ug/L		11/04/22 08:46	5	10	11/08/22 10:24	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:24	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:24	JMW	EPA 6020A
Manganese, Dissolved	70	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:24	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-07
Name: G55S
Matrix: Ground Water - Grab

Sampled: 10/26/22 12:35
Received: 10/27/22 07:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	23.2	Feet		10/26/22 12:35	1		10/26/22 12:35	FIELD	Field*
Dissolved oxygen, Field	0.99	mg/L		10/26/22 12:35	1		10/26/22 12:35	FIELD	Field*
Oxidation Reduction Potential	-5.40	mV		10/26/22 12:35	1	-500	10/26/22 12:35	FIELD	Field*
pH, Field Measured	6.67	pH Units		10/26/22 12:35	1		10/26/22 12:35	FIELD	Field*
Specific Conductance, Field Measured	774.8	umhos/cm		10/26/22 12:35	1		10/26/22 12:35	FIELD	Field*
Temperature, Field Measured	58.6	°F		10/26/22 12:35	1		10/26/22 12:35	FIELD	Field*
Temperature, Field Measured	14.8	°C		10/26/22 12:35	1		10/26/22 12:35	FIELD	Field*
Turbidity, Field Measured	1.55	NTU		10/26/22 12:35	1	0.00	10/26/22 12:35	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	6.9	mg/L		11/04/22 12:52	1	1.0	11/04/22 12:52	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	31	mg/L		11/04/22 13:11	10	10	11/04/22 13:11	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	520	mg/L		10/28/22 15:35	1	26	10/28/22 16:32	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:27	JMW	EPA 6020A
Boron, Dissolved	19	ug/L		11/04/22 08:46	5	10	11/08/22 10:27	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:27	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:27	JMW	EPA 6020A
Manganese, Dissolved	130	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:27	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-08

Name: G56L

Matrix: Ground Water - Grab

Sampled: 10/26/22 14:45

Received: 10/27/22 07:00

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	23.96	Feet		10/26/22 14:45	1		10/26/22 14:45	FIELD	Field*
Dissolved oxygen, Field	3.0	mg/L		10/26/22 14:45	1		10/26/22 14:45	FIELD	Field*
Oxidation Reduction Potential	90.9	mV		10/26/22 14:45	1	-500	10/26/22 14:45	FIELD	Field*
pH, Field Measured	6.61	pH Units		10/26/22 14:45	1		10/26/22 14:45	FIELD	Field*
Specific Conductance, Field Measured	1133	umhos/cm		10/26/22 14:45	1		10/26/22 14:45	FIELD	Field*
Temperature, Field Measured	58.5	°F		10/26/22 14:45	1		10/26/22 14:45	FIELD	Field*
Temperature, Field Measured	14.7	°C		10/26/22 14:45	1		10/26/22 14:45	FIELD	Field*
Turbidity, Field Measured	3.05	NTU		10/26/22 14:45	1	0.00	10/26/22 14:45	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	30	mg/L		11/04/22 13:47	10	10	11/04/22 13:47	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	62	mg/L		11/04/22 13:47	10	10	11/04/22 13:47	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	720	mg/L		10/28/22 15:35	1	26	10/28/22 16:32	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:31	JMW	EPA 6020A
Boron, Dissolved	17	ug/L		11/04/22 08:46	5	10	11/08/22 10:31	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:31	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:31	JMW	EPA 6020A
Manganese, Dissolved	5.1	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:31	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-09
Name: G56S
Matrix: Ground Water - Grab

Sampled: 10/26/22 13:18
Received: 10/27/22 07:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	24.7	Feet		10/26/22 13:18	1		10/26/22 13:18	FIELD	Field*
Dissolved oxygen, Field	0.27	mg/L		10/26/22 13:18	1		10/26/22 13:18	FIELD	Field*
Oxidation Reduction Potential	-37.0	mV		10/26/22 13:18	1	-500	10/26/22 13:18	FIELD	Field*
pH, Field Measured	6.55	pH Units		10/26/22 13:18	1		10/26/22 13:18	FIELD	Field*
Specific Conductance, Field Measured	808.4	umhos/cm		10/26/22 13:18	1		10/26/22 13:18	FIELD	Field*
Temperature, Field Measured	13.8	°C		10/26/22 13:18	1		10/26/22 13:18	FIELD	Field*
Temperature, Field Measured	56.8	°F		10/26/22 13:18	1		10/26/22 13:18	FIELD	Field*
Turbidity, Field Measured	1.68	NTU		10/26/22 13:18	1	0.00	10/26/22 13:18	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	14	mg/L		11/04/22 13:29	10	10	11/04/22 13:29	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	66	mg/L		11/04/22 13:29	10	10	11/04/22 13:29	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	520	mg/L		10/28/22 15:35	1	26	10/28/22 16:32	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	1.9	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:35	JMW	EPA 6020A
Boron, Dissolved	12	ug/L		11/04/22 08:46	5	10	11/08/22 10:35	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:35	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:35	JMW	EPA 6020A
Manganese, Dissolved	410	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:35	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-10
Name: G59L
Matrix: Ground Water - Grab

Sampled: 10/26/22 15:09
Received: 10/27/22 07:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	32.13	Feet		10/26/22 15:09	1		10/26/22 15:09	FIELD	Field*
Dissolved oxygen, Field	4.6	mg/L		10/26/22 15:09	1		10/26/22 15:09	FIELD	Field*
Oxidation Reduction Potential	126	mV		10/26/22 15:09	1	-500	10/26/22 15:09	FIELD	Field*
pH, Field Measured	6.91	pH Units		10/26/22 15:09	1		10/26/22 15:09	FIELD	Field*
Specific Conductance, Field Measured	780.8	umhos/cm		10/26/22 15:09	1		10/26/22 15:09	FIELD	Field*
Temperature, Field Measured	57.8	°F		10/26/22 15:09	1		10/26/22 15:09	FIELD	Field*
Temperature, Field Measured	14.3	°C		10/26/22 15:09	1		10/26/22 15:09	FIELD	Field*
Turbidity, Field Measured	0.950	NTU		10/26/22 15:09	1	0.00	10/26/22 15:09	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	14	mg/L		11/04/22 16:30	10	10	11/04/22 16:30	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	90	mg/L		11/04/22 16:30	10	10	11/04/22 16:30	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	530	mg/L		10/28/22 15:35	1	26	10/28/22 16:32	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:38	JMW	EPA 6020A
Boron, Dissolved	< 10	ug/L		11/04/22 08:46	5	10	11/08/22 10:38	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:38	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:38	JMW	EPA 6020A
Manganese, Dissolved	4.4	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:38	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-11
Name: G59S
Matrix: Ground Water - Grab

Sampled: 10/26/22 13:58
Received: 10/27/22 07:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	36.5	Feet		10/26/22 13:58	1		10/26/22 13:58	FIELD	Field*
Dissolved oxygen, Field	0.42	mg/L		10/26/22 13:58	1		10/26/22 13:58	FIELD	Field*
Oxidation Reduction Potential	-84.7	mV		10/26/22 13:58	1	-500	10/26/22 13:58	FIELD	Field*
pH, Field Measured	6.71	pH Units		10/26/22 13:58	1		10/26/22 13:58	FIELD	Field*
Specific Conductance, Field Measured	974.2	umhos/cm		10/26/22 13:58	1		10/26/22 13:58	FIELD	Field*
Temperature, Field Measured	57.1	°F		10/26/22 13:58	1		10/26/22 13:58	FIELD	Field*
Temperature, Field Measured	13.9	°C		10/26/22 13:58	1		10/26/22 13:58	FIELD	Field*
Turbidity, Field Measured	1.22	NTU		10/26/22 13:58	1	0.00	10/26/22 13:58	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	13	mg/L		11/04/22 14:05	10	10	11/04/22 14:05	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	100	mg/L		11/08/22 13:00	25	25	11/08/22 13:00	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	560	mg/L		10/28/22 15:35	1	26	10/28/22 16:32	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	2.5	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:42	JMW	EPA 6020A
Boron, Dissolved	20	ug/L		11/04/22 08:46	5	10	11/08/22 10:42	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:42	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:42	JMW	EPA 6020A
Manganese, Dissolved	670	ug/L		11/04/22 08:46	5	1.0	11/08/22 10:42	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-12
Name: G65L
Matrix: Ground Water - Grab

Sampled: 10/26/22 15:49
Received: 10/27/22 07:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	24.11	Feet		10/26/22 15:49	1		10/26/22 15:49	FIELD	Field*
Dissolved oxygen, Field	7.0	mg/L		10/26/22 15:49	1		10/26/22 15:49	FIELD	Field*
Oxidation Reduction Potential	141	mV		10/26/22 15:49	1	-500	10/26/22 15:49	FIELD	Field*
pH, Field Measured	7.07	pH Units		10/26/22 15:49	1		10/26/22 15:49	FIELD	Field*
Specific Conductance, Field Measured	824.0	umhos/cm		10/26/22 15:49	1		10/26/22 15:49	FIELD	Field*
Temperature, Field Measured	56.3	°F		10/26/22 15:49	1		10/26/22 15:49	FIELD	Field*
Temperature, Field Measured	13.5	°C		10/26/22 15:49	1		10/26/22 15:49	FIELD	Field*
Turbidity, Field Measured	217	NTU		10/26/22 15:49	1	0.00	10/26/22 15:49	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	12	mg/L		11/08/22 13:18	5	5.0	11/08/22 13:18	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	33	mg/L		11/04/22 14:23	10	10	11/04/22 14:23	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	510	mg/L		10/28/22 15:35	1	26	10/28/22 16:32	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/05/22 10:55	JMW	EPA 6020A
Boron, Dissolved	59	ug/L		11/04/22 08:46	5	10	11/05/22 10:55	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/05/22 10:55	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/05/22 10:55	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/05/22 10:55	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-13

Name: G65S

Matrix: Ground Water - Grab

Sampled: 10/26/22 15:08

Received: 10/27/22 07:00

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	24.45	Feet		10/26/22 15:08	1		10/26/22 15:08	FIELD	Field*
Dissolved oxygen, Field	7.6	mg/L		10/26/22 15:08	1		10/26/22 15:08	FIELD	Field*
Oxidation Reduction Potential	109	mV		10/26/22 15:08	1	-500	10/26/22 15:08	FIELD	Field*
pH, Field Measured	6.95	pH Units		10/26/22 15:08	1		10/26/22 15:08	FIELD	Field*
Specific Conductance, Field Measured	909.0	umhos/cm		10/26/22 15:08	1		10/26/22 15:08	FIELD	Field*
Temperature, Field Measured	14.4	°C		10/26/22 15:08	1		10/26/22 15:08	FIELD	Field*
Temperature, Field Measured	58.0	°F		10/26/22 15:08	1		10/26/22 15:08	FIELD	Field*
Turbidity, Field Measured	4.38	NTU		10/26/22 15:08	1	0.00	10/26/22 15:08	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	18	mg/L	Q4	11/04/22 16:11	10	10	11/04/22 16:11	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	33	mg/L	Q4	11/04/22 16:11	10	10	11/04/22 16:11	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	490	mg/L		10/28/22 15:35	1	26	10/28/22 16:32	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:22	JMW	EPA 6020A
Boron, Dissolved	15	ug/L		11/04/22 08:46	5	10	11/08/22 14:22	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:22	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:22	JMW	EPA 6020A
Manganese, Dissolved	20	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:22	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-14

Name: G66S

Matrix: Ground Water - Grab

Sampled: 10/26/22 12:27

Received: 10/27/22 07:00

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	23.77	Feet		10/26/22 12:27	1		10/26/22 12:27	FIELD	Field*
Dissolved oxygen, Field	4.5	mg/L		10/26/22 12:27	1		10/26/22 12:27	FIELD	Field*
Oxidation Reduction Potential	-38.0	mV		10/26/22 12:27	1	-500	10/26/22 12:27	FIELD	Field*
pH, Field Measured	6.00	pH Units		10/26/22 12:27	1		10/26/22 12:27	FIELD	Field*
Specific Conductance, Field Measured	1310	umhos/cm		10/26/22 12:27	1		10/26/22 12:27	FIELD	Field*
Temperature, Field Measured	13.0	°C		10/26/22 12:27	1		10/26/22 12:27	FIELD	Field*
Temperature, Field Measured	55.5	°F		10/26/22 12:27	1		10/26/22 12:27	FIELD	Field*
Turbidity, Field Measured	6.00	NTU		10/26/22 12:27	1	0.00	10/26/22 12:27	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	14	mg/L		11/04/22 16:48	10	10	11/04/22 16:48	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	180	mg/L		11/04/22 17:06	25	25	11/04/22 17:06	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	820	mg/L		10/28/22 15:35	1	26	10/28/22 16:32	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:26	JMW	EPA 6020A
Boron, Dissolved	25	ug/L		11/04/22 08:46	5	10	11/08/22 14:26	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:26	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:26	JMW	EPA 6020A
Manganese, Dissolved	250	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:26	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-15

Name: G67S

Matrix: Ground Water - Grab

Sampled: 10/26/22 11:31

Received: 10/27/22 07:00

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	20.01	Feet		10/26/22 11:31	1		10/26/22 11:31	FIELD	Field*
Dissolved oxygen, Field	3.5	mg/L		10/26/22 11:31	1		10/26/22 11:31	FIELD	Field*
Oxidation Reduction Potential	147	mV		10/26/22 11:31	1	-500	10/26/22 11:31	FIELD	Field*
pH, Field Measured	6.02	pH Units		10/26/22 11:31	1		10/26/22 11:31	FIELD	Field*
Specific Conductance, Field Measured	1050	umhos/cm		10/26/22 11:31	1		10/26/22 11:31	FIELD	Field*
Temperature, Field Measured	13.0	°C		10/26/22 11:31	1		10/26/22 11:31	FIELD	Field*
Temperature, Field Measured	55.5	°F		10/26/22 11:31	1		10/26/22 11:31	FIELD	Field*
Turbidity, Field Measured	101	NTU		10/26/22 11:31	1	0.00	10/26/22 11:31	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	16	mg/L		11/04/22 17:42	10	10	11/04/22 17:42	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	68	mg/L		11/04/22 17:42	10	10	11/04/22 17:42	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	570	mg/L		10/28/22 15:35	1	26	10/28/22 16:32	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	1.6	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:30	JMW	EPA 6020A
Boron, Dissolved	20	ug/L		11/04/22 08:46	5	10	11/08/22 14:30	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:30	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:30	JMW	EPA 6020A
Manganese, Dissolved	78	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:30	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-16

Name: G70L

Matrix: Ground Water - Grab

Sampled: 10/26/22 14:21

Received: 10/27/22 07:00

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	22.7	Feet		10/26/22 14:21	1		10/26/22 14:21	FIELD	Field*
Dissolved oxygen, Field	5.7	mg/L		10/26/22 14:21	1		10/26/22 14:21	FIELD	Field*
Oxidation Reduction Potential	143	mV		10/26/22 14:21	1	-500	10/26/22 14:21	FIELD	Field*
pH, Field Measured	6.65	pH Units		10/26/22 14:21	1		10/26/22 14:21	FIELD	Field*
Specific Conductance, Field Measured	2310	umhos/cm		10/26/22 14:21	1		10/26/22 14:21	FIELD	Field*
Temperature, Field Measured	14.7	°C		10/26/22 14:21	1		10/26/22 14:21	FIELD	Field*
Temperature, Field Measured	58.5	°F		10/26/22 14:21	1		10/26/22 14:21	FIELD	Field*
Turbidity, Field Measured	15.3	NTU		10/26/22 14:21	1	0.00	10/26/22 14:21	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	230	mg/L		11/04/22 18:00	25	25	11/04/22 18:00	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	160	mg/L		11/04/22 18:00	25	25	11/04/22 18:00	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1400	mg/L		10/31/22 11:26	1	26	10/31/22 13:27	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:34	JMW	EPA 6020A
Boron, Dissolved	< 10	ug/L		11/04/22 08:46	5	10	11/08/22 14:34	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:34	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:34	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:34	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-17

Name: G71S

Matrix: Ground Water - Grab

Sampled: 10/26/22 13:44

Received: 10/27/22 07:00

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	30.75	Feet		10/26/22 13:44	1		10/26/22 13:44	FIELD	Field*
Dissolved oxygen, Field	3.0	mg/L		10/26/22 13:44	1		10/26/22 13:44	FIELD	Field*
Oxidation Reduction Potential	116	mV		10/26/22 13:44	1	-500	10/26/22 13:44	FIELD	Field*
pH, Field Measured	6.55	pH Units		10/26/22 13:44	1		10/26/22 13:44	FIELD	Field*
Specific Conductance, Field Measured	912.0	umhos/cm		10/26/22 13:44	1		10/26/22 13:44	FIELD	Field*
Temperature, Field Measured	57.1	°F		10/26/22 13:44	1		10/26/22 13:44	FIELD	Field*
Temperature, Field Measured	14.0	°C		10/26/22 13:44	1		10/26/22 13:44	FIELD	Field*
Turbidity, Field Measured	600	NTU		10/26/22 13:44	1	0.00	10/26/22 13:44	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	5.0	mg/L	Q3	11/04/22 18:18	1	1.0	11/04/22 18:18	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	40	mg/L	Q4	11/04/22 19:48	10	10	11/04/22 19:48	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	470	mg/L		10/31/22 11:26	1	26	10/31/22 13:27	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:55	JMW	EPA 6020A
Boron, Dissolved	13	ug/L		11/04/22 08:46	5	10	11/08/22 14:55	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:55	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:55	JMW	EPA 6020A
Manganese, Dissolved	280	ug/L		11/04/22 08:46	5	1.0	11/08/22 14:55	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-18

Name: OR13D

Matrix: Ground Water - Grab

Sampled: 10/26/22 14:27

Received: 10/27/22 07:00

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	13.86	Feet		10/26/22 14:27	1		10/26/22 14:27	FIELD	Field*
Dissolved oxygen, Field	4.0	mg/L		10/26/22 14:27	1		10/26/22 14:27	FIELD	Field*
Oxidation Reduction Potential	-57.7	mV		10/26/22 14:27	1	-500	10/26/22 14:27	FIELD	Field*
pH, Field Measured	6.77	pH Units		10/26/22 14:27	1		10/26/22 14:27	FIELD	Field*
Specific Conductance, Field Measured	1918	umhos/cm		10/26/22 14:27	1		10/26/22 14:27	FIELD	Field*
Temperature, Field Measured	59.4	°F		10/26/22 14:27	1		10/26/22 14:27	FIELD	Field*
Temperature, Field Measured	15.2	°C		10/26/22 14:27	1		10/26/22 14:27	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/26/22 14:27	1	0.00	10/26/22 14:27	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	39	mg/L		11/04/22 20:07	10	10	11/04/22 20:07	CRD	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	1700	ug/L		11/04/22 08:46	5	10	11/08/22 14:59	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-19

Name: OR13S

Matrix: Ground Water - Grab

Sampled: 10/26/22 14:00

Received: 10/27/22 07:00

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	14.04	Feet		10/26/22 14:00	1		10/26/22 14:00	FIELD	Field*
Dissolved oxygen, Field	6.1	mg/L		10/26/22 14:00	1		10/26/22 14:00	FIELD	Field*
Oxidation Reduction Potential	-51.9	mV		10/26/22 14:00	1	-500	10/26/22 14:00	FIELD	Field*
pH, Field Measured	6.72	pH Units		10/26/22 14:00	1		10/26/22 14:00	FIELD	Field*
Specific Conductance, Field Measured	1991	umhos/cm		10/26/22 14:00	1		10/26/22 14:00	FIELD	Field*
Temperature, Field Measured	62.4	°F		10/26/22 14:00	1		10/26/22 14:00	FIELD	Field*
Temperature, Field Measured	16.9	°C		10/26/22 14:00	1		10/26/22 14:00	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/26/22 14:00	1	0.00	10/26/22 14:00	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	90	mg/L		11/04/22 20:25	25	25	11/04/22 20:25	CRD	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	4100	ug/L		11/04/22 08:46	5	10	11/08/22 15:02	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ04795-20
Name: OM21
Matrix: Ground Water - Grab

Sampled: 10/26/22 10:29
Received: 10/27/22 07:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	11.25	Feet		10/26/22 00:00	1		10/26/22 00:00	FIELD	Field*
Dissolved oxygen, Field	3.3	mg/L		10/26/22 00:00	1		10/26/22 00:00	FIELD	Field*
Oxidation Reduction Potential	19.1	mV		10/26/22 00:00	1	-500	10/26/22 00:00	FIELD	Field*
pH, Field Measured	7.16	pH Units		10/26/22 00:00	1		10/26/22 00:00	FIELD	Field*
Specific Conductance, Field Measured	3371	umhos/cm		10/26/22 00:00	1		10/26/22 00:00	FIELD	Field*
Temperature, Field Measured	55.0	°F		10/26/22 00:00	1		10/26/22 00:00	FIELD	Field*
Temperature, Field Measured	12.8	°C		10/26/22 00:00	1		10/26/22 00:00	FIELD	Field*
Turbidity, Field Measured	12.0	NTU		10/26/22 00:00	1	0.00	10/26/22 00:00	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	200	mg/L		11/04/22 20:43	100	100	11/04/22 20:43	CRD	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	8800	ug/L		11/04/22 08:46	5	10	11/08/22 15:06	JMW	EPA 6020A

Sample: FJ04795-30
Name: P01L
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	19.41	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
Sample: FJ04795-31 Name: P01S Matrix: Ground Water - Grab									
Sampled: 11/21/22 00:00 Received: 10/27/22 07:00 PO #: 1168808									
Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	19.01	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*



ANALYTICAL RESULTS

Sample: FJ04795-32
Name: P01I
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	19.56	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-33
Name: P02S
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	22.05	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-34
Name: P02D
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	27.67	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-35
Name: P04S = G04S
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	22.1	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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ANALYTICAL RESULTS

Sample: FJ04795-36
Name: P05L
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	7.24	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-37
Name: P05S
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	7.32	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-38
Name: P05D
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	8.13	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-39
Name: P36S
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	13.15	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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ANALYTICAL RESULTS

Sample: FJ04795-40
Name: P36D
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	13.5	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-42
Name: P38L
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	19.43	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-43
Name: P38S
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	21.3	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-44
Name: P39L
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	11.55	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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ANALYTICAL RESULTS

Sample: FJ04795-45
Name: P39S
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	11.55	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-46
Name: P39D
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	15.76	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-47
Name: P40L
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	20.23	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-48
Name: P40S
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	19.48	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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ANALYTICAL RESULTS

Sample: FJ04795-49
Name: P41L
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	11.9	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-50
Name: P41S
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	15.5	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-51
Name: P41I
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	15.83	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-52
Name: P41D
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	36.82	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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ANALYTICAL RESULTS

Sample: FJ04795-53
Name: P42L
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	13.49	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-54
Name: P42S
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	14.12	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-55
Name: P42I
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	14.5	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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Sample: FJ04795-56
Name: P42D
Matrix: Ground Water - Grab

Sampled: 11/21/22 00:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	39.72	Feet		11/21/22 00:00	1		11/21/22 00:00	FIELD	Field*
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ANALYTICAL RESULTS

Sample: FJ04795-62
Name: OR03S
Matrix: Ground Water - Grab

Sampled: 11/21/22 16:02
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	45.29	Feet		11/21/22 16:02	1		11/21/22 16:02	FIELD	Field*
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Sample: FJ04795-63
Name: OM05S
Matrix: Ground Water - Grab

Sampled: 11/21/22 12:27
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	21.41	Feet		11/21/22 12:27	1		11/21/22 12:27	FIELD	Field*
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Sample: FJ04795-64
Name: OR05D
Matrix: Ground Water - Grab

Sampled: 11/21/22 12:26
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	22.41	Feet		11/21/22 12:26	1		11/21/22 12:26	FIELD	Field*
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Sample: FJ04795-65
Name: OM08
Matrix: Ground Water - Grab

Sampled: 11/21/22 11:57
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	15.85	Feet		11/21/22 11:57	1		11/21/22 11:57	FIELD	Field*
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ANALYTICAL RESULTS

Sample: FJ04795-66
Name: OM09
Matrix: Ground Water - Grab

Sampled: 11/21/22 13:48
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	5.68	Feet		11/21/22 13:48	1		11/21/22 13:48	FIELD	Field*
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Sample: FJ04795-67
Name: OM10
Matrix: Ground Water - Grab

Sampled: 11/21/22 10:30
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	11.85	Feet		11/21/22 10:30	1		11/21/22 10:30	FIELD	Field*
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Sample: FJ04795-68
Name: OR14S
Matrix: Ground Water - Grab

Sampled: 11/21/22 13:14
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	9.04	Feet		11/21/22 13:14	1		11/21/22 13:14	FIELD	Field*
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Sample: FJ04795-69
Name: OM15
Matrix: Ground Water - Grab

Sampled: 11/21/22 13:05
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	22.15	Feet		11/21/22 13:05	1		11/21/22 13:05	FIELD	Field*
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ANALYTICAL RESULTS

Sample: FJ04795-70
Name: OM16
Matrix: Ground Water - Grab

Sampled: 11/21/22 11:00
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	24.33	Feet		11/21/22 11:00	1		11/21/22 11:00	FIELD	Field*
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Sample: FJ04795-71
Name: OM17
Matrix: Ground Water - Grab

Sampled: 11/21/22 10:48
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	13.34	Feet		11/21/22 10:48	1		11/21/22 10:48	FIELD	Field*
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Sample: FJ04795-72
Name: OR18
Matrix: Ground Water - Grab

Sampled: 11/21/22 11:08
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	18.58	Feet		11/21/22 11:08	1		11/21/22 11:08	FIELD	Field*
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Sample: FJ04795-73
Name: OM22S
Matrix: Ground Water - Grab

Sampled: 11/21/22 14:01
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	21.35	Feet		11/21/22 14:01	1		11/21/22 14:01	FIELD	Field*
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ANALYTICAL RESULTS

Sample: FJ04795-74
Name: OM23S
Matrix: Ground Water - Grab

Sampled: 11/21/22 14:34
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	42.63	Feet		11/21/22 14:34	1		11/21/22 14:34	FIELD	Field*
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Sample: FJ04795-75
Name: OM25D
Matrix: Ground Water - Grab

Sampled: 11/21/22 14:57
Received: 10/27/22 07:00
PO #: 1168808

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

Depth, From Measuring Point	58.15	Feet		11/21/22 14:57	1		11/21/22 14:57	FIELD	Field*
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Sample: FJ05072-01
Name: G03L
Matrix: Ground Water - Grab

Sampled: 10/26/22 11:35
Received: 10/27/22 17:37
PO #: 1168808

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

Alkalinity - bicarbonate as CaCO3	250	mg/L	H	11/17/22 14:45	1	10	11/17/22 14:45	HRF	SM 2320B 1997*
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ANALYTICAL RESULTS

Sample: FJ05072-02
Name: G12L
Matrix: Ground Water - Grab

Sampled: 10/27/22 13:01
Received: 10/27/22 17:37
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	23.91	Feet		10/27/22 13:01	1		10/27/22 13:01	FIELD	Field*
Dissolved oxygen, Field	3.7	mg/L		10/27/22 13:01	1		10/27/22 13:01	FIELD	Field*
Oxidation Reduction Potential	-40.8	mV		10/27/22 13:01	1	-500	10/27/22 13:01	FIELD	Field*
pH, Field Measured	7.54	pH Units		10/27/22 13:01	1		10/27/22 13:01	FIELD	Field*
Specific Conductance, Field Measured	611.6	umhos/cm		10/27/22 13:01	1		10/27/22 13:01	FIELD	Field*
Temperature, Field Measured	13.5	°C		10/27/22 13:01	1		10/27/22 13:01	FIELD	Field*
Temperature, Field Measured	56.2	°F		10/27/22 13:01	1		10/27/22 13:01	FIELD	Field*
Turbidity, Field Measured	1.05	NTU		10/27/22 13:01	1	0.00	10/27/22 13:01	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	290	mg/L		11/04/22 09:30	1	10	11/04/22 09:30	HRF	SM 2320B 1997*
Cyanide	< 0.0050	mg/L		10/31/22 09:17	1	0.0050	11/01/22 14:25	CRS1	EPA 335.4 REV1
Soluble Anions - PIA									
Chloride, Dissolved	2.8	mg/L		10/28/22 16:16	1	1.0	10/28/22 16:16	CRD	EPA 300.0 REV 2.1
Fluoride, Dissolved	< 0.25	mg/L		10/28/22 16:16	1	0.25	10/28/22 16:16	CRD	EPA 300.0 REV 2.1
Nitrate, Dissolved	2.6	mg/L	Q4	10/28/22 17:11	25	0.75	10/28/22 17:11	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	37	mg/L	Q4	10/28/22 17:11	25	25	10/28/22 17:11	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	390	mg/L		10/31/22 15:46	1	26	10/31/22 16:38	HRF	SM 2540C
Soluble Metals - PIA									
Antimony, Dissolved	< 3.0	ug/L		11/04/22 14:52	5	3.0	11/04/22 16:17	KMC	EPA 6020A
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:17	KMC	EPA 6020A
Barium, Dissolved	36	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:17	KMC	EPA 6020A
Beryllium	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:17	KMC	EPA 6020A
Boron, Dissolved	11	ug/L		11/04/22 14:52	5	10	11/07/22 14:01	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:17	KMC	EPA 6020A
Calcium, Dissolved	83	mg/L		11/08/22 12:00	5	0.10	11/08/22 12:43	KMC	EPA 6020A
Chromium, Dissolved	5.2	ug/L		11/04/22 14:52	5	4.0	11/04/22 16:17	KMC	EPA 6020A
Cobalt, Dissolved	< 2.0	ug/L		11/04/22 14:52	5	2.0	11/04/22 16:17	KMC	EPA 6020A
Copper, Dissolved	< 3.0	ug/L		11/04/22 14:52	5	3.0	11/04/22 16:17	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:17	KMC	EPA 6020A
Magnesium, Dissolved	44	mg/L		11/04/22 14:52	5	0.10	11/04/22 16:17	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-02

Name: G12L

Matrix: Ground Water - Grab

Sampled: 10/27/22 13:01

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury, Dissolved	< 0.20	ug/L		11/04/22 14:52	5	0.20	11/04/22 16:17	KMC	EPA 6020A
Nickel, Dissolved	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 16:17	KMC	EPA 6020A
Potassium, Dissolved	0.25	mg/L		11/04/22 14:52	5	0.10	11/04/22 16:17	KMC	EPA 6020A
Selenium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:17	KMC	EPA 6020A
Silver	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 16:17	KMC	EPA 6020A
Sodium, Dissolved	13	mg/L		11/04/22 14:52	5	0.10	11/07/22 14:01	KMC	EPA 6020A
Vanadium	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 16:17	KMC	EPA 6020A
Zinc, Dissolved	< 6.0	ug/L		11/04/22 14:52	5	6.0	11/07/22 14:01	KMC	EPA 6020A
<u>Soluble Nutrients - PIA</u>									
Ammonia, Dissolved	0.13	mg/L		11/03/22 13:16	1	0.10	11/03/22 13:16	TTH	EPA 350.1 REV2



ANALYTICAL RESULTS

Sample: FJ05072-03
Name: G16L
Matrix: Ground Water - Grab

Sampled: 10/27/22 15:04
Received: 10/27/22 17:37
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	32.36	Feet		10/27/22 15:04	1		10/27/22 15:04	FIELD	Field*
Dissolved oxygen, Field	3.8	mg/L		10/27/22 15:04	1		10/27/22 15:04	FIELD	Field*
Oxidation Reduction Potential	117	mV		10/27/22 15:04	1	-500	10/27/22 15:04	FIELD	Field*
pH, Field Measured	7.65	pH Units		10/27/22 15:04	1		10/27/22 15:04	FIELD	Field*
Specific Conductance, Field Measured	490.1	umhos/cm		10/27/22 15:04	1		10/27/22 15:04	FIELD	Field*
Temperature, Field Measured	13.5	°C		10/27/22 15:04	1		10/27/22 15:04	FIELD	Field*
Temperature, Field Measured	56.3	°F		10/27/22 15:04	1		10/27/22 15:04	FIELD	Field*
Turbidity, Field Measured	0.940	NTU		10/27/22 15:04	1	0.00	10/27/22 15:04	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	250	mg/L		11/04/22 09:30	1	10	11/04/22 09:30	HRF	SM 2320B 1997*
Cyanide	< 0.0050	mg/L		10/31/22 09:17	1	0.0050	11/01/22 14:26	CRS1	EPA 335.4 REV1
Soluble Anions - PIA									
Chloride, Dissolved	2.3	mg/L		10/28/22 17:29	1	1.0	10/28/22 17:29	CRD	EPA 300.0 REV 2.1
Fluoride, Dissolved	0.26	mg/L		10/28/22 17:29	1	0.25	10/28/22 17:29	CRD	EPA 300.0 REV 2.1
Nitrate, Dissolved	3.4	mg/L	Q4	10/28/22 18:23	25	0.75	10/28/22 18:23	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	17	mg/L		11/12/22 05:21	5	5.0	11/12/22 05:21	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	320	mg/L		10/31/22 15:46	1	26	10/31/22 16:38	HRF	SM 2540C
Soluble Metals - PIA									
Antimony, Dissolved	< 3.0	ug/L		11/04/22 14:52	5	3.0	11/04/22 16:21	KMC	EPA 6020A
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:21	KMC	EPA 6020A
Barium, Dissolved	27	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:21	KMC	EPA 6020A
Beryllium	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:21	KMC	EPA 6020A
Boron, Dissolved	< 10	ug/L		11/04/22 14:52	5	10	11/07/22 14:05	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:21	KMC	EPA 6020A
Calcium, Dissolved	75	mg/L		11/08/22 12:00	5	0.10	11/08/22 12:47	KMC	EPA 6020A
Chromium, Dissolved	4.3	ug/L		11/04/22 14:52	5	4.0	11/04/22 16:21	KMC	EPA 6020A
Cobalt, Dissolved	< 2.0	ug/L		11/04/22 14:52	5	2.0	11/04/22 16:21	KMC	EPA 6020A
Copper, Dissolved	< 3.0	ug/L		11/04/22 14:52	5	3.0	11/04/22 16:21	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:21	KMC	EPA 6020A
Magnesium, Dissolved	36	mg/L		11/04/22 14:52	5	0.10	11/04/22 16:21	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-03

Name: G16L

Matrix: Ground Water - Grab

Sampled: 10/27/22 15:04

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury, Dissolved	< 0.20	ug/L		11/04/22 14:52	5	0.20	11/04/22 16:21	KMC	EPA 6020A
Nickel, Dissolved	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 16:21	KMC	EPA 6020A
Potassium, Dissolved	0.15	mg/L		11/04/22 14:52	5	0.10	11/04/22 16:21	KMC	EPA 6020A
Selenium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:21	KMC	EPA 6020A
Silver	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 16:21	KMC	EPA 6020A
Sodium, Dissolved	6.0	mg/L		11/04/22 14:52	5	0.10	11/07/22 14:05	KMC	EPA 6020A
Vanadium	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 16:21	KMC	EPA 6020A
Zinc, Dissolved	< 6.0	ug/L		11/04/22 14:52	5	6.0	11/07/22 14:05	KMC	EPA 6020A

Soluble Nutrients - PIA

Ammonia, Dissolved	< 0.10	mg/L		11/03/22 13:17	1	0.10	11/03/22 13:17	TTH	EPA 350.1 REV2
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ANALYTICAL RESULTS

Sample: FJ05072-04

Name: G50S

Matrix: Ground Water - Grab

Sampled: 10/27/22 13:23

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	20.51	Feet		10/27/22 13:23	1		10/27/22 13:23	FIELD	Field*
Dissolved oxygen, Field	0.98	mg/L		10/27/22 13:23	1		10/27/22 13:23	FIELD	Field*
Oxidation Reduction Potential	48.0	mV		10/27/22 13:23	1	-500	10/27/22 13:23	FIELD	Field*
pH, Field Measured	7.16	pH Units		10/27/22 13:23	1		10/27/22 13:23	FIELD	Field*
Specific Conductance, Field Measured	679.0	umhos/cm		10/27/22 13:23	1		10/27/22 13:23	FIELD	Field*
Temperature, Field Measured	14.2	°C		10/27/22 13:23	1		10/27/22 13:23	FIELD	Field*
Temperature, Field Measured	57.6	°F		10/27/22 13:23	1		10/27/22 13:23	FIELD	Field*
Turbidity, Field Measured	8.00	NTU		10/27/22 13:23	1	0.00	10/27/22 13:23	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	9.0	mg/L		11/07/22 12:13	5	5.0	11/07/22 12:13	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	40	mg/L		11/07/22 12:13	5	5.0	11/07/22 12:13	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	340	mg/L		11/01/22 10:00	1	26	11/01/22 11:15	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:25	KMC	EPA 6020A
Boron, Dissolved	14	ug/L		11/04/22 14:52	5	10	11/07/22 14:08	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:25	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:25	KMC	EPA 6020A
Manganese, Dissolved	90	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:25	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-05
Name: G51S
Matrix: Ground Water - Grab

Sampled: 10/27/22 12:05
Received: 10/27/22 17:37
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	20.78	Feet		10/27/22 12:05	1		10/27/22 12:05	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		10/27/22 12:05	1		10/27/22 12:05	FIELD	Field*
Oxidation Reduction Potential	-81.0	mV		10/27/22 12:05	1	-500	10/27/22 12:05	FIELD	Field*
pH, Field Measured	7.13	pH Units		10/27/22 12:05	1		10/27/22 12:05	FIELD	Field*
Specific Conductance, Field Measured	725.0	umhos/cm		10/27/22 12:05	1		10/27/22 12:05	FIELD	Field*
Temperature, Field Measured	55.6	°F		10/27/22 12:05	1		10/27/22 12:05	FIELD	Field*
Temperature, Field Measured	13.1	°C		10/27/22 12:05	1		10/27/22 12:05	FIELD	Field*
Turbidity, Field Measured	22.9	NTU		10/27/22 12:05	1	0.00	10/27/22 12:05	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	11	mg/L		11/07/22 12:31	10	10	11/07/22 12:31	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	52	mg/L		11/07/22 12:31	10	10	11/07/22 12:31	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	420	mg/L	M	11/01/22 10:00	1	26	11/01/22 11:15	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	1.4	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:29	KMC	EPA 6020A
Boron, Dissolved	< 10	ug/L		11/04/22 14:52	5	10	11/07/22 14:12	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:29	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:29	KMC	EPA 6020A
Manganese, Dissolved	750	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:29	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-06

Name: G52L

Matrix: Ground Water - Grab

Sampled: 10/27/22 11:07

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	28.55	Feet		10/27/22 11:07	1		10/27/22 11:07	FIELD	Field*
Dissolved oxygen, Field	0.83	mg/L		10/27/22 11:07	1		10/27/22 11:07	FIELD	Field*
Oxidation Reduction Potential	66.0	mV		10/27/22 11:07	1	-500	10/27/22 11:07	FIELD	Field*
pH, Field Measured	6.53	pH Units		10/27/22 11:07	1		10/27/22 11:07	FIELD	Field*
Specific Conductance, Field Measured	1610	umhos/cm		10/27/22 11:07	1		10/27/22 11:07	FIELD	Field*
Temperature, Field Measured	55.6	°F		10/27/22 11:07	1		10/27/22 11:07	FIELD	Field*
Temperature, Field Measured	13.1	°C		10/27/22 11:07	1		10/27/22 11:07	FIELD	Field*
Turbidity, Field Measured	11.8	NTU		10/27/22 11:07	1	0.00	10/27/22 11:07	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	26	mg/L		11/12/22 05:40	5	5.0	11/12/22 05:40	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	73	mg/L		11/07/22 12:49	25	25	11/07/22 12:49	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	990	mg/L		11/01/22 10:00	1	26	11/01/22 11:15	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:33	KMC	EPA 6020A
Boron, Dissolved	13	ug/L		11/04/22 14:52	5	10	11/07/22 14:16	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:33	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:33	KMC	EPA 6020A
Manganese, Dissolved	2200	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:33	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-07

Name: G53S

Matrix: Ground Water - Grab

Sampled: 10/27/22 14:52

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	20.34	Feet		10/27/22 14:52	1		10/27/22 14:52	FIELD	Field*
Dissolved oxygen, Field	4.2	mg/L		10/27/22 14:52	1		10/27/22 14:52	FIELD	Field*
Oxidation Reduction Potential	-12.0	mV		10/27/22 14:52	1	-500	10/27/22 14:52	FIELD	Field*
pH, Field Measured	6.53	pH Units		10/27/22 14:52	1		10/27/22 14:52	FIELD	Field*
Specific Conductance, Field Measured	1030	umhos/cm		10/27/22 14:52	1		10/27/22 14:52	FIELD	Field*
Temperature, Field Measured	58.3	°F		10/27/22 14:52	1		10/27/22 14:52	FIELD	Field*
Temperature, Field Measured	14.6	°C		10/27/22 14:52	1		10/27/22 14:52	FIELD	Field*
Turbidity, Field Measured	234	NTU		10/27/22 14:52	1	0.00	10/27/22 14:52	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	45	mg/L		11/07/22 13:07	10	10	11/07/22 13:07	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	130	mg/L		11/12/22 06:36	25	25	11/12/22 06:36	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	600	mg/L		11/01/22 10:00	1	26	11/01/22 11:15	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	8.5	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:36	KMC	EPA 6020A
Boron, Dissolved	13	ug/L		11/04/22 14:52	5	10	11/07/22 14:20	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:36	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:36	KMC	EPA 6020A
Manganese, Dissolved	300	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:36	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-08

Name: G57S

Matrix: Ground Water - Grab

Sampled: 10/27/22 15:36

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	27.2	Feet		10/27/22 15:36	1		10/27/22 15:36	FIELD	Field*
Dissolved oxygen, Field	9.2	mg/L		10/27/22 15:36	1		10/27/22 15:36	FIELD	Field*
Oxidation Reduction Potential	107	mV		10/27/22 15:36	1	-500	10/27/22 15:36	FIELD	Field*
pH, Field Measured	6.62	pH Units		10/27/22 15:36	1		10/27/22 15:36	FIELD	Field*
Specific Conductance, Field Measured	1260	umhos/cm		10/27/22 15:36	1		10/27/22 15:36	FIELD	Field*
Temperature, Field Measured	56.5	°F		10/27/22 15:36	1		10/27/22 15:36	FIELD	Field*
Temperature, Field Measured	13.6	°C		10/27/22 15:36	1		10/27/22 15:36	FIELD	Field*
Turbidity, Field Measured	0.100	NTU		10/27/22 15:36	1	0.00	10/27/22 15:36	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	14	mg/L		11/07/22 14:01	10	10	11/07/22 14:01	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	50	mg/L		11/07/22 14:01	10	10	11/07/22 14:01	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	690	mg/L		11/01/22 10:00	1	26	11/01/22 11:15	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:59	KMC	EPA 6020A
Boron, Dissolved	< 10	ug/L		11/04/22 14:52	5	10	11/07/22 15:08	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:59	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:59	KMC	EPA 6020A
Manganese, Dissolved	11	ug/L		11/04/22 14:52	5	1.0	11/04/22 16:59	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-09
Name: L103
Matrix: Ground Water - Grab

Sampled: 10/27/22 15:57
Received: 10/27/22 17:37
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	98	mg/L	Q4	10/28/22 17:45	25	25	10/28/22 17:45	CRD	EPA 300.0 REV 2.1
Nitrate-N	3.0	mg/L	Q4	10/28/22 17:45	25	0.75	10/28/22 17:45	CRD	EPA 300.0 REV 2.1
Sulfate	1900	mg/L		11/21/22 17:12	500	500	11/21/22 17:12	LAM	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	2.03	Feet		10/27/22 15:57	1		10/27/22 15:57	FIELD	Field*
Dissolved oxygen, Field	10	mg/L		10/27/22 15:57	1		10/27/22 15:57	FIELD	Field*
Oxidation Reduction Potential	56.5	mV		10/27/22 15:57	1	-500	10/27/22 15:57	FIELD	Field*
pH, Field Measured	8.01	pH Units		10/27/22 15:57	1		10/27/22 15:57	FIELD	Field*
Specific Conductance, Field Measured	4311	umhos/cm		10/27/22 15:57	1		10/27/22 15:57	FIELD	Field*
Temperature, Field Measured	58.4	°F		10/27/22 15:57	1		10/27/22 15:57	FIELD	Field*
Temperature, Field Measured	14.7	°C		10/27/22 15:57	1		10/27/22 15:57	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/27/22 15:57	1	0.00	10/27/22 15:57	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	150	mg/L		11/04/22 09:30	1	10	11/04/22 09:30	HRF	SM 2320B 1997*
COD	19	mg/L		11/03/22 13:22	1	6.0	11/03/22 13:46	CRD	SM 5220 D 1997
Cyanide	< 0.0050	mg/L		10/31/22 09:17	1	0.0050	11/01/22 14:27	CRS1	EPA 335.4 REV1
Fluoride	0.653	mg/L		11/12/22 12:19	1	0.250	11/12/22 12:19	ANK	SM 4500F C 1997
Solids - total dissolved solids (TDS)	3600	mg/L		10/31/22 15:46	1	26	10/31/22 16:38	HRF	SM 2540C
Solids - total suspended solids (TSS)	< 4.0	mg/L		11/03/22 12:42	1	4.0	11/03/22 14:10	CPS	SM 2540 D 1997
Phenolics	< 0.0050	mg/L		11/02/22 16:38	1	0.0050	11/03/22 11:43	CRS1	EPA 420.4 Rev1
Nutrients - PIA									
Ammonia-N	1.8	mg/L		11/03/22 12:32	1	0.10	11/03/22 12:32	TTH	EPA 350.1 REV2
Total Metals - PIA									
Aluminum	98	ug/L		11/03/22 08:59	5	20	11/05/22 10:36	JMW	EPA 6020A
Antimony	< 3.0	ug/L		11/03/22 08:59	5	3.0	11/04/22 12:59	JMW	EPA 6020A
Arsenic	5.7	ug/L		11/03/22 08:59	5	1.0	11/04/22 12:59	JMW	EPA 6020A
Barium	26	ug/L		11/03/22 08:59	5	1.0	11/04/22 12:59	JMW	EPA 6020A
Beryllium	< 1.0	ug/L		11/03/22 08:59	5	1.0	11/04/22 12:59	JMW	EPA 6020A
Boron	16000	ug/L		11/03/22 08:59	100	200	11/04/22 14:54	JMW	EPA 6020A
Cadmium	1.8	ug/L		11/03/22 08:59	5	1.0	11/04/22 12:59	JMW	EPA 6020A
Calcium	130	mg/L		11/03/22 08:59	5	0.20	11/04/22 12:59	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-09
Name: L103
Matrix: Ground Water - Grab

Sampled: 10/27/22 15:57
Received: 10/27/22 17:37
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Chromium	29	ug/L		11/03/22 08:59	5	4.0	11/04/22 12:59	JMW	EPA 6020A
Cobalt	3.6	ug/L		11/03/22 08:59	5	2.0	11/04/22 12:59	JMW	EPA 6020A
Copper	< 3.0	ug/L		11/03/22 08:59	5	3.0	11/04/22 12:59	JMW	EPA 6020A
Iron	18	ug/L		11/03/22 08:59	5	10	11/04/22 12:59	JMW	EPA 6020A
Lead	< 1.0	ug/L		11/03/22 08:59	5	1.0	11/04/22 12:59	JMW	EPA 6020A
Magnesium	48	mg/L		11/03/22 08:59	5	0.10	11/04/22 12:59	JMW	EPA 6020A
Manganese	20	ug/L		11/03/22 08:59	5	1.0	11/04/22 12:59	JMW	EPA 6020A
Mercury	0.38	ug/L		11/03/22 08:59	5	0.20	11/04/22 12:59	JMW	EPA 6020A
Nickel	< 5.0	ug/L		11/03/22 08:59	5	5.0	11/04/22 12:59	JMW	EPA 6020A
Potassium	13	mg/L		11/03/22 08:59	5	0.10	11/04/22 12:59	JMW	EPA 6020A
Selenium	43	ug/L		11/03/22 08:59	5	1.0	11/04/22 12:59	JMW	EPA 6020A
Silver	< 5.0	ug/L		11/03/22 08:59	5	5.0	11/05/22 10:36	JMW	EPA 6020A
Sodium	950	mg/L		11/03/22 08:59	100	2.0	11/04/22 14:54	JMW	EPA 6020A
Zinc	< 6.0	ug/L		11/03/22 08:59	5	6.0	11/04/22 12:59	JMW	EPA 6020A

Sample: FJ05072-10
Name: OM04S
Matrix: Ground Water - Grab

Sampled: 10/27/22 11:00
Received: 10/27/22 17:37
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	20.73	Feet		10/27/22 11:00	1		10/27/22 11:00	FIELD	Field*
Dissolved oxygen, Field	7.0	mg/L		10/27/22 11:00	1		10/27/22 11:00	FIELD	Field*
Oxidation Reduction Potential	-118	mV		10/27/22 11:00	1	-500	10/27/22 11:00	FIELD	Field*
pH, Field Measured	6.63	pH Units		10/27/22 11:00	1		10/27/22 11:00	FIELD	Field*
Specific Conductance, Field Measured	1213	umhos/cm		10/27/22 11:00	1		10/27/22 11:00	FIELD	Field*
Temperature, Field Measured	53.9	°F		10/27/22 11:00	1		10/27/22 11:00	FIELD	Field*
Temperature, Field Measured	12.2	°C		10/27/22 11:00	1		10/27/22 11:00	FIELD	Field*
Turbidity, Field Measured	140	NTU		10/27/22 11:00	1	0.00	10/27/22 11:00	FIELD	Field*

Soluble Anions - PIA

Chloride, Dissolved	13	mg/L		11/07/22 14:19	10	10	11/07/22 14:19	CRD	EPA 300.0 REV 2.1
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Soluble Metals - PIA

Boron, Dissolved	57	ug/L		11/04/22 14:52	5	10	11/07/22 15:12	KMC	EPA 6020A
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ANALYTICAL RESULTS

Sample: FJ05072-11

Name: OR04D

Matrix: Ground Water - Grab

Sampled: 10/27/22 11:32

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	21.46	Feet		10/27/22 11:32	1		10/27/22 11:32	FIELD	Field*
Dissolved oxygen, Field	16	mg/L		10/27/22 11:32	1		10/27/22 11:32	FIELD	Field*
Oxidation Reduction Potential	-97.4	mV		10/27/22 11:32	1	-500	10/27/22 11:32	FIELD	Field*
pH, Field Measured	6.53	pH Units		10/27/22 11:32	1		10/27/22 11:32	FIELD	Field*
Specific Conductance, Field Measured	6250	umhos/cm		10/27/22 11:32	1		10/27/22 11:32	FIELD	Field*
Temperature, Field Measured	12.4	°C		10/27/22 11:32	1		10/27/22 11:32	FIELD	Field*
Temperature, Field Measured	54.2	°F		10/27/22 11:32	1		10/27/22 11:32	FIELD	Field*
Turbidity, Field Measured	594	NTU		10/27/22 11:32	1	0.00	10/27/22 11:32	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	1100	mg/L		11/13/22 14:17	250	250	11/13/22 14:17	LAM	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	75000	ug/L		11/04/22 14:52	100	400	11/07/22 17:13	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-12

Name: OR06A

Matrix: Ground Water - Grab

Sampled: 10/27/22 12:15

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	14.99	Feet		10/27/22 12:15	1		10/27/22 12:15	FIELD	Field*
Dissolved oxygen, Field	9.0	mg/L		10/27/22 12:15	1		10/27/22 12:15	FIELD	Field*
Oxidation Reduction Potential	-1.10	mV		10/27/22 12:15	1	-500	10/27/22 12:15	FIELD	Field*
pH, Field Measured	6.72	pH Units		10/27/22 12:15	1		10/27/22 12:15	FIELD	Field*
Specific Conductance, Field Measured	2690	umhos/cm		10/27/22 12:15	1		10/27/22 12:15	FIELD	Field*
Temperature, Field Measured	14.5	°C		10/27/22 12:15	1		10/27/22 12:15	FIELD	Field*
Temperature, Field Measured	58.1	°F		10/27/22 12:15	1		10/27/22 12:15	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/27/22 12:15	1	0.00	10/27/22 12:15	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	260	mg/L		11/07/22 15:14	100	100	11/07/22 15:14	CRD	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	21000	ug/L		11/04/22 14:52	20	40	11/07/22 15:20	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-13

Name: OR11

Matrix: Ground Water - Grab

Sampled: 10/27/22 15:18

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	32.75	Feet		10/27/22 15:18	1		10/27/22 15:18	FIELD	Field*
Dissolved oxygen, Field	7.0	mg/L		10/27/22 15:18	1		10/27/22 15:18	FIELD	Field*
Oxidation Reduction Potential	-20.6	mV		10/27/22 15:18	1	-500	10/27/22 15:18	FIELD	Field*
pH, Field Measured	7.09	pH Units		10/27/22 15:18	1		10/27/22 15:18	FIELD	Field*
Specific Conductance, Field Measured	1234	umhos/cm		10/27/22 15:18	1		10/27/22 15:18	FIELD	Field*
Temperature, Field Measured	11.7	°C		10/27/22 15:18	1		10/27/22 15:18	FIELD	Field*
Temperature, Field Measured	53.1	°F		10/27/22 15:18	1		10/27/22 15:18	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/27/22 15:18	1	0.00	10/27/22 15:18	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	77	mg/L		11/07/22 15:32	10	10	11/07/22 15:32	CRD	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	9500	ug/L		11/04/22 14:52	5	10	11/07/22 15:23	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-14

Name: P36L

Matrix: Ground Water - Grab

Sampled: 10/27/22 15:31

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	13.44	Feet		10/27/22 15:31	1		10/27/22 15:31	FIELD	Field*
Dissolved oxygen, Field	7.7	mg/L		10/27/22 15:31	1		10/27/22 15:31	FIELD	Field*
Oxidation Reduction Potential	54.7	mV		10/27/22 15:31	1	-500	10/27/22 15:31	FIELD	Field*
pH, Field Measured	7.00	pH Units		10/27/22 15:31	1		10/27/22 15:31	FIELD	Field*
Specific Conductance, Field Measured	613.0	umhos/cm		10/27/22 15:31	1		10/27/22 15:31	FIELD	Field*
Temperature, Field Measured	14.1	°C		10/27/22 15:31	1		10/27/22 15:31	FIELD	Field*
Temperature, Field Measured	57.4	°F		10/27/22 15:31	1		10/27/22 15:31	FIELD	Field*
Turbidity, Field Measured	28.6	NTU		10/27/22 15:31	1	0.00	10/27/22 15:31	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	290	mg/L		10/29/22 08:58	1	10	10/29/22 08:58	HRF	SM 2320B 1997*
Soluble Metals - PIA									
Barium, Dissolved	52	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:18	KMC	EPA 6020A
Sodium, Dissolved	6.5	mg/L		11/04/22 14:52	5	0.10	11/04/22 17:18	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-15
Name: R10L
Matrix: Ground Water - Grab

Sampled: 10/27/22 11:02
Received: 10/27/22 17:37
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	24.32	Feet		10/27/22 11:02	1		10/27/22 11:02	FIELD	Field*
Dissolved oxygen, Field	3.0	mg/L		10/27/22 11:02	1		10/27/22 11:02	FIELD	Field*
Oxidation Reduction Potential	108	mV		10/27/22 11:02	1	-500	10/27/22 11:02	FIELD	Field*
pH, Field Measured	7.45	pH Units		10/27/22 11:02	1		10/27/22 11:02	FIELD	Field*
Specific Conductance, Field Measured	797.5	umhos/cm		10/27/22 11:02	1		10/27/22 11:02	FIELD	Field*
Temperature, Field Measured	12.5	°C		10/27/22 11:02	1		10/27/22 11:02	FIELD	Field*
Temperature, Field Measured	54.5	°F		10/27/22 11:02	1		10/27/22 11:02	FIELD	Field*
Turbidity, Field Measured	0.820	NTU		10/27/22 11:02	1	0.00	10/27/22 11:02	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	480	mg/L		10/29/22 08:58	1	10	10/29/22 08:58	HRF	SM 2320B 1997*
Cyanide	< 0.0050	mg/L	Q2, R	10/31/22 09:17	1	0.0050	11/01/22 14:29	CRS1	EPA 335.4 REV1
Soluble Anions - PIA									
Chloride, Dissolved	1.7	mg/L	Q3	10/28/22 18:41	1	1.0	10/28/22 18:41	CRD	EPA 300.0 REV 2.1
Fluoride, Dissolved	< 0.25	mg/L		10/28/22 18:41	1	0.25	10/28/22 18:41	CRD	EPA 300.0 REV 2.1
Nitrate, Dissolved	1.9	mg/L	Q4	10/28/22 20:11	25	0.75	10/28/22 20:11	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	33	mg/L	Q4	10/28/22 20:11	25	25	10/28/22 20:11	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	540	mg/L		11/03/22 10:00	1	26	11/03/22 11:05	HRF	SM 2540C
Soluble Metals - PIA									
Antimony, Dissolved	< 3.0	ug/L		11/04/22 14:52	5	3.0	11/04/22 17:22	KMC	EPA 6020A
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:22	KMC	EPA 6020A
Barium, Dissolved	61	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:22	KMC	EPA 6020A
Beryllium	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:22	KMC	EPA 6020A
Boron, Dissolved	170	ug/L		11/04/22 14:52	5	10	11/07/22 15:27	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:22	KMC	EPA 6020A
Calcium, Dissolved	120	mg/L		11/08/22 12:00	5	0.10	11/08/22 12:50	KMC	EPA 6020A
Chromium, Dissolved	12	ug/L		11/04/22 14:52	5	4.0	11/04/22 17:22	KMC	EPA 6020A
Cobalt, Dissolved	< 2.0	ug/L		11/04/22 14:52	5	2.0	11/04/22 17:22	KMC	EPA 6020A
Copper, Dissolved	< 3.0	ug/L		11/04/22 14:52	5	3.0	11/04/22 17:22	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:22	KMC	EPA 6020A
Magnesium, Dissolved	61	mg/L		11/04/22 14:52	5	0.10	11/04/22 17:22	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-15

Name: R10L

Matrix: Ground Water - Grab

Sampled: 10/27/22 11:02

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury, Dissolved	< 0.20	ug/L		11/04/22 14:52	5	0.20	11/04/22 17:22	KMC	EPA 6020A
Nickel, Dissolved	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 17:22	KMC	EPA 6020A
Potassium, Dissolved	0.14	mg/L		11/04/22 14:52	5	0.10	11/04/22 17:22	KMC	EPA 6020A
Selenium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:22	KMC	EPA 6020A
Silver	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 17:22	KMC	EPA 6020A
Sodium, Dissolved	6.5	mg/L		11/04/22 14:52	5	0.10	11/07/22 15:27	KMC	EPA 6020A
Vanadium	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 17:22	KMC	EPA 6020A
Zinc, Dissolved	< 6.0	ug/L		11/04/22 14:52	5	6.0	11/07/22 15:27	KMC	EPA 6020A

Soluble Nutrients - PIA

Ammonia, Dissolved	< 0.10	mg/L		11/04/22 11:38	1	0.10	11/04/22 11:38	TTH	EPA 350.1 REV2
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ANALYTICAL RESULTS

Sample: FJ05072-16
Name: R11L
Matrix: Ground Water - Grab

Sampled: 10/27/22 12:00
Received: 10/27/22 17:37
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	23.49	Feet		10/27/22 12:00	1		10/27/22 12:00	FIELD	Field*
Dissolved oxygen, Field	6.5	mg/L		10/27/22 12:00	1		10/27/22 12:00	FIELD	Field*
Oxidation Reduction Potential	105	mV		10/27/22 12:00	1	-500	10/27/22 12:00	FIELD	Field*
pH, Field Measured	7.54	pH Units		10/27/22 12:00	1		10/27/22 12:00	FIELD	Field*
Specific Conductance, Field Measured	644.6	umhos/cm		10/27/22 12:00	1		10/27/22 12:00	FIELD	Field*
Temperature, Field Measured	12.7	°C		10/27/22 12:00	1		10/27/22 12:00	FIELD	Field*
Temperature, Field Measured	54.9	°F		10/27/22 12:00	1		10/27/22 12:00	FIELD	Field*
Turbidity, Field Measured	0.850	NTU		10/27/22 12:00	1	0.00	10/27/22 12:00	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	350	mg/L		10/29/22 08:58	1	10	10/29/22 08:58	HRF	SM 2320B 1997*
Cyanide	< 0.0050	mg/L		10/31/22 09:17	1	0.0050	11/01/22 14:32	CRS1	EPA 335.4 REV1
Soluble Anions - PIA									
Chloride, Dissolved	3.7	mg/L		10/28/22 20:30	1	1.0	10/28/22 20:30	CRD	EPA 300.0 REV 2.1
Fluoride, Dissolved	0.29	mg/L		10/28/22 20:30	1	0.25	10/28/22 20:30	CRD	EPA 300.0 REV 2.1
Nitrate, Dissolved	2.7	mg/L		10/28/22 20:48	25	0.75	10/28/22 20:48	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	30	mg/L		10/28/22 20:48	25	25	10/28/22 20:48	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	460	mg/L		11/03/22 10:00	1	26	11/03/22 11:05	HRF	SM 2540C
Soluble Metals - PIA									
Antimony, Dissolved	< 3.0	ug/L		11/04/22 14:52	5	3.0	11/04/22 17:26	KMC	EPA 6020A
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:26	KMC	EPA 6020A
Barium, Dissolved	51	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:26	KMC	EPA 6020A
Beryllium	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:26	KMC	EPA 6020A
Boron, Dissolved	93	ug/L		11/04/22 14:52	5	10	11/07/22 15:31	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:26	KMC	EPA 6020A
Calcium, Dissolved	90	mg/L		11/08/22 12:00	5	0.10	11/08/22 12:54	KMC	EPA 6020A
Chromium, Dissolved	4.4	ug/L		11/04/22 14:52	5	4.0	11/04/22 17:26	KMC	EPA 6020A
Cobalt, Dissolved	< 2.0	ug/L		11/04/22 14:52	5	2.0	11/04/22 17:26	KMC	EPA 6020A
Copper, Dissolved	< 3.0	ug/L		11/04/22 14:52	5	3.0	11/04/22 17:26	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:26	KMC	EPA 6020A
Magnesium, Dissolved	48	mg/L		11/04/22 14:52	5	0.10	11/04/22 17:26	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-16

Name: R11L

Matrix: Ground Water - Grab

Sampled: 10/27/22 12:00

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury, Dissolved	< 0.20	ug/L		11/04/22 14:52	5	0.20	11/04/22 17:26	KMC	EPA 6020A
Nickel, Dissolved	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 17:26	KMC	EPA 6020A
Potassium, Dissolved	0.17	mg/L		11/04/22 14:52	5	0.10	11/04/22 17:26	KMC	EPA 6020A
Selenium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:26	KMC	EPA 6020A
Silver	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 17:26	KMC	EPA 6020A
Sodium, Dissolved	6.4	mg/L		11/04/22 14:52	5	0.10	11/07/22 15:31	KMC	EPA 6020A
Vanadium	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 17:26	KMC	EPA 6020A
Zinc, Dissolved	< 6.0	ug/L		11/04/22 14:52	5	6.0	11/07/22 15:31	KMC	EPA 6020A
<u>Soluble Nutrients - PIA</u>									
Ammonia, Dissolved	< 0.10	mg/L		11/03/22 13:18	1	0.10	11/03/22 13:18	TTH	EPA 350.1 REV2



ANALYTICAL RESULTS

Sample: FJ05072-17

Name: R13L

Matrix: Ground Water - Grab

Sampled: 10/27/22 13:46

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	24.77	Feet		10/27/22 13:46	1		10/27/22 13:46	FIELD	Field*
Dissolved oxygen, Field	3.5	mg/L		10/27/22 13:46	1		10/27/22 13:46	FIELD	Field*
Oxidation Reduction Potential	114	mV		10/27/22 13:46	1	-500	10/27/22 13:46	FIELD	Field*
pH, Field Measured	7.48	pH Units		10/27/22 13:46	1		10/27/22 13:46	FIELD	Field*
Specific Conductance, Field Measured	709.0	umhos/cm		10/27/22 13:46	1		10/27/22 13:46	FIELD	Field*
Temperature, Field Measured	14.3	°C		10/27/22 13:46	1		10/27/22 13:46	FIELD	Field*
Temperature, Field Measured	57.7	°F		10/27/22 13:46	1		10/27/22 13:46	FIELD	Field*
Turbidity, Field Measured	7.19	NTU		10/27/22 13:46	1	0.00	10/27/22 13:46	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	300	mg/L		10/29/22 08:58	1	10	10/29/22 08:58	HRF	SM 2320B 1997*
Cyanide	< 0.0050	mg/L		10/31/22 09:17	1	0.0050	11/01/22 14:35	CRS1	EPA 335.4 REV1
Soluble Anions - PIA									
Chloride, Dissolved	29	mg/L		10/28/22 21:24	25	25	10/28/22 21:24	CRD	EPA 300.0 REV 2.1
Fluoride, Dissolved	< 0.25	mg/L		10/28/22 21:06	1	0.25	10/28/22 21:06	CRD	EPA 300.0 REV 2.1
Nitrate, Dissolved	4.1	mg/L		10/28/22 21:24	25	0.75	10/28/22 21:24	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	76	mg/L		10/28/22 21:24	25	25	10/28/22 21:24	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	470	mg/L		10/31/22 15:46	1	26	10/31/22 16:38	HRF	SM 2540C
Soluble Metals - PIA									
Antimony, Dissolved	< 3.0	ug/L		11/04/22 14:52	5	3.0	11/04/22 17:29	KMC	EPA 6020A
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:29	KMC	EPA 6020A
Barium, Dissolved	70	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:29	KMC	EPA 6020A
Beryllium	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:29	KMC	EPA 6020A
Boron, Dissolved	70	ug/L		11/04/22 14:52	5	10	11/07/22 15:35	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:29	KMC	EPA 6020A
Calcium, Dissolved	90	mg/L		11/08/22 12:00	5	0.10	11/08/22 12:58	KMC	EPA 6020A
Chromium, Dissolved	< 4.0	ug/L		11/04/22 14:52	5	4.0	11/04/22 17:29	KMC	EPA 6020A
Cobalt, Dissolved	< 2.0	ug/L		11/04/22 14:52	5	2.0	11/04/22 17:29	KMC	EPA 6020A
Copper, Dissolved	< 3.0	ug/L		11/04/22 14:52	5	3.0	11/04/22 17:29	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:29	KMC	EPA 6020A
Magnesium, Dissolved	50	mg/L		11/04/22 14:52	5	0.10	11/04/22 17:29	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-17
Name: R13L
Matrix: Ground Water - Grab

Sampled: 10/27/22 13:46
Received: 10/27/22 17:37
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Mercury, Dissolved	< 0.20	ug/L		11/04/22 14:52	5	0.20	11/04/22 17:29	KMC	EPA 6020A
Nickel, Dissolved	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 17:29	KMC	EPA 6020A
Potassium, Dissolved	0.65	mg/L		11/04/22 14:52	5	0.10	11/04/22 17:29	KMC	EPA 6020A
Selenium, Dissolved	1.3	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:29	KMC	EPA 6020A
Silver	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 17:29	KMC	EPA 6020A
Sodium, Dissolved	23	mg/L		11/04/22 14:52	5	0.10	11/07/22 15:35	KMC	EPA 6020A
Vanadium	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 17:29	KMC	EPA 6020A
Zinc, Dissolved	< 6.0	ug/L		11/04/22 14:52	5	6.0	11/07/22 15:35	KMC	EPA 6020A

Soluble Nutrients - PIA

Ammonia, Dissolved	< 0.10	mg/L		11/03/22 13:19	1	0.10	11/03/22 13:19	TTH	EPA 350.1 REV2
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Sample: FJ05072-18
Name: T43L
Matrix: Ground Water - Grab

Sampled: 10/27/22 11:23
Received: 10/27/22 17:37
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
<u>Field - PIA</u>									
Depth, From Measuring Point	9.4	Feet		10/27/22 11:23	1		10/27/22 11:23	FIELD	Field*
Dissolved oxygen, Field	0.69	mg/L		10/27/22 11:23	1		10/27/22 11:23	FIELD	Field*
Oxidation Reduction Potential	192	mV		10/27/22 11:23	1	-500	10/27/22 11:23	FIELD	Field*
pH, Field Measured	6.72	pH Units		10/27/22 11:23	1		10/27/22 11:23	FIELD	Field*
Specific Conductance, Field Measured	761.0	umhos/cm		10/27/22 11:23	1		10/27/22 11:23	FIELD	Field*
Temperature, Field Measured	58.9	°F		10/27/22 11:23	1		10/27/22 11:23	FIELD	Field*
Temperature, Field Measured	15.0	°C		10/27/22 11:23	1		10/27/22 11:23	FIELD	Field*
Turbidity, Field Measured	7.40	NTU		10/27/22 11:23	1	0.00	10/27/22 11:23	FIELD	Field*

General Chemistry - PIA

Alkalinity - bicarbonate as CaCO3	360	mg/L		10/29/22 08:58	1	10	10/29/22 08:58	HRF	SM 2320B 1997*
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Soluble Metals - PIA

Barium, Dissolved	57	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:33	KMC	EPA 6020A
Sodium, Dissolved	7.9	mg/L		11/04/22 14:52	5	0.10	11/04/22 17:33	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-19

Name: T44L

Matrix: Ground Water - Grab

Sampled: 10/27/22 12:08

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	13.49	Feet		10/27/22 12:08	1		10/27/22 12:08	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		10/27/22 12:08	1		10/27/22 12:08	FIELD	Field*
Oxidation Reduction Potential	181	mV		10/27/22 12:08	1	-500	10/27/22 12:08	FIELD	Field*
pH, Field Measured	6.81	pH Units		10/27/22 12:08	1		10/27/22 12:08	FIELD	Field*
Specific Conductance, Field Measured	703.0	umhos/cm		10/27/22 12:08	1		10/27/22 12:08	FIELD	Field*
Temperature, Field Measured	57.9	°F		10/27/22 12:08	1		10/27/22 12:08	FIELD	Field*
Temperature, Field Measured	14.4	°C		10/27/22 12:08	1		10/27/22 12:08	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		10/27/22 12:08	1	0.00	10/27/22 12:08	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	300	mg/L		10/29/22 08:58	1	10	10/29/22 08:58	HRF	SM 2320B 1997*
Soluble Metals - PIA									
Barium, Dissolved	67	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:48	KMC	EPA 6020A
Sodium, Dissolved	7.6	mg/L		11/04/22 14:52	5	0.10	11/04/22 17:48	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-20

Name: T45L

Matrix: Ground Water - Grab

Sampled: 10/27/22 13:59

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	11.39	Feet		10/27/22 13:59	1		10/27/22 13:59	FIELD	Field*
Dissolved oxygen, Field	2.5	mg/L		10/27/22 13:59	1		10/27/22 13:59	FIELD	Field*
Oxidation Reduction Potential	155	mV		10/27/22 13:59	1	-500	10/27/22 13:59	FIELD	Field*
pH, Field Measured	6.76	pH Units		10/27/22 13:59	1		10/27/22 13:59	FIELD	Field*
Specific Conductance, Field Measured	585.0	umhos/cm		10/27/22 13:59	1		10/27/22 13:59	FIELD	Field*
Temperature, Field Measured	59.2	°F		10/27/22 13:59	1		10/27/22 13:59	FIELD	Field*
Temperature, Field Measured	15.1	°C		10/27/22 13:59	1		10/27/22 13:59	FIELD	Field*
Turbidity, Field Measured	33.4	NTU		10/27/22 13:59	1	0.00	10/27/22 13:59	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	240	mg/L		10/29/22 08:58	1	10	10/29/22 08:58	HRF	SM 2320B 1997*
Soluble Metals - PIA									
Barium, Dissolved	46	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:52	KMC	EPA 6020A
Sodium, Dissolved	7.3	mg/L		11/04/22 14:52	5	0.10	11/04/22 17:52	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05072-21

Name: T46L

Matrix: Ground Water - Grab

Sampled: 10/27/22 15:00

Received: 10/27/22 17:37

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	9	Feet		10/27/22 15:00	1		10/27/22 15:00	FIELD	Field*
Dissolved oxygen, Field	1.5	mg/L		10/27/22 15:00	1		10/27/22 15:00	FIELD	Field*
Oxidation Reduction Potential	-109	mV		10/27/22 15:00	1	-500	10/27/22 15:00	FIELD	Field*
pH, Field Measured	6.84	pH Units		10/27/22 15:00	1		10/27/22 15:00	FIELD	Field*
Specific Conductance, Field Measured	652.0	umhos/cm		10/27/22 15:00	1		10/27/22 15:00	FIELD	Field*
Temperature, Field Measured	59.0	°F		10/27/22 15:00	1		10/27/22 15:00	FIELD	Field*
Temperature, Field Measured	15.0	°C		10/27/22 15:00	1		10/27/22 15:00	FIELD	Field*
Turbidity, Field Measured	3.10	NTU		10/27/22 15:00	1	0.00	10/27/22 15:00	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	290	mg/L		10/29/22 08:58	1	10	10/29/22 08:58	HRF	SM 2320B 1997*
Soluble Metals - PIA									
Barium, Dissolved	62	ug/L		11/04/22 14:52	5	1.0	11/04/22 17:56	KMC	EPA 6020A
Sodium, Dissolved	6.1	mg/L		11/04/22 14:52	5	0.10	11/04/22 17:56	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-01
Name: G53L
Matrix: Ground Water - Grab

Sampled: 10/28/22 10:56
Received: 10/28/22 17:15
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	18.77	Feet		10/28/22 10:56	1		10/28/22 10:56	FIELD	Field*
Dissolved oxygen, Field	3.0	mg/L		10/28/22 10:56	1		10/28/22 10:56	FIELD	Field*
Oxidation Reduction Potential	-6.00	mV		10/28/22 10:56	1	-500	10/28/22 10:56	FIELD	Field*
pH, Field Measured	6.62	pH Units		10/28/22 10:56	1		10/28/22 10:56	FIELD	Field*
Specific Conductance, Field Measured	1300	umhos/cm		10/28/22 10:56	1		10/28/22 10:56	FIELD	Field*
Temperature, Field Measured	55.9	°F		10/28/22 10:56	1		10/28/22 10:56	FIELD	Field*
Temperature, Field Measured	13.3	°C		10/28/22 10:56	1		10/28/22 10:56	FIELD	Field*
Turbidity, Field Measured	19.1	NTU		10/28/22 10:56	1	0.00	10/28/22 10:56	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	91	mg/L		11/10/22 08:37	50	50	11/10/22 08:37	LAM	EPA 300.0 REV 2.1
Sulfate, Dissolved	270	mg/L		11/10/22 08:37	50	50	11/10/22 08:37	LAM	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	980	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:02	JMW	EPA 6020A
Boron, Dissolved	270	ug/L		11/07/22 05:39	5	10	11/08/22 17:02	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:02	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:02	JMW	EPA 6020A
Manganese, Dissolved	150	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:02	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-02
Name: G57L
Matrix: Ground Water - Grab

Sampled: 10/28/22 12:44
Received: 10/28/22 17:15
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	27.46	Feet		10/28/22 12:44	1		10/28/22 12:44	FIELD	Field*
Dissolved oxygen, Field	10	mg/L		10/28/22 12:44	1		10/28/22 12:44	FIELD	Field*
Oxidation Reduction Potential	-32.0	mV		10/28/22 12:44	1	-500	10/28/22 12:44	FIELD	Field*
pH, Field Measured	7.28	pH Units		10/28/22 12:44	1		10/28/22 12:44	FIELD	Field*
Specific Conductance, Field Measured	927.0	umhos/cm		10/28/22 12:44	1		10/28/22 12:44	FIELD	Field*
Temperature, Field Measured	56.7	°F		10/28/22 12:44	1		10/28/22 12:44	FIELD	Field*
Temperature, Field Measured	13.7	°C		10/28/22 12:44	1		10/28/22 12:44	FIELD	Field*
Turbidity, Field Measured	115	NTU		10/28/22 12:44	1	0.00	10/28/22 12:44	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	15	mg/L	Q4	11/10/22 09:13	10	10	11/10/22 09:13	LAM	EPA 300.0 REV 2.1
Sulfate, Dissolved	71	mg/L	Q4	11/10/22 09:13	10	10	11/10/22 09:13	LAM	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	580	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	2.2	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:06	JMW	EPA 6020A
Boron, Dissolved	26	ug/L		11/07/22 05:39	5	10	11/08/22 17:06	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:06	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:06	JMW	EPA 6020A
Manganese, Dissolved	94	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:06	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-03
Name: G58L
Matrix: Ground Water - Grab

Sampled: 10/28/22 11:40
Received: 10/28/22 17:15
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	31.61	Feet		10/28/22 11:40	1		10/28/22 11:40	FIELD	Field*
Dissolved oxygen, Field	9.9	mg/L		10/28/22 11:40	1		10/28/22 11:40	FIELD	Field*
Oxidation Reduction Potential	132	mV		10/28/22 11:40	1	-500	10/28/22 11:40	FIELD	Field*
pH, Field Measured	7.06	pH Units		10/28/22 11:40	1		10/28/22 11:40	FIELD	Field*
Specific Conductance, Field Measured	1040	umhos/cm		10/28/22 11:40	1		10/28/22 11:40	FIELD	Field*
Temperature, Field Measured	57.0	°F		10/28/22 11:40	1		10/28/22 11:40	FIELD	Field*
Temperature, Field Measured	13.9	°C		10/28/22 11:40	1		10/28/22 11:40	FIELD	Field*
Turbidity, Field Measured	336	NTU		10/28/22 11:40	1	0.00	10/28/22 11:40	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	19	mg/L		11/10/22 09:31	5	5.0	11/10/22 09:31	LAM	EPA 300.0 REV 2.1
Sulfate, Dissolved	76	mg/L		11/10/22 09:49	25	25	11/10/22 09:49	LAM	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	640	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:55	JMW	EPA 6020A
Boron, Dissolved	14	ug/L		11/07/22 05:39	5	10	11/08/22 17:55	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:55	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:55	JMW	EPA 6020A
Manganese, Dissolved	3.7	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:55	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-04
Name: G58S
Matrix: Ground Water - Grab

Sampled: 10/28/22 12:14
Received: 10/28/22 17:15
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	31.65	Feet		10/28/22 12:14	1		10/28/22 12:14	FIELD	Field*
Dissolved oxygen, Field	12	mg/L		10/28/22 12:14	1		10/28/22 12:14	FIELD	Field*
Oxidation Reduction Potential	135	mV		10/28/22 12:14	1	-500	10/28/22 12:14	FIELD	Field*
pH, Field Measured	6.77	pH Units		10/28/22 12:14	1		10/28/22 12:14	FIELD	Field*
Specific Conductance, Field Measured	982.0	umhos/cm		10/28/22 12:14	1		10/28/22 12:14	FIELD	Field*
Temperature, Field Measured	13.9	°C		10/28/22 12:14	1		10/28/22 12:14	FIELD	Field*
Temperature, Field Measured	57.0	°F		10/28/22 12:14	1		10/28/22 12:14	FIELD	Field*
Turbidity, Field Measured	0.700	NTU		10/28/22 12:14	1	0.00	10/28/22 12:14	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	21	mg/L		11/10/22 10:07	10	10	11/10/22 10:07	LAM	EPA 300.0 REV 2.1
Sulfate, Dissolved	91	mg/L		11/10/22 10:07	10	10	11/10/22 10:07	LAM	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	580	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:59	JMW	EPA 6020A
Boron, Dissolved	11	ug/L		11/07/22 05:39	5	10	11/08/22 17:59	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:59	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:59	JMW	EPA 6020A
Manganese, Dissolved	800	ug/L		11/07/22 05:39	5	1.0	11/08/22 17:59	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-05
Name: G60L
Matrix: Ground Water - Grab

Sampled: 10/28/22 10:41
Received: 10/28/22 17:15
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	22.92	Feet		10/28/22 10:41	1		10/28/22 10:41	FIELD	Field*
Dissolved oxygen, Field	0.11	mg/L		10/28/22 10:41	1		10/28/22 10:41	FIELD	Field*
Oxidation Reduction Potential	170	mV		10/28/22 10:41	1	-500	10/28/22 10:41	FIELD	Field*
pH, Field Measured	6.42	pH Units		10/28/22 10:41	1		10/28/22 10:41	FIELD	Field*
Specific Conductance, Field Measured	965.7	umhos/cm		10/28/22 10:41	1		10/28/22 10:41	FIELD	Field*
Temperature, Field Measured	14.1	°C		10/28/22 10:41	1		10/28/22 10:41	FIELD	Field*
Temperature, Field Measured	57.4	°F		10/28/22 10:41	1		10/28/22 10:41	FIELD	Field*
Turbidity, Field Measured	1.09	NTU		10/28/22 10:41	1	0.00	10/28/22 10:41	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	14	mg/L		11/10/22 10:25	5	5.0	11/10/22 10:25	LAM	EPA 300.0 REV 2.1
Sulfate, Dissolved	160	mg/L		11/10/22 10:43	25	25	11/10/22 10:43	LAM	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	580	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:02	JMW	EPA 6020A
Boron, Dissolved	31	ug/L		11/07/22 05:39	5	10	11/08/22 18:02	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:02	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:02	JMW	EPA 6020A
Manganese, Dissolved	1800	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:02	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-06
Name: G61S
Matrix: Ground Water - Grab

Sampled: 10/28/22 12:00
Received: 10/28/22 17:15
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	27.27	Feet		10/28/22 12:00	1		10/28/22 12:00	FIELD	Field*
Dissolved oxygen, Field	0.64	mg/L		10/28/22 12:00	1		10/28/22 12:00	FIELD	Field*
Oxidation Reduction Potential	164	mV		10/28/22 12:00	1	-500	10/28/22 12:00	FIELD	Field*
pH, Field Measured	7.05	pH Units		10/28/22 12:00	1		10/28/22 12:00	FIELD	Field*
Specific Conductance, Field Measured	1257	umhos/cm		10/28/22 12:00	1		10/28/22 12:00	FIELD	Field*
Temperature, Field Measured	57.2	°F		10/28/22 12:00	1		10/28/22 12:00	FIELD	Field*
Temperature, Field Measured	14.0	°C		10/28/22 12:00	1		10/28/22 12:00	FIELD	Field*
Turbidity, Field Measured	1.31	NTU		10/28/22 12:00	1	0.00	10/28/22 12:00	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	25	mg/L		11/10/22 11:01	5	5.0	11/10/22 11:01	LAM	EPA 300.0 REV 2.1
Sulfate, Dissolved	200	mg/L		11/10/22 11:56	50	50	11/10/22 11:56	LAM	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	780	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:06	JMW	EPA 6020A
Boron, Dissolved	< 10	ug/L		11/07/22 05:39	5	10	11/08/22 18:06	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:06	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:06	JMW	EPA 6020A
Manganese, Dissolved	92	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:06	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-07
Name: G63L
Matrix: Ground Water - Grab

Sampled: 10/28/22 12:21
Received: 10/28/22 17:15
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	26.96	Feet		10/28/22 12:21	1		10/28/22 12:21	FIELD	Field*
Dissolved oxygen, Field	1.1	mg/L		10/28/22 12:21	1		10/28/22 12:21	FIELD	Field*
Oxidation Reduction Potential	40.7	mV		10/28/22 12:21	1	-500	10/28/22 12:21	FIELD	Field*
pH, Field Measured	7.32	pH Units		10/28/22 12:21	1		10/28/22 12:21	FIELD	Field*
Specific Conductance, Field Measured	1252	umhos/cm		10/28/22 12:21	1		10/28/22 12:21	FIELD	Field*
Temperature, Field Measured	58.4	°F		10/28/22 12:21	1		10/28/22 12:21	FIELD	Field*
Temperature, Field Measured	14.7	°C		10/28/22 12:21	1		10/28/22 12:21	FIELD	Field*
Turbidity, Field Measured	1.73	NTU		10/28/22 12:21	1	0.00	10/28/22 12:21	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	8.2	mg/L		11/11/22 14:20	5	5.0	11/11/22 14:20	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	92	mg/L		11/11/22 14:38	50	50	11/11/22 14:38	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	760	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	1.3	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:10	JMW	EPA 6020A
Boron, Dissolved	13	ug/L		11/07/22 05:39	5	10	11/08/22 18:10	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:10	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:10	JMW	EPA 6020A
Manganese, Dissolved	45	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:10	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-08

Name: G63S

Matrix: Ground Water - Grab

Sampled: 10/28/22 12:53

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	27.94	Feet		10/28/22 12:53	1		10/28/22 12:53	FIELD	Field*
Dissolved oxygen, Field	0.49	mg/L		10/28/22 12:53	1		10/28/22 12:53	FIELD	Field*
Oxidation Reduction Potential	48.6	mV		10/28/22 12:53	1	-500	10/28/22 12:53	FIELD	Field*
pH, Field Measured	7.48	pH Units		10/28/22 12:53	1		10/28/22 12:53	FIELD	Field*
Specific Conductance, Field Measured	920.5	umhos/cm		10/28/22 12:53	1		10/28/22 12:53	FIELD	Field*
Temperature, Field Measured	57.8	°F		10/28/22 12:53	1		10/28/22 12:53	FIELD	Field*
Temperature, Field Measured	14.4	°C		10/28/22 12:53	1		10/28/22 12:53	FIELD	Field*
Turbidity, Field Measured	1.30	NTU		10/28/22 12:53	1	0.00	10/28/22 12:53	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	4.0	mg/L		11/10/22 12:50	1	1.0	11/10/22 12:50	LAM	EPA 300.0 REV 2.1
Sulfate, Dissolved	68	mg/L		11/10/22 13:08	10	10	11/10/22 13:08	LAM	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	540	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:13	JMW	EPA 6020A
Boron, Dissolved	21	ug/L		11/07/22 05:39	5	10	11/08/22 18:13	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:13	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:13	JMW	EPA 6020A
Manganese, Dissolved	51	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:13	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-09
Name: G64L
Matrix: Ground Water - Grab

Sampled: 10/28/22 13:26
Received: 10/28/22 17:15
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	25.87	Feet		10/28/22 13:26	1		10/28/22 13:26	FIELD	Field*
Dissolved oxygen, Field	2.1	mg/L		10/28/22 13:26	1		10/28/22 13:26	FIELD	Field*
Oxidation Reduction Potential	109	mV		10/28/22 13:26	1	-500	10/28/22 13:26	FIELD	Field*
pH, Field Measured	7.61	pH Units		10/28/22 13:26	1		10/28/22 13:26	FIELD	Field*
Specific Conductance, Field Measured	910.5	umhos/cm		10/28/22 13:26	1		10/28/22 13:26	FIELD	Field*
Temperature, Field Measured	56.9	°F		10/28/22 13:26	1		10/28/22 13:26	FIELD	Field*
Temperature, Field Measured	13.8	°C		10/28/22 13:26	1		10/28/22 13:26	FIELD	Field*
Turbidity, Field Measured	1.79	NTU		10/28/22 13:26	1	0.00	10/28/22 13:26	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	2.2	mg/L		11/10/22 13:26	1	1.0	11/10/22 13:26	LAM	EPA 300.0 REV 2.1
Sulfate, Dissolved	39	mg/L		11/10/22 13:44	5	5.0	11/10/22 13:44	LAM	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	550	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:28	JMW	EPA 6020A
Boron, Dissolved	< 10	ug/L		11/07/22 05:39	5	10	11/09/22 07:42	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:28	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:28	JMW	EPA 6020A
Manganese, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:28	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-10

Name: G64S

Matrix: Ground Water - Grab

Sampled: 10/28/22 13:55

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	27.19	Feet		10/28/22 13:55	1		10/28/22 13:55	FIELD	Field*
Dissolved oxygen, Field	0.42	mg/L		10/28/22 13:55	1		10/28/22 13:55	FIELD	Field*
Oxidation Reduction Potential	-20.8	mV		10/28/22 13:55	1	-500	10/28/22 13:55	FIELD	Field*
pH, Field Measured	7.51	pH Units		10/28/22 13:55	1		10/28/22 13:55	FIELD	Field*
Specific Conductance, Field Measured	783.6	umhos/cm		10/28/22 13:55	1		10/28/22 13:55	FIELD	Field*
Temperature, Field Measured	14.6	°C		10/28/22 13:55	1		10/28/22 13:55	FIELD	Field*
Temperature, Field Measured	58.2	°F		10/28/22 13:55	1		10/28/22 13:55	FIELD	Field*
Turbidity, Field Measured	1.22	NTU		10/28/22 13:55	1	0.00	10/28/22 13:55	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	3.3	mg/L		11/10/22 14:20	1	1.0	11/10/22 14:20	LAM	EPA 300.0 REV 2.1
Sulfate, Dissolved	25	mg/L		11/10/22 14:38	5	5.0	11/10/22 14:38	LAM	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	400	mg/L	M	11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:32	JMW	EPA 6020A
Boron, Dissolved	13	ug/L		11/07/22 05:39	5	10	11/09/22 07:45	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:32	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:32	JMW	EPA 6020A
Manganese, Dissolved	110	ug/L		11/07/22 05:39	5	1.0	11/08/22 18:32	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-11

Name: OM01

Matrix: Ground Water - Grab

Sampled: 10/28/22 11:44

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	13.91	Feet		10/28/22 11:44	1		10/28/22 11:44	FIELD	Field*
Dissolved oxygen, Field	3.2	mg/L		10/28/22 11:44	1		10/28/22 11:44	FIELD	Field*
Oxidation Reduction Potential	0.500	mV		10/28/22 11:44	1	-500	10/28/22 11:44	FIELD	Field*
pH, Field Measured	6.42	pH Units		10/28/22 11:44	1		10/28/22 11:44	FIELD	Field*
Specific Conductance, Field Measured	3399	umhos/cm		10/28/22 11:44	1		10/28/22 11:44	FIELD	Field*
Temperature, Field Measured	59.2	°F		10/28/22 11:44	1		10/28/22 11:44	FIELD	Field*
Temperature, Field Measured	15.1	°C		10/28/22 11:44	1		10/28/22 11:44	FIELD	Field*
Turbidity, Field Measured	152	NTU		10/28/22 11:44	1	0.00	10/28/22 11:44	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	31	mg/L		11/10/22 15:32	5	5.0	11/10/22 15:32	LAM	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	230	ug/L		11/07/22 05:39	5	10	11/09/22 07:49	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-12

Name: OM07

Matrix: Ground Water - Grab

Sampled: 10/28/22 13:40

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	12.83	Feet		10/28/22 13:40	1		10/28/22 13:40	FIELD	Field*
Dissolved oxygen, Field	5.2	mg/L		10/28/22 13:40	1		10/28/22 13:40	FIELD	Field*
Oxidation Reduction Potential	-49.2	mV		10/28/22 13:40	1	-500	10/28/22 13:40	FIELD	Field*
pH, Field Measured	6.78	pH Units		10/28/22 13:40	1		10/28/22 13:40	FIELD	Field*
Specific Conductance, Field Measured	1255	umhos/cm		10/28/22 13:40	1		10/28/22 13:40	FIELD	Field*
Temperature, Field Measured	60.6	°F		10/28/22 13:40	1		10/28/22 13:40	FIELD	Field*
Temperature, Field Measured	15.9	°C		10/28/22 13:40	1		10/28/22 13:40	FIELD	Field*
Turbidity, Field Measured	193	NTU		10/28/22 13:40	1	0.00	10/28/22 13:40	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	10	mg/L		11/10/22 15:51	5	5.0	11/10/22 15:51	LAM	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	470	ug/L		11/07/22 05:39	5	10	11/09/22 07:53	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-13

Name: OM12

Matrix: Ground Water - Grab

Sampled: 10/28/22 13:17

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	16.45	Feet		10/28/22 13:17	1		10/28/22 13:17	FIELD	Field*
Dissolved oxygen, Field	0.93	mg/L		10/28/22 13:17	1		10/28/22 13:17	FIELD	Field*
Oxidation Reduction Potential	-67.6	mV		10/28/22 13:17	1	-500	10/28/22 13:17	FIELD	Field*
pH, Field Measured	6.70	pH Units		10/28/22 13:17	1		10/28/22 13:17	FIELD	Field*
Specific Conductance, Field Measured	2014	umhos/cm		10/28/22 13:17	1		10/28/22 13:17	FIELD	Field*
Temperature, Field Measured	59.7	°F		10/28/22 13:17	1		10/28/22 13:17	FIELD	Field*
Temperature, Field Measured	15.4	°C		10/28/22 13:17	1		10/28/22 13:17	FIELD	Field*
Turbidity, Field Measured	165	NTU		10/28/22 13:17	1	0.00	10/28/22 13:17	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	< 5.0	mg/L		11/13/22 20:01	5	5.0	11/13/22 20:01	LAM	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	72	ug/L		11/07/22 05:39	5	10	11/09/22 07:56	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-14

Name: OM22D

Matrix: Ground Water - Grab

Sampled: 10/28/22 10:29

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	20.74	Feet		10/28/22 10:29	1		10/28/22 10:29	FIELD	Field*
Dissolved oxygen, Field	0.60	mg/L		10/28/22 10:29	1		10/28/22 10:29	FIELD	Field*
Oxidation Reduction Potential	48.9	mV		10/28/22 10:29	1	-500	10/28/22 10:29	FIELD	Field*
pH, Field Measured	7.06	pH Units		10/28/22 10:29	1		10/28/22 10:29	FIELD	Field*
Specific Conductance, Field Measured	3658	umhos/cm		10/28/22 10:29	1		10/28/22 10:29	FIELD	Field*
Temperature, Field Measured	54.5	°F		10/28/22 10:29	1		10/28/22 10:29	FIELD	Field*
Temperature, Field Measured	12.5	°C		10/28/22 10:29	1		10/28/22 10:29	FIELD	Field*
Turbidity, Field Measured	1810	NTU		10/28/22 10:29	1	0.00	10/28/22 10:29	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	650	mg/L		11/10/22 16:56	250	250	11/10/22 16:56	LAM	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	39000	ug/L		11/07/22 05:39	100	200	11/10/22 10:49	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-15

Name: OM23D

Matrix: Ground Water - Grab

Sampled: 10/28/22 11:52

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	39.18	Feet		10/28/22 11:52	1		10/28/22 11:52	FIELD	Field*
Dissolved oxygen, Field	3.7	mg/L		10/28/22 11:52	1		10/28/22 11:52	FIELD	Field*
Oxidation Reduction Potential	55.1	mV		10/28/22 11:52	1	-500	10/28/22 11:52	FIELD	Field*
pH, Field Measured	6.95	pH Units		10/28/22 11:52	1		10/28/22 11:52	FIELD	Field*
Specific Conductance, Field Measured	1737	umhos/cm		10/28/22 11:52	1		10/28/22 11:52	FIELD	Field*
Temperature, Field Measured	54.3	°F		10/28/22 11:52	1		10/28/22 11:52	FIELD	Field*
Temperature, Field Measured	12.4	°C		10/28/22 11:52	1		10/28/22 11:52	FIELD	Field*
Turbidity, Field Measured	37.4	NTU		10/28/22 11:52	1	0.00	10/28/22 11:52	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	27	mg/L		11/10/22 17:14	5	5.0	11/10/22 17:14	LAM	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	2000	ug/L		11/07/22 05:39	5	10	11/09/22 08:00	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-16

Name: OM24D

Matrix: Ground Water - Grab

Sampled: 10/28/22 12:30

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	5.15	Feet		10/28/22 12:30	1		10/28/22 12:30	FIELD	Field*
Dissolved oxygen, Field	1.9	mg/L		10/28/22 12:30	1		10/28/22 12:30	FIELD	Field*
Oxidation Reduction Potential	-11.5	mV		10/28/22 12:30	1	-500	10/28/22 12:30	FIELD	Field*
pH, Field Measured	7.32	pH Units		10/28/22 12:30	1		10/28/22 12:30	FIELD	Field*
Specific Conductance, Field Measured	3092	umhos/cm		10/28/22 12:30	1		10/28/22 12:30	FIELD	Field*
Temperature, Field Measured	61.3	°F		10/28/22 12:30	1		10/28/22 12:30	FIELD	Field*
Temperature, Field Measured	16.3	°C		10/28/22 12:30	1		10/28/22 12:30	FIELD	Field*
Turbidity, Field Measured	211	NTU		10/28/22 12:30	1	0.00	10/28/22 12:30	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	470	mg/L		11/10/22 17:32	50	50	11/10/22 17:32	LAM	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	21000	ug/L		11/07/22 05:39	100	200	11/10/22 10:52	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-17

Name: OM25S

Matrix: Ground Water - Grab

Sampled: 10/28/22 12:41

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	58.24	Feet		10/28/22 12:44	1		10/28/22 12:44	FIELD	Field*
Dissolved oxygen, Field	4.2	mg/L		10/28/22 12:44	1		10/28/22 12:44	FIELD	Field*
Oxidation Reduction Potential	34.8	mV		10/28/22 12:44	1	-500	10/28/22 12:44	FIELD	Field*
pH, Field Measured	6.71	pH Units		10/28/22 12:44	1		10/28/22 12:44	FIELD	Field*
Specific Conductance, Field Measured	2908	umhos/cm		10/28/22 12:44	1		10/28/22 12:44	FIELD	Field*
Temperature, Field Measured	58.8	°F		10/28/22 12:44	1		10/28/22 12:44	FIELD	Field*
Temperature, Field Measured	14.9	°C		10/28/22 12:44	1		10/28/22 12:44	FIELD	Field*
Turbidity, Field Measured	489	NTU		10/28/22 12:44	1	0.00	10/28/22 12:44	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	420	mg/L		11/10/22 17:50	100	100	11/10/22 17:50	LAM	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	24000	ug/L		11/07/22 05:39	100	200	11/10/22 10:56	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-18
Name: OR02
Matrix: Ground Water - Grab

Sampled: 10/28/22 12:20
Received: 10/28/22 17:15
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	7.19	Feet		10/28/22 12:20	1		10/28/22 12:20	FIELD	Field*
Dissolved oxygen, Field	4.1	mg/L		10/28/22 12:20	1		10/28/22 12:20	FIELD	Field*
Oxidation Reduction Potential	2.80	mV		10/28/22 12:20	1	-500	10/28/22 12:20	FIELD	Field*
pH, Field Measured	6.73	pH Units		10/28/22 12:20	1		10/28/22 12:20	FIELD	Field*
Specific Conductance, Field Measured	1915	umhos/cm		10/28/22 12:20	1		10/28/22 12:20	FIELD	Field*
Temperature, Field Measured	58.2	°F		10/28/22 12:20	1		10/28/22 12:20	FIELD	Field*
Temperature, Field Measured	14.6	°C		10/28/22 12:20	1		10/28/22 12:20	FIELD	Field*
Turbidity, Field Measured	469	NTU		10/28/22 12:20	1	0.00	10/28/22 12:20	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	220	mg/L		11/10/22 18:08	50	50	11/10/22 18:08	LAM	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	4700	ug/L		11/07/22 05:39	20	40	11/10/22 11:00	JMW	EPA 6020A

Sample: FJ05206-19
Name: OR03D
Matrix: Ground Water - Grab

Sampled: 10/28/22 15:29
Received: 10/28/22 17:15
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	45	Feet		10/28/22 15:20	1		10/28/22 15:20	FIELD	Field*
Dissolved oxygen, Field	1.3	mg/L		10/28/22 15:20	1		10/28/22 15:20	FIELD	Field*
Oxidation Reduction Potential	-20.5	mV		10/28/22 15:20	1	-500	10/28/22 15:20	FIELD	Field*
pH, Field Measured	6.71	pH Units		10/28/22 15:20	1		10/28/22 15:20	FIELD	Field*
Specific Conductance, Field Measured	4754	umhos/cm		10/28/22 15:20	1		10/28/22 15:20	FIELD	Field*
Temperature, Field Measured	59.9	°F		10/28/22 15:20	1		10/28/22 15:20	FIELD	Field*
Temperature, Field Measured	15.5	°C		10/28/22 15:20	1		10/28/22 15:20	FIELD	Field*
Turbidity, Field Measured	3600	NTU		10/28/22 15:20	1	0.00	10/28/22 15:20	FIELD	Field*
Soluble Metals - PIA									
Boron, Dissolved	57000	ug/L		11/07/22 05:39	1000	2000	11/10/22 11:03	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-20

Name: OR14D

Matrix: Ground Water - Grab

Sampled: 10/28/22 14:22

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	11.03	Feet		10/28/22 14:22	1		10/28/22 14:22	FIELD	Field*
Dissolved oxygen, Field	4.8	mg/L		10/28/22 14:22	1		10/28/22 14:22	FIELD	Field*
Oxidation Reduction Potential	-25.9	mV		10/28/22 14:22	1	-500	10/28/22 14:22	FIELD	Field*
pH, Field Measured	6.64	pH Units		10/28/22 14:22	1		10/28/22 14:22	FIELD	Field*
Specific Conductance, Field Measured	2875	umhos/cm		10/28/22 14:22	1		10/28/22 14:22	FIELD	Field*
Temperature, Field Measured	57.7	°F		10/28/22 14:22	1		10/28/22 14:22	FIELD	Field*
Temperature, Field Measured	14.3	°C		10/28/22 14:22	1		10/28/22 14:22	FIELD	Field*
Turbidity, Field Measured	78.1	NTU		10/28/22 14:22	1	0.00	10/28/22 14:22	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	370	mg/L		11/10/22 19:03	100	100	11/10/22 19:03	LAM	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	23000	ug/L		11/07/22 05:39	100	200	11/10/22 11:25	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-21

Name: OR19

Matrix: Ground Water - Grab

Sampled: 10/28/22 15:48

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	25.71	Feet		10/28/22 15:48	1		10/28/22 15:48	FIELD	Field*
Dissolved oxygen, Field	0.70	mg/L		10/28/22 15:48	1		10/28/22 15:48	FIELD	Field*
Oxidation Reduction Potential	-47.5	mV		10/28/22 15:48	1	-500	10/28/22 15:48	FIELD	Field*
pH, Field Measured	6.83	pH Units		10/28/22 15:48	1		10/28/22 15:48	FIELD	Field*
Specific Conductance, Field Measured	2610	umhos/cm		10/28/22 15:48	1		10/28/22 15:48	FIELD	Field*
Temperature, Field Measured	61.9	°F		10/28/22 15:48	1		10/28/22 15:48	FIELD	Field*
Temperature, Field Measured	16.6	°C		10/28/22 15:48	1		10/28/22 15:48	FIELD	Field*
Turbidity, Field Measured	2310	NTU		10/28/22 15:48	1	0.00	10/28/22 15:48	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	140	mg/L		11/10/22 19:21	25	25	11/10/22 19:21	LAM	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	14000	ug/L		11/07/22 05:39	100	200	11/10/22 11:29	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-22

Name: OR20

Matrix: Ground Water - Grab

Sampled: 10/28/22 10:29

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	22.76	Feet		10/28/22 10:29	1		10/28/22 10:29	FIELD	Field*
Dissolved oxygen, Field	2.7	mg/L		10/28/22 10:29	1		10/28/22 10:29	FIELD	Field*
Oxidation Reduction Potential	-26.2	mV		10/28/22 10:29	1	-500	10/28/22 10:29	FIELD	Field*
pH, Field Measured	6.78	pH Units		10/28/22 10:29	1		10/28/22 10:29	FIELD	Field*
Specific Conductance, Field Measured	2619	umhos/cm		10/28/22 10:29	1		10/28/22 10:29	FIELD	Field*
Temperature, Field Measured	54.8	°F		10/28/22 10:29	1		10/28/22 10:29	FIELD	Field*
Temperature, Field Measured	12.7	°C		10/28/22 10:29	1		10/28/22 10:29	FIELD	Field*
Turbidity, Field Measured	60.7	NTU		10/28/22 10:29	1	0.00	10/28/22 10:29	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	380	mg/L		11/10/22 19:39	100	100	11/10/22 19:39	LAM	EPA 300.0 REV 2.1
Soluble Metals - PIA									
Boron, Dissolved	41000	ug/L		11/07/22 05:39	100	200	11/10/22 11:32	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-23

Name: R61L

Matrix: Ground Water - Grab

Sampled: 10/28/22 11:31

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	26.72	Feet		10/28/22 11:31	1		10/28/22 11:31	FIELD	Field*
Dissolved oxygen, Field	1.5	mg/L		10/28/22 11:31	1		10/28/22 11:31	FIELD	Field*
Oxidation Reduction Potential	97.0	mV		10/28/22 11:31	1	-500	10/28/22 11:31	FIELD	Field*
pH, Field Measured	7.04	pH Units		10/28/22 11:31	1		10/28/22 11:31	FIELD	Field*
Specific Conductance, Field Measured	1141	umhos/cm		10/28/22 11:31	1		10/28/22 11:31	FIELD	Field*
Temperature, Field Measured	57.1	°F		10/28/22 11:31	1		10/28/22 11:31	FIELD	Field*
Temperature, Field Measured	14.0	°C		10/28/22 11:31	1		10/28/22 11:31	FIELD	Field*
Turbidity, Field Measured	1.95	NTU		10/28/22 11:31	1	0.00	10/28/22 11:31	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	31	mg/L		11/10/22 19:57	5	5.0	11/10/22 19:57	LAM	EPA 300.0 REV 2.1
Sulfate, Dissolved	99	mg/L		11/10/22 20:15	25	25	11/10/22 20:15	LAM	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	720	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 19:30	JMW	EPA 6020A
Boron, Dissolved	27	ug/L		11/07/22 05:39	5	10	11/09/22 08:04	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 19:30	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 19:30	JMW	EPA 6020A
Manganese, Dissolved	10	ug/L		11/07/22 05:39	5	1.0	11/08/22 19:30	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05206-25

Name: R72S

Matrix: Ground Water - Grab

Sampled: 10/27/22 00:00

Received: 10/28/22 17:15

PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	32.35	Feet		10/27/22 00:00	1		10/27/22 00:00	FIELD	Field*
Dissolved oxygen, Field	2.7	mg/L		10/27/22 00:00	1		10/27/22 00:00	FIELD	Field*
Oxidation Reduction Potential	76.0	mV		10/27/22 00:00	1	-500	10/27/22 00:00	FIELD	Field*
pH, Field Measured	7.17	pH Units		10/27/22 00:00	1		10/27/22 00:00	FIELD	Field*
Specific Conductance, Field Measured	1200	umhos/cm		10/27/22 00:00	1		10/27/22 00:00	FIELD	Field*
Temperature, Field Measured	59.2	°F		10/27/22 00:00	1		10/27/22 00:00	FIELD	Field*
Temperature, Field Measured	15.1	°C		10/27/22 00:00	1		10/27/22 00:00	FIELD	Field*
Turbidity, Field Measured	741	NTU		10/27/22 00:00	1	0.00	10/27/22 00:00	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	29	mg/L	Q4	11/10/22 21:27	25	25	11/10/22 21:27	LAM	EPA 300.0 REV 2.1
Sulfate, Dissolved	200	mg/L	Q4	11/10/22 21:27	25	25	11/10/22 21:27	LAM	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	720	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 19:34	JMW	EPA 6020A
Boron, Dissolved	16	ug/L		11/07/22 05:39	5	10	11/09/22 08:07	JMW	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 19:34	JMW	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/07/22 05:39	5	1.0	11/08/22 19:34	JMW	EPA 6020A
Manganese, Dissolved	61	ug/L		11/07/22 05:39	5	1.0	11/08/22 19:34	JMW	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05400-01
Name: G60S
Matrix: Ground Water - Grab

Sampled: 10/31/22 12:18
Received: 10/31/22 16:09
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	28.05	Feet		10/31/22 12:18	1		10/31/22 12:18	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		10/31/22 12:18	1		10/31/22 12:18	FIELD	Field*
Oxidation Reduction Potential	-6.20	mV		10/31/22 12:18	1	-500	10/31/22 12:18	FIELD	Field*
pH, Field Measured	6.57	pH Units		10/31/22 12:18	1		10/31/22 12:18	FIELD	Field*
Specific Conductance, Field Measured	801.0	umhos/cm		10/31/22 12:18	1		10/31/22 12:18	FIELD	Field*
Temperature, Field Measured	55.1	°F		10/31/22 12:18	1		10/31/22 12:18	FIELD	Field*
Temperature, Field Measured	12.8	°C		10/31/22 12:18	1		10/31/22 12:18	FIELD	Field*
Turbidity, Field Measured	493	NTU		10/31/22 12:18	1	0.00	10/31/22 12:18	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	7.1	mg/L	Q2	11/12/22 01:19	1	1.0	11/12/22 01:19	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	72	mg/L	Q4	11/12/22 02:50	10	10	11/12/22 02:50	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	540	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:00	KMC	EPA 6020A
Boron, Dissolved	55	ug/L		11/04/22 14:52	5	10	11/07/22 15:38	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:00	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:00	KMC	EPA 6020A
Manganese, Dissolved	330	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:00	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05400-02
Name: G62L
Matrix: Ground Water - Grab

Sampled: 10/31/22 11:30
Received: 10/31/22 16:09
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	26.59	Feet		10/31/22 11:30	1		10/31/22 11:30	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		10/31/22 11:30	1		10/31/22 11:30	FIELD	Field*
Oxidation Reduction Potential	115	mV		10/31/22 11:30	1	-500	10/31/22 11:30	FIELD	Field*
pH, Field Measured	6.60	pH Units		10/31/22 11:30	1		10/31/22 11:30	FIELD	Field*
Specific Conductance, Field Measured	1007	umhos/cm		10/31/22 11:30	1		10/31/22 11:30	FIELD	Field*
Temperature, Field Measured	57.4	°F		10/31/22 11:30	1		10/31/22 11:30	FIELD	Field*
Temperature, Field Measured	14.1	°C		10/31/22 11:30	1		10/31/22 11:30	FIELD	Field*
Turbidity, Field Measured	169	NTU		10/31/22 11:30	1	0.00	10/31/22 11:30	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	7.1	mg/L		11/12/22 03:09	1	1.0	11/12/22 03:09	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	130	mg/L		11/12/22 03:47	100	100	11/12/22 03:47	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	700	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	1.5	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:04	KMC	EPA 6020A
Boron, Dissolved	60	ug/L		11/04/22 14:52	5	10	11/07/22 15:42	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:04	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:04	KMC	EPA 6020A
Manganese, Dissolved	48	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:04	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05400-03
Name: G71L
Matrix: Ground Water - Grab

Sampled: 10/31/22 10:00
Received: 10/31/22 16:09
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	29.83	Feet		10/31/22 10:00	1		10/31/22 10:00	FIELD	Field*
Dissolved oxygen, Field	4.0	mg/L		10/31/22 10:00	1		10/31/22 10:00	FIELD	Field*
Oxidation Reduction Potential	158	mV		10/31/22 10:00	1	-500	10/31/22 10:00	FIELD	Field*
pH, Field Measured	6.58	pH Units		10/31/22 10:00	1		10/31/22 10:00	FIELD	Field*
Specific Conductance, Field Measured	1183	umhos/cm		10/31/22 10:00	1		10/31/22 10:00	FIELD	Field*
Temperature, Field Measured	56.8	°F		10/31/22 10:00	1		10/31/22 10:00	FIELD	Field*
Temperature, Field Measured	13.8	°C		10/31/22 10:00	1		10/31/22 10:00	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		10/31/22 10:00	1	0.00	10/31/22 10:00	FIELD	Field*
Soluble Anions - PIA									
Chloride, Dissolved	13	mg/L	Q4	11/12/22 05:02	10	10	11/12/22 05:02	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	46	mg/L	Q4	11/12/22 05:02	10	10	11/12/22 05:02	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	720	mg/L		11/01/22 11:49	1	26	11/01/22 12:42	HRF	SM 2540C
Soluble Metals - PIA									
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:07	KMC	EPA 6020A
Boron, Dissolved	< 10	ug/L		11/08/22 12:00	5	10	11/08/22 13:02	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:07	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:07	KMC	EPA 6020A
Manganese, Dissolved	59	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:07	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05400-04
Name: G73L
Matrix: Ground Water - Grab

Sampled: 10/31/22 10:51
Received: 10/31/22 16:09
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Field - PIA									
Depth, From Measuring Point	30.77	Feet		10/31/22 10:51	1		10/31/22 10:51	FIELD	Field*
Dissolved oxygen, Field	2.2	mg/L		10/31/22 10:51	1		10/31/22 10:51	FIELD	Field*
Oxidation Reduction Potential	245	mV		10/31/22 10:51	1	-500	10/31/22 10:51	FIELD	Field*
pH, Field Measured	6.68	pH Units		10/31/22 10:51	1		10/31/22 10:51	FIELD	Field*
Specific Conductance, Field Measured	1816	umhos/cm		10/31/22 10:51	1		10/31/22 10:51	FIELD	Field*
Temperature, Field Measured	15.0	°C		10/31/22 10:51	1		10/31/22 10:51	FIELD	Field*
Temperature, Field Measured	58.9	°F		10/31/22 10:51	1		10/31/22 10:51	FIELD	Field*
Turbidity, Field Measured	5.20	NTU		10/31/22 10:51	1	0.00	10/31/22 10:51	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO ₃	390	mg/L		11/04/22 09:30	1	10	11/04/22 09:30	HRF	SM 2320B 1997*
Cyanide	< 0.0050	mg/L		11/04/22 11:58	1	0.0050	11/04/22 11:58	NWT	ASTM D7511-09e2
Soluble Anions - PIA									
Chloride, Dissolved	51	mg/L		11/01/22 19:41	25	25	11/01/22 19:41	CRD	EPA 300.0 REV 2.1
Fluoride, Dissolved	< 0.25	mg/L		11/01/22 19:23	1	0.25	11/01/22 19:23	CRD	EPA 300.0 REV 2.1
Nitrate, Dissolved	0.39	mg/L		11/01/22 19:23	1	0.03	11/01/22 19:23	CRD	EPA 300.0 REV 2.1
Sulfate, Dissolved	96	mg/L		11/01/22 19:41	25	25	11/01/22 19:41	CRD	EPA 300.0 REV 2.1
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	780	mg/L		11/02/22 10:44	1	26	11/02/22 11:52	HRF	SM 2540C
Soluble Metals - PIA									
Antimony, Dissolved	< 3.0	ug/L		11/04/22 14:52	5	3.0	11/04/22 18:11	KMC	EPA 6020A
Arsenic, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:11	KMC	EPA 6020A
Barium, Dissolved	110	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:11	KMC	EPA 6020A
Beryllium	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:11	KMC	EPA 6020A
Boron, Dissolved	54	ug/L		11/08/22 12:00	5	10	11/08/22 13:06	KMC	EPA 6020A
Cadmium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:11	KMC	EPA 6020A
Calcium, Dissolved	180	mg/L		11/08/22 12:00	5	0.10	11/08/22 13:06	KMC	EPA 6020A
Chromium, Dissolved	< 4.0	ug/L		11/04/22 14:52	5	4.0	11/04/22 18:11	KMC	EPA 6020A
Cobalt, Dissolved	< 2.0	ug/L		11/04/22 14:52	5	2.0	11/04/22 18:11	KMC	EPA 6020A
Copper, Dissolved	< 3.0	ug/L		11/04/22 14:52	5	3.0	11/04/22 18:11	KMC	EPA 6020A
Lead, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:11	KMC	EPA 6020A
Magnesium, Dissolved	96	mg/L		11/04/22 14:52	5	0.10	11/04/22 18:11	KMC	EPA 6020A



ANALYTICAL RESULTS

Sample: FJ05400-04
Name: G73L
Matrix: Ground Water - Grab

Sampled: 10/31/22 10:51
Received: 10/31/22 16:09
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Manganese, Dissolved	480	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:11	KMC	EPA 6020A
Mercury, Dissolved	< 0.20	ug/L		11/04/22 14:52	5	0.20	11/04/22 18:11	KMC	EPA 6020A
Nickel, Dissolved	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 18:11	KMC	EPA 6020A
Potassium, Dissolved	0.83	mg/L		11/04/22 14:52	5	0.10	11/04/22 18:11	KMC	EPA 6020A
Selenium, Dissolved	< 1.0	ug/L		11/04/22 14:52	5	1.0	11/04/22 18:11	KMC	EPA 6020A
Silver	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 18:11	KMC	EPA 6020A
Sodium, Dissolved	24	mg/L		11/04/22 14:52	5	0.10	11/07/22 16:28	KMC	EPA 6020A
Vanadium	< 5.0	ug/L		11/04/22 14:52	5	5.0	11/04/22 18:11	KMC	EPA 6020A
Zinc, Dissolved	< 6.0	ug/L		11/04/22 14:52	5	6.0	11/07/22 16:28	KMC	EPA 6020A

Soluble Nutrients - PIA

Ammonia, Dissolved	< 0.10	mg/L		11/04/22 15:26	1	0.10	11/04/22 15:26	TTH	EPA 350.1 REV2
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Sample: FK04082-01
Name: OR03D
Matrix: Ground Water - Grab

Sampled: 11/21/22 16:02
Received: 11/22/22 09:04
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Chloride, Dissolved	800	mg/L		11/22/22 11:51	250	250	11/22/22 11:51	CRD	EPA 300.0 REV 2.1

Soluble Anions - PIA

Sample: FK05034-01
Name: G12S
Matrix: Ground Water - Grab

Sampled: 11/30/22 10:50
Received: 11/30/22 16:04
PO #: 1168808

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
pH, Field Measured	6.60	pH Units		11/30/22 10:50	1		11/30/22 10:50	FIELD	Field*

Field - PIA



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B247580 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B247580-CCB1)				Prepared & Analyzed: 10/27/22					
Sulfate	0.00	mg/L							
Nitrate-N	0.00	mg/L							
Fluoride	0.00	mg/L							
Chloride	0.517	mg/L							
Calibration Check (B247580-CCV1)				Prepared & Analyzed: 10/27/22					
Nitrate-N	0.970	mg/L		1.000		97	90-110		
Fluoride	5.03	mg/L		5.000		101	90-110		
Chloride	4.75	mg/L		5.000		95	90-110		
Sulfate	4.88	mg/L		5.000		98	90-110		
<u>Batch B247685 - No Prep - SM 2540C</u>									
Blank (B247685-BLK1)				Prepared & Analyzed: 10/28/22					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B247685-BS1)				Prepared & Analyzed: 10/28/22					
Solids - total dissolved solids (TDS)	983	mg/L		1000		98	84.9-109		
<u>Batch B247710 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B247710-CCB1)				Prepared & Analyzed: 10/28/22					
Nitrate-N	0.00	mg/L							
Sulfate	0.00	mg/L							
Chloride	0.00	mg/L							
Calibration Check (B247710-CCV1)				Prepared & Analyzed: 10/28/22					
Chloride	4.90	mg/L		5.000		98	90-110		
Sulfate	5.01	mg/L		5.000		100	90-110		
Nitrate-N	0.943	mg/L		1.000		94	90-110		
Matrix Spike (B247710-MS1)				Sample: FJ05072-09 Prepared & Analyzed: 10/28/22					
Chloride	1.0E9	mg/L	Q4	1.500	98	NR	80-120		
Nitrate-N	100000000 0	mg/L	Q4	0.3000	3.0	NR	80-120		
Matrix Spike Dup (B247710-MSD1)				Sample: FJ05072-09 Prepared & Analyzed: 10/28/22					
Nitrate-N	100000000 0	mg/L	Q4	0.3000	3.0	NR	80-120	0	20
Chloride	< 1.0	mg/L	Q4	1.500	98	NR	80-120		20
<u>Batch B247714 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B247714-CCB1)				Prepared & Analyzed: 10/28/22					
Chloride	0.640	mg/L							
Nitrate-N	0.00	mg/L							
Fluoride	0.00	mg/L							
Sulfate	0.00	mg/L							
Calibration Check (B247714-CCV1)				Prepared & Analyzed: 10/28/22					
Fluoride	4.94	mg/L		5.000		99	90-110		



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B247714 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Check (B247714-CCV1)				Prepared & Analyzed: 10/28/22					
Chloride	4.76	mg/L		5.000		95	90-110		
Sulfate	4.83	mg/L		5.000		97	90-110		
Nitrate-N	0.965	mg/L		1.000		97	90-110		
Matrix Spike (B247714-MS1)				Sample: FJ05072-02 Prepared & Analyzed: 10/28/22					
Chloride	4.2	mg/L		1.500	2.8	91	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	37.1	NR	80-120		
Nitrate-N	100000000 0	mg/L	Q4	0.3000	2.6	NR	80-120		
Fluoride	1.62	mg/L		1.500	0.248	91	80-120		
Matrix Spike (B247714-MS2)				Sample: FJ05072-03 Prepared & Analyzed: 10/28/22					
Chloride	3.6	mg/L		1.500	2.3	85	80-120		
Fluoride	1.60	mg/L		1.500	0.260	90	80-120		
Nitrate-N	100000000 0	mg/L	Q4	0.3000	3.4	NR	80-120		
Matrix Spike (B247714-MS3)				Sample: FJ05072-15 Prepared & Analyzed: 10/28/22					
Chloride	2.9	mg/L	Q1	1.500	1.7	80	80-120		
Fluoride	1.60	mg/L		1.500	0.249	90	80-120		
Nitrate-N	100000000 0	mg/L	Q4	0.3000	1.9	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	33.1	NR	80-120		
Matrix Spike Dup (B247714-MSD1)				Sample: FJ05072-02 Prepared & Analyzed: 10/28/22					
Sulfate	1.00E9	mg/L	Q4	1.500	37.1	NR	80-120	0	20
Fluoride	1.62	mg/L		1.500	0.248	91	80-120	0.2	20
Nitrate-N	100000000 0	mg/L	Q4	0.3000	2.6	NR	80-120	0	20
Chloride	4.2	mg/L		1.500	2.8	92	80-120	0.2	20
Matrix Spike Dup (B247714-MSD2)				Sample: FJ05072-03 Prepared & Analyzed: 10/28/22					
Fluoride	1.62	mg/L		1.500	0.260	91	80-120	1	20
Nitrate-N	100000000 0	mg/L	Q4	0.3000	3.4	NR	80-120	0	20
Chloride	3.6	mg/L		1.500	2.3	86	80-120	0.5	20
Matrix Spike Dup (B247714-MSD3)				Sample: FJ05072-15 Prepared & Analyzed: 10/28/22					
Chloride	2.8	mg/L	Q2	1.500	1.7	78	80-120	1	20
Nitrate-N	100000000 0	mg/L	Q4	0.3000	1.9	NR	80-120	0	20
Fluoride	1.61	mg/L		1.500	0.249	90	80-120	0.6	20
Sulfate	1.00E9	mg/L	Q4	1.500	33.1	NR	80-120	0	20
<u>Batch B247734 - No Prep - SM 2320B 1997</u>									
Duplicate (B247734-DUP1)				Sample: FJ05072-14 Prepared & Analyzed: 10/29/22					
Alkalinity - bicarbonate as CaCO3	288	mg/L			288			0	10
<u>Batch B247762 - No Prep - EPA 335.4 REV1</u>									
Blank (B247762-BLK1)				Prepared: 10/31/22 Analyzed: 11/01/22					
Cyanide	< 0.0050	mg/L							
Blank (B247762-BLK2)				Prepared: 10/31/22 Analyzed: 11/01/22					
Cyanide	< 0.0050	mg/L							



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B247762 - No Prep - EPA 335.4 REV1</u>									
Blank (B247762-BLK3)				Prepared: 10/31/22 Analyzed: 11/01/22					
Cyanide	< 0.0050	mg/L							
Blank (B247762-BLK4)				Prepared: 10/31/22 Analyzed: 11/01/22					
Cyanide	< 0.0050	mg/L							
Blank (B247762-BLK5)				Prepared: 10/31/22 Analyzed: 11/01/22					
Cyanide	< 0.0050	mg/L							
LCS (B247762-BS1)				Prepared: 10/31/22 Analyzed: 11/01/22					
Cyanide	0.0999	mg/L		0.1000		100	90-110		
LCS (B247762-BS2)				Prepared: 10/31/22 Analyzed: 11/01/22					
Cyanide	0.0958	mg/L		0.1000		96	90-110		
LCS (B247762-BS3)				Prepared: 10/31/22 Analyzed: 11/01/22					
Cyanide	0.0982	mg/L		0.1000		98	90-110		
LCS (B247762-BS4)				Prepared: 10/31/22 Analyzed: 11/01/22					
Cyanide	0.0966	mg/L		0.1000		97	90-110		
LCS (B247762-BS5)				Prepared: 10/31/22 Analyzed: 11/01/22					
Cyanide	0.0965	mg/L		0.1000		96	90-110		
Matrix Spike (B247762-MS8)				Prepared: 10/31/22 Analyzed: 11/01/22					
Cyanide	0.102	mg/L	R	0.1000	ND	102	75-125		
Matrix Spike Dup (B247762-MSD8)				Prepared: 10/31/22 Analyzed: 11/01/22					
Cyanide	0.0723	mg/L	Q2, R	0.1000	ND	72	75-125	34	20
<u>Batch B247795 - No Prep - SM 2540C</u>									
Blank (B247795-BLK1)				Prepared & Analyzed: 10/31/22					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B247795-BS1)				Prepared & Analyzed: 10/31/22					
Solids - total dissolved solids (TDS)	937	mg/L		1000		94	84.9-109		
Duplicate (B247795-DUP1)				Prepared & Analyzed: 10/31/22					
Solids - total dissolved solids (TDS)	415	mg/L	M		440			6	5
<u>Batch B247837 - No Prep - SM 2540C</u>									
Blank (B247837-BLK1)				Prepared & Analyzed: 10/31/22					
Solids - total dissolved solids (TDS)	< 17	mg/L							
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B247837-BS1)				Prepared & Analyzed: 10/31/22					
Solids - total dissolved solids (TDS)	947	mg/L		1000		95	84.9-109		
Solids - total dissolved solids (TDS)	947	mg/L		1000		95	84.9-109		
<u>Batch B247885 - No Prep - SM 2540C</u>									
Blank (B247885-BLK1)				Prepared & Analyzed: 11/01/22					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B247885-BS1)				Prepared & Analyzed: 11/01/22					
Solids - total dissolved solids (TDS)	957	mg/L		1000		96	84.9-109		
Duplicate (B247885-DUP1)				Prepared & Analyzed: 11/01/22					
Solids - total dissolved solids (TDS)	350	mg/L	M		415			17	5
Duplicate (B247885-DUP2)				Prepared & Analyzed: 11/01/22					



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B247885 - No Prep - SM 2540C</u>									
Duplicate (B247885-DUP2)		Sample: FJ05072-07		Prepared & Analyzed: 11/01/22					
Solids - total dissolved solids (TDS)	610	mg/L			605			0.8	5
<u>Batch B247910 - No Prep - SM 2540C</u>									
Blank (B247910-BLK1)		Prepared & Analyzed: 11/01/22							
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B247910-BS1)		Prepared & Analyzed: 11/01/22							
Solids - total dissolved solids (TDS)	1010	mg/L		1000		101	84.9-109		
Duplicate (B247910-DUP1)		Sample: FJ05206-10		Prepared & Analyzed: 11/01/22					
Solids - total dissolved solids (TDS)	435	mg/L	M		405			7	5
Duplicate (B247910-DUP2)		Sample: FJ05400-01		Prepared & Analyzed: 11/01/22					
Solids - total dissolved solids (TDS)	560	mg/L			535			5	5
<u>Batch B248010 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B248010-CCB1)		Prepared & Analyzed: 11/01/22							
Fluoride	0.00	mg/L							
Chloride	0.647	mg/L							
Nitrate-N	0.00	mg/L							
Sulfate	0.676	mg/L							
Calibration Check (B248010-CCV1)		Prepared & Analyzed: 11/01/22							
Fluoride	4.77	mg/L		5.000		95	90-110		
Chloride	4.64	mg/L		5.000		93	90-110		
Nitrate-N	0.981	mg/L		1.000		98	90-110		
Sulfate	4.83	mg/L		5.000		97	90-110		
<u>Batch B248013 - No Prep - SM 2540C</u>									
Blank (B248013-BLK1)		Prepared & Analyzed: 11/02/22							
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B248013-BS1)		Prepared & Analyzed: 11/02/22							
Solids - total dissolved solids (TDS)	1070	mg/L		1000		107	84.9-109		
<u>Batch B248068 - No Prep - EPA 420.4 Rev1</u>									
Blank (B248068-BLK1)		Prepared: 11/02/22 Analyzed: 11/03/22							
Phenolics	< 0.0050	mg/L							
Blank (B248068-BLK2)		Prepared: 11/02/22 Analyzed: 11/03/22							
Phenolics	< 0.0050	mg/L							
Blank (B248068-BLK3)		Prepared: 11/02/22 Analyzed: 11/03/22							
Phenolics	< 0.0050	mg/L							
Blank (B248068-BLK4)		Prepared: 11/02/22 Analyzed: 11/03/22							
Phenolics	< 0.0050	mg/L							
Blank (B248068-BLK5)		Prepared: 11/02/22 Analyzed: 11/03/22							
Phenolics	< 0.0050	mg/L							
LCS (B248068-BS1)		Prepared: 11/02/22 Analyzed: 11/03/22							
Phenolics	0.193	mg/L		0.2000		96	90-110		
LCS (B248068-BS2)		Prepared: 11/02/22 Analyzed: 11/03/22							



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B248068 - No Prep - EPA 420.4 Rev1</u>									
LCS (B248068-BS2)				Prepared: 11/02/22 Analyzed: 11/03/22					
Phenolics	0.195	mg/L		0.2000		97	90-110		
LCS (B248068-BS3)				Prepared: 11/02/22 Analyzed: 11/03/22					
Phenolics	0.202	mg/L		0.2000		101	90-110		
LCS (B248068-BS4)				Prepared: 11/02/22 Analyzed: 11/03/22					
Phenolics	0.180	mg/L		0.2000		90	90-110		
LCS (B248068-BS5)				Prepared: 11/02/22 Analyzed: 11/03/22					
Phenolics	0.198	mg/L		0.2000		99	90-110		
<u>Batch B248108 - SW 3015 - EPA 6020A</u>									
Blank (B248108-BLK1)				Prepared: 11/03/22 Analyzed: 11/05/22					
Aluminum	< 20	ug/L							
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							
Copper	< 3.0	ug/L							
Iron	< 10	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Manganese	< 1.0	ug/L							
Mercury	< 0.20	ug/L							
Nickel	< 5.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Silver	< 5.0	ug/L							
Sodium	< 0.10	mg/L							
Zinc	< 6.0	ug/L							
LCS (B248108-BS1)				Prepared: 11/03/22 Analyzed: 11/05/22					
Aluminum	535	ug/L		555.6		96	80-120		
Antimony	573	ug/L		555.6		103	80-120		
Arsenic	574	ug/L		555.6		103	80-120		
Barium	555	ug/L		555.6		100	80-120		
Beryllium	594	ug/L		555.6		107	80-120		
Boron	602	ug/L		555.6		108	80-120		
Cadmium	554	ug/L		555.6		100	80-120		
Calcium	6.33	mg/L		5.556		114	80-120		
Chromium	585	ug/L		555.6		105	80-120		
Cobalt	559	ug/L		555.6		101	80-120		
Copper	590	ug/L		555.6		106	80-120		



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B248108 - SW 3015 - EPA 6020A</u>									
LCS (B248108-BS1)				Prepared: 11/03/22 Analyzed: 11/04/22					
Iron	586	ug/L		555.6		106	80-120		
Lead	539	ug/L		555.6		97	80-120		
Magnesium	6.49	mg/L		5.556		117	80-120		
Manganese	570	ug/L		555.6		103	80-120		
Mercury	55.0	ug/L		55.56		99	80-120		
Nickel	580	ug/L		555.6		104	80-120		
Potassium	6.00	mg/L		5.556		108	80-120		
Selenium	553	ug/L		555.6		100	80-120		
Silver	570	ug/L		555.6		103	80-120		
Sodium	5.90	mg/L		5.556		106	80-120		
Zinc	591	ug/L		555.6		106	80-120		
<u>Batch B248124 - No Prep - SM 2540C</u>									
Blank (B248124-BLK1)				Prepared & Analyzed: 11/03/22					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B248124-BS1)				Prepared & Analyzed: 11/03/22					
Solids - total dissolved solids (TDS)	943	mg/L		1000		94	84.9-109		
<u>Batch B248160 - No Prep - SM 2540 D 1997</u>									
Blank (B248160-BLK1)				Prepared & Analyzed: 11/03/22					
Solids - total suspended solids (TSS)	< 4.0	mg/L							
LCS (B248160-BS1)				Prepared & Analyzed: 11/03/22					
Solids - total suspended solids (TSS)	449	mg/L		500.0		90	77.3-116		
<u>Batch B248165 - No Prep - SM 5220 D 1997</u>									
Blank (B248165-BLK1)				Prepared & Analyzed: 11/03/22					
COD	< 6.0	mg/L							
LCS (B248165-BS1)				Prepared & Analyzed: 11/03/22					
COD	103	mg/L		100.0		103	80-120		
Calibration Blank (B248165-CCB1)				Prepared & Analyzed: 11/03/22					
COD	-0.163	mg/L							
Calibration Blank (B248165-CCB2)				Prepared & Analyzed: 11/03/22					
COD	-0.163	mg/L							
Calibration Blank (B248165-CCB3)				Prepared & Analyzed: 11/03/22					
COD	0.182	mg/L							
Calibration Check (B248165-CCV1)				Prepared & Analyzed: 11/03/22					
COD	94.1	mg/L		100.0		94	90-110		
Calibration Check (B248165-CCV2)				Prepared & Analyzed: 11/03/22					
COD	103	mg/L		100.0		103	90-110		
Calibration Check (B248165-CCV3)				Prepared & Analyzed: 11/03/22					
COD	104	mg/L		100.0		104	90-110		
<u>Batch B248246 - 6020 Sol no prep - EPA 6020A</u>									
Blank (B248246-BLK1)				Prepared: 11/04/22 Analyzed: 11/05/22					



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B248246 - 6020 Sol no prep - EPA 6020A</u>									
Blank (B248246-BLK1)				Prepared: 11/04/22 Analyzed: 11/05/22					
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	< 0.10	mg/L							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Copper	< 3.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Manganese	< 1.0	ug/L							
Mercury	< 0.20	ug/L							
Nickel	< 5.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Silver	< 5.0	ug/L							
Sodium	< 0.10	mg/L							
Vanadium	< 5.0	ug/L							
Zinc	< 6.0	ug/L							
LCS (B248246-BS1)				Prepared: 11/04/22 Analyzed: 11/05/22					
Antimony	264	ug/L		250.0		106	80-120		
Arsenic	234	ug/L		250.0		94	80-120		
Barium	249	ug/L		250.0		100	80-120		
Beryllium	259	ug/L		250.0		104	80-120		
Boron	2380	ug/L		2500		95	80-120		
Cadmium	250	ug/L		250.0		100	80-120		
Calcium	25.5	mg/L		25.00		102	80-120		
Chromium	244	ug/L		250.0		98	80-120		
Cobalt	257	ug/L		250.0		103	80-120		
Copper	244	ug/L		250.0		98	80-120		
Lead	239	ug/L		250.0		95	80-120		
Magnesium	25.5	mg/L		25.00		102	80-120		
Manganese	251	ug/L		250.0		101	80-120		
Mercury	24.0	ug/L		25.00		96	80-120		
Nickel	256	ug/L		250.0		103	80-120		
Potassium	25.8	mg/L		25.00		103	80-120		
Selenium	260	ug/L		250.0		104	80-120		
Silver	276	ug/L		250.0		111	80-120		
Sodium	26.0	mg/L		25.00		104	80-120		
Vanadium	258	ug/L		250.0		103	80-120		
Zinc	267	ug/L		250.0		107	80-120		
Matrix Spike (B248246-MS3)		Sample: FJ04795-03		Prepared: 11/04/22 Analyzed: 11/05/22					



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B248246 - 6020 Sol no prep - EPA 6020A</u>									
Matrix Spike (B248246-MS3)		Sample: FJ04795-03		Prepared: 11/04/22 Analyzed: 11/05/22					
Antimony	255	ug/L		250.0	ND	102	75-125		
Arsenic	231	ug/L		250.0	1.48	92	75-125		
Barium	342	ug/L		250.0	101	96	75-125		
Beryllium	251	ug/L		250.0	ND	100	75-125		
Boron	2500	ug/L		2500	63.8	97	75-125		
Cadmium	239	ug/L		250.0	ND	96	75-125		
Calcium	113	mg/L		25.00	92.5	81	75-125		
Chromium	235	ug/L		250.0	3.62	93	75-125		
Cobalt	242	ug/L		250.0	ND	97	75-125		
Copper	227	ug/L		250.0	ND	91	75-125		
Lead	227	ug/L		250.0	ND	91	75-125		
Magnesium	60.8	mg/L		25.00	38.8	88	75-125		
Manganese	374	ug/L		250.0	141	93	75-125		
Mercury	25.0	ug/L		25.00	ND	100	75-125		
Nickel	244	ug/L		250.0	2.15	97	75-125		
Potassium	25.5	mg/L		25.00	0.535	100	75-125		
Selenium	252	ug/L		250.0	ND	101	75-125		
Silver	261	ug/L		250.0	ND	104	75-125		
Sodium	35.0	mg/L		25.00	10.5	98	75-125		
Vanadium	249	ug/L		250.0	ND	99	75-125		
Zinc	253	ug/L		250.0	ND	101	75-125		
Matrix Spike (B248246-MS5)		Sample: FJ04795-12		Prepared: 11/04/22 Analyzed: 11/05/22					
Antimony	253	ug/L		250.0	ND	101	75-125		
Arsenic	231	ug/L		250.0	ND	92	75-125		
Barium	287	ug/L		250.0	46.5	96	75-125		
Beryllium	254	ug/L		250.0	ND	102	75-125		
Boron	2460	ug/L		2500	59.3	96	75-125		
Cadmium	243	ug/L		250.0	ND	97	75-125		
Calcium	119	mg/L		25.00	98.6	82	75-125		
Chromium	239	ug/L		250.0	5.36	94	75-125		
Cobalt	241	ug/L		250.0	ND	96	75-125		
Copper	232	ug/L		250.0	3.65	91	75-125		
Lead	227	ug/L		250.0	ND	91	75-125		
Magnesium	77.7	mg/L		25.00	56.4	85	75-125		
Manganese	243	ug/L		250.0	0.310	97	75-125		
Mercury	25.0	ug/L		25.00	ND	100	75-125		
Nickel	239	ug/L		250.0	ND	96	75-125		
Potassium	25.0	mg/L		25.00	0.232	99	75-125		
Selenium	252	ug/L		250.0	0.550	100	75-125		
Silver	264	ug/L		250.0	ND	106	75-125		
Sodium	33.5	mg/L		25.00	8.81	99	75-125		
Zinc	257	ug/L		250.0	5.30	101	75-125		
Matrix Spike Dup (B248246-MSD3)		Sample: FJ04795-03		Prepared: 11/04/22 Analyzed: 11/05/22					
Antimony	255	ug/L		250.0	ND	102	75-125	0.07	20



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B248246 - 6020 Sol no prep - EPA 6020A</u>									
Matrix Spike Dup (B248246-MSD3)		Sample: FJ04795-03		Prepared: 11/04/22 Analyzed: 11/05/22					
Arsenic	233	ug/L		250.0	1.48	93	75-125	1	20
Barium	342	ug/L		250.0	101	96	75-125	0.003	20
Beryllium	253	ug/L		250.0	ND	101	75-125	0.9	20
Boron	2510	ug/L		2500	63.8	98	75-125	0.3	20
Cadmium	245	ug/L		250.0	ND	98	75-125	2	20
Calcium	113	mg/L		25.00	92.5	82	75-125	0.2	20
Chromium	233	ug/L		250.0	3.62	92	75-125	0.7	20
Cobalt	242	ug/L		250.0	ND	97	75-125	0.3	20
Copper	228	ug/L		250.0	ND	91	75-125	0.4	20
Lead	227	ug/L		250.0	ND	91	75-125	0.4	20
Magnesium	60.3	mg/L		25.00	38.8	86	75-125	0.8	20
Manganese	375	ug/L		250.0	141	94	75-125	0.2	20
Mercury	24.6	ug/L		25.00	ND	99	75-125	1	20
Nickel	244	ug/L		250.0	2.15	97	75-125	0.03	20
Potassium	25.5	mg/L		25.00	0.535	100	75-125	0.3	20
Selenium	254	ug/L		250.0	ND	102	75-125	1	20
Silver	263	ug/L		250.0	ND	105	75-125	0.9	20
Sodium	34.8	mg/L		25.00	10.5	97	75-125	0.6	20
Vanadium	249	ug/L		250.0	ND	100	75-125	0.2	20
Zinc	252	ug/L		250.0	ND	101	75-125	0.1	20
Matrix Spike Dup (B248246-MSD5)		Sample: FJ04795-12		Prepared: 11/04/22 Analyzed: 11/05/22					
Antimony	253	ug/L		250.0	ND	101	75-125	0.2	20
Arsenic	236	ug/L		250.0	ND	94	75-125	2	20
Barium	287	ug/L		250.0	46.5	96	75-125	0.3	20
Beryllium	254	ug/L		250.0	ND	101	75-125	0.2	20
Boron	2460	ug/L		2500	59.3	96	75-125	0.1	20
Cadmium	241	ug/L		250.0	ND	96	75-125	0.9	20
Calcium	118	mg/L		25.00	98.6	78	75-125	0.9	20
Chromium	236	ug/L		250.0	5.36	92	75-125	1	20
Cobalt	240	ug/L		250.0	ND	96	75-125	0.6	20
Copper	230	ug/L		250.0	3.65	91	75-125	0.5	20
Lead	225	ug/L		250.0	ND	90	75-125	0.6	20
Magnesium	77.9	mg/L		25.00	56.4	86	75-125	0.3	20
Manganese	243	ug/L		250.0	0.310	97	75-125	0.04	20
Mercury	25.0	ug/L		25.00	ND	100	75-125	0.3	20
Nickel	238	ug/L		250.0	ND	95	75-125	0.5	20
Potassium	24.7	mg/L		25.00	0.232	98	75-125	1	20
Selenium	255	ug/L		250.0	0.550	102	75-125	1	20
Silver	261	ug/L		250.0	ND	105	75-125	1	20
Sodium	33.7	mg/L		25.00	8.81	99	75-125	0.7	20
Zinc	256	ug/L		250.0	5.30	100	75-125	0.4	20
<u>Batch B248308 - 6020 Sol no prep - EPA 6020A</u>									
Blank (B248308-BLK1)				Prepared & Analyzed: 11/04/22					



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B248308 - 6020 Sol no prep - EPA 6020A</u>									
Blank (B248308-BLK1)				Prepared & Analyzed: 11/04/22					
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							
Chromium	< 4.0	ug/L							
Cobalt	< 2.0	ug/L							
Copper	< 3.0	ug/L							
Lead	< 1.0	ug/L							
Magnesium	< 0.10	mg/L							
Manganese	< 1.0	ug/L							
Mercury	< 0.20	ug/L							
Nickel	< 5.0	ug/L							
Potassium	< 0.10	mg/L							
Selenium	< 1.0	ug/L							
Silver	< 5.0	ug/L							
Sodium	< 0.12	mg/L							
Vanadium	< 5.0	ug/L							
Zinc	9.50	ug/L							
LCS (B248308-BS1)				Prepared & Analyzed: 11/04/22					
Antimony	229	ug/L		250.0		92	80-120		
Arsenic	248	ug/L		250.0		99	80-120		
Barium	230	ug/L		250.0		92	80-120		
Beryllium	252	ug/L		250.0		101	80-120		
Boron	2490	ug/L		2500		100	80-120		
Cadmium	241	ug/L		250.0		97	80-120		
Chromium	246	ug/L		250.0		98	80-120		
Cobalt	241	ug/L		250.0		96	80-120		
Copper	252	ug/L		250.0		101	80-120		
Lead	261	ug/L		250.0		104	80-120		
Magnesium	25.2	mg/L		25.00		101	80-120		
Manganese	248	ug/L		250.0		99	80-120		
Mercury	23.5	ug/L		25.00		94	80-120		
Nickel	246	ug/L		250.0		99	80-120		
Potassium	25.5	mg/L		25.00		102	80-120		
Selenium	253	ug/L		250.0		101	80-120		
Silver	239	ug/L		250.0		96	80-120		
Sodium	25.2	mg/L		25.00		101	80-120		
Vanadium	239	ug/L		250.0		96	80-120		
Zinc	259	ug/L		250.0		104	80-120		
Matrix Spike (B248308-MS1)				Sample: FJ05072-07		Prepared & Analyzed: 11/04/22			
Antimony	223	ug/L		250.0	ND	89	75-125		
Arsenic	251	ug/L		250.0	8.54	97	75-125		



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
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Batch B248308 - 6020 Sol no prep - EPA 6020A

Matrix Spike (B248308-MS1)		Sample: FJ05072-07		Prepared & Analyzed: 11/04/22					
Barium	368	ug/L		250.0	152	86	75-125		
Beryllium	238	ug/L		250.0	ND	95	75-125		
Boron	2390	ug/L		2500	12.7	95	75-125		
Cadmium	232	ug/L		250.0	ND	93	75-125		
Chromium	236	ug/L		250.0	1.56	94	75-125		
Cobalt	227	ug/L		250.0	0.560	91	75-125		
Copper	236	ug/L		250.0	ND	94	75-125		
Lead	252	ug/L		250.0	ND	101	75-125		
Magnesium	71.3	mg/L		25.00	49.1	89	75-125		
Manganese	531	ug/L		250.0	297	94	75-125		
Mercury	22.9	ug/L		25.00	ND	92	75-125		
Nickel	230	ug/L		250.0	ND	92	75-125		
Potassium	24.8	mg/L		25.00	0.355	98	75-125		
Selenium	248	ug/L		250.0	ND	99	75-125		
Silver	228	ug/L		250.0	ND	91	75-125		
Sodium	42.7	mg/L		25.00	20.2	90	75-125		
Vanadium	230	ug/L		250.0	ND	92	75-125		
Zinc	235	ug/L		250.0	ND	94	75-125		

Matrix Spike Dup (B248308-MSD1)		Sample: FJ05072-07		Prepared & Analyzed: 11/04/22					
Antimony	223	ug/L		250.0	ND	89	75-125	0.09	20
Arsenic	247	ug/L		250.0	8.54	95	75-125	2	20
Barium	367	ug/L		250.0	152	86	75-125	0.2	20
Beryllium	236	ug/L		250.0	ND	94	75-125	0.9	20
Boron	2390	ug/L		2500	12.7	95	75-125	0.1	20
Cadmium	230	ug/L		250.0	ND	92	75-125	1	20
Chromium	233	ug/L		250.0	1.56	92	75-125	1	20
Cobalt	224	ug/L		250.0	0.560	89	75-125	1	20
Copper	233	ug/L		250.0	ND	93	75-125	1	20
Lead	249	ug/L		250.0	ND	100	75-125	1	20
Magnesium	69.9	mg/L		25.00	49.1	83	75-125	2	20
Manganese	526	ug/L		250.0	297	92	75-125	1	20
Mercury	23.2	ug/L		25.00	ND	93	75-125	0.9	20
Nickel	228	ug/L		250.0	ND	91	75-125	0.6	20
Potassium	24.4	mg/L		25.00	0.355	96	75-125	2	20
Selenium	241	ug/L		250.0	ND	96	75-125	3	20
Silver	227	ug/L		250.0	ND	91	75-125	0.4	20
Sodium	42.5	mg/L		25.00	20.2	89	75-125	0.5	20
Vanadium	227	ug/L		250.0	ND	91	75-125	1	20
Zinc	233	ug/L		250.0	ND	93	75-125	0.5	20

Batch B248329 - IC No Prep - ASTM D7511-09e2

Matrix Spike (B248329-MS1)		Sample: FJ04795-03		Prepared & Analyzed: 11/04/22					
Cyanide	0.0580	mg/L		0.05000	0.00400	108	75-125		
Matrix Spike Dup (B248329-MSD1)		Sample: FJ04795-03		Prepared & Analyzed: 11/04/22					



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B248329 - IC No Prep - ASTM D7511-09e2</u>									
Matrix Spike Dup (B248329-MSD1)		Sample: FJ04795-03			Prepared & Analyzed: 11/04/22				
Cyanide	0.0570	mg/L		0.05000	0.00400	106	75-125	2	20
<u>Batch B248350 - 6020 Sol no prep - EPA 6020A</u>									
Blank (B248350-BLK1)		Prepared: 11/07/22 Analyzed: 11/08/22							
Arsenic	< 1.0	ug/L							
Boron	< 10	ug/L							
Cadmium	< 1.0	ug/L							
Lead	< 1.0	ug/L							
Manganese	< 1.0	ug/L							
LCS (B248350-BS1)		Prepared: 11/07/22 Analyzed: 11/08/22							
Arsenic	234	ug/L		250.0		94	80-120		
Boron	2330	ug/L		2500		93	80-120		
Cadmium	257	ug/L		250.0		103	80-120		
Lead	234	ug/L		250.0		94	80-120		
Manganese	243	ug/L		250.0		97	80-120		
Matrix Spike (B248350-MS1)		Sample: FJ05206-06			Prepared: 11/07/22 Analyzed: 11/08/22				
Arsenic	237	ug/L		250.0	ND	95	75-125		
Boron	2340	ug/L		2500	7.96	93	75-125		
Cadmium	257	ug/L		250.0	0.115	103	75-125		
Lead	234	ug/L		250.0	ND	93	75-125		
Manganese	327	ug/L		250.0	91.9	94	75-125		
Matrix Spike (B248350-MS2)		Sample: FJ05206-25			Prepared: 11/07/22 Analyzed: 11/08/22				
Arsenic	237	ug/L		250.0	ND	95	75-125		
Boron	2350	ug/L		2500	15.6	93	75-125		
Cadmium	263	ug/L		250.0	ND	105	75-125		
Lead	234	ug/L		250.0	ND	93	75-125		
Manganese	302	ug/L		250.0	61.2	96	75-125		
Matrix Spike Dup (B248350-MSD1)		Sample: FJ05206-06			Prepared: 11/07/22 Analyzed: 11/08/22				
Arsenic	240	ug/L		250.0	ND	96	75-125	1	20
Boron	2340	ug/L		2500	7.96	93	75-125	0.2	20
Cadmium	259	ug/L		250.0	0.115	103	75-125	0.6	20
Lead	234	ug/L		250.0	ND	94	75-125	0.08	20
Manganese	328	ug/L		250.0	91.9	95	75-125	0.3	20
Matrix Spike Dup (B248350-MSD2)		Sample: FJ05206-25			Prepared: 11/07/22 Analyzed: 11/08/22				
Arsenic	238	ug/L		250.0	ND	95	75-125	0.3	20
Boron	2380	ug/L		2500	15.6	95	75-125	1	20
Cadmium	264	ug/L		250.0	ND	106	75-125	0.5	20
Lead	234	ug/L		250.0	ND	94	75-125	0.1	20
Manganese	302	ug/L		250.0	61.2	96	75-125	0.2	20
<u>Batch B248458 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B248458-CCB1)		Prepared & Analyzed: 11/04/22							
Chloride	0.00	mg/L							
Sulfate	0.00	mg/L							



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B248458 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Check (B248458-CCV1)				Prepared & Analyzed: 11/04/22					
Chloride	4.92	mg/L		5.000		98	90-110		
Sulfate	5.02	mg/L		5.000		100	90-110		
Matrix Spike (B248458-MS1)				Sample: FJ04795-13 Prepared & Analyzed: 11/04/22					
Sulfate	1.00E9	mg/L	Q4	1.500	33.3	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	18	NR	80-120		
Matrix Spike (B248458-MS2)				Sample: FJ04795-17 Prepared & Analyzed: 11/04/22					
Chloride	5.0	mg/L	Q1	1.500	5.0	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	40.2	NR	80-120		
Matrix Spike Dup (B248458-MSD1)				Sample: FJ04795-13 Prepared & Analyzed: 11/04/22					
Sulfate	1.00E9	mg/L	Q4	1.500	33.3	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	18	NR	80-120	0	20
Matrix Spike Dup (B248458-MSD2)				Sample: FJ04795-17 Prepared & Analyzed: 11/04/22					
Chloride	4.9	mg/L	Q2	1.500	5.0	NR	80-120	0.6	20
Sulfate	1.00E9	mg/L	Q4	1.500	40.2	NR	80-120	0	20
<u>Batch B248518 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B248518-CCB1)				Prepared & Analyzed: 11/07/22					
Sulfate	0.00	mg/L							
Chloride	0.215	mg/L							
Calibration Check (B248518-CCV1)				Prepared & Analyzed: 11/07/22					
Chloride	4.87	mg/L		5.000		97	90-110		
Sulfate	5.09	mg/L		5.000		102	90-110		
<u>Batch B248529 - 6020 Sol no prep - EPA 6020A</u>									
Blank (B248529-BLK1)				Prepared & Analyzed: 11/08/22					
Boron	< 10	ug/L							
Calcium	< 0.10	mg/L							
LCS (B248529-BS1)				Prepared & Analyzed: 11/08/22					
Boron	2490	ug/L		2500		99	80-120		
Calcium	25.1	mg/L		25.00		100	80-120		
<u>Batch B248663 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B248663-CCB1)				Prepared & Analyzed: 11/08/22					
Chloride	0.786	mg/L							
Sulfate	0.00	mg/L							
Calibration Check (B248663-CCV1)				Prepared & Analyzed: 11/08/22					
Sulfate	4.95	mg/L		5.000		99	90-110		
Chloride	4.88	mg/L		5.000		98	90-110		
<u>Batch B248926 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B248926-CCB1)				Prepared & Analyzed: 11/10/22					
Sulfate	0.0177	mg/L							
Chloride	0.234	mg/L							
Calibration Check (B248926-CCV1)				Prepared & Analyzed: 11/10/22					



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B248926 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Check (B248926-CCV1)				Prepared & Analyzed: 11/10/22					
Sulfate	5.00	mg/L		5.000		100	90-110		
Chloride	4.92	mg/L		5.000		98	90-110		
Matrix Spike (B248926-MS1)				Sample: FJ05206-02 Prepared & Analyzed: 11/10/22					
Chloride	1.0E9	mg/L	Q4	1.500	15	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	71.3	NR	80-120		
Matrix Spike (B248926-MS2)				Sample: FJ05206-25 Prepared & Analyzed: 11/10/22					
Chloride	< 1.0	mg/L	Q4	1.500	29	NR	80-120		
Sulfate	< 1.0	mg/L	Q4	1.500	202	NR	80-120		
Matrix Spike Dup (B248926-MSD1)				Sample: FJ05206-02 Prepared & Analyzed: 11/10/22					
Chloride	1.0E9	mg/L	Q4	1.500	15	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	71.3	NR	80-120	0	20
Matrix Spike Dup (B248926-MSD2)				Sample: FJ05206-25 Prepared & Analyzed: 11/10/22					
Sulfate	1.00E9	mg/L	Q4	1.500	202	NR	80-120		20
Chloride	< 1.0	mg/L	Q4	1.500	29	NR	80-120		20
<u>Batch B248961 - No Prep - SM 4500F C 1997</u>									
Calibration Blank (B248961-CCB1)				Prepared & Analyzed: 11/12/22					
Fluoride	0.0170	mg/L							
Calibration Blank (B248961-CCB2)				Prepared & Analyzed: 11/12/22					
Fluoride	0.0180	mg/L							
Calibration Check (B248961-CCV1)				Prepared & Analyzed: 11/12/22					
Fluoride	0.691	mg/L		0.7000		99	90-110		
Calibration Check (B248961-CCV2)				Prepared & Analyzed: 11/12/22					
Fluoride	0.697	mg/L		0.7000		100	90-110		
<u>Batch B248964 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B248964-CCB1)				Prepared & Analyzed: 11/11/22					
Sulfate	0.00	mg/L							
Chloride	0.236	mg/L							
Calibration Check (B248964-CCV1)				Prepared & Analyzed: 11/11/22					
Chloride	5.00	mg/L		5.000		100	90-110		
Sulfate	5.04	mg/L		5.000		101	90-110		
Matrix Spike (B248964-MS1)				Sample: FJ05400-01 Prepared & Analyzed: 11/12/22					
Chloride	8.9	mg/L		1.500	7.1	118	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	72.1	NR	80-120		
Matrix Spike (B248964-MS2)				Sample: FJ05400-03 Prepared & Analyzed: 11/12/22					
Chloride	1.0E9	mg/L	Q4	1.500	13	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	46.2	NR	80-120		
Matrix Spike Dup (B248964-MSD1)				Sample: FJ05400-01 Prepared & Analyzed: 11/12/22					
Chloride	9.0	mg/L	Q2	1.500	7.1	125	80-120	1	20
Sulfate	1.00E9	mg/L	Q4	1.500	72.1	NR	80-120	0	20
Matrix Spike Dup (B248964-MSD2)				Sample: FJ05400-03 Prepared & Analyzed: 11/12/22					
Chloride	1.0E9	mg/L	Q4	1.500	13	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	46.2	NR	80-120	0	20



QC SAMPLE RESULTS

Parameter	Result	Unit	Qual	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>Batch B248967 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B248967-CCB1)				Prepared & Analyzed: 11/11/22					
Sulfate	0.00	mg/L							
Chloride	0.483	mg/L							
Calibration Check (B248967-CCV1)				Prepared & Analyzed: 11/11/22					
Sulfate	4.97	mg/L		5.000		99	90-110		
Chloride	4.77	mg/L		5.000		95	90-110		
<u>Batch B249053 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B249053-CCB1)				Prepared & Analyzed: 11/13/22					
Chloride	0.00	mg/L							
Calibration Check (B249053-CCV1)				Prepared & Analyzed: 11/13/22					
Chloride	4.95	mg/L		5.000		99	90-110		
<u>Batch B249814 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B249814-CCB1)				Prepared & Analyzed: 11/21/22					
Sulfate	0.00	mg/L							
Calibration Check (B249814-CCV1)				Prepared & Analyzed: 11/21/22					
Sulfate	4.85	mg/L		5.000		97	90-110		
<u>Batch B249924 - IC No Prep - EPA 300.0 REV 2.1</u>									
Calibration Blank (B249924-CCB1)				Prepared & Analyzed: 11/22/22					
Chloride	0.190	mg/L							
Calibration Check (B249924-CCV1)				Prepared & Analyzed: 11/22/22					
Chloride	5.47	mg/L		5.000		109	90-110		



NOTES

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

* Not a TNI accredited analyte

Certifications

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

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

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

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

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

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

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

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

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

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

USEPA DMR-QA Program

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

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

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

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

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

Qualifiers

- H Test performed after the expiration of the appropriate regulatory/advisory maximum allowable hold time.
- M Analyte failed to meet the required acceptance criteria for duplicate analysis.
- Q1 Matrix Spike failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q2 Matrix Spike Duplicate failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q3 Matrix Spike/Matrix Spike Duplicate both failed % recovery acceptance limits. The associated blank spike recovery was acceptable.
- Q4 The matrix spike recovery result is unusable since the analyte concentration in the sample is greater than four times the spike level. The associated blank spike was acceptable.
- R Matrix Spike/Matrix Spike Duplicate Failed %Relative Percent Difference criterion.

Gail G Schindler

Certified by: Gail Schindler, Project Manager



CHAIN-OF-CUSTODY / Analytical Request Document

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

FJ0479520 *AB*

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 1 of 8	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey			
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A			
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:			
Requested Due Date/TAT: standard		Project Number: 2285		Project Manager:			
				Profile #:			

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location	IL	
STATE:		

Section D Required Client Information		Valid Matrix Codes MATRIX CODE		COLLECTED		Preservatives		Requested Analysis Filtered (Y/N)										Project No./ Lab I.D.						
ITEM #	SAMPLE ID (A-Z, 0-9 / .)	MATRIX	CODE	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	Analysis Test ↓	DC_257_203	DC_257_204	DC_257_205	DC_WPCP_203-206	DC_Closure_201-202	DC_811_204	Residual Chlorine (Y/N)	
1	BA01	DRINKING WATER	DW	10/26/22	1536		1																	
2	BA03	WASTE WATER	WW	10/26/22	1509		1																	
3	G02L	PRODUCT	P																					
4	G03L	SOIL/SOLID	SL	10/26/22	1135		4																	
5	G04L	OIL	CL																					
6	G06L	WPE	WP																					
7	G07L	AIR	AR																					
8	G08L	OTHER	OT																					
9	G09L	TISSUE	TS																					
10	G12L																							
11	G12S																							
12	G14L																							
13	G15L																							
14	G16L																							
15	G50L																							
16	G50S																							

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
DC-Q4-2022		Joseph R Reed		10/26/22		17:02		Joe Reed		10-27-22		7:00-31			

SAMPLER NAME AND SIGNATURE		DATE Signed (MM/DD/YY)		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:		10/26/22					
SIGNATURE of SAMPLER:							

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Company: **Vistra Corp**

Address: 13498 E. 900th St

Email To: Brian.Voelker@VistraCorp.com

Phone: (217) 753-8911

Fax:

Requested Due Date/TAT:

standard

Section B

Required Project Information:

Report To: **Brian Voelker**

Copy To: Jason Stuckey

Purchase Order No.:

Project Name:

Project Number: 2285

Section C

Invoice Information:

Attention: Jason Stuckey

Company Name: **Vistra Corp**

Address: see Section A

Quote	
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References

Project Manager

Profile #:

Figure #.

REGULATORY AGENCY

NPDES

GROUND WATER

DRINKING WATER

UST

RCRA

OTHER

Site Location

IL

STATE:

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Valid Matrix Codes <u>MATRIX</u> DRINKING WATER DW WASTE WATER WT PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ 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			
1	G59L				10/26/22	1509		2											
2	G59S				10/26/22	1358		2											
3	G60L																		
4	G60S																		
5	G61S																		
6	G62L																		
7	G63L																		
8	G63S																		
9	G64L																		
10	G64S																		
11	G65L				10/26/22	1549		2											
12	G65S				10/26/22	1508		2											
13	G66L																		
14	G66S				10/26/22	1227		2→										Dry / no sample	
15	G67L																		
16	G67S				10/26/22	1131		2→										Dry / no sample	
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS						
DC-Q4-2022			Joseph R Reed			10/26/22	1700	<i>[Signature]</i>			10-27-22	7:00	3.1						
SAMPLER NAME AND SIGNATURE																			
PRINT Name of SAMPLER:								Joe Reed											
SIGNATURE of SAMPLER:								<i>[Signature]</i>											
								DATE Signed (MM/DD/YYYY):		10/26/22									
								Temp in °C				Received on lot (Y/N)							
								Custody Sealed Cooler (Y/N)				Samples Intact (Y/N)							

FJ 04705-20

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 4 of 8	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey			
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		REGULATORY AGENCY	
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		NPDES GROUND WATER DRINKING WATER	
Requested Due Date/TAT: standard		Project Number: 2285		Project Manager:		UST RCRA OTHER	
				Profile #:		Site Location	
						STATE: IL	

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		DC_257_203	DC_257_204	DC_257_205	DC_WPCP_203-206	DC_Closure_201-202	DC_811_204				
1	G70L				10/26/22	1421		2																			
2	G71L				10/26/22																						
3	G71S				10/26/22	1344		2																			
4	G72L																										
5	G73L																										
6	L103																										
7	OM01																										
8	OM04S																										
9	OM05S DTW only																										
10	OM07																										
11	OM08 DTW only																										
12	OM09																										
13	OM10																										
14	OM12																										
15	OM15 DTW only																										
16	OM16																										

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
DC-Q4-2022		Joseph R Reed		10/26/22		1500		[Signature]		10/27/22		7:00		3.1	

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on lbs (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER: [Signature]					
DATE Signed (MM/DD/YY): 10/26/22					

FJ04725-20

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Company: **Vistra Corp**
 Address: **13498 E. 900th St**
 Email To: **Brian.Voelker@VistraCorp.com**
 Phone: **(217) 753-8911** Fax:
 Requested Due Date/TAT: **standard**

Section B

Required Project Information:

Report To: **Brian Voelker**
 Copy To: **Jason Stuckey**
 Purchase Order No.:
 Project Name:
 Project Number: **2285**

Section C

Invoice Information:

Attention: **Jason Stuckey**
 Company Name: **Vistra Corp**
 Address: **see Section A**
 Quote Reference:
 Project Manager:
 Profile #:

Page: **6** of **8**

REGULATORY AGENCY

NPDES **GROUND WATER** DRINKING WATER
 UST RCRA OTHER
 Site Location
 STATE: **IL**

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.
ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	DRINKING WATER WATER WASTE WATER PRODUCT SOIL/SOLID OIL WPE AIR OTHER TISSUE	DW WT WW P SL OL WP AR OT TS			DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other	DC_257_203	DC_257_204		DC_257_205	DC_WPCP_203-206	DC_Closure_201-202	DC_811_204								
1	OR13D					10/26/22	1427	2																								
2	OR13S					10/26/22	1400	2																								
3	OR14D																															
4	OR14S DTW only																															
5	OR18 L																															
6	OR19																															
7	OR20																															
8	P01I DTW only																															
9	P01L																															
10	P01S																															
11	P02D																															
12	P02S																															
13	P04S																															
14	P05D																															
15	P05L																															
16	P05S																															
ADDITIONAL COMMENTS DC-Q4-2022				RELINQUISHED BY / AFFILIATION <i>Jason R Paul</i>				DATE 10/26/22		TIME 1700		ACCEPTED BY / AFFILIATION <i>Jason R Paul</i>				DATE 10/26/22		TIME 700		SAMPLE CONDITIONS 31												
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: <i>Jason R Paul</i>										DATE Signed (MM/DD/YY): 10/26/22										Temp in °C		Received on Ice (Y/N)		Custody Sealed Cooler (Y/N)		Samples Intact (Y/N)						

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 5 of 8	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey			
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		REGULATORY AGENCY	
Phone: (217) 753-8911		Project Name:		Quote Reference:		NPDES GROUND WATER DRINKING WATER	
Fax:		Project Number: 2285		Project Manager:		UST RCRA OTHER	
Requested Due Date/TAT: standard				Profile #:		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	DC_257_203	DC_257_204		DC_257_205	DC_811_204	DC_Closure_201-202	DC_WPCP_203-206								
1	OM17																														
2	OM21				10/26/22	1029																									
3	OM22D																														
4	OM22S																														
5	OM23D																														
6	OM23S																														
7	OM24D																														
8	OM25D																														
9	OM25S																														
10	OR02																														
11	OR03D																														
12	OR03S																														
13	OR04D																														
14	OR05D																														
15	OR06A																														
16	OR11																														

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
DC-Q4-2022		11/28/22		Joseph Reed		10/26/22		1700		Joseph Reed		10/27/22		7:00	

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: Joseph Reed					
SIGNATURE of SAMPLER: Joseph Reed					
DATE Signed (MM/DD/YY): 10/26/22					

4922

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Page: 1 of 8

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 8

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

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		DC_257_203	DC_257_204	DC_257_205	DC_WPCP_203-206	DC_Closure_201-202	DC_811_204						
1	G51L	WT	G	10/27/22	12:13	0																							
2	G51S	WT	G	10/27/22	12:05	2	X	X																					
3	G52L	WT	G	10/27/22	10:07	2	X	X																					
4	G52S	WT	G	10/27/22	10:31	0																							
5	G53L																												
6	G53S	WT	G	10/27/22	14:52	2	X	X																					
7	G54L																												
8	G54S																												
9	G55L																												
10	G55S																												
11	G56L																												
12	G56S																												
13	G57L																												
14	G57S	WT	G	10/27/22	15:36	2	X	X																					
15	G58L																												
16	G58S																												

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS			
DC-Q4-2022				10/27		1737				10/27/22		1737		3.2 X N X			

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YY): 10/27/2022					

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Section C
Invoice Information:

Page: 4 of 8

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

[illegible]

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

Required Client Information:

Company:	Vistra Corp
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Company:	Vistra Corp
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Address: 13498 E. 900th St

Address: 13498 E. 900th St

Email To: Brian.Voelker@VistraCorp.com

Email To: Brian.Voelker@VistraCorp.com

Phone: (217) 753-8911

Fax:

Requested Due Date/TAT:

standard

Required Project Information:

Report To: Brian Voelker

Copy To:	Jason Stuckey
----------	---------------

Purchase Order No.:	
---------------------	--

Project Name:

Project Number: 2285

Invoice Information:

Attention: Jason Stuckey

Company Name:	Vistra Corp
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Address: see Section A

Quote	
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Project	
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Profile #:	
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Page: 5 of 8

REGULATORY AGENCY

NPDES	GROUND WATER	DRINKING WATER
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UST	RCRA	OTHER
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Site Location

IL

STATE:

Requested Analysis Filtered (Y/N)

114

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

Page: 7 of 8

APP 10/27/22

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 8 of 8	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey			
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp			
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		REGULATORY AGENCY	
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		NPDES GROUND WATER DRINKING WATER	
Requested Due Date/TAT: standard		Project Number: 2285		Project Manager:		UST RCRA OTHER	
				Profile #:		Site Location	
						STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	Valid Matrix Codes CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No. / Lab I.D.
				DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		DC_257_203	DC_257_204	DC_257_205	DC_WPCP_203-206	DC_Closure_201-202	DC_811_204						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-Q4-2022		10/27	1737		10/27/22	1737	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
							3.2	Y	N	Y

SAMPLER NAME AND SIGNATURE		DATE Signed (MM/DD/YYYY): 10/27/22
PRINT Name of SAMPLER: Aaron Pemberton	SIGNATURE of SAMPLER:	



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Page: 2 of 8

ITEM #	Section D Required Client Information	Valid Matrix Codes <u>MATRIX</u> <u>CODE</u> DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ Y/N ↑	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		DC_257_203	DC_257_204	DC_257_205	DC_WPCP_203-206	DC_Closure_201-202	DC_811_204					
1	G51L																											
2	G51S																											
3	G52L																											
4	G52S																											
5	- G53L		G	10/28/22	1056		2	X	X																			
6	G53S																											
7	G54L																											
8	G54S																											
9	G55L																											
10	G55S																											
11	G56L																											
12	G56S																											
13	- G57L		G	10/28/22	1244		2	X	X																			
14	G57S																											
15	- G58L		G	10/28/22	1140		2	X	X																			
16	- G58S		G	10/28/22	1214		2	X	X																			
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE	TIME	ACCEPTED BY / AFFILIATION							DATE	TIME	SAMPLE CONDITIONS											
DC-Q4-2022						10/28	1607								10/28/22	1607	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:	<i>Harun Pemberton</i>				
SIGNATURE of SAMPLER:	DATE Signed (MM/DD/YY): <i>30 Aug 12</i>				

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

Page: 3 of 8

Required Client Information:

Company: **Vistra Corp**

Address: 13498 E. 900th St

Email To: Brian.Voelker@VistraCorp.com

Phone: (217) 753-8911

Fax:

Requested Due Date/TAT:

standard

Required Project Information:

Report To: Brian Voelker

Copy To: Jason Stuckey

Purchase Order No.:

Project Name:

Project Number: 2285

Invoice Information:

Attention: Jason Stuckey

Company Name:	Vistra Corp
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Address: see Section A

Quote	
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Project	
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Profile #:

Requested Analysis Filtered (Y/N)

[illegible]

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 4 of 8

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

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analysis Test ↓	Y/N	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	DC_257_203	DC_257_204					DC_257_205	DC_WPCP_203-206	DC_Closure_201-202	DC_811_204
1	G70L																									
2	G71L																									
3	G71S																									
4	G72L				10/28/22	1315																				
5	G73L																									
6	L103																									
7	→ OM01				10/28/22	1146		3	X	X																
8	OM04S																									
9	OM05S																									
10	→ OM07				10/28/22	1340		2	X	X																
11	OM08																									
12	OM09																									
13	OM10																									
14	→ OM12				10/28/22	1317		2	X	X																
15	OM15																									
16	OM16																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-Q4-2022		10/28	1607		10/28/22	1607	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:					
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YYYY): 10/28/22					

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: 5 of 8	
Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey			
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp		REGULATORY AGENCY	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Address: see Section A		NPDES GROUND WATER DRINKING WATER	
Phone: (217) 753-8911 Fax:		Project Name:		Quote Reference:		UST RCRA OTHER	
Requested Due Date/TAT: standard		Project Number: 2285		Project Manager:		Site Location	
				Profile #:		STATE: IL	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)	Project No./ Lab I.D.							
					DATE	TIME			Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other		DC_257_203	DC_257_204	DC_257_205	DC_WPCP_203-206	DC_Closure_201-202	DC_811_204													
1	OM17																																			
2	OM21																																			
3	OM22D		WT	G	10/28/22	1020	2	X	X																											
4	OM22S																																			
5	OM23D		WT	G	10/28/22	1152	2	X	X																											
6	OM23S																																			
7	OM24D		WT	G	10/28/22	1230	2	X	X																											
8	OM25D																																			
9	OM25S		WT	G	10/28/22	1241	2	X	X																											
10	OR02		WT	G	10/28/22	1220	2	X	X																											
11	OR03D		WT	G	10/28/22	1520	2	X	X																											
12	OR03S																																			
13	OR04D																																			
14	OR05D																																			
15	OR06A																																			
16	OR11																																			
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE		TIME		ACCEPTED BY / AFFILIATION			DATE		TIME		SAMPLE CONDITIONS																			
DC-Q4-2022						10/28		1607					10/28/22		1607		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:					
SIGNATURE of SAMPLER:					
DATE Signed (MM/DD/YY): 10/28/22					

REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

SAMPLE COLLECTED IN THE STATE OF

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

[illegible]



PACE ANALYTICAL SERVICES
WWW.PACELABS.COM

REGULATORY PROGRAM (CIRCLE):	NPDES
MORBCA	RCRA
CCDD	TACO: RES OR IND/COMM

CHAIN OF CUSTODY RECORD

SAMPLE COLLECTED IN THE STATE OF _____

ALL HIGHLIGHTED AREAS MUST BE COMPLETED BY CLIENT (PLEASE PRINT)

1 CLIENT Vistra Duck Creek CITY STATE ZIP CONTACT PERSON		PROJECT NUMBER		PROJECT LOCATION		PURCHASE ORDER #		3 ANALYSIS REQUESTED		4 (FOR LAB USE ONLY) LOGIN # EJ05400-04 LOGGED BY: SAI CLIENT: PROJECT: Gail S. PROJ. MGR.: CUSTODY SEAL #:		
2 SAMPLE DESCRIPTION (UNIQUE DESCRIPTION AS IT WILL APPEAR ON THE ANALYTICAL REPORT)		DATE COLLECTED	TIME COLLECTED	SAMPLE TYPE GRAB COMP	MATRIX TYPE	BOTTLE COUNT	PRES CODE CLIENT PROVIDED					REMARKS
G 605		10/31/22	1219	X	GW	2						
G 62L			1130	X		2						
G 71L			1000	X		2						
G 73L			1051	X		5						
CHEMICAL PRESERVATION CODES: 1 - HCL 2 - H2SO4 3 - HNO3 4 - NAOH 5 - NA2S2O3 6 - UNPRESERVED 7 - OTHER												
5 TURNAROUND TIME REQUESTED (PLEASE CIRCLE) NORMAL RUSH (RUSH TAT IS SUBJECT TO PACE LABS APPROVAL AND SURCHARGE) RUSH RESULTS VIA (PLEASE CIRCLE) EMAIL PHONE EMAIL IF DIFFERENT FROM ABOVE: PHONE # IF DIFFERENT FROM ABOVE:				DATE RESULTS NEEDED		6 I understand that by initialing this box I give the lab permission to proceed with analysis, even though it may not meet all sample conformance requirements as defined in the receiving facility's Sample Acceptance Policy and the data will be qualified. Qualified data may <u>NOT</u> be acceptable to report to all regulatory authorities. PROCEED WITH ANALYSIS AND QUALIFY RESULTS: (INITIALS) _____						
7 RELINQUISHED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE) RELINQUISHED BY: (SIGNATURE)		DATE TIME 10/31/22 1609		RECEIVED BY: (SIGNATURE) RECEIVED BY: (SIGNATURE) RECEIVED BY: (SIGNATURE)		DATE TIME 10/31/22 1609		8 COMMENTS: (FOR LAB USE ONLY) SAMPLE TEMPERATURE UPON RECEIPT 47 °C TEMPERATURE GUN ID CHILL PROCESS STARTED PRIOR TO RECEIPT Y OR N SAMPLE(S) RECEIVED ON ICE Y OR N SAMPLE ACCEPTANCE NONCONFORMANT REPORT IS NEEDED Y OR N DATE AND TIME TAKEN FROM SAMPLE BOTTLE				

Duck Creek

WELL/SAMPLE POINT G73L

Purge Method: bladder

Date: 10/31/22

Start Time: 1010

Finish/Sample Time: 1051

Well Depth (Bottom) From MP: 37.70 ft

Min. Purge Volume: 1.5 Gal ☒ L

Depth to Water From MP: 30.77 ft

Total Purge Volume: 1.8 Gal ☒ L

Water Column Length: 6.93 ft

Max Drawdown: — ft

Well Water Volume: 4.19 Gal ☒ L

Total Drawdown: 0.04 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1025	30.80	100	6.68	1809	14.90	236.8	2.33	8.6
2	1026	30.80	100	6.68	1815	14.95	243.1	2.26	6.1
3	1027	30.80	100	6.68	1816	14.96	244.9	2.20	5.2
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 30.81 ft

Comments

Sampler's Signature: Joseph R Red

Duck Creek

WELL/SAMPLE POINT G71L

Purge Method: bailer

Date: 10/31/22

Start Time: 935

Finish/Sample Time: 1000

Well Depth (Bottom) From MP: 32.66 ft

Min. Purge Volume: 0.5 Gal/L

Depth to Water From MP: 29.83 ft

Total Purge Volume: 1.5 Gal/L

Water Column Length: 2.83 ft

Max Drawdown: — ft

Well Water Volume: 1.71 Gal/L

Total Drawdown: — ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	945	30.91	1 bail	6.58	1183	13.77	158.0	4.00	71000
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☒ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 30.79 ft

Comments

Sampler's Signature: Joseph R. Reed

Duck Creek

WELL/SAMPLE POINT G62L

Purge Method: port. ble pump

Date: 10/31/22

Start Time: 1110

Finish/Sample Time: 1130

Well Depth (Bottom) From MP: 33.57 ft

Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 26.59 ft

Total Purge Volume: 1.8 Gal / L

Water Column Length: 6.98 ft

Max Drawdown: — ft

Well Water Volume: 422 Gal 10

Total Drawdown: 121 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	1129	26.99	100	6.60	1011	14.06	119.8	1.65	144
2	1130	27.10	100	6.60	1012	14.07	119.4	1.41	162
3	1131	27.22	100	6.60	1007	14.10	115.1	1.23	169
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 27.80 ft

Comments

Sampler's Signature: Joseph R Red

Duck Creek

WELL/SAMPLE POINT **G60S**

Purge Method: Bladder

Date: 10/28/22 Start Time: 1042 Finish/Sample Time: 1218

Well Depth (Bottom) From MP: 39.20 ft Min. Purge Volume: 1.5 Gal (L)

Depth to Water From MP: 28.15 ft 28.05 ft Total Purge Volume: 1.9 Gal / L

Water Column Length: 11.05 ft 11.15 ft Max Drawdown: — ft

Well Water Volume: 6.69 Gal (L) 6.74 L Total Drawdown: — ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1058	28.04	100	6.57	797	12.82	-1.1	1.34	490
2	1059	28.04	100	6.57	799	12.82	-4.9	1.11	555
3	1200	28.04	100	6.57	800	12.82	-5.0	0.0	501
4	1201	28.04	100	6.57	801	12.82	-6.2	0.0	493
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 28.04 ft

Comments: Could not get any water to purge with bladder pump

Sampler's Signature: Brendan Blum

sampled
10/31/22

Joseph R Reed

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Joe Reed</u>	Location: <u>Duck Creek</u>
Weather:	Environment: <u>Rain Grassy</u>

Multiparameter Water Meter	Make: <u>Hanna</u>	Model:	Serial Number:
Water Level Meter	Make:	Model:	Serial Number:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	L344-09	12/14/2023
pH 7.00a	<u>6.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	L343-07	12/9/2023
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	M082-04	3/25/2024
SC Zero (DI)	<u>4.08</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2021</u>	µS/cm	±5%	<u>P</u>	<u>N</u>		Geotech	1GK328	Nov-22
ORP	<u>240.1</u>	mV	±15 mV	<u>P</u>	<u>N</u>		InSitu	2GC827	Dec-22
DO (Zero pt)	<u>0.01</u>	mg/L	±0.1	<u>P</u>	<u>N</u>		Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.1</u>	%	97-100%	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>930</u>
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Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.00</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC243	Mar-24
pH 7.00b	<u>7.01</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC931	Mar-24
pH 10.00b	<u>10.08</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GE820	May-24
SC 1000	<u>1030</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>1530</u>
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	L315-04	11/22/2023
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	L172-33	6/23/2023
pH 10.00a	<u>10.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	L354-22	1/5/2024
SC 1000	<u>1033</u>	µS/cm	±5%	<u>P</u>	<u>N</u>		Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.1</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>		Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: <u>Joe Reed</u>	Date: <u>10/31/22</u>
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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 1

For K.D.
11/30/22

SAR-3: Plant Sampling and Analysis Request

Event: DC-22Q4

Date Generated: 10/19/2022

Filename: SAR-3 DC Sampling and Analysis Request_22Q4_Rev 0

SAR-3: Depth to Groundwater Measurements

Plant: DC

Event: DC-22Q4

BA01 L 1132 17.93 PL

BA01C 1134 17.47 PL

Well	Unique ID	Date	Time	Depth to Water, ft bmp		Transducer			Initials	Notes
				Manual	Transducer	Serial No.	Batt %	DL		
BA01	DC BA01	11/21/22	1129	17.92					MB	
BA02	DC BA02	11/21/22	1138	13.58						
BA02L	DC BA02!L	11/21/22	1140	11.54						Top of pump
BA03	DC BA03	11/21/22	1145	9.95						
BA03L	DC BA03!L	11/21/22	1148	9.42						
BA04	DC BA04	11/21/22	1151	8.97						
BA05	DC BA05#	11/21/22	1119	24.10						
BA06	DC BA06	11/21/22	1123	29.52						
G02L	DC G02!L	11/21/22		16.09						Top of pump
G02S	DC G02#S	11/21/22		17.42						
G03L	DC G03!L	11/21/22		15.78						
G04L	DC G04!L	11/21/22		15.23						Top of pump 2
G04S	DC G04#S	11/21/22		22.10						
G06L	DC G06!L	11/21/22		12.50						
G06S	DC G06#S	11/21/22		12.53						
G07L	DC G07!L	11/21/22		12.47						Dry
G08L	DC G08!L	11/21/22		21.16						Top of pump
G09L	DC G09!L	11/21/22		21.25						Top of pump
G09S	DC G09#S	11/21/22		22.96						
G12L	DC G12!L	11/21/22		24.40						
G12S	DC G12#S	11/21/22		25.97						
G14L	DC G14!L	11/21/22		26.13						
G15L	DC G15!L	11/21/22		32.84						Top of pump
G15S	DC G15#S	11/21/22		34.80						
G16L	DC G16!L	11/21/22		32.50						
G50L	DC G50!L	11/21/22		11.26						Dry
G50S	DC G50#S	11/21/22		11.22						
G51L	DC G51!L	11/21/22		11.19						Dry

G03S - 15.82 PL

G51S	DC G51#S	11/21/22	1117	20.89						
G52L	DC G52!L	11/21/22	1113	28.86						
G52S	DC G52#S	11/21/22	1110	32.30						
G53L	DC G53!L	11/21/22	1133	19.37						
G53S	DC G53#S	11/21/22	1136	21.00						
G54L	DC G54!L	11/21/22	1059	27.59						
G54S	DC G54#S	11/21/22	1057	27.25						
G55L	DC G55!L	11/21/22	1049	24.08						
G55S	DC G55#S	11/21/22	1051	24.05						
G56L	DC G56!L	11/21/22	1138	24.70						
G56S	DC G56#S	11/21/22	1141	25.34						
G57L	DC G57!L	11/21/22	1145	28.00						
G57S	DC G57#S	11/21/22	1147	27.84						
G58L	DC G58!L	11/21/22	1150	31.98						
G58S	DC G58#S	11/21/22	1152	31.91						
G59L	DC G59!L	11/21/22	1155	32.61						
G59S	DC G59#S	11/21/22	1158	36.62						
G60L	DC G60!L	11/21/22	1204	23.29						
G60S	DC G60#S	11/21/22	1207	28.27						
G61S	DC G61#S	11/21/22	1209	27.65						
G62L	DC G62!L	11/21/22	1213	27.32						
G63L	DC G63!L	11/21/22	1218	27.63						
G63S	DC G63#S	11/21/22	1222	28.25						
G64L	DC G64!L	11/21/22	1231	26.24						
G64S	DC G64#S	11/21/22	1234	27.44						
G65L	DC G65!L	11/21/22	1015	24.80						
G65S	DC G65#S	11/21/22	1013	25.12						
G66L	DC G66!L	11/21/22	1009	21.17						
G66S	DC G66#S	11/21/22	1008	24.35						
G67L	DC G67!L	11/21/22	1000	17.97						
G67S	DC G67#S	11/21/22	1001	20.61						
G68L	DC G68!L	11/21/22	1047	-						
G68S	DC G68#S	11/21/22	1044	18.35						
G69L	DC G69!L	11/21/22	1040	20.45						

App

Dry

Well unable to open

App 11/21/22

		Date	Time	DTW					
G69S	DC G69#S	11/21/22	1038	1038	23.30				APP
G70L	DC G70IL	11/21/22	1034	1034	23.34				
G71L	DC G71IL	11/21/22	1030	1030	30.17				
G71S	DC G71#S	11/21/22	1029	1029	30.64				
G72L	DC G72IL	11/21/22	1025	1025	27.61				
G72S	DC G72#S	11/21/22	1022	1022	32.43				
G73L	DC G73IL	11/21/22	1019	31.20					
L103	DC L103	11/21/22	1553	1.45					
OM01	DC OM01	11/21/22	1407	14.12					
OM04S	DC OM04#S	11/21/22	1333	21.06					
OM05S	DC OM05#S	11/21/22	1227	21.41					
OM07	DC OM07	11/21/22	1213	12.97					
OM08	DC OM08	11/21/22	1157	15.85					
OM09	DC OM09	11/21/22	1348	5.64					
OM10	DC OM10	11/21/22	1030	11.85					
OM12	DC OM12	11/21/22	1205	16.83					
OM15	DC OM15	11/21/22	1305	22.15					
OM16	DC OM16	11/21/22	1100	23.33	23.33	APP	11/21/22		
OM17	DC OM17	11/21/22	1048	13.34					
OM21	DC OM21	11/21/22	1314	11.97					
OM22D	DC OM22&D	11/21/22	1357	20.95					
OM22S	DC OM22#S	11/21/22	1401	21.35					
OM23D	DC OM23&D	11/21/22	1430	39.33					
OM23S	DC OM23#S	11/21/22	1434	42.63					
OM24D	DC OM24&D	11/21/22	1445	4.48					
OM25D	DC OM25&D	11/21/22	1457	58.15					
OM25S	DC OM25#S	11/21/22	1455	58.24					
OR02	DC OR02	11/21/22	1436	7.80					
OR03D	DC OR03&D	11/21/22	1604	44.80					
OR03S	DC OR03#S	11/21/22	1602	45.24					
OR04D	DC OR04&D	11/21/22	1335	21.60					
OR05D	DC OR05&D	11/21/22	1226	22.41					
OR06A	DC OR06IA	11/21/22	1219	14.69					
OR11	DC OR11	11/21/22	1244	32.87					

OR13D	DC OR13&D	11/21/22	1232	14.04						
OR13S	DC OR13#S	11/21/22	1234	14.21						
OR14D	DC OR14&D	11/21/22	1310	10.95						
OR14S	DC OR14#S	11/21/22	1314	9.04						
OR18	DC OR18	11/21/22	1108	18.58						
OR19	DC OR19	11/21/22	1208	26.08						
OR20	DC OR20	11/21/22	1240	22.76						
P01I	DC P01\$I	11/21/22		19.56						
P01L	DC P01!L	11/21/22		19.41						
P01S	DC P01#S	11/21/22		19.01						
P02D	DC P02&D	11/21/22		27.67						
P02S	DC P02#S	11/21/22		22.05						
P04S	DC P04#S	11/21/22		-						Same as 604S
P05D	DC P05&D	11/21/22		8.13						
P05L	DC P05!L	11/21/22		7.24						
P05S	DC P05#S	11/21/22		7.32						
P36D	DC P36&D	11/21/22		13.50						
P36L	DC P36!L	11/21/22		13.00						
P36S	DC P36#S	11/21/22		13.15						
P37D	DC P37&D	11/21/22		17.53						Top of pump
P37L	DC P37!L	11/21/22		14.51						
P38L	DC P38!L	11/21/22		19.43						
P38S	DC P38#S	11/21/22		21.30						
P39D	DC P39&D	11/21/22		15.76						
P39L	DC P39!L	11/21/22		11.55						
P39S	DC P39#S	11/21/22		11.55						
P40L	DC P40!L	11/21/22		20.23						
P40S	DC P40#S	11/21/22		19.48						
P41D	DC P41&D	11/21/22		36.82						
P41I	DC P41\$I	11/21/22		15.83						
P41L	DC P41!L	11/21/22		11.90						
P41S	DC P41#S	11/21/22		15.50						
P42D	DC P42&D	11/21/22		39.72						
P42I	DC P42\$I	11/21/22		14.50						

P42I2 35.26 PL

P41I2 37.03 SL

P42L	DC P42!L	11/21/22		13.44						
P42S	DC P42#S	11/21/22		14.12						
R10L	DC R10!L	11/21/22		24.40						
R11L	DC R11!L	11/21/22		23.90						
R13L	DC R13!L	11/21/22		25.15						
R61L	DC R61!L	11/21/22		27.09						
R72S	DC R72#S	11/21/22		32.43						
T43L	DC T43!L	11/21/22		9.30						
T44L	DC T44!L	11/21/22		13.16						
T45L	DC T45!L	11/21/22		11.01						
T46L	DC T46!L	11/21/22		13.04						
X301	DC X301 leachate	11/21/22	1608	—						
XTPW02	DC XTPW02 pore	11/21/22	1600	7.00						

13/1

pump screen not working
dry

DUCK CREEK CCR

WELL

BA01

Purge Method:

Bladder

Date:

10/26/22

Start Time:

1519

Finish/Sample Time:

1536

Well Depth (Bottom) From MP:

18.00 ft

Min. Purge Volume:

1.5 Gal / L

Depth to Water From MP:

17.90 ft

Total Purge Volume:

1.8 Gal / L

Water Column Length:

— ft

Max Drawdown:

— ft

Well Water Volume:

— Gal / L

Total Drawdown:

0.12 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1530	18.00	100	6.91	1014	13.45	39.8	2.02	36.7
2	1531	18.00	100	6.91	1013	13.48	32.7	2.06	30.7
3	1532	18.00	100	6.91	1015	13.37	30.1	2.20	28.1
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW:

18.02

ft

Comments

Sampler's Signature:

Joseph R Rad

DUCK CREEK CCR

WELL

BA03

Purge Method:

bladder

Date:

10/26/22

Start Time:

1449

Finish/Sample Time:

1509

Well Depth (Bottom) From MP:

Pump ft

Min. Purge Volume:

1.0 Gal ☒

Depth to Water From MP:

10.24 ft

Total Purge Volume:

1.6 Gal ☒

Water Column Length:

— ft

Max Drawdown:

— ft

Well Water Volume:

— Gal / L

Total Drawdown:

0.48 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	1500	10.72	100	6.99	834	15.18	72.0	1.24	163
2	1502	10.72	100	6.99	836	15.20	75.9	1.30	148
3	1504	10.72	100	6.98	834	15.21	76.6	1.38	172
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW:

10.72 ft

Comments

Sampler's Signature:

Joseph R Red

WELL/SAMPLE POINT

G12S

Date: 11/30/22 Start Time: 1004 Finish/Sample Time: 1050

Well Depth (Bottom) From MP: 36.72 ft
Depth to Water From MP: 26.21 ft Well Water Volume: 6.36 L/GAL
Water Column Length: 10.51 ft Total Purge Volume: 1.5 L/GAL

Reading	Time	pH	Spec Con	Temp	Turb	DO	ORP
(Units)		(s.u.)	(umhos/cm)	(deg C)	(NTU)	(mg/L)	(mV)
1	1039	7.41	—	7.90	—	—	—
2	1040	7.44	—	7.30	—	—	—
3	1041	7.43	—	6.60	—	—	—
4							
5							

Sampled with: DAKTON

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

Weather/Environment 26° SUNNY

Remarks: _____

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C.V, 40mL, HCL)
	Phenols (A.G, 250mL, H2SO4)
	O&G (A.G, 1000mL, HCL)
	Metals (P, 250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
1	GEN 500, mL

Filtered	
Qty	Bottles
	Metals (P, 250mL, HNO3)
	Ammonia (P, 250mL, H2SO4)
	General (P, 500mL)
	In-Line Filters Used

Comments _____

Sampler's Signature: [Signature]

Site: Duck Creek Landfill

WELL/SAMPLE POINT G02L

Purge Method: dedicted pump

Date: 26-Oct-22 Start Time: 1159 Finish/Sample Time: 1159

Well Depth (Bottom) From MP: 22.00 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 16.02 ft top of pump Total Purge Volume: _____ Gal / L

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: _____ 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									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments Well dry. Pump starts at 16.02 ft

Sampler's Signature: Austin Morgan

Site: Duck Creek Landfill

WELL/SAMPLE POINT G03L

Purge Method: Submersible

Date: 26-Oct-22 Start Time: 1105 Finish/Sample Time: 1135

Well Depth (Bottom) From MP: 26.70 ft
 Depth to Water From MP: 15.72 ft
 Water Column Length: 10.98 ft
 Well Water Volume: 6.65 Gal 10
 Min. Purge Volume: 1 Gal 10
 Total Purge Volume: AM 1.3 Gal 1.6
 Max Drawdown: ft
 Total Drawdown: 0.49 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1120	16.21	150	7.00	747	13.47	-102.4	3.73	1000
2	1121	16.21	1	6.99	746	13.83	-101.4	3.90	1000
3	1122	16.21	1	6.98	743	13.84	-97.2	3.92	971
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Multiparameter

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☒ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 16.21 ft

Comments

Sampler's Signature: Austin Moore

Site: Duck Creek Landfill

WELL/SAMPLE POINT G04L

Purge Method: dedicated pump

Date: 26-Oct-22 Start Time: 1212 Finish/Sample Time: 1212

Well Depth (Bottom) From MP: 26.60 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 15.33 ft top of pump Total Purge Volume: _____ Gal / L

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments Well dry; pump starts at 15.33 ft

Sampler's Signature: Austin Moore

Site: Duck Creek Landfill

WELL/SAMPLE POINT G06L

Purge Method: _____

Date: 26-Oct-22 Start Time: 1244 Finish/Sample Time: 1244

Well Depth (Bottom) From MP: 25.50 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: dcx ft Total Purge Volume: _____ Gal / L

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)

Final DTW: _____ ft

Comments _____

Sampler's Signature: Austin Moore

Site: Duck Creek Landfill

WELL/SAMPLE POINT G07L

Purge Method: _____

Date: 26-Oct-22 Start Time: _____ Finish/Sample Time: _____

Well Depth (Bottom) From MP: 22.95 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: dry ft Total Purge Volume: _____ Gal / L

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: _____ 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									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments _____

Sampler's Signature: _____

Site: Duck Creek Landfill

WELL/SAMPLE POINT G08L

Purge Method: dedicated pump

Date: 26-Oct-22 Start Time: 1229 Finish/Sample Time: 1229

Well Depth (Bottom) From MP: 23.05 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 21.19 ft top of pump Total Purge Volume: _____ Gal / L

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments Well dry, pump starts at 21.19

Sampler's Signature: Austin Moore

Site: Duck Creek Landfill

WELL/SAMPLE POINT G09L

Purge Method: _____

Date: 26-Oct-22 Start Time: _____ Finish/Sample Time: _____

Well Depth (Bottom) From MP: 23.40 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: dry ft Total Purge Volume: _____ Gal / L

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments _____

Sampler's Signature: Austin Moore

Site: Duck Creek Landfill

WELL/SAMPLE POINT R10L

Purge Method: Bailer

Date: 10/27/22 Start Time: 1028

Finish/Sample Time: 1102

Well Depth (Bottom) From MP: 27.26 ft

Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 24.32 ft

Total Purge Volume: 0.5 Gal / L

Water Column Length: 2.94 ft

Max Drawdown: _____ ft

Well Water Volume: 1.78 Gal 10

Total Drawdown: 1.42 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	1037	24.71	—	7.45	797.51	12.50	108.1	3.00	0.82
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☒ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 25.74 ft

Comments: Well too shallow for submersibles, only took 1 read before samples

Sampler's Signature: Brendan Brown

Site: Duck Creek Landfill

WELL/SAMPLE POINT R11L

Purge Method: Barber

Date: 10/27/22 Start Time: 1107 Finish/Sample Time: 1200

Well Depth (Bottom) From MP: 26.52 ft
 Depth to Water From MP: 23.49 ft
 Water Column Length: 3.03 ft
 Well Water Volume: 1.83 Gal ①
 Min. Purge Volume: 0.5 Gal / L
 Total Purge Volume: 0.5 Gal ①
 Max Drawdown: ft
 Total Drawdown: 0.55 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	1120	23.74	—	7.54	644.64	12.70	105.0	6.50	0.85
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

AT 600

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☒ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

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

BS-1

BOTTLE INFORMATION:

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

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

Final DTW: 24.04 ft

Comments

Water too shallow for submersible, only took one read before sampling.

Sampler's Signature:

Brenda Blum

Site: Duck Creek Landfill

WELL/SAMPLE POINT G12L

Purge Method: Bladder

Date: 10/27/22 Start Time: 1205 Finish/Sample Time: 1301

Well Depth (Bottom) From MP: 27.80 ft
 Depth to Water From MP: 23.91 ft
 Water Column Length: 3.89 ft
 Well Water Volume: 2.36 Gal / (L)
 Min. Purge Volume: 1 Gal / (L)
 Total Purge Volume: 1 Gal / (L)
 Max Drawdown: — ft
 Total Drawdown: 1.02 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1238	24.35	100	7.54	612.56	13.45	-44.9	3.60	1.07
2	1239	24.39	100	7.56	605.97	13.48	-44.1	3.61	1.06
3	1240	24.41	100	7.54	611.62	13.47	-40.8	3.72	1.05
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☒ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 24.93 ft

Comments

Sampler's Signature: [Signature]

Site: Duck Creek Landfill

WELL/SAMPLE POINT R13L

Purge Method: Submersible

Date: 10/27/22 Start Time: 1305 Finish/Sample Time: 1346

Well Depth (Bottom) From MP: 29.92 ft
 Depth to Water From MP: 24.77 ft
 Water Column Length: 5.25 ft
 Well Water Volume: 3.18 Gal (1)
 Min. Purge Volume: 1 Gal (1)
 Total Purge Volume: 1 Gal (1)
 Max Drawdown: - ft
 Total Drawdown: 0.59 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	1323	25.13	100	7.49	710.41	14.29	111.8	3.52	7.38
2	1324	25.13	100	7.48	712.76	14.28	112.7	3.64	6.94
3	1325	25.13	100	7.48	709.03	14.27	113.8	3.48	7.19
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong
 Color: ☐ None ☐ Slight ☐ Mod. ☒ Strong
 Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 25.36 ft

Comments

Sampler's Signature: Brendan Dan

Site: Duck Creek Landfill

WELL/SAMPLE POINT G14L

Purge Method: _____

Date: 10/27/22 Start Time: 1350 Finish/Sample Time: 1355

Well Depth (Bottom) From MP: 26.87 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 26.12 ft Total Purge Volume: _____ Gal / L

Water Column Length: 0.75 ft Max Drawdown: _____ ft

Well Water Volume: 0.45 Gal (L) Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments Insufficient well water volume for sampling

Sampler's Signature: Brandon Blum

Site: Duck Creek Landfill

WELL/SAMPLE POINT G15L

Purge Method: _____

Date: 10/27/22 Start Time: 1423 Finish/Sample Time: 1428

Well Depth (Bottom) From MP: 34.45 ft Min. Purge Volume: _____ Gal / L

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

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments

Well is dry.

Sampler's Signature: _____

Brandon Silva

Site: Duck Creek Landfill

WELL/SAMPLE POINT G16L

Purge Method: ~~Booster~~ Bladder

Date: 10/27/22 Start Time: 1431

Finish/Sample Time: 1504

Well Depth (Bottom) From MP: 36.00 ft

Min. Purge Volume: 0 Gal/L

Depth to Water From MP: 32.36 ft

Total Purge Volume: 250 Gal/L

Water Column Length: 3.64 ft

Max Drawdown: — ft

Well Water Volume: 2.20 Gal

Total Drawdown: 0.28 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	1441	32.52	100	7.71	497.47	13.79	114.7	3.72	1.00
2	1442	32.56	100	7.69	516.40	13.55	117.9	3.63	0.98
3	1443	32.58	100	7.66	487.21	13.52	118.6	3.78	0.84
4	1444	32.61	100	7.65	490.11	13.50	117.0	3.81	0.94
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 32.64 ft

Comments

Water below well screen, only purged to stabilize flow rate

Sampler's Signature: Brendan Blinn

Site: Duck Creek Landfill

WELL/SAMPLE POINT P36L

Purge Method: blowdown

Date: 10/27/2022 Start Time: 1501 Finish/Sample Time: 1531

Well Depth (Bottom) From MP: 18.10 ft
 Depth to Water From MP: 13.44 ft
 Water Column Length: 4.66 ft
 Well Water Volume: 2.82 Gal (L)
 Min. Purge Volume: — Gal / L
 Total Purge Volume: 1000 Gal / L (mL)
 Max Drawdown: — ft
 Total Drawdown: 0.21 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1519	13.65	100	7.01	612	14.17	50.4	7.73	56.3
2	1521	13.65	100	6.98	612	14.12	52.9	7.67	40.2
3	1523	13.65	100	7.00	613	14.12	54.7	7.66	28.6
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 13.65 ft

Comments

Sampler's Signature: [Signature]

Site: Duck Creek Landfill

WELL/SAMPLE POINT P37L

Purge Method: blowdown

Date: 10/27/2022 Start Time: 1235 Finish/Sample Time: 1308

Well Depth (Bottom) From MP: 20.40 ft
 Depth to Water From MP: * > 14.63 ft -top of pump
 Water Column Length: 75.77 ft
 Well Water Volume: 73.44 Gal (L) less than
 Min. Purge Volume: — Gal / L
 Total Purge Volume: 500 Gal / L (m)
 Max Drawdown: — ft
 Total Drawdown: 714.63 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	1248	* 14.63	100	6.48	938	15.80	169.8	12.15	24.4
2	1250	* 14.63	100	6.47	951	15.78	168.8	12.10	56.0
3	1252	* 14.63	100	6.50	932	15.82	163.4	12.07	13.2
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: * 14.63 ft

Comments * top of pump ran out of water after readings

Sampler's Signature: [Signature]

Site: Duck Creek Landfill

WELL/SAMPLE POINT T43L

Purge Method: blowby

Date: 10/27/2022 Start Time: 1045 Finish/Sample Time: 1123

Well Depth (Bottom) From MP: 20.40 ft
 Depth to Water From MP: 9.40 ft
 Water Column Length: 11.00 ft
 Well Water Volume: 6.65 Gal (L)
 Min. Purge Volume: - Gal / L
 Total Purge Volume: 1000 Gal / L mk
 Max Drawdown: - ft
 Total Drawdown: 0.12 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1106	9.47	100	6.72	749	15.01	195.3	0.68	6.4
2	1108	9.47	100	6.72	758	15.01	193.3	0.70	10.4
3	1110	9.48	100	6.72	761	14.97	191.8	0.69	7.4
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 9.52 ft

Comments

Sampler's Signature: [Signature]

Site: Duck Creek Landfill

WELL/SAMPLE POINT T44L

Purge Method: 6/10/10

Date: 10/27/2022 Start Time: 1134 Finish/Sample Time: 1208

Well Depth (Bottom) From MP: 22.65 ft
 Depth to Water From MP: 13.49 ft
 Water Column Length: 9.16 ft
 Well Water Volume: 5.54 Gal (C)
 Min. Purge Volume: — Gal / L
 Total Purge Volume: 1000 Gal / L ml
 Max Drawdown: — ft
 Total Drawdown: 0.14 ft
APP 10/27/22

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	1153	13.60	100	6.84	695	14.36	185.2	2.181	0.0
2	1155	13.62	100	6.83	702	14.35	183.2	1.99	0.6
3	1157	13.63	100	6.81	703	14.40	181.4	1.85	0.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 13.63 ft

Comments

Sampler's Signature: [Signature]

Site: Duck Creek Landfill

WELL/SAMPLE POINT T45L

Purge Method: Blaster

Date: 10/27/2022 Start Time: 1330 Finish/Sample Time: 1359

Well Depth (Bottom) From MP: 15.35 ft Min. Purge Volume: - Gal / L

Depth to Water From MP: 11.39 ft Total Purge Volume: 500 ¹⁰⁰⁰ Gal / L

Water Column Length: 3.96 ft Max Drawdown: - ft

Well Water Volume: 2.40 Gal / L Total Drawdown: 0.20 ft

APP 10/27/22

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	1345	11.58	100	6.79	586	15.18	162.6	2.54	61.6
2	1347	11.60	100	6.79	584	15.12	158.6	2.58	31.2
3	1349	11.62	100	6.76	585	15.11	154.6	2.50	33.4
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Yanner

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 11.59 ft

Comments

Sampler's Signature: [Signature]

Site: Duck Creek Landfill

WELL/SAMPLE POINT T46L

Purge Method: bladder

Date: 10/27/2022 Start Time: 1423 Finish/Sample Time: 1500

Well Depth (Bottom) From MP: 14.70 ft
 Depth to Water From MP: 9.00 ft
 Water Column Length: 5.70 ft
 Well Water Volume: 3.45 Gal ①
 Min. Purge Volume: — Gal / L
 Total Purge Volume: 1000 Gal / L (m)
 Max Drawdown: — ft
 Total Drawdown: 0.20 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	1440	9.20	100	6.88	653	15.17	-106.1	1.32	3.5
2	1442	9.20	100	6.86	652	15.05	-108.9	1.41	4.4
3	1444	9.20	100	6.84	652	15.02	-109.4	1.50	3.1
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 9.20 ft

Comments

Sampler's Signature: [Signature]

Site: Duck Creek Landfill

WELL/SAMPLE POINT L103

Purge Method: bailey

Date: 10/27/2022 Start Time: 1543 Finish/Sample Time: 1557

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

Depth to Water From MP: 2.03 ft Total Purge Volume: — Gal / L

Water Column Length: — ft Max Drawdown: — ft

Well Water Volume: — Gal / L Total Drawdown: — ft

App 10/27/22

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	1549	✓	—	8.01	4311	14.67	56.5	13.12	<1000
2								10.06	
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

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

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	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)
1	Cyanide (P, 250mL, NaOH)
1	Phenols (A,G,250mL, H2SO4)
1	General (P, 250mL) 1000mL
1	Ammonia (P, 250mL, H2SO4)

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

Final DTW: — ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT G50S

Purge Method: dedicated pump

Date: 27-Oct-22 Start Time: 1242 Finish/Sample Time: 1323

Well Depth (Bottom) From MP: 37.30 ft Min. Purge Volume: 1 Gal ☒ 10

Depth to Water From MP: 20.91 ft Total Purge Volume: 1.3 Gal ☒ 10

Water Column Length: 16.79 ft Max Drawdown: — ft

Well Water Volume: 10.17 Gal ☒ 10 Total Drawdown: 3.19 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1305	22.20	100	7.16	670	14.10	46	1.01	6.4
2	1306	22.35	1	7.16	670	14.14	47	0.93	7.6
3	1307	22.68	1	7.16	679	14.24	48	0.98	8.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HoriBa

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 23.70 ft

Comments

Sampler's Signature: Austin Moore

Duck Creek

WELL/SAMPLE POINT G50L

Purge Method: dedicated pump

Date: 27-Oct-22 Start Time: 1237

Finish/Sample Time: 1239

Well Depth (Bottom) From MP: 19.19 ft

Min. Purge Volume: _____ Gal / L

Depth to Water From MP: dry ft

Total Purge Volume: _____ Gal / L

Water Column Length: _____ ft

Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L

Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments _____

Sampler's Signature: Austin Moru

Duck Creek

WELL/SAMPLE POINT G51S

Purge Method: dedicated pump

Date: 27-Oct-22 Start Time: 1132 Finish/Sample Time: 1205

Well Depth (Bottom) From MP: 32.17 ft
 Depth to Water From MP: 20.78 ft
 Water Column Length: 11.39 ft
 Well Water Volume: 6.90 Gal / 0
 Min. Purge Volume: 1 Gal / L
 Total Purge Volume: 1.3 Gal / 0
 Max Drawdown: — ft
 Total Drawdown: 4.47 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	1:48	22.51	100	7.13	725	13.03	-85	0.00	20.2
2	1:49	24.01	—	7.12	729	13.05	-83	0.00	18.0
3	1:50	24.55	—	7.13	725	13.13	-81	0.00	22.9
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 29.25 ft

Comments

Sampler's Signature: Quentin Morris

Duck Creek

WELL/SAMPLE POINT G51L

Purge Method: dedicated pump

Date: 27-Oct-22 Start Time: 1211 Finish/Sample Time: 1213

Well Depth (Bottom) From MP: 20.21 ft Min. Purge Volume: _____ Gal / L
 Depth to Water From MP: dry ft Total Purge Volume: _____ Gal / L
 Water Column Length: _____ ft Max Drawdown: _____ ft
 Well Water Volume: _____ Gal / L Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments _____

Sampler's Signature: Austin Moore

Duck Creek

WELL/SAMPLE POINT G52S

Purge Method: dedicated pump

Date: 27-Oct-22 Start Time: 1028 Finish/Sample Time: 1031

Well Depth (Bottom) From MP: 47.31 ft Min. Purge Volume: _____ Gal / L

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

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments Pump stuck and wont pump water

Sampler's Signature: Austin Moon

Duck Creek

WELL/SAMPLE POINT G52L

Purge Method: dedicated pump

Date: 27-Oct-22 Start Time: 1031 Finish/Sample Time: 1107

Well Depth (Bottom) From MP: 37.11 ft Min. Purge Volume: 1 Gal / 1

Depth to Water From MP: 28.55 ft Total Purge Volume: 1.3 Gal / 1

Water Column Length: 8.56 ft Max Drawdown: — ft

Well Water Volume: 5.18 Gal / 1 Total Drawdown: — ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1055		100	6.50	1620	13.05	58	0.93	15.5
2	1056		1	6.51	1620	13.07	60	0.88	14.7
3	1057		1	6.53	1610	13.10	66	0.83	11.8
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)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)

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

Final DTW: — ft

Comments Water level drops below pump at 35.73

Sampler's Signature: Austin Moore

Duck Creek

WELL/SAMPLE POINT G53S

Purge Method: dedicated pump

Date: 27-Oct-22 Start Time: 1426 Finish/Sample Time: 1452

Well Depth (Bottom) From MP: 38.44 ft Min. Purge Volume: 1 Gal/L

Depth to Water From MP: 20.34 ft Total Purge Volume: 1.3 Gal/L

Water Column Length: 18.1 ft Max Drawdown: — ft

Well Water Volume: 10.96 Gal/L Total Drawdown: 0.36 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	1437	20.70	10.0	6.50	1050	14.89	-12	10.64	274
2	1438	20.70	↓	6.53	1050	14.78	-12	1.22	257
3	1439	20.70	↓	6.53	1030	14.62	-12	4.16	234
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: HoriBa

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 20.70 ft

Comments

Sampler's Signature: Austin Moon

Duck Creek

WELL/SAMPLE POINT

G93L
G57L

Purge Method:

dedicated pump

Date:

28-Oct-22

Start Time:

1025

Finish/Sample Time:

1056

Well Depth (Bottom) From MP:

29.75
AM 29.32 ft

Min. Purge Volume:

1 Gal / (L)

Depth to Water From MP:

27.20 ft AM 18.77

Total Purge Volume:

1.3 Gal / (L)

Water Column Length:

AM 10.55 ft 10.98

Max Drawdown:

ft

Well Water Volume:

AM 6.39 Gal (L) 6.65

Total Drawdown:

1.43 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1046	20.20	100	6.60	1.300	13.26	-9	4.36	27.5
2	1047	20.25	L	6.59	1.300	13.26	-6	2.76	20.7
3	1048	20.30	L	6.62	1.300	13.28	-6	2.96	19.1
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)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)

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

Final DTW:

20.20 ft

Comments: 2 mg ⇒ 1300, 1300, 1300

Sampler's Signature:

Austin Moran

Duck Creek

WELL/SAMPLE POINT G54L

Purge Method: Submersible

Date: 10/26/22 Start Time: 1017 Finish/Sample Time: 1049

Well Depth (Bottom) From MP: 40.30 ft Min. Purge Volume: 1 Gal / 0

Depth to Water From MP: 26.86 ft Total Purge Volume: 1 Gal / 0

Water Column Length: 13.44 ft Max Drawdown: — ft

Well Water Volume: 8.14 Gal / 0 Total Drawdown: 1.44 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	1037	27.77	100	5.83	1205.5	10.44	-31.1	1.42	0.72
2	1038	27.78	100	5.84	1298.7	10.37	-31.5	1.59	0.69
3	1039	27.80	100	5.83	1289.0	10.38	-31.1	1.57	0.68
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 28.30 ft

Comments

Sampler's Signature: Brendan H. H.

Duck Creek

WELL/SAMPLE POINT G54S

Purge Method: Bladder

Date: 10/26/22 Start Time: 1053 Finish/Sample Time: 1129

Well Depth (Bottom) From MP: 51.26 ft Min. Purge Volume: 1 Gal ☒

Depth to Water From MP: 26.54 ft Total Purge Volume: 1.2 Gal ☒

Water Column Length: 24.72 ft Max Drawdown: — ft

Well Water Volume: 14.97 Gal ☒ Total Drawdown: 3.71 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	1111	28.06	100	6.42	858.30	13.21	-22.3	1.06	0.97
2	1112	28.14	100	6.35	847.00	13.24	-19.8	0.85	1.09
3	1113	28.23	100	6.33	858.82	13.23	-17.5	0.67	1.00
4	1114	28.31	100	6.33	850.90	13.25	-15.3	0.79	0.99
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 30.25 ft

Comments

Sampler's Signature: Bruce J. [Signature]

Duck Creek

WELL/SAMPLE POINT G55S

Purge Method: Bladder

Date: 10/26/22 Start Time: 1207 Finish/Sample Time: 1235

Well Depth (Bottom) From MP: 46.00 ft Min. Purge Volume: 1 Gal (L)

Depth to Water From MP: 23.20 ft Total Purge Volume: 1.1 Gal (L)

Water Column Length: 22.80 ft Max Drawdown: — ft

Well Water Volume: 13.81 Gal (L) Total Drawdown: 2.71 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	1223	24.88	100	6.69	775.02	14.82	-7.4	1.00	1.69
2	1224	24.96	100	6.68	772.05	14.81	-6.5	0.92	1.52
3	1225	25.08	100	6.67	774.82	14.79	-5.4	0.99	1.55
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 25.91 ft

Comments

Sampler's Signature: Brandon Miller

Duck Creek

WELL/SAMPLE POINT G55L

Purge Method: Bladder

Date: 10/26/22 Start Time: 1135 Finish/Sample Time: 1205

Well Depth (Bottom) From MP: 36.60 ft Min. Purge Volume: 1 Gal / (L)

Depth to Water From MP: 23.20 ft Total Purge Volume: 1 Gal / (L)

Water Column Length: 13.40 ft Max Drawdown: _____ ft

Well Water Volume: 8.12 Gal / L Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1151	24.51	100	6.43	992.45	14.59	-14.1	1.04	1.15
2	1152	24.61	100	6.42	982.17	14.62	-12.3	0.95	1.19
3	1153	24.69	100	6.40	984.25	14.60	-11.3	0.91	1.16
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 25.89 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT G56S

Purge Method: Bladder

Date: 10/26/22 Start Time: 1247 Finish/Sample Time: 1318

Well Depth (Bottom) From MP: 41.10 ft
 Depth to Water From MP: 24.7 ft
 Water Column Length: 16.4 ft
 Well Water Volume: 9.93 Gal / (L)
 Min. Purge Volume: 1 Gal / (L)
 Total Purge Volume: 1200 Gal / (L)
 Max Drawdown: — ft
 Total Drawdown: 2.73 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	1307	26.68	100	6.55	809.77	13.79	-37.9	0.27	1.55
2	1308	26.81	100	6.55	793.50	13.77	-37.7	0.23	1.62
3	1309	26.93	100	6.55	808.42	13.78	-37.0	0.27	1.68
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 27.43 ft

Comments

Sampler's Signature: Brandon Glavin

Duck Creek

WELL/SAMPLE POINT G56L

Purge Method: Submersible Bailer

Date: 10/26/22 Start Time: 1319 Finish/Sample Time: 1326 1445

Well Depth (Bottom) From MP: 25.42 ~~25.58~~ ft 1411 BG Min. Purge Volume: 1 Gal / 10

Depth to Water From MP: 23.96 ft Total Purge Volume: 967 ~~na~~ 1 Gal / 10

Water Column Length: 1.62 ft Max Drawdown: — ft

Well Water Volume: 0.98 Gal / 10 Total Drawdown: 967 ~~1.2~~ 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	1427	24.32	—	6.61	133.3	14.71	90.9	3.01	3.05
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 23.96 ~~25.58~~ 25.42 ft

Comments: Well is too shallow to sample with submersible pump, so bailed one liter for purge, then filled sampler, then took reads

Sampler's Signature: Brendan Simon

Well ran dry during sampling

Duck Creek

WELL/SAMPLE POINT G57S

Purge Method: dedicated pump

Date: 27-Oct-22 Start Time: 1507 Finish/Sample Time: 1936

Well Depth (Bottom) From MP: 37.40 ft Min. Purge Volume: 1 Gal / (L)

Depth to Water From MP: 27.20 ft Total Purge Volume: 1.3 Gal / (L)

Water Column Length: 10.20 ft Max Drawdown: — ft

Well Water Volume: 6.18 Gal / (L) Total Drawdown: 0.8 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	1523	28.00	100	6.63	1260	13.87	114	9.09	0.5
2	1524	28.00	↓	6.62	1260	13.83	109	9.40	0.1
3	1525	28.00	↓	6.62	1260	13.62	107	9.25	0.1
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	✓	
Casing locked/secure	✓	
Well cap fits securely.		✓
Good seal/drainage	✓	
Well has weep holes		✓

BOTTLE INFORMATION:

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

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

Final DTW: 28.00 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT

657LAM
G53L

Purge Method:

Bailer

Date:

28-Oct-22

Start Time:

1226

Finish/Sample Time:

1244

Well Depth (Bottom) From MP:

29.32
29.78 ft AM

Min. Purge Volume:

0.5 Gal/D

Depth to Water From MP:

27.46 ft

Total Purge Volume:

0.5 Gal/D

Water Column Length:

1.86 ft

Max Drawdown:

ft

Well Water Volume:

1.13 Gal/D

Total Drawdown:

1.93 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1239	28.90	—	7.28	927	13.73	-32	10.13	115
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Hociba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW:

28.99 ft

Comments Not enough water for a full 3 reads.

Sampler's Signature:

Quinn Moore

Duck Creek

WELL/SAMPLE POINT G58S

Purge Method: dedicated bailer

Date: 28-Oct-22 Start Time: 1145 Finish/Sample Time: 1214

Well Depth (Bottom) From MP: 39.45 ft
 Depth to Water From MP: 31.65 ft
 Water Column Length: 7.8 ft
 Well Water Volume: 4.72 Gal / 0
 Min. Purge Volume: 1 Gal / 0
 Total Purge Volume: 1.3 Gal / 0
 Max Drawdown: — ft
 Total Drawdown: 1 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	1201	32.65	100	6.78	983	13.91	134	12.12	0.8
2	1202	32.65	1	6.79	983	13.93	134	12.63	0.5
3	1203	32.65	1	6.77	982	13.87	135	12.72	0.7
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 32.65 ft

Comments

Sampler's Signature: Austin Moore

Duck Creek

WELL/SAMPLE POINT G58L

Purge Method: Bailer

Date: 28-Oct-22 Start Time: 1112 Finish/Sample Time: 1140

Well Depth (Bottom) From MP: 33.88 ft
 Depth to Water From MP: 31.61 ft
 Water Column Length: 2.27 ft
 Well Water Volume: 1.37 Gal / 10
 Min. Purge Volume: 1 Gal / 10
 Total Purge Volume: 1 Gal / 10
 Max Drawdown: ft
 Total Drawdown: 2.01 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1118	32.50	—	7.06	1040	13.88	132	9.93	336
2									
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:

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

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

Final DTW: 33.62 ft

Comments not enough water for 3 reads

Sampler's Signature: Austin Moon

Duck Creek

WELL/SAMPLE POINT G59S

Purge Method: Bladder

Date: 10/26/22 Start Time: 1330 Finish/Sample Time: 1358

Well Depth (Bottom) From MP: 45.20 ft Min. Purge Volume: 1 Gal ☒

Depth to Water From MP: 36.50 ft Total Purge Volume: 1.1 Gal ☒

Water Column Length: 8.7 ft Max Drawdown: ft

Well Water Volume: 5.27 Gal ☒ 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	1344	36.63	100	6.71	1049.47	13.92	-86.2	0.52	1.29
2	1345	36.65	100	6.71	998.62	13.89	-85.6	0.41	1.25
3	1346	36.66	100	6.71	974.21	13.92	-84.7	0.42	1.22
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 36.64 ft

Comments

Sampler's Signature: Brendan Hlina

Duck Creek

WELL/SAMPLE POINT G59L

Purge Method: Bailer

Date: 10/26/22 Start Time: 1448 Finish/Sample Time: 1509

Well Depth (Bottom) From MP: 35.39 ft
 Depth to Water From MP: 32.13 ft
 Water Column Length: 3.26 ft
 Well Water Volume: 1.97 Gal ☒
 Min. Purge Volume: 0 Gal ☒
 Total Purge Volume: 0 Gal ☒
 Max Drawdown: — ft
 Total Drawdown: 0.59 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	1457	32.53	—	6.91	780.80	14.31	126.2	4.57	0.95
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 32.72 ft

Comments: Water below well screen, only took overread then took samples

Sampler's Signature: Brandon [Signature]

Duck Creek

WELL/SAMPLE POINT **G60S**

Purge Method: Bladder

Date: 10/28/22 Start Time: 1042 Finish/Sample Time: 1218

Well Depth (Bottom) From MP: 10/31/22 39.20 ft Min. Purge Volume: 1.5 Gal (L)

Depth to Water From MP: 28.15 ft 28.05 ft Total Purge Volume: 1.9 Gal / L

Water Column Length: 11.05 ft 11.15 ft Max Drawdown: 5 ft

Well Water Volume: 6.69 Gal (L) 6.74 L Total Drawdown: 5 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	1058	28.04	100	6.57	797	12.82	-1.1	1.34	490
2	1159	28.04	100	6.57	799	12.82	-4.9	1.11	555
3	1200	28.04	100	6.57	800	12.82	-5.0	0.0	501
4	1201	28.04	100	6.57	801	12.82	-6.2	0.0	493
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 28.04 ft

Comments: Could not get any water to purge with bladder pump

Sampler's Signature: Brendan Blum

sampled
10/31/22
Joseph R Reed

Duck Creek

WELL/SAMPLE POINT **G60L**

Purge Method: Bladder

Date: 10/28/22 Start Time: 1015 Finish/Sample Time: 1041

Well Depth (Bottom) From MP: 27.00 ft
 Depth to Water From MP: 22.92 ft
 Water Column Length: 4.08 ft
 Well Water Volume: 2.47 Gal / 0
 Min. Purge Volume: 1 Gal / 0
 Total Purge Volume: 1 Gal / 0
 Max Drawdown: — ft
 Total Drawdown: 1.56 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1027	23.94	100	6.42	1006.4	14.13	172.2	0.03	1.05
2	1028	23.98	100	6.38	799.71	14.13	159.6	0.01	1.20
3	1029	24.01	100	6.41	951.91	14.05	186.1	0.06	1.21
4	1030	24.04	100	6.41	955.8	14.17	165.6	0.00	1.15
5	1031	24.07	100	6.42	965.67	14.11	170.2	0.11	1.09
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 24.48 ft

Comments

Sampler's Signature: Brandon H

Duck Creek

WELL/SAMPLE POINT G61S

Purge Method: Bladder

Date: 10/28/22 Start Time: 1133 Finish/Sample Time: 1200

Well Depth (Bottom) From MP: 37.85 ft
 Depth to Water From MP: 27.27 ft
 Water Column Length: 10.58 ft
 Well Water Volume: 6.40 Gal (L)
 Min. Purge Volume: 1 Gal (L)
 Total Purge Volume: 1 Gal (L)
 Max Drawdown: — ft
 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	1145	29.07	100	7.05	1222.6	14.14	159.8	0.70	1.34
2	1146	29.20	100	7.05	1237.2	14.09	162.7	0.72	1.29
3	1147	29.32	100	7.05	1256.7	14.01	163.9	0.64	1.31
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 20.23 ft

Comments

Sampler's Signature: Brandon H. H.

Duck Creek

WELL/SAMPLE POINT R61L

Purge Method: Bailer

Date: 10/28/22 Start Time: 1115 Finish/Sample Time: 1131

Well Depth (Bottom) From MP: 31.49 ft Min. Purge Volume: 0 Gal ☒

Depth to Water From MP: 26.72 ft Total Purge Volume: 0 Gal ☒

Water Column Length: 4.77 ft Max Drawdown: — ft

Well Water Volume: 2.89 Gal ☒ Total Drawdown: 0.78 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1124	27.12	—	7.04	1191.0	13.95	97.0	1.50	1.95
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 27.50 ft

Comments Water column below well screen, too shallow for submersible

Sampler's Signature: Brandon Allen

Duck Creek

WELL/SAMPLE POINT **G62L**

Purge Method: portable pump

Date: 10/31/22 Start Time: 1110 Finish/Sample Time: 1130

Well Depth (Bottom) From MP: 33.57 ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 26.59 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: 6.98 ft Max Drawdown: — ft

Well Water Volume: 422 Gal (L) Total Drawdown: 121 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	1129	26.97	100	6.60	1011	14.06	119.8	1.65	144
2	1130	27.10	100	6.60	1012	14.07	119.4	1.41	162
3	1131	27.22	100	6.60	1007	14.10	115.1	1.23	169
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 27.80 ft

Comments

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT G63S

Purge Method: Bladder

Date: 10/22/22 Start Time: 1222 Finish/Sample Time: 1253

Well Depth (Bottom) From MP: 28 42.45 ft Min. Purge Volume: 1 Gal / (L)

Depth to Water From MP: 27.94 ft Total Purge Volume: 1.1 Gal (L)

Water Column Length: 4.51 ft Max Drawdown: — ft

Well Water Volume: 8.79 Gal (L) Total Drawdown: 2.12 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1239	29.25	100	7.51	917.88	14.43	44.2	0.60	1.39
2	1240	29.33	100	7.50	907.43	14.36	46.5	0.50	1.43
3	1241	29.41	100	7.48	920.48	14.35	48.6	0.49	1.30
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 30.06 ft

Comments

Sampler's Signature: Brendan [Signature]

Duck Creek

WELL/SAMPLE POINT G63L

Purge Method: Bailer

Date: 10/28/22 Start Time: 1208 Finish/Sample Time: 1221

Well Depth (Bottom) From MP: 31.26 ft
 Depth to Water From MP: 26.96 ft
 Water Column Length: 4.3 ft
 Well Water Volume: 20.60 Gal (L)
 Min. Purge Volume: 8 Gal (L)
 Total Purge Volume: 8 Gal (L)
 Max Drawdown: — ft
 Total Drawdown: 0.48 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	1215	27.21	—	7.32	1251.6	14.68	40.7	1.08	1.73
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: 85 AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 27.44 ft

Comments: Water column below well screen, too shallow for submersible

Sampler's Signature: Brendan Hill

Duck Creek

WELL/SAMPLE POINT G64S

Purge Method: Bladder

Date: 10/28/22 Start Time: 1327 Finish/Sample Time: 1355

Well Depth (Bottom) From MP: 39.50 ft
 Depth to Water From MP: 27.19 ft
 Water Column Length: 12.31 ft
 Well Water Volume: 7.45 Gal / L

Min. Purge Volume: 1 Gal / L
 Total Purge Volume: 1 Gal / L
 Max Drawdown: — ft
 Total Drawdown: 0.83 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	1342	27.95	100	7.51	789.91	14.60	-27.6	0.49	1.24
2	1343	27.99	100	7.51	787.67	14.59	-25.6	0.42	1.16
3	1344	27.96	100	7.51	783.55	14.58	-26.8	0.42	1.20
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 28.02 ft

Comments

Sampler's Signature: Brendan

Duck Creek

WELL/SAMPLE POINT G64L

Purge Method: Boiler

Date: 10/28/22 Start Time: 1308 Finish/Sample Time: 1326

Well Depth (Bottom) From MP: 30.46 ft
 Depth to Water From MP: 25.87 ft
 Water Column Length: 4.59 ft
 Well Water Volume: 2.78 Gal 1
 Min. Purge Volume: 0 Gal 1
 Total Purge Volume: 0 Gal 1
 Max Drawdown: — ft
 Total Drawdown: 0.62 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1316	26.15	—	7.61	910.48	13.81	109.1	2.09	1.79
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 6000

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 26.49 ft

Comments Water column below well screen, too shallow for submersible

Sampler's Signature: Brendan Quinn

Duck Creek

WELL/SAMPLE POINT G65L

Purge Method: low flow Baler

Date: 10-26-22 Start Time: 14:31 15:22 Finish/Sample Time: 1549

Well Depth (Bottom) From MP: 25.20 ft Min. Purge Volume: 500 ^{ML} Gal / L

Depth to Water From MP: 24.11 ft Total Purge Volume: 500 ^{ML} Gal / L

Water Column Length: 1.09 ft Max Drawdown: — ft

Well Water Volume: — Gal / L Total Drawdown: 25.20 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	15:31	24.11	—	7.07	824	13.49	141	6.99	217
2					824				
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:

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

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

Final DTW: 25.20 ft

Comments 824

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT **G65S**

Purge Method: Lowflow

Date: 10-26-22 Start Time: 14:45 Finish/Sample Time: 15:08

Well Depth (Bottom) From MP: 35.10 ft
 Depth to Water From MP: 24.45 ft
 Water Column Length: 10.65 ft
 Well Water Volume: 1.7 Gal/L

Min. Purge Volume: 2.44 Gal
 Total Purge Volume: 1.3 Gal
 Max Drawdown: — ft
 Total Drawdown: 1.01 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	14:54	27.64	100	7.14	87.908	14.46	108	7.59	514
2	14:55	27.71	100	7.00	87.908	14.45	109	7.75	475
3	14:56	27.84	100	6.95	87.909	14.43	109	7.61	438
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)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)

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

Final DTW: 25.44 ft

Comments: 908, 908, 909

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT G66S

Purge Method: low-flow

Date: 10-26-22 Start Time: 11:56 Finish/Sample Time: 12:27

Well Depth (Bottom) From MP: 43.05 ft Min. Purge Volume: 1,160 Gal ☒

Depth to Water From MP: 23.77 ft Total Purge Volume: 1,416 Gal ☒

Water Column Length: 19.28 ft Max Drawdown: — ft

Well Water Volume: 3.1 Gal/L Total Drawdown: 3.37 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	12:17	25.67	100	6.08	1,310	12.76	-42	4.28	8.0
2	12:18	25.78	100	6.04	1,300	12.85	-39	4.53	6.6
3	12:19	25.90	100	6.00	1,310	13.03	-38	4.50	6.0
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiha

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 27.14 ft

Comments * 1310, 1300, 1310

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT G66L

Purge Method: _____

Date: 10-26-22 Start Time: 11:44 Finish/Sample Time: 11:54

Well Depth (Bottom) From MP: 23.00 ft Min. Purge Volume: _____ Gal / L

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

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments

well is dry

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT G67S

Purge Method: low flow
AMP 50 KL

Date: 10-26-22 Start Time: 10:57 Finish/Sample Time: 11:31

Well Depth (Bottom) From MP: 39.50 ft Min. Purge Volume: 1,180 Gal / 10

Depth to Water From MP: 200 ft Total Purge Volume: 1,580 Gal / 10

Water Column Length: 19.49 ft Max Drawdown: — ft

Well Water Volume: 3.12 Gal / L Total Drawdown: 5.77 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	11:19	23.67	100	5.94	1,030	13.08	171	4.32	111
2	11:20	23.79	100	6.01	1,060	13.07	159	3.43	104
3	11:21	23.88	100	6.00	1,050	13.07	150	3.58	104
4	11:22	23.97	100	6.02	1,050	13.05	147	3.51	101
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 25.78 ft

Comments 1080, 1000, 1050, 1050

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT G67L

Purge Method: _____

Date: 10-26-22 Start Time: 10:53 Finish/Sample Time: 10:55

Well Depth (Bottom) From MP: 19.10 ft
 Depth to Water From MP: 1 ft
 Water Column Length: — ft
 Well Water Volume: — Gal / L
 Min. Purge Volume: — Gal / L
 Total Purge Volume: — Gal / L
 Max Drawdown: — ft
 Total Drawdown: — ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments The well is Dry

Sampler's Signature: signing for KL [Signature] R Reed

Duck Creek

WELL/SAMPLE POINT G70L

Purge Method: Low flow

Date: 10-26-22 Start Time: 13:55 Finish/Sample Time: Low flow 14:21

Well Depth (Bottom) From MP: 33.05 ft Min. Purge Volume: 1.6 Gal/L

Depth to Water From MP: 22.70 ft Total Purge Volume: 1.5 Gal/L

Water Column Length: 10.35 ft Max Drawdown: — ft

Well Water Volume: 1.6 Gal/L Total Drawdown: 1.86 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	14.09	23.86	100	6.80	2,300	14.61	148	5.69	45.7
2	14.10	23.98	100	6.67	2,310	14.63	146	5.63	22.2
3	14.11	24.13	100	6.65	2,310	14.72	143	5.68	15.3
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanbe

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 24.56 ft

Comments: 2300, 2310, 2340

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT G71S

Purge Method: LOW FLOW

Date: 10-26-22 Start Time: 13:18 Finish/Sample Time: 13:44

Well Depth (Bottom) From MP: 41.45 ft Min. Purge Volume: 1.0 ^{HL} ^{ML} Gal (L)

Depth to Water From MP: 30.75 ft Total Purge Volume: 1.4 Gal / L

Water Column Length: 10.70 ft Max Drawdown: ~ ft

Well Water Volume: 1.7 Gal / L Total Drawdown: 2.40 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	13.30	31.81	100	6.55	9.914.0	13.83	128	6.24	1000+
2	13.31	31.92	100	6.54	9.913.0	13.91	122	3.38	948
3	13.32	32.04	100	6.55	9.912.0	13.97	119	3.25	751
4	13.33	32.10	100	6.55	9.912.0	13.96	116	3.03	600
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hi-C

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 33.15 ft

Comments 9.914, 9.913, 9.912, 9.912

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT G71L

Purge Method: bailer

Date: 10/31/22 Start Time: 935 Finish/Sample Time: 1000

Well Depth (Bottom) From MP: 32.66 ft Min. Purge Volume: 0.5 Gal (L)

Depth to Water From MP: 29.83 ft 29.83 Total Purge Volume: 1.5 Gal (L)

Water Column Length: 2.83 ft Max Drawdown: — ft

Well Water Volume: 1.71 Gal (L) Total Drawdown: — ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	<u>945</u>	<u>30.91</u>	<u>1.6</u>	<u>6.58</u>	<u>1183</u>	<u>13.77</u>	<u>158.0</u>	<u>4.00</u>	<u>71000</u>
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☒ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 30.79 ft

Comments

Sampler's Signature: Joseph R. Reed

Duck Creek

WELL/SAMPLE POINT R72S

Purge Method: Bailer

Date: 28-Oct-22 Start Time: 1323 Finish/Sample Time: 1401

Well Depth (Bottom) From MP: 37.78 ft Min. Purge Volume: 9 Gal/L

Depth to Water From MP: 32.35 ft Total Purge Volume: 9 Gal/L

Water Column Length: 5.43 ft Max Drawdown: — ft

Well Water Volume: 3.29 Gal/L Total Drawdown: 1.54 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	1333	32.92	—	7.22	1190	14.46	58	2.51	65
2	1341	33.33	—	6.92	1210	15.14	50	2.43	368
3	1347	33.86	—	7.17	1200	15.11	76	2.73	741
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)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)

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

Final DTW: 33.89 ft

Comments

Sampler's Signature: Austin Moore

Duck Creek

WELL/SAMPLE POINT G72L

Purge Method: Bailer

Date: 28-Oct-22 Start Time: 1313 Finish/Sample Time: 1315

Well Depth (Bottom) From MP: 28.04 ft Min. Purge Volume: _____ Gal / L

Depth to Water From MP: 27.64 ft Total Purge Volume: _____ Gal / L

Water Column Length: 0.4 ft Max Drawdown: _____ ft

Well Water Volume: 0.24 Gal / L Total Drawdown: _____ ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1									
2									
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: _____

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: _____ ft

Comments not enough water to collect reads or samples

Sampler's Signature: Austin Moore

Duck Creek

WELL/SAMPLE POINT G73L

Purge Method: bladder

Date: 10/31/22 Start Time: 1010 Finish/Sample Time: 1051

Well Depth (Bottom) From MP: 37.70 ft Min. Purge Volume: 1.5 Gal (L)

Depth to Water From MP: 30.77 ft Total Purge Volume: 1.8 Gal (L)

Water Column Length: 6.93 ft Max Drawdown: — ft

Well Water Volume: 4.19 Gal (L) Total Drawdown: 0.04 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1025	30.80	100	6.68	1809	14.90	236.8	2.33	8.6
2	1026	30.80	100	6.68	1815	14.95	243.1	2.26	6.1
3	1027	30.80	100	6.68	1816	14.96	244.9	2.20	5.2
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 30.81 ft

Comments

Sampler's Signature: Joseph R. Reed

Duck Creek

WELL/SAMPLE POINT OM01

Purge Method: Sub pump

Date: 10/28/22 Start Time: 1115 Finish/Sample Time: 1144

Well Depth (Bottom) From MP: 27.79 ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 13.91 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: 13.88 ft Max Drawdown: - ft

Well Water Volume: 8.39 Gal (L) Total Drawdown: 4.03 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	1129	16.45	100	6.49	3402	15.19	-20.1	3.29	45.8
2	1130	16.44	100	6.46	3419	15.11	-10.1	3.21	67.7
3	1131	16.43	100	6.42	3399	15.13	0.5	3.22	15.2
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 16.94 ft

17.94

Comments

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT OR02

Purge Method: Sub pump

Date: 10/29/20 Start Time: 1152 Finish/Sample Time: 1220

Well Depth (Bottom) From MP: 22.11 ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 7.19 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: 1492 ft Max Drawdown: — ft

Well Water Volume: 9.02 Gal / L Total Drawdown: 0.10 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1209	7.29	100	6.73	1912	14.61	-10.3	4.20	459
2	1210	7.29	100	6.72	1911	14.58	-2.5	4.17	463
3	1211	7.29	100	6.73	1915	14.55	2.8	4.09	469
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 7.29 ft

Comments

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT OR03D

Purge Method: Portable Pump

Date: 10/28/2012 Start Time: 1402 Finish/Sample Time: 1529

Well Depth (Bottom) From MP: 77.77 ft Min. Purge Volume: — Gal / L

Depth to Water From MP: 45.00 ft Total Purge Volume: 1000 Gal / L

Water Column Length: 32.77 ft Max Drawdown: — ft

Well Water Volume: 19.82 Gal 10 Total Drawdown: 0.17 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	1414	45.17	100	6.80	3774	15.8	-22.8	1.68	3276.2
2	1416	45.17	100	6.72	4217	15.7	-22.4	1.46	3785.5
3	1418	45.17	100	6.68	4098	15.6	-22.0	1.33	3664.0
4	1420	45.17	100	6.71	4754	15.5	-20.5	1.31	3605.1
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AZ 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)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 250 mL)

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

Final DTW: 45.17 ft
45.17

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT OM04S

Purge Method: sub pump

Date: 10-27-22

Start Time: 10:30

Finish/Sample Time: 11:00

Well Depth (Bottom) From MP: 35.85 ft

Min. Purge Volume: 1.5 Gal ①

Depth to Water From MP: 20.79 ft

Total Purge Volume: 1.5 Gal / L

Water Column Length: 15.12 ft

Max Drawdown: _____ ft

Well Water Volume: 2.4 Gal / L

Total Drawdown: 4.44 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	1050	100	23.49	6.63	1203	12.23	-117.1	7.33	128
2	1051	100	23.80	6.63	1214	12.22	-117.9	7.19	131
3	1052	100	24.10	6.63	1213	12.19	-117.5	7.01	140
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 25.17 ft

Comments

Sampler's Signature: [Signature]

Cor See Reed
Hpp 10/27/22

Duck Creek

WELL/SAMPLE POINT OR04D

Purge Method: sub pump

Date: 10/27/22 Start Time: 1105 Finish/Sample Time: 1132

Well Depth (Bottom) From MP: 67.98 ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 21.46 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: 46.52 ft Max Drawdown: - ft

Well Water Volume: 28.14 Gal L Total Drawdown: -0.01 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1121	21.45	100	6.54	6371	12.37	-109.3	16.37	643
2	1122	21.45	100	6.53	6300	12.36	-104.1	16.20	591
3	1123	21.45	100	6.53	6250	12.35	-97.4	16.11	594
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☒ Strong

Color: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 21.45 ft

Comments

Sampler's Signature: Joseph R Red

Duck Creek

WELL/SAMPLE POINT OR06A

Purge Method: bailer

Date: 6/27/22 Start Time: 1150 Finish/Sample Time: 1215

Well Depth (Bottom) From MP: 25.65 ft

Min. Purge Volume: 1.0 Gal (L) 1934

Depth to Water From MP: 14.99 ft

Total Purge Volume: 20 Gal (L)

Water Column Length: 10.66 ft

Max Drawdown: — ft

Well Water Volume: 6.45 Gal / L

Total Drawdown: 0.01 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1159	15.25	6.5 bails	6.69	2727	14.34	-7.1	9.01	>1000
2	1200	15.10	6.5 bails	6.71	2691	14.50	-2.4	9.19	>1000
3	1201	15.17	6.5 bails	6.72	2690	14.49	-1.1	9.05	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☒ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 15.00 ft

Comments Submersible pump not strong enough - used bailer

Sampler's Signature: Joseph R. Fleet

Duck Creek

WELL/SAMPLE POINT OM07

Purge Method: sub pump

Date: 10/28/22 Start Time: 1315 Finish/Sample Time: 1340

Well Depth (Bottom) From MP: 29.92 ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 12.83 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: 17.09 ft Max Drawdown: - ft

Well Water Volume: 10.34 Gal (L) Total Drawdown: 0.30 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1330	13.03	100	6.78	1260	15.90	-49.7	5.46	237
2	1331	13.03	100	6.78	1255	15.98	-49.5	5.29	217
3	1332	13.04	100	6.78	1255	15.88	-49.2	5.19	193
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 13.13 ft

Comments

Sampler's Signature:

Joseph Reed

Duck Creek

WELL/SAMPLE POINT OR11

Purge Method: bailer

Date: 10/27/22 Start Time: 1305 Finish/Sample Time: 1518

Well Depth (Bottom) From MP: 43.85 ft Min. Purge Volume: 21 Gal U

Depth to Water From MP: 32.75 ft Total Purge Volume: 21 Gal U

Water Column Length: 11.10 ft Max Drawdown: — ft

Well Water Volume: 6.71 Gal / L Total Drawdown: 0.24 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	1500	32.80	7ba/s	7.19	1229	11.76	-21.1	7.09	>1000
2	1508	32.86	7ba/s	7.15	1235	11.72	-20.5	7.01	>1000
3	1516	32.92	7ba/s	7.09	1234	11.71	-20.6	6.99	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 32.99 ft

Comments

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT OM12

Purge Method: portable pump

Date: 10/28/2022 Start Time: 1253 Finish/Sample Time: 1317

Well Depth (Bottom) From MP: 43.19 ft Min. Purge Volume: — Gal / L

Depth to Water From MP: 16.45 ft Total Purge Volume: 1000 Gal / L (10)

Water Column Length: 26.74 ft Max Drawdown: — ft

Well Water Volume: 16.17 Gal (10) Total Drawdown: 0.48 ft

APP 10/28/22

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	1304	16.90	100	6.70	2013	15.5	-64.7	1.13	87.72
2	1306 1308	16.90	100	6.71	2005	15.5	-66.7	0.95	114.62
3	1308 1308	16.90	100	6.70	2014	15.4	-67.6	0.93	165.12
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: A7600

Sample Appearance:

Odor: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 16.93 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT OR13S

Purge Method: Sub pump

Date: 10/26/22 Start Time: 1332 Finish/Sample Time: 1427 1400

Well Depth (Bottom) From MP: 29.55 ft

Min. Purge Volume: 1000 Gal / mL

Depth to Water From MP: 14.04 ft

Total Purge Volume: 1.3 Gal (L)

Water Column Length: 15.5 ft

Max Drawdown: — ft

Well Water Volume: 9.38 Gal / L

Total Drawdown: 0.02 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1348	14.06	100	6.76	1987	16.84	52.2	5.88	71000
2	1349	14.06	100	6.73	1990	16.89	52.0	6.00	71000
3	1350	14.06	100	6.72	1991	16.89	51.9	6.11	71000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

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

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☐ Mod. ☒ Strong

Turb: ☐ None ☐ Slight ☐ Mod. ☒ Strong

BOTTLE INFORMATION:

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

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

Final DTW: 14.06 ft

Comments

Sampler's Signature: Joseph R. Ras

Duck Creek

WELL/SAMPLE POINT **OR13D**

Purge Method: **sub pump**

Date: **10/26/22**

Start Time: **1405**

Finish/Sample Time: **1427**

Well Depth (Bottom) From MP: **50.23** ft

Min. Purge Volume: **1.5** Gal ☒

Depth to Water From MP: **13.86** ft

Total Purge Volume: **1.8** Gal ☒

Water Column Length: **36.37** ft

Max Drawdown: **—** ft

Well Water Volume: **27.00** Gal / L

Total Drawdown: **0.01** ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1318	13.87	100	6.78	1921	15.17	-57.2	3.73	71000
2	1319	13.87	100	6.76	1917	15.20	-57.6	3.90	71000
3	1320	13.87	100	6.77	1918	15.21	-57.7	4.00	71000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: **Hanna**

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod. ☒ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: **13.87** ft

Comments

Sampler's Signature: **Joseph R Reed**

Duck Creek

WELL/SAMPLE POINT OR14D

Purge Method: Sub pump

Date: 10/28/22 Start Time: 1359 Finish/Sample Time: 1422

Well Depth (Bottom) From MP: 48.78 ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 11.03 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: 37.75 ft Max Drawdown: — ft

Well Water Volume: 22.83 Gal / L Total Drawdown: 0.01 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1415	11.04	100	6.64	2880	14.35	-27.0	4.94	72.7
2	1416	11.04	100	6.64	2877	14.32	-26.5	4.89	77.9
3	1417	11.04	100	6.64	2875	14.29	-25.9	4.80	78.1
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 11.04 ft

Comments

Sampler's Signature: Joseph R Paul

Duck Creek

WELL/SAMPLE POINT OR19

Purge Method: portable pump

Date: 10/28/2022 Start Time: 1514 Finish/Sample Time: 1548

Well Depth (Bottom) From MP: 55.03 ft
 Depth to Water From MP: 25.71 ft
 Water Column Length: 29.32 ft
 Well Water Volume: 17.73 Gal (L)
 Min. Purge Volume: — Gal / L
 Total Purge Volume: 1000 Gal / L (L)
 Max Drawdown: — ft
 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	1331	25.76	100	6.84	2614	16.44	-38.9	1.10	1660.0
2	1333	25.76	100	6.79	2612	16.55	-41.8	0.94	2278.2
3	1335	25.76	100	6.81	2606	16.57	-46.2	0.82	2319.0
4	1337	25.76	100	6.83	2610	16.60	-47.5	0.70	2308.4
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: A7600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 25.26 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT OR20

Purge Method: sub pump

Date: 10/28/22 Start Time: 1000 Finish/Sample Time: 1029

Well Depth (Bottom) From MP: 57.55 ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 22.76 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: 34.79 ft Max Drawdown: - ft

Well Water Volume: 21.04 Gal (L) Total Drawdown: 0.13 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1015	22.85	100	6.80	2640	12.70	-10.5	3.01	58.6
2	1016	22.87	100	6.76	2625	12.68	-20.9	2.85	58.9
3	1017	22.89	100	6.78	2619	12.68	-26.2	2.73	60.7
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 22.89 ft

Comments

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT OM21

Purge Method: sub pump

Date: 10/26/22 Start Time: 1000

Finish/Sample Time: 1029

Well Depth (Bottom) From MP: 60.55 ft

Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 11.25 ft

Total Purge Volume: 1.9 Gal / L

Water Column Length: 49.30 ft

Max Drawdown: — ft

Well Water Volume: 29.81 Gal / L

Total Drawdown: 0.43 ft

Reading (Units)	Time	Depth (ft.)	Flow Rate (mL/min)	pH (s.u.)	Spec Cond (umhos/cm)	Temp (deg C)	ORP (mV)	DO (mg/L)	Turb (NTU)
1	1015	11.58	100	7.20	3375.4	12.72	19.0	3.46	10.03
2	1016	11.60	100	7.19	3370.9	12.91	19.1	3.40	11.41
3	1017	11.62	100	7.16	3371.4	12.95	19.0	3.39	11.77
4	1018	11.65	100	7.16	3370.9	12.76	19.1	3.33	12.01
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter:

Hanna

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 11.68 ft

Comments

Sampler's Signature:

Joseph R Reed

Duck Creek

WELL/SAMPLE POINT OM22D

Purge Method: portable pump

Date: 10/28/2022 Start Time: 1002

Finish/Sample Time: 1029

Well Depth (Bottom) From MP: 65.19 ft

Min. Purge Volume: — Gal / L

Depth to Water From MP: 20.74 ft

Total Purge Volume: ¹⁰⁰⁰2000 Gal / L (mL)

Water Column Length: 44.45 ft

Max Drawdown: — ft

Well Water Volume: 26.58 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	1017	20.74	100	7.16	3636	12.5	50.6	0.77	3465.6
2	1018	20.74	100	7.13	3643	12.5	48.9	0.66	2327.7
3	1029	20.74	100	7.06	3658	12.5	48.9	0.60	1805.7
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 20.74 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT OM23D

Purge Method: builer

Date: 10/28/2022 Start Time: 1043 Finish/Sample Time: 1152

Well Depth (Bottom) From MP: 82.91 ft Min. Purge Volume: 27 Gal (L)

Depth to Water From MP: 39.18 ft Total Purge Volume: 81 Gal (L)

Water Column Length: 43.73 ft Max Drawdown: — ft

Well Water Volume: 26.45 Gal (L) Total Drawdown: 0.63 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	1100	39.80	—	6.95	1737	12.3	71.3	3.82	47.1
2	1124	39.25	—	6.95	1738	12.4	58.7	3.78	46.4
3	1141	40.00	—	6.95	1737	12.4	55.1	3.74	37.4
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: A7600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 39.81 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT OM24D

Purge Method: portable pump

Date: 10/28/2012 Start Time: 1203 Finish/Sample Time: 1230

Well Depth (Bottom) From MP: 19.66 ft Min. Purge Volume: - Gal / L

Depth to Water From MP: 5.15 ft Total Purge Volume: 1600 Gal / L (ml)

Water Column Length: 14.51 ft Max Drawdown: - ft

Well Water Volume: 8.76 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	1217	5.20	100	7.41	3086	16.2	-10.8	2.03	224.6
2	1219	5.20	100	7.36	3088	16.2	-11.0	1.98	256.2
3	1221	5.20	100	7.32	3092	16.3	-11.5	1.92	210.8
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 5.20 ft

Comments

Sampler's Signature: [Signature]

Duck Creek

WELL/SAMPLE POINT OM25S

Purge Method: bailer

Date: 10/28/2022 Start Time: 1233 Finish/Sample Time: 1241

Well Depth (Bottom) From MP: 63.97 ft Min. Purge Volume: — Gal / L

Depth to Water From MP: 58.24 ft Total Purge Volume: 1/2 Gal (L)

Water Column Length: 5.73 ft Max Drawdown: — ft

Well Water Volume: 3.47 Gal (L) Total Drawdown: 0.66 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	1237	58.70	—	6.71	2977	14.9	34.6	4.25	490.8
2	1238	58.90	—	6.71	2908	14.9	34.8	4.18	488.7
3									
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: A7600

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color: ☐ None ☐ Slight ☒ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 58.90 ft

Comments: only 1/2 bailer purge due to low water - 1 pur
recharge, readings obtained from same bail

Sampler's Signature: [Signature]

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Kyle Lane</u>			Location: <u>Duck Creek</u>		
Weather:			Environment:		
Multiparameter Water Meter		Make: <u>HANNA</u>	Model: <u>HANNA</u>	Serial Number: <u>V4U1FV4F</u>	
Water Level Meter		Make:	Model:	Serial Number:	

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.92</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	<u>4.98</u>	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000		µS/cm	±5%				Geotech	1GK328	Nov-22
ORP	<u>329</u>	mV	±15 mV				In Situ	2GC827	Dec-22
DO (Zero pt)	<u>0.20</u>	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)		%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>1.4</u>	NTU	<2 NTU	<u>P</u>	<u>Na</u>	<u>Na</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>19:57</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.05</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>Na</u>	Geotech	2GC243	Mar-24
pH 7.00b		s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b		s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	<u>1.025</u>	µS/cm	±5%	<u>P</u>	<u>Na</u>	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>16:12</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>Na</u>	<u>Na</u>	MSI	L315-04	11/22/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	<u>1.0160</u>	µS/cm	±5%	<u>P</u>	<u>Na</u>	<u>Na</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.09</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>Na</u>	<u>Na</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.49</u>	NTU	<2 NTU	<u>P</u>	<u>Na</u>	<u>Na</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

* Hanna

Signature: <u>[Signature]</u>	Date: <u>10-26-22</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Brendan Glennon</u>		Location: <u>Duck Creek</u>	
Weather: <u>57°H 57°L 38° 10mph SE</u>		Environment: <u>Field</u>	
Multiparameter Water Meter	Make: <u>Aquation</u>	Model: <u>600</u>	Serial Number: <u>846000</u>
Water Level Meter	Make: <u>*WL</u>	Model: <u>**Heron</u>	Serial Number: <u>19F211192H3</u>

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.67</u>	s.u.	±0.1 s.u.	<u>✓</u>	<u>Y</u>	<u>4.03</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.02</u>	s.u.	±0.1 s.u.	<u>✓</u>	<u>N</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.01</u>	s.u.	±0.1 s.u.	<u>✓</u>			MSI	M082-04	3/25/2024
SC Zero (DI)	<u>17.91</u>	µS/cm	0<25 µS/cm	<u>✓</u>			Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2092.5</u>	µS/cm	±5%	<u>✓</u>			Geotech	1GK328	Nov-22
ORP	<u>234.6</u>	mV	±15 mV	<u>✓</u>			In Situ	2GC827	Dec-22
DO (Zero pt)	<u>0.05</u>	mg/L	±0.1	<u>✓</u>			Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.12</u>	%	97-100%	<u>✓</u>			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.06</u>	NTU	<2 NTU	<u>✓</u>			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>0936</u>
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?
pH 4.00b	<u>4.01</u>	s.u.	±0.15 s.u.	<u>✓</u>	<u>N</u>
pH 7.00b	<u>6.90</u>	s.u.	±0.15 s.u.	<u>✓</u>	
pH 10.00b	<u>9.94</u>	s.u.	±0.15 s.u.	<u>✓</u>	
SC 1000	<u>1035.7</u>	µS/cm	±5%	<u>✓</u>	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>1512</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.09</u>	s.u.	±0.1 s.u.	<u>✓</u>	<u>N</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.08</u>	s.u.	±0.1 s.u.	<u>✓</u>			MSI	L172-33	6/23/2023
pH 10.00a	<u>9.99</u>	s.u.	±0.1 s.u.	<u>✓</u>			MSI	L354-22	1/5/2024
SC 1000	<u>958.99</u>	µS/cm	±5%	<u>✓</u>			Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.07</u>	mg/L	±0.1 mg/L	<u>✓</u>			Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.72</u>	NTU	<2 NTU	<u>✓</u>			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments: * Heron ** Dipper T

Signature: <u>Brendan Glennon</u>	Date: <u>10/26/22</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: AM + JR			Location: Duck Creek		
Weather: 57° 10 mph SE			Environment: Sunny		
Multiparameter Water Meter		Make: Hanna	Model:	Serial Number: 07010006101	
Water Level Meter		Make: Heron	Model: DipperT	Serial Number:	

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.97	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.18	s.u.	±0.1 s.u.	P	N		MSI	L343-07	12/9/2023
pH 10.00a	7.48	s.u.	±0.1 s.u.	P	N		MSI	M082-04	3/25/2024
SC Zero (DI)	16	µS/cm	0<25 µS/cm	P	N		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2093	µS/cm	±5%	P	N		Geotech	1GK328	Nov-22
ORP 17°C	231.7	mV	±15 mV	P	N		InSitu	2GC827	Dec-22
DO (Zero pt)	1.09	mg/L	±0.1	P	N		Macron	#000228049	8/26/2025
DO (Saturated)	48.2	%	97-100%	P	N		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	2.0	NTU	<2 NTU	P	N		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time:		
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.98	s.u.	±0.15 s.u.	P		Geotech	2GC243	Mar-24
pH 7.00b	6.85	s.u.	±0.15 s.u.	P		Geotech	2GC931	Mar-24
pH 10.00b	9.88	s.u.	±0.15 s.u.	P		Geotech	2GE820	May-24
SC 1000	1048	µS/cm	±5%	P		Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P			MSI	L315-04	11/22/2023
pH 7.00a	7.09	s.u.	±0.1 s.u.	P			MSI	L172-33	6/23/2023
pH 10.00a	9.95	s.u.	±0.1 s.u.	P			MSI	L354-22	1/5/2024
SC 1000	1050	µS/cm	±5%	P			Ricca	2108D48	Jul-23
DO (Zero pt)	0.04	mg/L	±0.1 mg/L	P			Macron	#000228049	8/26/2025
Turbidity (DI)	0.1	NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: Joseph R. Reed	Date: 10/26/22
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <i>AP</i>			Location: <i>Duck Creek</i>		
Weather: <i>48.0. 55.0. Sunny Wind SE 9mph</i>			Environment: <i>grass, dirt, mud</i>		
Multiparameter Water Meter	Make: <i>Hanna</i>	Model: <i>HC9829</i>	Serial Number: <i>7629829</i>		
Water Level Meter	Make: <i>Solinst</i>	Model: <i>model 101</i>	Serial Number: <i>269022</i>		

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>3.97</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>NA</i>	MSI	L344-09	12/14/2023
pH 7.00a	<i>7.05</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>I</i>	<i>I</i>	MSI	L343-07	12/9/2023
pH 10.00a	<i>9.96</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	M082-04	3/25/2024
SC Zero (DI)	<i>22.0</i>	µS/cm	0<25 µS/cm	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<i>2060</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	<i>I</i>	Geotech	1GK328	Nov-22
ORP	<i>238</i>	mV	±15 mV	<i>I</i>	<i>I</i>	<i>I</i>	InSitu	2GC827	Dec-22
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1	<i>I</i>	<i>I</i>	<i>I</i>	Macron	#000228049	8/26/2025
DO (Saturated)	<i>98.0</i>	%	97-100%	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<i>0.0</i>	NTU	<2 NTU	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <i>1000</i>	<i>24h @ 10°C</i>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<i>3.99</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>NA</i>	Geotech	2GC243	Mar-24	
pH 7.00b	<i>7.02</i>	s.u.	±0.15 s.u.	<i>P</i>	<i>I</i>	Geotech	2GC931	Mar-24	
pH 10.00b	<i>10.00</i>	s.u.	±0.15 s.u.	<i>I</i>	<i>I</i>	Geotech	2GE820	May-24	
SC 1000	<i>1022</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <i>1600</i>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<i>4.05</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>NO</i>	<i>NA</i>	MSI	L315-04	11/22/2023
pH 7.00a	<i>7.02</i>	s.u.	±0.1 s.u.	<i>P</i>	<i>I</i>	<i>I</i>	MSI	L172-33	6/23/2023
pH 10.00a	<i>10.06</i>	s.u.	±0.1 s.u.	<i>I</i>	<i>I</i>	<i>I</i>	MSI	L354-22	1/5/2024
SC 1000	<i>1022</i>	µS/cm	±5%	<i>I</i>	<i>I</i>	<i>I</i>	Ricca	2108D48	Jul-23
DO (Zero pt)	<i>0.09</i>	mg/L	±0.1 mg/L	<i>I</i>	<i>I</i>	<i>I</i>	Macron	#000228049	8/26/2025
Turbidity (DI)	<i>0.00</i>	NTU	<2 NTU	<i>I</i>	<i>I</i>	<i>I</i>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: 	Date: <i>10/27/22</i>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Austin Moore</u>				Location: <u>Duck Creek</u>			
Weather: <u>57°-36° sunny wind ESE 9 mph</u>				Environment: <u>Grass, woods, mud</u>			
Multiparameter Water Meter		Make: <u>Hanna</u>	Model: <u>U-32</u>	Serial Number: <u>W4FRKWO2</u>			
Water Level Meter		Make: <u>WT</u>	Model: <u>Heron</u>	Serial Number: <u>19FF2202B1ML</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N/A</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.91</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.04</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>0.00</u>	µS/cm	0<25 µS/cm	<u>I</u>	<u>I</u>	<u>I</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2.030</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Geotech	1GK328	Nov-22
ORP	<u>236</u>	mV	±15 mV	<u>I</u>	<u>I</u>	<u>I</u>	InSitu	2GC827	Dec-22
DO (Zero pt)	<u>0.02</u>	mg/L	±0.1	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>N/A</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>0931</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.02</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N/A</u>	Geotech	2GC243	Mar-24	
pH 7.00b	<u>7.01</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech	2GC931	Mar-24	
pH 10.00b	<u>9.96</u>	s.u.	±0.15 s.u.	<u>I</u>	<u>I</u>	Geotech	2GE820	May-24	
SC 1000	<u>997.1 AM 971</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>1946</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N/A</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N/A</u>	<u>N/A</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.	<u>I</u>	<u>I</u>	<u>I</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1021</u>	µS/cm	±5%	<u>I</u>	<u>I</u>	<u>I</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.02</u>	mg/L	±0.1 mg/L	<u>I</u>	<u>I</u>	<u>I</u>	Macron	#000228049	8/26/2025
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

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

Comments:

Signature: <u>Austin Moore</u>	Date: <u>27-Oct-22</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Brendan Glennon</u>				Location: <u>Duck Creek</u>			
Weather: <u>43° 58°-35° 7mph W</u>				Environment: <u>Field</u>			
Multiparameter Water Meter		Make: <u>AT</u>	Model: <u>600</u>	Serial Number: <u>846000</u>			
Water Level Meter		Make: <u>Solinst</u>	Model: <u>101</u>	Serial Number: <u>336216</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>9.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>21.23</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000 @ 7.4°C	<u>8669.5</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Geotech	1GK328	Nov-22
ORP	<u>242.2</u>	mV	±15 mV	<u>P</u>	<u>N</u>	<u>N/A</u>	InSitu	2GC827	Dec-22
DO (Zero pt)	<u>0.03</u>	mg/L	±0.1	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.2</u>	%	97-100%	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>0910</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>3.98</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC243	Mar-24	
pH 7.00b	<u>6.90</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC931	Mar-24	
pH 10.00b	<u>10.03</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GE820	May-24	
SC 1000	<u>870.35</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>1513</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.05</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L354-22	1/5/2024
SC 1000	<u>967.28</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	<u>N/A</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.04</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments: Spec Con calibrated to 1000 µS/cm @ 20.0°C

Signature: <u>Brendan Glennon</u>	Date: <u>10/27/22</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Austin Moore</u>				Location: <u>Duck Creek</u>					
Weather: <u>63-37 sunny</u> ^{wind} <u>ENE 7 mph</u>				Environment: <u>Grassy, mud, woods</u>					
Multiparameter Water Meter		Make: <u>Horiba</u>	Model: <u>V-52</u>	Serial Number: <u>W4FRKWD2</u>					
Water Level Meter		Make: <u>WT</u>	Model: <u>Solinst</u>	Serial Number: <u>269022</u>					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.09</u>	s.u.	±0.1 s.u.	<u>P</u>			MSI	L344-09	12/14/2023
pH 7.00a	<u>6.95</u>	s.u.	±0.1 s.u.	<u>P</u>			MSI	L343-07	12/9/2023
pH 10.00a	<u>10.01</u>	s.u.	±0.1 s.u.	<u>P</u>			MSI	M082-04	3/25/2024
SC Zero (DI)	<u>25</u>	µS/cm	0<25 µS/cm	<u>P</u>			Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2040</u>	µS/cm	±5%	<u>P</u>			Geotech	1GK328	Nov-22
ORP	<u>240</u>	mV	±15 mV	<u>P</u>			InSitu	2GC827	Dec-22
DO (Zero pt)	<u>0.05</u>	mg/L	±0.1	<u>P</u>			Macron	#000228049	8/26/2025
DO (Saturated)	<u>N/A</u>	%	97-100%	<u>P</u>			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU	<u>P</u>			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>0943</u>				
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Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>4.05</u>	s.u.	±0.15 s.u.	<u>P</u>		Geotech	2GC243	Mar-24
pH 7.00b	<u>6.99</u>	s.u.	±0.15 s.u.	<u>P</u>		Geotech	2GC931	Mar-24
pH 10.00b	<u>9.96</u>	s.u.	±0.15 s.u.	<u>P</u>		Geotech	2GE820	May-24
SC 1000	<u>1020</u>	µS/cm	±5%	<u>P</u>		Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>1423</u>				
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Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.09</u>	s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
pH 7.00a	<u>7.06</u>	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	<u>10.06</u>	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	<u>1040</u>	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.08</u>	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.00</u>	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: <u>Austin Moore</u>	Date: <u>28-Oct-22</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Brendan Gilman</u>				Location: <u>Duck Creek</u>					
Weather: <u>44° (63°-36°) 7mph W</u>				Environment: <u>Field</u>					
Multiparameter Water Meter		Make: <u>AT</u>	Model: <u>600</u>	Serial Number: <u>84600C</u>					
Water Level Meter		Make: <u>WL</u>	Model: <u>Heron</u>	Serial Number: <u>19FF211192HB</u>					

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.57</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>Y</u>	<u>4.00</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.06</u>	s.u.	±0.1 s.u.	<u>F</u>	<u>N</u>	<u>N/A</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.07</u>	s.u.	±0.1 s.u.	<u>L</u>	<u>L</u>	<u>L</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>7.42</u>	µS/cm	0<25 µS/cm	<u>L</u>	<u>L</u>	<u>L</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000 @ 10°C	<u>1720.3</u>	µS/cm	±5%	<u>F</u>	<u>Y</u>	<u>2000.0</u>	Geotech	1GK328	Nov-22
ORP	<u>247.5</u>	mV	±15 mV	<u>P</u>	<u>N</u>	<u>N/A</u>	InSitu	2GC827	Dec-22
DO (Zero pt)	<u>0.07</u>	mg/L	±0.1	<u>L</u>	<u>L</u>	<u>L</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>98.22</u>	%	97-100%	<u>L</u>	<u>L</u>	<u>L</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.69</u>	NTU	<2 NTU	<u>L</u>	<u>L</u>	<u>L</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>0915</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.09</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC243	Mar-24	
pH 7.00b	<u>7.02</u>	s.u.	±0.15 s.u.	<u>L</u>	<u>L</u>	Geotech	2GC931	Mar-24	
pH 10.00b	<u>9.99</u>	s.u.	±0.15 s.u.	<u>L</u>	<u>L</u>	Geotech	2GE820	May-24	
SC 1000	<u>1035.8</u>	µS/cm	±5%	<u>L</u>	<u>L</u>	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>1420</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.03</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.07</u>	s.u.	±0.1 s.u.	<u>L</u>	<u>L</u>	<u>L</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.07</u>	s.u.	±0.1 s.u.	<u>L</u>	<u>L</u>	<u>L</u>	MSI	L354-22	1/5/2024
SC 1000	<u>1042.6</u>	µS/cm	±5%	<u>L</u>	<u>L</u>	<u>L</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.8</u>	mg/L	±0.1 mg/L	<u>L</u>	<u>L</u>	<u>L</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.95</u>	NTU	<2 NTU	<u>L</u>	<u>L</u>	<u>L</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: <u>Brendan Gilman</u>	Date: <u>10/28/22</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Kyle Lane AP</u>				Location: <u>Duck Creek</u>			
Weather: <u>71° Sunny</u>				Environment: <u>Dry</u>			
Multiparameter Water Meter		Make: <u>17-Si+V</u>	Model: <u>AT 600</u>	Serial Number: <u>762193</u>			
Water Level Meter		Make: <u>Helon</u>	Model: <u>D:part 2</u>	Serial Number: <u>19F1220213 ML</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	L343-07	12/9/2023
pH 10.00a	<u>10.09</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>NA</u>	MSI	M082-04	3/25/2024
SC Zero (DI)	<u>23.35</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>1984.3</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	<u>NA</u>	Geotech	1GK328	Nov-22
ORP	<u>242.4</u>	mV	±15 mV	<u>P</u>	<u>NA</u>	<u>NA</u>	InSitu	2GC827	Dec-22
DO (Zero pt)	<u>0.02</u>	mg/L	±0.1	<u>P</u>	<u>NA</u>	<u>NA</u>	Macron	#000228049	8/26/2025
DO (Saturated)	<u>97.53</u>	%	97-100%	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>1.31</u>	NTU	<2 NTU	<u>P</u>	<u>NA</u>	<u>NA</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>09:41</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.04</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GC243	Mar-24	
pH 7.00b	<u>7.00</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GC931	Mar-24	
pH 10.00b	<u>10.09</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>NA</u>	Geotech	2GE820	May-24	
SC 1000	<u>990.56</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>14:46</u>				
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>NA</u>	<u>N/A</u>	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.03</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>N/A</u>	MSI	L172-33	6/23/2023
pH 10.00a	<u>10.05</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>NA</u>	<u>N/A</u>	MSI	L354-22	1/5/2024
SC 1000	<u>971.51</u>	µS/cm	±5%	<u>P</u>	<u>NA</u>	<u>N/A</u>	Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.01</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>NA</u>	<u>N/A</u>	Macron	#000228049	8/26/2025
Turbidity (DI)	<u>1.43</u>	NTU	<2 NTU	<u>P</u>	<u>NA</u>	<u>N/A</u>	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: [Signature]

Date: 6-28-22

Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Joe Reed</u>				Location: <u>Duck Creek</u>			
Weather:				Environment: <u>Grass</u>			
Multiparameter Water Meter		Make: <u>Hanna</u>	Model: <u>HI 9829</u>	Serial Number: <u>07010006</u>			
Water Level Meter		Make: <u>Solinst</u>	Model: <u>101</u>	Serial Number: <u>33459</u>			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.00</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	/	MSI	L344-09	12/14/2023
pH 7.00a	<u>7.06</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	L343-07	12/9/2023
pH 10.00a	<u>10.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	M082-04	3/25/2024
SC Zero (DI)	<u>10.12</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2049.2</u>	µS/cm	±5%	<u>P</u>	<u>N</u>		Geotech	1GK328	Nov-22
ORP	<u>240.1</u>	mV	±15 mV	<u>P</u>	<u>N</u>		In Situ	2GC827	Dec-22
DO (Zero pt)	<u>0.01</u>	mg/L	±0.1	<u>P</u>	<u>N</u>		Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.5</u>	%	97-100%	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.50</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: <u>940</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	<u>3.95</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>None</u>	Geotech	2GC243	Mar-24
pH 7.00b	<u>6.97</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>None</u>	Geotech	2GC931	Mar-24
pH 10.00b	<u>10.03</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>None</u>	Geotech	2GE820	May-24
SC 1000	<u>1019.4</u>	µS/cm	±5%	<u>P</u>	<u>None</u>	Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: <u>1442</u>				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.93</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	/	MSI	L315-04	11/22/2023
pH 7.00a	<u>6.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	L172-33	6/23/2023
pH 10.00a	<u>10.07</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	L354-22	1/5/2024
SC 1000	<u>1027.1</u>	µS/cm	±5%	<u>P</u>	<u>N</u>		Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.04</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>		Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.50</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature:	Date: <u>10/28/22</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: <u>Joe Reed</u>				Location: <u>Duck Creek</u>			
Weather:				Environment: <u>Rain Grassy</u>			
Multiparameter Water Meter		Make: <u>Hanna</u>	Model:	Serial Number:			
Water Level Meter		Make:	Model:	Serial Number:			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>3.98</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	/	MSI	L344-09	12/14/2023
pH 7.00a	<u>6.99</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	L343-07	12/9/2023
pH 10.00a	<u>10.02</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	M082-04	3/25/2024
SC Zero (DI)	<u>4.08</u>	µS/cm	0<25 µS/cm	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)
SC 2000	<u>2021</u>	µS/cm	±5%	<u>P</u>	<u>N</u>		Geotech	1GK328	Nov-22
ORP	<u>240.1</u>	mV	±15 mV	<u>P</u>	<u>N</u>		InSitu	2GC827	Dec-22
DO (Zero pt)	<u>0.01</u>	mg/L	±0.1	<u>P</u>	<u>N</u>		Macron	#000228049	8/26/2025
DO (Saturated)	<u>99.1</u>	%	97-100%	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>	Pace Labs	N/A (DI)	N/A (DI)	

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: <u>930</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.	
pH 4.00b	<u>4.00</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC243	Mar-24	
pH 7.00b	<u>7.01</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GC931	Mar-24	
pH 10.00b	<u>10.08</u>	s.u.	±0.15 s.u.	<u>P</u>	<u>N</u>	Geotech	2GE820	May-24	
SC 1000	<u>1030</u>	µS/cm	±5%	<u>P</u>	<u>N</u>	Ricca	4205H64	May-24	

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: <u>1530</u>			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	<u>4.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>	/	MSI	L315-04	11/22/2023
pH 7.00a	<u>7.01</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	L172-33	6/23/2023
pH 10.00a	<u>10.08</u>	s.u.	±0.1 s.u.	<u>P</u>	<u>N</u>		MSI	L354-22	1/5/2024
SC 1000	<u>1033</u>	µS/cm	±5%	<u>P</u>	<u>N</u>		Ricca	2108D48	Jul-23
DO (Zero pt)	<u>0.1</u>	mg/L	±0.1 mg/L	<u>P</u>	<u>N</u>		Macron	#000228049	8/26/2025
Turbidity (DI)	<u>0.0</u>	NTU	<2 NTU	<u>P</u>	<u>N</u>		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

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

Comments:

Signature: <u>Joe Reed</u>	Date: <u>10/31/22</u>
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Multiparameter Meter Field Calibration Checklist

Field Personnel: KALEB DESKE				Location: DUCK CREEK			
Weather: 26° Sunny WIND 20 mph E				Environment: GRASSY, COLD			
Multiparameter Water Meter		Make: PH TESTER	Model: OAKTON	Serial Number: B076F27MQR			
Water Level Meter		Make: WT	Model: HERON	Serial Number: 19FF2202131ML			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	PASS	NO	NA	MSI	L315-04	11/22/2023
pH 7.00a	7.03	s.u.	±0.1 s.u.	+	+	+	MSI	L172-33	6/23/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.	+	+	+	MSI	L354-22	1/5/2024
SC Zero (DI)		µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000		µS/cm	±5%				Geotech	1GK328	Nov-22
ORP		mV	±15 mV				InSitu	1GL481	Sep-22
DO (Zero pt)		mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)		%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)						Time: 0952
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer
pH 4.00b	4.01	s.u.	±0.15 s.u.	PASS	NO	Geotech
pH 7.00b	7.06	s.u.	±0.15 s.u.	+	+	Geotech
pH 10.00b	10.04	s.u.	±0.15 s.u.	+	+	Geotech
SC 1000		µS/cm	±5%			Ricca

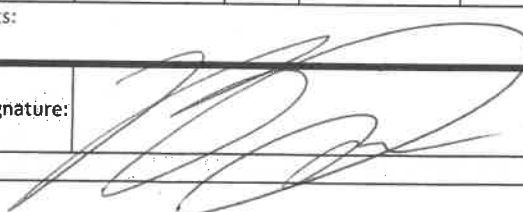
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):						Time: 1052			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.06	s.u.	±0.1 s.u.	PASS	NO	NA	MSI	L315-04	11/22/2023
pH 7.00a	7.04	s.u.	±0.1 s.u.	+	+	+	MSI	L172-33	6/23/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.	+	+	+	MSI	L354-22	1/5/2024
SC 1000		µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

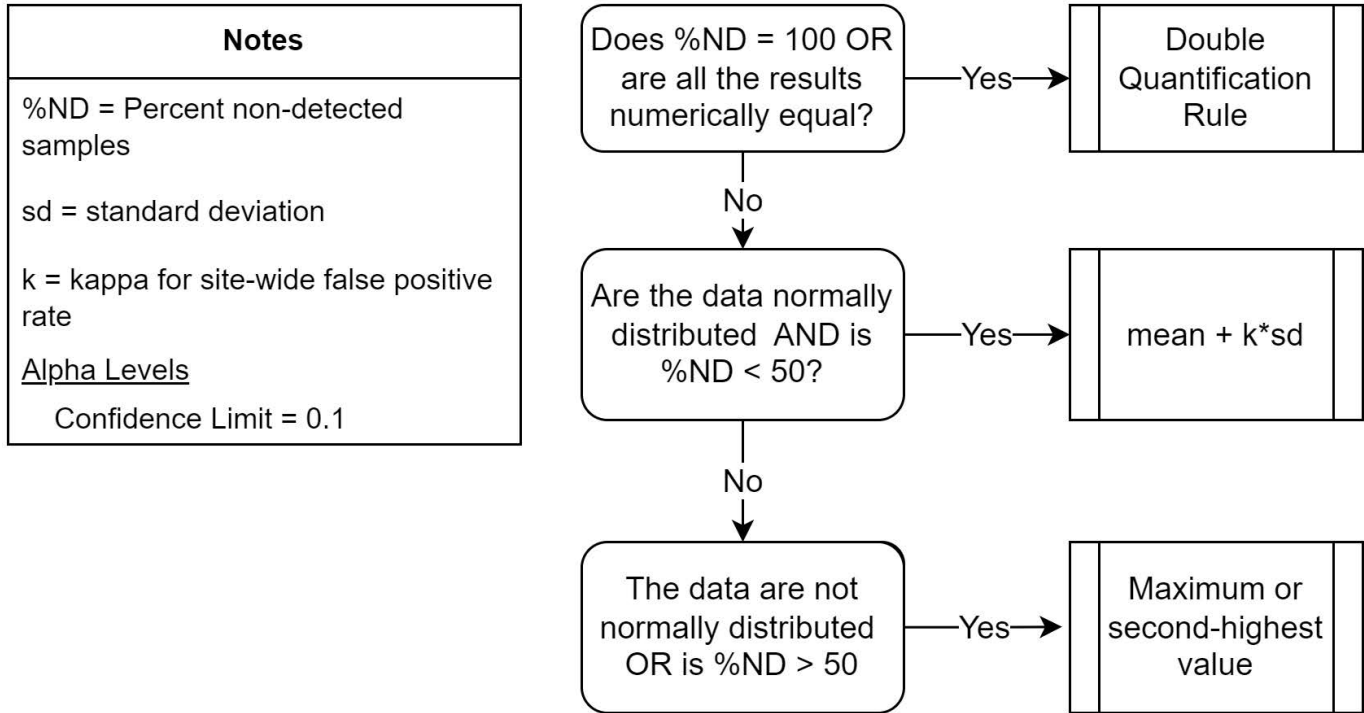
CCV (Continued Calibration Verification):						Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L315-04	11/22/2023
7.00a		s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
10.00a		s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000		µS/cm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

Comments:

Signature: 	Date: 11/30/22
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APPENDIX B

STATISTICAL METHODOLOGY FOR DETERMINATION OF BACKGROUND VALUES



When data are not normally distributed or %ND > 50, the maximum value is used if the background sample size is < 60. Where the background sample size is > 60, the achievable per-constituent false positive rates for the maximum and second-highest background values will be compared, and the background value with the achievable per-constituent false positive rate that is closest to, but does not exceed, the target per-constituent false positive rate of 0.015% is used.

APPENDIX C

ALTERNATE SOURCE DEMONSTRATIONS

Intended for

Illinois Power Resources Generating, LLC

Date

August 20, 2022

Project No.

1940102203-006

40 C.F.R. § 257.94(E)(2): NATURAL VARIABILITY DEMONSTRATION

DUCK CREEK POWER PLANT

BOTTOM ASH BASIN

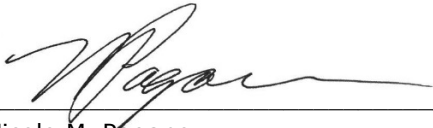
CCR UNIT 205



Bright ideas. Sustainable change.

CERTIFICATIONS

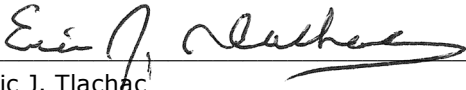
I, Nicole M. Pagano, a professional geologist in good standing in the State of Illinois, certify that the information in this report is accurate as of the date of my signature below. The content of this report is not to be used other than for its intended purpose and meaning, or for extrapolations beyond the interpretations contained herein.



Nicole M. Pagano
Professional Geologist
196-000750
Illinois
Ramboll Americas Engineering Solutions, Inc.
Date: August 20, 2022



I, Eric J. Tlachac, a qualified professional engineer in good standing in the State of Illinois, certify that the information in this report is accurate as of the date of my signature below. The content of this report is not to be used other than for its intended purpose and meaning, or for extrapolations beyond the interpretations contained herein.



Eric J. Tlachac
Qualified Professional Engineer
062-063091
Illinois
Ramboll Americas Engineering Solutions, Inc.
Date: August 20, 2022



NATURAL VARIABILITY DEMONSTRATION

Title 40 of the Code of Federal Regulations (40 C.F.R.) § 257.94(e)(2) allows the owner or operator of a coal combustion residuals (CCR) unit 90 days from the date of determination of a Statistically Significant Increase (SSI) over background for groundwater constituents listed in Appendix III of 40 C.F.R. § 257 to complete a written demonstration that a source other than the CCR unit being monitored caused the SSI(s) (Alternate Source Demonstration), or that the SSI(s) resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality.

This Natural Variability Demonstration has been prepared on behalf of Illinois Power Resources Generating, LLC, by Ramboll Americas Engineering Solutions, Inc. to provide pertinent information pursuant to 40 C.F.R. § 257.94(e)(2) for the Bottom Ash Basin (BAB) located at Duck Creek Power Plant (DCPP) located near Canton, Illinois.

The most recent Detection Monitoring sampling event (D10) was completed on January 31, 2022, and analytical data were received on February 21, 2022. In accordance with 40 C.F.R. § 257.93(h)(2), statistical analysis of the data to identify SSIs of 40 C.F.R. § 257 Subpart D (CCR Rule) Appendix III parameters over background concentrations was completed by May 22, 2022, within 90 days of receipt of the analytical data. The statistical determination identified the following SSIs at compliance monitoring wells:

- pH at well BA01

In accordance with the Statistical Analysis Plan¹, well BA01 was resampled on June 23, 2022 and measured for pH to confirm the SSI. This pH measurement did not confirm the SSI, indicating the natural variability of pH in the uppermost aquifer. Natural variation in groundwater may result in occasional exceedances of the statistical background value in compliance wells.

This Natural Variability Demonstration was completed by August 20, 2022, within 90 days of determination of the SSIs (May 22, 2022), as required by 40 C.F.R. § 257.94(e)(2).

¹ Natural Resource Technology, an OBG Company [NRT/OBG], 2017. Statistical Analysis Plan, Baldwin Energy Complex, Havana Power Station, Hennepin Power Station, Wood River Power Station, Dynegy Midwest Generation, LLC, October 17, 2017.