Prepared for
Illinois Power Resources Generating, LLC

Date
January 31, 2024

Project No.
1940103649-005

2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

BOTTOM ASH BASIN

DUCK CREEK POWER PLANT

CANTON, ILLINOIS

CCR UNIT 205

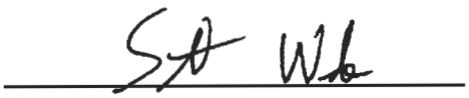
RAMBOLL Bright ideas. Sustainable change.

2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT DUCK CREEK POWER PLANT BOTTOM ASH BASIN

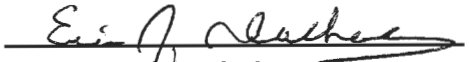
Project name	**Duck Creek Power Plant Bottom Ash Basin**
Project no.	**1940103649-005**
Recipient	**Illinois Power Resources Generating, LLC**
Document type	**Annual Groundwater Monitoring and Corrective Action Report**
Version	**FINAL**
Date	**January 31, 2024**
Prepared by	**Scott S. Woods**
Checked by	**Lauren D. Cook**
Approved by	**Eric J. Tlachac**
Description	**Annual Report required by 40 C.F.R. § 257.90(e)**

Ramboll
234 W. Florida Street
Fifth Floor
Milwaukee, WI 53204
USA

T 414-837-3607
F 414-837-3608
https://ramboll.com



Scott S. Woods
Hydrogeologist



Eric J. Tlachac, PE
Senior Managing Engineer

CONTENTS

TABLES (IN TEXT)

TABLES (ATTACHED)

FIGURES (ATTACHED)

APPENDICES

ACRONYMS AND ABBREVIATIONS

35 I.A.C.	Title 35 of the Illinois Administrative Code
40 C.F.R.	Title 40 of the Code of Federal Regulations
ASD	Alternative Source Demonstration
BAB	Bottom Ash Basin
CCR	coal combustion residuals
D12	Quarter 1, 2023 Detection Monitoring sampling event
D12R	Quarter 2, 2023 Detection Monitoring sampling event
D13	Quarter 3, 2023 Detection Monitoring sampling event
D13R	Quarter 4, 2023 Detection Monitoring sampling event
DCPP	Duck Creek Power Plant
GWPS	groundwater protection standard
IEPA	Illinois Environmental Protection Agency
NA	not applicable
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.

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

No Statistically Significant Increases (SSIs) of 40 C.F.R. § 257 Appendix III parameter concentrations greater than background concentrations were reported in 2023. 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 DCPP 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 (**Section 2**), summarizes key actions completed (**Section 3**), describes any problems encountered and actions to resolve the problems (**Section 4**), and projects key activities for the upcoming year (**Section 5**). At a minimum, the annual report must contain the following information, to the extent available:

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

B. Provide the date when the Assessment Monitoring Program was initiated for the CCR unit.

iv. If it was determined that there was a statistically significant level above the groundwater protection standard [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 2023.

2. MONITORING AND CORRECTIVE ACTION PROGRAM STATUS

No changes have occurred to the monitoring program status in calendar year 2023 and the BAB remains in the Detection Monitoring Program in accordance with 40 C.F.R. § 257.94.

3. KEY ACTIONS COMPLETED IN 2023

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

One groundwater sample was collected from each background and compliance well during each monitoring event[1]. The AP is also regulated under 35 I.A.C. § 845, which requires quarterly monitoring. The groundwater monitoring systems for both programs (35 I.A.C. § 845 and 40 C.F.R. § 257) are identical, so all available data from the four quarterly monitoring events in 2023 are included in this report. All samples were collected and analyzed in accordance with the Multi-Site Sampling and Analysis Plan (SAP) (Ramboll, 2023). All data collected for the 40 C.F.R. § 257 monitoring program and 40 C.F.R. § 257 Appendix III parameters that were analyzed under the 35 I.A.C. § 845 program were compared to background concentrations in accordance with 40 C.F.R. § 257.94(e)(1).

Potentiometric surfaces for the quarterly sampling events are included in **Figures 2 through 5**. All monitoring data and analytical results obtained under 40 C.F.R. § 257.90 through 257.98 and 40 C.F.R. § 257 Appendix III parameters that were analyzed under the 35 I.A.C. § 845 program in 2023 are presented in **Tables 1 and 2**. All associated laboratory reports and field data sheets are included in **Appendix A**.

Analytical data were evaluated in accordance with the Multi-Site Statistical Analysis Plan (Ramboll, 2022b), the Multi-Site Quality Assurance Project Plan (Ramboll, 2022c), and the Multi-Site Data Management Plan (Ramboll, 2022d) to determine any SSIs of Appendix III parameters greater than background values. SSIs are summarized in **Table A** and highlighted in **Table 2**. 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**.

No SSIs were reported in 2023 and the BAB remains in the Detection Monitoring Program.

[1]Monitoring well BA02L had insufficient water for purging; therefore, a groundwater sample was not collected during D13 sampling event.

Table A. 2023 Detection Monitoring Program Summary

Event ID	Sampling Dates [1, 2, 3]	Analytical Data Receipt Date [4]	SSI(s) Determination Date	SSI(s)	ASD Completion Date
D12	January 10, 2023	February 15, 2023	May 16, 2023	None	NA
D12R	May 10 – May 15, 2023	June 13, 2023	NA	NA	NA
D13	July 24 – September 6, 2023	October 21, 2023	January 19, 2024	pH at wells BA01, BA02, and BA03L	TBD
D13R	October 18 - 19, 2023	January 19, 2024	NA	NA	NA

Notes:

ASD: Alternative Source Demonstration

NA: not applicable

SSI: Statistically Significant Increase

TBD: to be determined in 2024

[1] All samples were analyzed for Appendix III parameters listed in 40 C.F.R. § 257.94(e)

[2] The following background wells were sampled for each event: BA05 and BA06

[3] The following compliance wells were sampled for each event: BA01, BA02, BA02L, BA03, BA03L, and BA04

[4] All data collected for the 40 C.F.R. § 257 monitoring program and Appendix III parameters that were analyzed under the 35 I.A.C. § 845 program were included for background calculations in accordance with 40 C.F.R. § 257.94(e)(1).

4. PROBLEMS ENCOUNTERED AND ACTIONS TO RESOLVE THE PROBLEMS

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

5. KEY ACTIVITIES PLANNED FOR 2024

The following key activities are planned for 2024:

- Continuation of the Detection Monitoring Program with semiannual sampling scheduled for the first and third quarters of 2024 (and sampling for 35 I.A.C. § 845 scheduled for the second and fourth quarters).
- Complete evaluation of analytical data from the compliance wells 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 2024 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 2024 (*e.g.,* Assessment Monitoring) will be met, including associated recordkeeping/notifications required by 40 C.F.R. §§ 257.105 through 257.108.

6. REFERENCES

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

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

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

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

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

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

TABLES

TABLE 1
GROUNDWATER ELEVATION DATA
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT
BOTTOM ASH BASIN
CANTON, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
BA01	Compliance	UA	01/09/2023	16.42	570.67
BA01	Compliance	UA	04/08/2023	14.46	572.63
BA01	Compliance	UA	05/08/2023	14.89	572.20
BA01	Compliance	UA	06/17/2023	16.91	570.17
BA01	Compliance	UA	07/17/2023	14.99	572.09
BA01	Compliance	UA	08/16/2023	14.22	572.87
BA01	Compliance	UA	09/16/2023	15.63	571.46
BA01	Compliance	UA	10/16/2023	16.25	570.84
BA01	Compliance	UA	11/20/2023	16.08	571.01
BA01	Compliance	UA	12/04/2023	15.54	571.55
BA02	Compliance	UA	01/09/2023	11.59	568.33
BA02	Compliance	UA	05/15/2023	[8.39]	[571.53]
BA02	Compliance	UA	07/25/2023	[12.02]	[567.90]
BA02	Compliance	UA	10/16/2023	13.03	566.89
BA02	Compliance	UA	11/20/2023	12.23	567.69
BA02	Compliance	UA	12/04/2023	11.89	568.03
BA02L	Compliance	UA/PMP	01/09/2023	11.47	568.44
BA02L	Compliance	UA/PMP	04/08/2023	10.93	568.97
BA02L	Compliance	UA/PMP	05/08/2023	11.49	568.41
BA02L	Compliance	UA/PMP	06/17/2023	11.06	568.84
BA02L	Compliance	UA/PMP	07/17/2023	11.06	568.84
BA02L	Compliance	UA/PMP	09/06/2023	[10.95]	[568.96]
BA02L	Compliance	UA/PMP	10/18/2023	11.31	568.60
BA02L	Compliance	UA/PMP	11/20/2023	Dry	Dry
BA02L	Compliance	UA/PMP	12/04/2023	Dry	Dry
BA03	Compliance	UA	01/09/2023	6.92	571.42
BA03	Compliance	UA	04/08/2023	5.25	573.08
BA03	Compliance	UA	05/08/2023	5.95	572.39
BA03	Compliance	UA	07/24/2023	[10.48]	[567.86]
BA03	Compliance	UA	08/16/2023	8.53	569.81
BA03	Compliance	UA	10/16/2023	11.06	567.28
BA03	Compliance	UA	11/20/2023	9.48	568.86
BA03	Compliance	UA	12/04/2023	7.35	570.99
BA03L	Compliance	UA/PMP	01/09/2023	6.52	571.23
BA03L	Compliance	UA/PMP	04/08/2023	4.60	573.15
BA03L	Compliance	UA/PMP	05/08/2023	5.03	572.72
BA03L	Compliance	UA/PMP	06/17/2023	9.34	568.40
BA03L	Compliance	UA/PMP	07/17/2023	8.87	568.87
BA03L	Compliance	UA/PMP	08/16/2023	9.64	568.10
BA03L	Compliance	UA/PMP	09/06/2023	[9.46]	[568.29]
BA03L	Compliance	UA/PMP	09/16/2023	10.85	566.90
BA03L	Compliance	UA/PMP	10/16/2023	10.85	566.90
BA03L	Compliance	UA/PMP	11/20/2023	9.19	568.56
BA03L	Compliance	UA/PMP	12/04/2023	6.95	570.80
BA04	Compliance	UA	01/09/2023	7.93	570.26
BA04	Compliance	UA	04/08/2023	5.40	572.79

TABLE 1
GROUNDWATER ELEVATION DATA
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT
BOTTOM ASH BASIN
CANTON, IL

Well ID	Well Type	Monitored Unit	Date	Depth to Groundwater (feet BMP)	Groundwater Elevation (feet NAVD88)
BA04	Compliance	UA	05/08/2023	5.49	572.70
BA04	Compliance	UA	07/24/2023	[6.99]	[571.20]
BA04	Compliance	UA	10/16/2023	7.75	570.44
BA04	Compliance	UA	11/20/2023	7.40	570.79
BA04	Compliance	UA	12/04/2023	7.30	570.89
BA05	Background	UA	01/09/2023	22.15	573.57
BA05	Background	UA	04/08/2023	17.71	578.00
BA05	Background	UA	05/08/2023	18.53	577.18
BA05	Background	UA	06/17/2023	22.50	573.22
BA05	Background	UA	07/17/2023	21.09	574.63
BA05	Background	UA	08/16/2023	20.22	575.50
BA05	Background	UA	09/16/2023	21.93	573.79
BA05	Background	UA	10/16/2023	22.89	572.83
BA05	Background	UA	11/20/2023	21.49	574.23
BA05	Background	UA	12/04/2023	20.61	575.11
BA06	Background	UA	01/09/2023	28.19	567.44
BA06	Background	UA	04/08/2023	20.99	574.64
BA06	Background	UA	05/08/2023	21.46	574.17
BA06	Background	UA	06/17/2023	26.66	568.97
BA06	Background	UA	07/17/2023	24.89	570.74
BA06	Background	UA	08/16/2023	22.00	573.63
BA06	Background	UA	09/16/2023	23.52	572.11
BA06	Background	UA	10/16/2023	24.70	570.93
BA06	Background	UA	11/20/2023	24.38	571.25
BA06	Background	UA	12/04/2023	22.62	573.01

Notes:
Only wells with groundwater elevations measured are included.
BMP = below measuring point
Bracketing [ ] indicates that the measurement was obtained outside of the episodic depth to groundwater measurements time frame.
NAVD88 = North American Vertical Datum of 1988
Monitored Unit Abbreviations:

UA = uppermost aquifer

UA/PMP = uppermost aquifer/potential migration pathway

Generated 2024-01-24 13:19:36.987861 by banoffra

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT
BOTTOM ASH BASIN
CANTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
BA05	UA	Background	01/10/2023	D12	Boron, total	mg/L	0.110	NA	NA
BA05	UA	Background	05/12/2023	D12R	Boron, total	mg/L	0.100 J+	NA	NA
BA05	UA	Background	07/24/2023	D13	Boron, total	mg/L	0.120 J+	NA	NA
BA05	UA	Background	10/19/2023	D13R	Boron, total	mg/L	0.0810	NA	NA
BA05	UA	Background	01/10/2023	D12	Calcium, total	mg/L	200	NA	NA
BA05	UA	Background	05/12/2023	D12R	Calcium, total	mg/L	210	NA	NA
BA05	UA	Background	07/24/2023	D13	Calcium, total	mg/L	180	NA	NA
BA05	UA	Background	10/19/2023	D13R	Calcium, total	mg/L	200	NA	NA
BA05	UA	Background	01/10/2023	D12	Chloride, total	mg/L	9.30	NA	NA
BA05	UA	Background	05/12/2023	D12R	Chloride, total	mg/L	8.20	NA	NA
BA05	UA	Background	07/24/2023	D13	Chloride, total	mg/L	9.60	NA	NA
BA05	UA	Background	10/19/2023	D13R	Chloride, total	mg/L	8.30	NA	NA
BA05	UA	Background	01/10/2023	D12	Fluoride, total	mg/L	0.260	NA	NA
BA05	UA	Background	05/12/2023	D12R	Fluoride, total	mg/L	0.228 J	NA	NA
BA05	UA	Background	07/24/2023	D13	Fluoride, total	mg/L	0.25 UJ	NA	NA
BA05	UA	Background	10/19/2023	D13R	Fluoride, total	mg/L	0.194	NA	NA
BA05	UA	Background	01/10/2023	D12	pH (field)	SU	7.1	NA	NA
BA05	UA	Background	05/12/2023	D12R	pH (field)	SU	7.0	NA	NA
BA05	UA	Background	07/24/2023	D13	pH (field)	SU	6.8	NA	NA
BA05	UA	Background	10/19/2023	D13R	pH (field)	SU	6.8	NA	NA
BA05	UA	Background	01/10/2023	D12	Sulfate, total	mg/L	460	NA	NA
BA05	UA	Background	05/12/2023	D12R	Sulfate, total	mg/L	500	NA	NA
BA05	UA	Background	07/24/2023	D13	Sulfate, total	mg/L	500	NA	NA
BA05	UA	Background	10/19/2023	D13R	Sulfate, total	mg/L	480	NA	NA
BA05	UA	Background	01/10/2023	D12	Total Dissolved Solids	mg/L	1,200	NA	NA
BA05	UA	Background	05/12/2023	D12R	Total Dissolved Solids	mg/L	1,200	NA	NA
BA05	UA	Background	07/24/2023	D13	Total Dissolved Solids	mg/L	1,200	NA	NA
BA05	UA	Background	10/19/2023	D13R	Total Dissolved Solids	mg/L	1,200	NA	NA
BA06	UA	Background	01/10/2023	D12	Boron, total	mg/L	7.30	NA	NA
BA06	UA	Background	05/12/2023	D12R	Boron, total	mg/L	8.70	NA	NA
BA06	UA	Background	07/24/2023	D13	Boron, total	mg/L	9.00	NA	NA
BA06	UA	Background	10/19/2023	D13R	Boron, total	mg/L	9.90	NA	NA
BA06	UA	Background	01/10/2023	D12	Calcium, total	mg/L	300	NA	NA
BA06	UA	Background	05/12/2023	D12R	Calcium, total	mg/L	340	NA	NA
BA06	UA	Background	07/24/2023	D13	Calcium, total	mg/L	280	NA	NA
BA06	UA	Background	10/19/2023	D13R	Calcium, total	mg/L	300	NA	NA
BA06	UA	Background	01/10/2023	D12	Chloride, total	mg/L	590	NA	NA
BA06	UA	Background	05/12/2023	D12R	Chloride, total	mg/L	510	NA	NA
BA06	UA	Background	07/24/2023	D13	Chloride, total	mg/L	560	NA	NA
BA06	UA	Background	10/19/2023	D13R	Chloride, total	mg/L	510	NA	NA
BA06	UA	Background	01/10/2023	D12	Fluoride, total	mg/L	0.258	NA	NA
BA06	UA	Background	05/12/2023	D12R	Fluoride, total	mg/L	0.231 J	NA	NA
BA06	UA	Background	07/24/2023	D13	Fluoride, total	mg/L	0.264 J+	NA	NA
BA06	UA	Background	10/19/2023	D13R	Fluoride, total	mg/L	0.231	NA	NA
BA06	UA	Background	01/10/2023	D12	pH (field)	SU	6.7	NA	NA
BA06	UA	Background	05/12/2023	D12R	pH (field)	SU	6.4	NA	NA

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT
BOTTOM ASH BASIN
CANTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
BA06	UA	Background	07/24/2023	D13	pH (field)	SU	6.5	NA	NA
BA06	UA	Background	10/19/2023	D13R	pH (field)	SU	6.6	NA	NA
BA06	UA	Background	01/10/2023	D12	Sulfate, total	mg/L	300	NA	NA
BA06	UA	Background	05/12/2023	D12R	Sulfate, total	mg/L	340	NA	NA
BA06	UA	Background	07/24/2023	D13	Sulfate, total	mg/L	360	NA	NA
BA06	UA	Background	10/19/2023	D13R	Sulfate, total	mg/L	370	NA	NA
BA06	UA	Background	01/10/2023	D12	Total Dissolved Solids	mg/L	2,100	NA	NA
BA06	UA	Background	05/12/2023	D12R	Total Dissolved Solids	mg/L	2,200	NA	NA
BA06	UA	Background	07/24/2023	D13	Total Dissolved Solids	mg/L	2,300	NA	NA
BA06	UA	Background	10/19/2023	D13R	Total Dissolved Solids	mg/L	2,000	NA	NA
BA01	UA	Compliance	01/10/2023	D12	Boron, total	mg/L	0.0240	3.90	No Exceedance
BA01	UA	Compliance	05/11/2023	D12R	Boron, total	mg/L	0.0230 J+	3.90	No Exceedance
BA01	UA	Compliance	07/24/2023	D13	Boron, total	mg/L	0.0720 J+	3.90	No Exceedance
BA01	UA	Compliance	10/18/2023	D13R	Boron, total	mg/L	0.0300	3.90	No Exceedance
BA01	UA	Compliance	01/10/2023	D12	Calcium, total	mg/L	120	423	No Exceedance
BA01	UA	Compliance	05/11/2023	D12R	Calcium, total	mg/L	120 J+	423	No Exceedance
BA01	UA	Compliance	07/24/2023	D13	Calcium, total	mg/L	110	423	No Exceedance
BA01	UA	Compliance	10/18/2023	D13R	Calcium, total	mg/L	120	423	No Exceedance
BA01	UA	Compliance	01/10/2023	D12	Chloride, total	mg/L	17.0	650	No Exceedance
BA01	UA	Compliance	05/11/2023	D12R	Chloride, total	mg/L	16.0	650	No Exceedance
BA01	UA	Compliance	07/24/2023	D13	Chloride, total	mg/L	18.0	650	No Exceedance
BA01	UA	Compliance	10/18/2023	D13R	Chloride, total	mg/L	15.0 J+	650	No Exceedance
BA01	UA	Compliance	01/10/2023	D12	Fluoride, total	mg/L	0.261	0.549	No Exceedance
BA01	UA	Compliance	05/11/2023	D12R	Fluoride, total	mg/L	0.24 J	0.549	No Exceedance
BA01	UA	Compliance	07/24/2023	D13	Fluoride, total	mg/L	0.25 UJ	0.549	No Exceedance
BA01	UA	Compliance	10/18/2023	D13R	Fluoride, total	mg/L	0.134	0.549	No Exceedance
BA01	UA	Compliance	01/10/2023	D12	pH (field)	SU	7.0	6.9/7.7	No Exceedance
BA01	UA	Compliance	05/11/2023	D12R	pH (field)	SU	6.8	6.9/7.7	Exceedance Not Confirmed
BA01	UA	Compliance	07/24/2023	D13	pH (field)	SU	6.7	6.9/7.7	Confirmed
BA01	UA	Compliance	10/18/2023	D13R	pH (field)	SU	6.5	6.9/7.7	Confirmed
BA01	UA	Compliance	01/10/2023	D12	Sulfate, total	mg/L	140	613	No Exceedance
BA01	UA	Compliance	05/11/2023	D12R	Sulfate, total	mg/L	130	613	No Exceedance
BA01	UA	Compliance	07/24/2023	D13	Sulfate, total	mg/L	150	613	No Exceedance
BA01	UA	Compliance	10/18/2023	D13R	Sulfate, total	mg/L	160	613	No Exceedance
BA01	UA	Compliance	01/10/2023	D12	Total Dissolved Solids	mg/L	630	2240	No Exceedance
BA01	UA	Compliance	05/11/2023	D12R	Total Dissolved Solids	mg/L	620 J+	2240	No Exceedance
BA01	UA	Compliance	07/24/2023	D13	Total Dissolved Solids	mg/L	640	2240	No Exceedance
BA01	UA	Compliance	10/18/2023	D13R	Total Dissolved Solids	mg/L	660	2240	No Exceedance
BA02	UA	Compliance	01/10/2023	D12	Boron, total	mg/L	0.0520	3.90	No Exceedance
BA02	UA	Compliance	05/15/2023	D12R	Boron, total	mg/L	0.0680 J+	3.90	No Exceedance
BA02	UA	Compliance	07/25/2023	D13	Boron, total	mg/L	0.0510 J+	3.90	No Exceedance
BA02	UA	Compliance	10/18/2023	D13R	Boron, total	mg/L	0.0550	3.90	No Exceedance
BA02	UA	Compliance	01/10/2023	D12	Calcium, total	mg/L	91.0	423	No Exceedance
BA02	UA	Compliance	05/15/2023	D12R	Calcium, total	mg/L	96.0 J+	423	No Exceedance
BA02	UA	Compliance	07/25/2023	D13	Calcium, total	mg/L	99.0	423	No Exceedance
BA02	UA	Compliance	10/18/2023	D13R	Calcium, total	mg/L	92.0	423	No Exceedance

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT
BOTTOM ASH BASIN
CANTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
BA02	UA	Compliance	01/10/2023	D12	Chloride, total	mg/L	9.20	650	No Exceedance
BA02	UA	Compliance	05/15/2023	D12R	Chloride, total	mg/L	8.00	650	No Exceedance
BA02	UA	Compliance	07/25/2023	D13	Chloride, total	mg/L	11.0	650	No Exceedance
BA02	UA	Compliance	10/18/2023	D13R	Chloride, total	mg/L	9.00 J+	650	No Exceedance
BA02	UA	Compliance	01/10/2023	D12	Fluoride, total	mg/L	0.233 J	0.549	No Exceedance
BA02	UA	Compliance	05/15/2023	D12R	Fluoride, total	mg/L	0.185 J	0.549	No Exceedance
BA02	UA	Compliance	07/25/2023	D13	Fluoride, total	mg/L	0.322 J+	0.549	No Exceedance
BA02	UA	Compliance	10/18/2023	D13R	Fluoride, total	mg/L	0.147	0.549	No Exceedance
BA02	UA	Compliance	01/10/2023	D12	pH (field)	SU	7.2	6.9/7.7	No Exceedance
BA02	UA	Compliance	05/15/2023	D12R	pH (field)	SU	7.3	6.9/7.7	No Exceedance
BA02	UA	Compliance	07/25/2023	D13	pH (field)	SU	6.8	6.9/7.7	Confirmed
BA02	UA	Compliance	10/18/2023	D13R	pH (field)	SU	6.7	6.9/7.7	Confirmed
BA02	UA	Compliance	01/10/2023	D12	Sulfate, total	mg/L	12.0	613	No Exceedance
BA02	UA	Compliance	05/15/2023	D12R	Sulfate, total	mg/L	12.0	613	No Exceedance
BA02	UA	Compliance	07/25/2023	D13	Sulfate, total	mg/L	13.0	613	No Exceedance
BA02	UA	Compliance	10/18/2023	D13R	Sulfate, total	mg/L	12.0 J+	613	No Exceedance
BA02	UA	Compliance	01/10/2023	D12	Total Dissolved Solids	mg/L	500	2240	No Exceedance
BA02	UA	Compliance	05/15/2023	D12R	Total Dissolved Solids	mg/L	480 J	2240	No Exceedance
BA02	UA	Compliance	07/25/2023	D13	Total Dissolved Solids	mg/L	620	2240	No Exceedance
BA02	UA	Compliance	10/18/2023	D13R	Total Dissolved Solids	mg/L	530	2240	No Exceedance
BA02L	UA/PMP	Compliance	01/10/2023	D12	Boron, total	mg/L	0.0770	3.90	No Exceedance
BA02L	UA/PMP	Compliance	05/10/2023	D12R	Boron, total	mg/L	0.0680 J+	3.90	No Exceedance
BA02L	UA/PMP	Compliance	01/10/2023	D12	Calcium, total	mg/L	130	423	No Exceedance
BA02L	UA/PMP	Compliance	05/10/2023	D12R	Calcium, total	mg/L	77.0	423	No Exceedance
BA02L	UA/PMP	Compliance	01/10/2023	D12	Chloride, total	mg/L	5.30 B	650	No Exceedance
BA02L	UA/PMP	Compliance	05/10/2023	D12R	Chloride, total	mg/L	2.60	650	No Exceedance
BA02L	UA/PMP	Compliance	01/10/2023	D12	Fluoride, total	mg/L	0.445	0.549	No Exceedance
BA02L	UA/PMP	Compliance	05/10/2023	D12R	Fluoride, total	mg/L	0.403	0.549	No Exceedance
BA02L	UA/PMP	Compliance	01/10/2023	D12	pH (field)	SU	7.0	6.9/7.7	No Exceedance
BA02L	UA/PMP	Compliance	05/10/2023	D12R	pH (field)	SU	7.1	6.9/7.7	No Exceedance
BA02L	UA/PMP	Compliance	01/10/2023	D12	Sulfate, total	mg/L	94.0	613	No Exceedance
BA02L	UA/PMP	Compliance	05/10/2023	D12R	Sulfate, total	mg/L	14.0	613	No Exceedance
BA02L	UA/PMP	Compliance	01/10/2023	D12	Total Dissolved Solids	mg/L	480	2240	No Exceedance
BA02L	UA/PMP	Compliance	05/10/2023	D12R	Total Dissolved Solids	mg/L	370 J	2240	No Exceedance
BA03	UA	Compliance	01/10/2023	D12	Boron, total	mg/L	0.0200	3.90	No Exceedance
BA03	UA	Compliance	05/10/2023	D12R	Boron, total	mg/L	0.0240 J+	3.90	No Exceedance
BA03	UA	Compliance	07/24/2023	D13	Boron, total	mg/L	0.0450 J+	3.90	No Exceedance
BA03	UA	Compliance	10/17/2023	D13R	Boron, total	mg/L	0.0160	3.90	No Exceedance
BA03	UA	Compliance	01/10/2023	D12	Calcium, total	mg/L	100	423	No Exceedance
BA03	UA	Compliance	05/10/2023	D12R	Calcium, total	mg/L	100	423	No Exceedance
BA03	UA	Compliance	07/24/2023	D13	Calcium, total	mg/L	98.0	423	No Exceedance
BA03	UA	Compliance	10/17/2023	D13R	Calcium, total	mg/L	100	423	No Exceedance
BA03	UA	Compliance	01/10/2023	D12	Chloride, total	mg/L	6.50 B	650	No Exceedance
BA03	UA	Compliance	05/10/2023	D12R	Chloride, total	mg/L	6.40	650	No Exceedance
BA03	UA	Compliance	07/24/2023	D13	Chloride, total	mg/L	5.00	650	No Exceedance
BA03	UA	Compliance	10/17/2023	D13R	Chloride, total	mg/L	5.30	650	No Exceedance

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT
BOTTOM ASH BASIN
CANTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
BA03	UA	Compliance	01/10/2023	D12	Fluoride, total	mg/L	0.257	0.549	No Exceedance
BA03	UA	Compliance	05/10/2023	D12R	Fluoride, total	mg/L	0.191 J	0.549	No Exceedance
BA03	UA	Compliance	07/24/2023	D13	Fluoride, total	mg/L	0.261 J+	0.549	No Exceedance
BA03	UA	Compliance	10/17/2023	D13R	Fluoride, total	mg/L	0.04 U	0.549	No Exceedance
BA03	UA	Compliance	01/10/2023	D12	pH (field)	SU	7.3	6.9/7.7	No Exceedance
BA03	UA	Compliance	05/10/2023	D12R	pH (field)	SU	6.7	6.9/7.7	Exceedance Not Confirmed
BA03	UA	Compliance	07/24/2023	D13	pH (field)	SU	6.9	6.9/7.7	No Exceedance
BA03	UA	Compliance	10/17/2023	D13R	pH (field)	SU	6.5	6.9/7.7	Exceedance Not Confirmed
BA03	UA	Compliance	01/10/2023	D12	Sulfate, total	mg/L	16.0	613	No Exceedance
BA03	UA	Compliance	05/10/2023	D12R	Sulfate, total	mg/L	19.0	613	No Exceedance
BA03	UA	Compliance	07/24/2023	D13	Sulfate, total	mg/L	17.0	613	No Exceedance
BA03	UA	Compliance	10/17/2023	D13R	Sulfate, total	mg/L	14.0	613	No Exceedance
BA03	UA	Compliance	01/10/2023	D12	Total Dissolved Solids	mg/L	480	2240	No Exceedance
BA03	UA	Compliance	05/10/2023	D12R	Total Dissolved Solids	mg/L	500 J	2240	No Exceedance
BA03	UA	Compliance	07/24/2023	D13	Total Dissolved Solids	mg/L	460	2240	No Exceedance
BA03	UA	Compliance	10/17/2023	D13R	Total Dissolved Solids	mg/L	440	2240	No Exceedance
BA03L	UA/PMP	Compliance	01/10/2023	D12	Boron, total	mg/L	0.370	3.90	No Exceedance
BA03L	UA/PMP	Compliance	05/10/2023	D12R	Boron, total	mg/L	0.480	3.90	No Exceedance
BA03L	UA/PMP	Compliance	09/06/2023	D13	Boron, total	mg/L	0.330	3.90	No Exceedance
BA03L	UA/PMP	Compliance	10/17/2023	D13R	Boron, total	mg/L	0.210	3.90	No Exceedance
BA03L	UA/PMP	Compliance	01/10/2023	D12	Calcium, total	mg/L	180	423	No Exceedance
BA03L	UA/PMP	Compliance	05/10/2023	D12R	Calcium, total	mg/L	190	423	No Exceedance
BA03L	UA/PMP	Compliance	09/06/2023	D13	Calcium, total	mg/L	200	423	No Exceedance
BA03L	UA/PMP	Compliance	10/17/2023	D13R	Calcium, total	mg/L	200	423	No Exceedance
BA03L	UA/PMP	Compliance	01/10/2023	D12	Chloride, total	mg/L	28.0	650	No Exceedance
BA03L	UA/PMP	Compliance	05/10/2023	D12R	Chloride, total	mg/L	26.0	650	No Exceedance
BA03L	UA/PMP	Compliance	09/06/2023	D13	Chloride, total	mg/L	13.0 J	650	No Exceedance
BA03L	UA/PMP	Compliance	10/17/2023	D13R	Chloride, total	mg/L	12.0	650	No Exceedance
BA03L	UA/PMP	Compliance	01/10/2023	D12	Fluoride, total	mg/L	0.242 J	0.549	No Exceedance
BA03L	UA/PMP	Compliance	05/10/2023	D12R	Fluoride, total	mg/L	0.205 J	0.549	No Exceedance
BA03L	UA/PMP	Compliance	09/06/2023	D13	Fluoride, total	mg/L	0.165 J	0.549	No Exceedance
BA03L	UA/PMP	Compliance	10/17/2023	D13R	Fluoride, total	mg/L	0.242	0.549	No Exceedance
BA03L	UA/PMP	Compliance	01/10/2023	D12	pH (field)	SU	6.9	6.9/7.7	No Exceedance
BA03L	UA/PMP	Compliance	05/10/2023	D12R	pH (field)	SU	6.7	6.9/7.7	Exceedance Not Confirmed
BA03L	UA/PMP	Compliance	09/06/2023	D13	pH (field)	SU	6.7	6.9/7.7	Confirmed
BA03L	UA/PMP	Compliance	10/17/2023	D13R	pH (field)	SU	6.4	6.9/7.7	Confirmed
BA03L	UA/PMP	Compliance	01/10/2023	D12	Sulfate, total	mg/L	370	613	No Exceedance
BA03L	UA/PMP	Compliance	05/10/2023	D12R	Sulfate, total	mg/L	360	613	No Exceedance
BA03L	UA/PMP	Compliance	09/06/2023	D13	Sulfate, total	mg/L	420	613	No Exceedance
BA03L	UA/PMP	Compliance	10/17/2023	D13R	Sulfate, total	mg/L	390	613	No Exceedance
BA03L	UA/PMP	Compliance	01/10/2023	D12	Total Dissolved Solids	mg/L	1,100	2240	No Exceedance
BA03L	UA/PMP	Compliance	05/10/2023	D12R	Total Dissolved Solids	mg/L	1,100 J	2240	No Exceedance
BA03L	UA/PMP	Compliance	09/06/2023	D13	Total Dissolved Solids	mg/L	1,900	2240	No Exceedance
BA03L	UA/PMP	Compliance	10/17/2023	D13R	Total Dissolved Solids	mg/L	1,200	2240	No Exceedance
BA04	UA	Compliance	01/10/2023	D12	Boron, total	mg/L	1.90	3.90	No Exceedance

TABLE 2
ANALYTICAL RESULTS - APPENDIX III PARAMETERS
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT
BOTTOM ASH BASIN
CANTON, IL

Well ID	HSU	Well Type	Date	Event ID	Parameter	Unit	Result	Background	SSI Type
BA04	UA	Compliance	05/11/2023	D12R	Boron, total	mg/L	0.330 J+	3.90	No Exceedance
BA04	UA	Compliance	07/24/2023	D13	Boron, total	mg/L	1.90	3.90	No Exceedance
BA04	UA	Compliance	10/18/2023	D13R	Boron, total	mg/L	1.00	3.90	No Exceedance
BA04	UA	Compliance	01/10/2023	D12	Calcium, total	mg/L	140	423	No Exceedance
BA04	UA	Compliance	05/11/2023	D12R	Calcium, total	mg/L	130 J+	423	No Exceedance
BA04	UA	Compliance	07/24/2023	D13	Calcium, total	mg/L	130	423	No Exceedance
BA04	UA	Compliance	10/18/2023	D13R	Calcium, total	mg/L	140	423	No Exceedance
BA04	UA	Compliance	01/10/2023	D12	Chloride, total	mg/L	120	650	No Exceedance
BA04	UA	Compliance	05/11/2023	D12R	Chloride, total	mg/L	30.0	650	No Exceedance
BA04	UA	Compliance	07/24/2023	D13	Chloride, total	mg/L	54.0	650	No Exceedance
BA04	UA	Compliance	10/18/2023	D13R	Chloride, total	mg/L	42.0	650	No Exceedance
BA04	UA	Compliance	01/10/2023	D12	Fluoride, total	mg/L	0.316	0.549	No Exceedance
BA04	UA	Compliance	05/11/2023	D12R	Fluoride, total	mg/L	0.275	0.549	No Exceedance
BA04	UA	Compliance	07/24/2023	D13	Fluoride, total	mg/L	0.25 UJ	0.549	No Exceedance
BA04	UA	Compliance	10/18/2023	D13R	Fluoride, total	mg/L	0.04 U	0.549	No Exceedance
BA04	UA	Compliance	01/10/2023	D12	pH (field)	SU	6.9	6.9/7.7	No Exceedance
BA04	UA	Compliance	05/11/2023	D12R	pH (field)	SU	6.8	6.9/7.7	Exceedance Not Confirmed
BA04	UA	Compliance	07/24/2023	D13	pH (field)	SU	6.7	6.9/7.7	Exceedance Not Confirmed
BA04	UA	Compliance	10/18/2023	D13R	pH (field)	SU	7.0	6.9/7.7	No Exceedance
BA04	UA	Compliance	01/10/2023	D12	Sulfate, total	mg/L	160	613	No Exceedance
BA04	UA	Compliance	05/11/2023	D12R	Sulfate, total	mg/L	78.0	613	No Exceedance
BA04	UA	Compliance	07/24/2023	D13	Sulfate, total	mg/L	180	613	No Exceedance
BA04	UA	Compliance	10/18/2023	D13R	Sulfate, total	mg/L	160	613	No Exceedance
BA04	UA	Compliance	01/10/2023	D12	Total Dissolved Solids	mg/L	740	2240	No Exceedance
BA04	UA	Compliance	05/11/2023	D12R	Total Dissolved Solids	mg/L	740 J+	2240	No Exceedance
BA04	UA	Compliance	07/24/2023	D13	Total Dissolved Solids	mg/L	710	2240	No Exceedance
BA04	UA	Compliance	10/18/2023	D13R	Total Dissolved Solids	mg/L	760	2240	No Exceedance

Notes:
HSU = hydrostratigraphic unit:

UA = Uppermost Aquifer

UA/PMP = Uppermost Aquifer/Potential Migration Pathway

ID = identification
mg/L = milligrams per liter
NA = not applicable
R = resample
Statistically Significant Increase (SSI) Type:

No Exceedance: No exceedance of the background.

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

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

SU = Standard Units
B = The analyte was found in sample and in associated method blank.
J = The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+ = The result is an estimated quantity, but the result may be biased high.
U = The analyte was analyzed for, but was not detected above the level of the adjusted detection limit or quantitation limit, as appropriate.
UJ = The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.

Generated 2024-01-22 15:13:34.075389 by banoffra

TABLE 3
STATISTICAL BACKGROUND VALUES
2023 40 C.F.R. § 257 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT
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	2240

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

Generated 2024-01-14 01:42:09.553486 by banoffra

FIGURES

BACKGROUND WELL

COMPLIANCE WELL

REGULATED UNIT (SUBJECT UNIT)

0 50 100 Feet

MONITORING WELL LOCATION MAP

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BOTTOM ASH BASIN
DUCK CREEK POWER PLANT
CANTON, ILLINOIS

FIGURE 1

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

COMPLIANCE WELL
BACKGROUND WELL
MONITORING WELL
REGULATED UNIT (SUBJECT UNIT)

GROUNDWATER ELEVATION CONTOUR (1-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
JANUARY 9, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BOTTOM ASH BASIN
DUCK CREEK POWER PLANT
CANTON, ILLINOIS

FIGURE 2

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

COMPLIANCE WELL
BACKGROUND WELL
MONITORING WELL

GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD88)
INFERRED GROUNDWATER ELEVATION
GROUNDWATER FLOW DIRECTION
REGULATED UNIT (SUBJECT UNIT)

0 50 100 Feet

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

POTENTIOMETRIC SURFACE MAP MAY 8, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BOTTOM ASH BASIN
DUCK CREEK POWER PLANT
CANTON, ILLINOIS

FIGURE 3

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

COMPLIANCE WELL
BACKGROUND WELL
MONITORING WELL
GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD88)
INFERRED GROUNDWATER ELEVATION
GROUNDWATER FLOW DIRECTION
REGULATED UNIT (SUBJECT UNIT)

0 50 100 Feet

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

POTENTIOMETRIC SURFACE MAP
JULY 17, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BOTTOM ASH BASIN
DUCK CREEK POWER PLANT
CANTON, ILLINOIS

FIGURE 4

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

COMPLIANCE WELL
BACKGROUND WELL
MONITORING WELL
GROUNDWATER ELEVATION CONTOUR (1-FT CONTOUR INTERVAL, NAVD88)
INFERRED GROUNDWATER ELEVATION
GROUNDWATER FLOW DIRECTION
REGULATED UNIT (SUBJECT UNIT)

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.

POTENTIOMETRIC SURFACE MAP
OCTOBER 16, 2023

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
BOTTOM ASH BASIN
DUCK CREEK POWER PLANT
CANTON, ILLINOIS

FIGURE 5

RAMBOLL AMERICAS
ENGINEERING SOLUTIONS, INC.

RAMBOLL

APPENDIX A
LABORATORY REPORTS AND FIELD DATA SHEETS

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

February 15, 2023

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 General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Sincerely,

Gail J Schindler

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

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

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GA01700

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

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

ANALYTICAL RESULTS

Sample: GA01700-01
Name: BA01
Matrix: Ground Water - Grab

Sampled: 01/10/23 12:16
Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	17	mg/L		01/21/23 14:44	5	5.0	01/21/23 14:44	LAM	EPA 300.0 REV 2.1
Fluoride	0.261	mg/L		01/21/23 14:26	1	0.250	01/21/23 14:26	LAM	EPA 300.0 REV 2.1
Sulfate	140	mg/L		01/24/23 20:42	25	25	01/24/23 20:42	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	16.44	Feet		01/10/23 12:16	1		01/10/23 12:16	FIELD	Field*
Dissolved oxygen, Field	3.3	mg/L		01/10/23 12:16	1		01/10/23 12:16	FIELD	Field*
Oxidation Reduction Potential	32.0	mV		01/10/23 12:16	1	-500	01/10/23 12:16	FIELD	Field*
pH, Field Measured	6.95	pH Units		01/10/23 12:16	1		01/10/23 12:16	FIELD	Field*
Specific Conductance, Field Measured	970.0	umhos/cm		01/10/23 12:16	1		01/10/23 12:16	FIELD	Field*
Temperature, Field Measured	12.2	°C		01/10/23 12:16	1		01/10/23 12:16	FIELD	Field*
Turbidity, Field Measured	52.5	NTU		01/10/23 12:16	1	0.00	01/10/23 12:16	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	220	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	630	mg/L		01/11/23 09:12	1	26	01/11/23 10:36	CPS	SM 2540C
Total Metals - PIA									
Boron	24	ug/L		01/16/23 09:23	5	10	01/18/23 08:53	JMW	EPA 6020A
Calcium	120	mg/L		01/19/23 08:31	5	0.20	01/20/23 11:58	JMW	EPA 6020A
Magnesium	60	mg/L		01/16/23 09:23	5	0.10	01/18/23 08:53	JMW	EPA 6020A
Potassium	1.0	mg/L	B	01/16/23 09:23	5	0.10	01/18/23 08:53	JMW	EPA 6020A
Sodium	13	mg/L		01/16/23 09:23	5	0.10	01/18/23 08:53	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GA01700-02
Name: BA02
Matrix: Ground Water - Grab

Sampled: 01/10/23 13:15
Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	9.2	mg/L		01/21/23 15:39	5	5.0	01/21/23 15:39	LAM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		01/21/23 15:21	1	0.250	01/21/23 15:21	LAM	EPA 300.0 REV 2.1
Sulfate	12	mg/L		01/24/23 21:00	5	5.0	01/24/23 21:00	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	11.5	Feet		01/10/23 13:15	1		01/10/23 13:15	FIELD	Field*
Dissolved oxygen, Field	5.0	mg/L		01/10/23 13:15	1		01/10/23 13:15	FIELD	Field*
Oxidation Reduction Potential	56.0	mV		01/10/23 13:15	1	-500	01/10/23 13:15	FIELD	Field*
pH, Field Measured	7.22	pH Units		01/10/23 13:15	1		01/10/23 13:15	FIELD	Field*
Specific Conductance, Field Measured	861.0	umhos/cm		01/10/23 13:15	1		01/10/23 13:15	FIELD	Field*
Temperature, Field Measured	12.5	°C		01/10/23 13:15	1		01/10/23 13:15	FIELD	Field*
Turbidity, Field Measured	70.7	NTU		01/10/23 13:15	1	0.00	01/10/23 13:15	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	300	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	500	mg/L		01/11/23 09:12	1	26	01/11/23 10:36	CPS	SM 2540C
Total Metals - PIA									
Boron	52	ug/L		01/16/23 09:23	5	10	01/18/23 08:56	JMW	EPA 6020A
Calcium	91	mg/L		01/19/23 08:31	5	0.20	01/20/23 12:01	JMW	EPA 6020A
Magnesium	45	mg/L		01/16/23 09:23	5	0.10	01/18/23 08:56	JMW	EPA 6020A
Potassium	1.5	mg/L	B	01/16/23 09:23	5	0.10	01/18/23 08:56	JMW	EPA 6020A
Sodium	42	mg/L		01/16/23 09:23	5	0.10	01/18/23 08:56	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GA01700-03
Name: BA02L
Matrix: Ground Water - Grab

Sampled: 01/10/23 12:46
Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	5.3	mg/L		01/21/23 15:57	1	1.0	01/21/23 15:57	LAM	EPA 300.0 REV 2.1
Fluoride	0.445	mg/L		01/21/23 15:57	1	0.250	01/21/23 15:57	LAM	EPA 300.0 REV 2.1
Sulfate	94	mg/L		01/24/23 21:55	10	10	01/24/23 21:55	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	11.35	Feet		01/10/23 12:46	1		01/10/23 12:46	FIELD	Field*
Dissolved oxygen, Field	6.2	mg/L		01/10/23 12:46	1		01/10/23 12:46	FIELD	Field*
Oxidation Reduction Potential	-99.0	mV		01/10/23 12:46	1	-500	01/10/23 12:46	FIELD	Field*
pH, Field Measured	7.00	pH Units		01/10/23 12:46	1		01/10/23 12:46	FIELD	Field*
Specific Conductance, Field Measured	772.0	umhos/cm		01/10/23 12:46	1		01/10/23 12:46	FIELD	Field*
Temperature, Field Measured	12.1	°C		01/10/23 12:46	1		01/10/23 12:46	FIELD	Field*
Turbidity, Field Measured	475	NTU		01/10/23 12:46	1	0.00	01/10/23 12:46	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	180	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	480	mg/L		01/11/23 09:12	1	26	01/11/23 10:36	CPS	SM 2540C
Total Metals - PIA									
Boron	77	ug/L		01/16/23 09:23	5	10	01/18/23 09:00	JMW	EPA 6020A
Calcium	130	mg/L		01/19/23 08:31	5	0.20	01/20/23 12:05	JMW	EPA 6020A
Magnesium	62	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:00	JMW	EPA 6020A
Potassium	1.8	mg/L	B	01/16/23 09:23	5	0.10	01/18/23 09:00	JMW	EPA 6020A
Sodium	5.0	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:00	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GA01700-04
Name: BA03
Matrix: Ground Water - Grab

Sampled: 01/10/23 11:09
Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	6.5	mg/L		01/21/23 17:09	1	1.0	01/21/23 17:09	LAM	EPA 300.0 REV 2.1
Fluoride	0.257	mg/L		01/21/23 17:09	1	0.250	01/21/23 17:09	LAM	EPA 300.0 REV 2.1
Sulfate	16	mg/L		01/24/23 22:13	5	5.0	01/24/23 22:13	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.93	Feet		01/10/23 11:09	1		01/10/23 11:09	FIELD	Field*
Dissolved oxygen, Field	6.7	mg/L		01/10/23 11:09	1		01/10/23 11:09	FIELD	Field*
Oxidation Reduction Potential	229	mV		01/10/23 11:09	1	-500	01/10/23 11:09	FIELD	Field*
pH, Field Measured	7.31	pH Units		01/10/23 11:09	1		01/10/23 11:09	FIELD	Field*
Specific Conductance, Field Measured	829.0	umhos/cm		01/10/23 11:09	1		01/10/23 11:09	FIELD	Field*
Temperature, Field Measured	12.8	°C		01/10/23 11:09	1		01/10/23 11:09	FIELD	Field*
Turbidity, Field Measured	68.4	NTU		01/10/23 11:09	1	0.00	01/10/23 11:09	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	250	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	480	mg/L		01/11/23 09:12	1	26	01/11/23 10:36	CPS	SM 2540C
Total Metals - PIA									
Boron	20	ug/L		01/16/23 09:23	5	10	01/18/23 09:03	JMW	EPA 6020A
Calcium	100	mg/L		01/19/23 08:31	5	0.20	01/20/23 12:09	JMW	EPA 6020A
Magnesium	51	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:03	JMW	EPA 6020A
Potassium	0.95	mg/L	B	01/16/23 09:23	5	0.10	01/18/23 09:03	JMW	EPA 6020A
Sodium	6.8	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:03	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GA01700-05
Name: BA03L
Matrix: Ground Water - Grab

Sampled: 01/10/23 11:41
Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	28	mg/L		01/21/23 18:03	5	5.0	01/21/23 18:03	LAM	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		01/21/23 17:45	1	0.250	01/21/23 17:45	LAM	EPA 300.0 REV 2.1
Sulfate	370	mg/L		01/24/23 22:31	50	50	01/24/23 22:31	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.55	Feet		01/10/23 11:41	1		01/10/23 11:41	FIELD	Field*
Dissolved oxygen, Field	4.0	mg/L		01/10/23 11:41	1		01/10/23 11:41	FIELD	Field*
Oxidation Reduction Potential	244	mV		01/10/23 11:41	1	-500	01/10/23 11:41	FIELD	Field*
pH, Field Measured	6.93	pH Units		01/10/23 11:41	1		01/10/23 11:41	FIELD	Field*
Specific Conductance, Field Measured	1470	umhos/cm		01/10/23 11:41	1		01/10/23 11:41	FIELD	Field*
Temperature, Field Measured	11.8	°C		01/10/23 11:41	1		01/10/23 11:41	FIELD	Field*
Turbidity, Field Measured	368	NTU		01/10/23 11:41	1	0.00	01/10/23 11:41	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	280	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1100	mg/L		01/11/23 09:12	1	26	01/11/23 10:36	CPS	SM 2540C
Total Metals - PIA									
Boron	370	ug/L		01/16/23 09:23	5	10	01/18/23 09:07	JMW	EPA 6020A
Calcium	180	mg/L		01/19/23 08:31	5	0.20	01/20/23 12:12	JMW	EPA 6020A
Magnesium	100	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:07	JMW	EPA 6020A
Potassium	1.1	mg/L	B	01/16/23 09:23	5	0.10	01/18/23 09:07	JMW	EPA 6020A
Sodium	22	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:07	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GA01700-06
Name: BA04
Matrix: Ground Water - Grab

Sampled: 01/10/23 10:33
Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	120	mg/L		01/21/23 19:16	50	50	01/21/23 19:16	LAM	EPA 300.0 REV 2.1
Fluoride	0.316	mg/L		01/21/23 18:39	1	0.250	01/21/23 18:39	LAM	EPA 300.0 REV 2.1
Sulfate	160	mg/L		01/24/23 22:49	50	50	01/24/23 22:49	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	7.88	Feet		01/10/23 10:33	1		01/10/23 10:33	FIELD	Field*
Dissolved oxygen, Field	4.8	mg/L		01/10/23 10:33	1		01/10/23 10:33	FIELD	Field*
Oxidation Reduction Potential	230	mV		01/10/23 10:33	1	-500	01/10/23 10:33	FIELD	Field*
pH, Field Measured	6.94	pH Units		01/10/23 10:33	1		01/10/23 10:33	FIELD	Field*
Specific Conductance, Field Measured	1280	umhos/cm		01/10/23 10:33	1		01/10/23 10:33	FIELD	Field*
Temperature, Field Measured	11.4	°C		01/10/23 10:33	1		01/10/23 10:33	FIELD	Field*
Turbidity, Field Measured	60.7	NTU		01/10/23 10:33	1	0.00	01/10/23 10:33	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	250	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	740	mg/L		01/11/23 09:12	1	26	01/11/23 10:36	CPS	SM 2540C
Total Metals - PIA									
Boron	1900	ug/L		01/16/23 09:23	5	11	01/18/23 09:39	JMW	EPA 6020A
Calcium	140	mg/L		01/19/23 08:31	5	0.20	01/20/23 12:16	JMW	EPA 6020A
Magnesium	68	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:39	JMW	EPA 6020A
Potassium	1.2	mg/L	B	01/16/23 09:23	5	0.10	01/18/23 09:39	JMW	EPA 6020A
Sodium	26	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:39	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GA01700-07
Name: BA05
Matrix: Ground Water - Grab

Sampled: 01/10/23 13:59
Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	9.3	mg/L		01/21/23 19:34	1	1.0	01/21/23 19:34	LAM	EPA 300.0 REV 2.1
Fluoride	0.260	mg/L		01/21/23 19:34	1	0.250	01/21/23 19:34	LAM	EPA 300.0 REV 2.1
Sulfate	460	mg/L		01/24/23 23:07	100	100	01/24/23 23:07	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	21.03	Feet		01/10/23 13:59	1		01/10/23 13:59	FIELD	Field*
Dissolved oxygen, Field	5.3	mg/L		01/10/23 13:59	1		01/10/23 13:59	FIELD	Field*
Oxidation Reduction Potential	-58.0	mV		01/10/23 13:59	1	-500	01/10/23 13:59	FIELD	Field*
pH, Field Measured	7.06	pH Units		01/10/23 13:59	1		01/10/23 13:59	FIELD	Field*
Specific Conductance, Field Measured	1590	umhos/cm		01/10/23 13:59	1		01/10/23 13:59	FIELD	Field*
Temperature, Field Measured	12.2	°C		01/10/23 13:59	1		01/10/23 13:59	FIELD	Field*
Turbidity, Field Measured	127	NTU		01/10/23 13:59	1	0.00	01/10/23 13:59	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	300	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Solids - total dissolved solids (TDS)	1200	mg/L		01/11/23 09:12	1	26	01/11/23 10:36	CPS	SM 2540C
Total Metals - PIA									
Boron	110	ug/L		01/16/23 09:23	5	11	01/18/23 09:42	JMW	EPA 6020A
Calcium	200	mg/L		01/19/23 08:31	5	0.20	01/20/23 12:23	JMW	EPA 6020A
Magnesium	100	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:42	JMW	EPA 6020A
Potassium	3.0	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:42	JMW	EPA 6020A
Sodium	42	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:42	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GA01700-08
Name: BA06
Matrix: Ground Water - Grab

Sampled: 01/10/23 14:56
Received: 01/11/23 07:00

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	590	mg/L		01/21/23 21:22	100	100	01/21/23 21:22	LAM	EPA 300.0 REV 2.1
Sulfate	300	mg/L		01/24/23 23:25	100	100	01/24/23 23:25	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	28.18	Feet		01/10/23 14:56	1		01/10/23 14:56	FIELD	Field*
Dissolved oxygen, Field	3.6	mg/L		01/10/23 14:56	1		01/10/23 14:56	FIELD	Field*
Oxidation Reduction Potential	-26.0	mV		01/10/23 14:56	1	-500	01/10/23 14:56	FIELD	Field*
pH, Field Measured	6.65	pH Units		01/10/23 14:56	1		01/10/23 14:56	FIELD	Field*
Specific Conductance, Field Measured	3090	umhos/cm		01/10/23 14:56	1		01/10/23 14:56	FIELD	Field*
Temperature, Field Measured	11.7	°C		01/10/23 14:56	1		01/10/23 14:56	FIELD	Field*
Turbidity, Field Measured	>1000	NTU		01/10/23 14:56	1	0.00	01/10/23 14:56	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	320	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		01/17/23 10:08	1	2.0	01/17/23 10:08	HRF	SM 2320B 1997*
Fluoride	0.258	mg/L		01/27/23 13:28	1	0.250	01/27/23 13:28	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2100	mg/L		01/11/23 09:12	1	26	01/11/23 10:36	CPS	SM 2540C
Total Metals - PIA									
Boron	7300	ug/L		01/16/23 09:23	5	11	01/18/23 09:46	JMW	EPA 6020A
Calcium	300	mg/L		01/19/23 08:31	5	0.20	01/20/23 12:26	JMW	EPA 6020A
Magnesium	200	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:46	JMW	EPA 6020A
Potassium	0.78	mg/L	B	01/16/23 09:23	5	0.10	01/18/23 09:46	JMW	EPA 6020A
Sodium	16	mg/L		01/16/23 09:23	5	0.10	01/18/23 09:46	JMW	EPA 6020A

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
Batch B322844 - No Prep - SM 2540C									
Blank (B322844-BLK1)				Prepared & Analyzed: 01/11/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B322844-BS1)				Prepared & Analyzed: 01/11/23					
Solids - total dissolved solids (TDS)	953	mg/L		1000		95	84.9-109		
Solids - total dissolved solids (TDS)	953	mg/L		1000		95	84.9-109		
Duplicate (B322844-DUP1)	**Sample: GA01700-03**			Prepared & Analyzed: 01/11/23					
Solids - total dissolved solids (TDS)	480	mg/L			475			1	5
Solids - total dissolved solids (TDS)	480	mg/L			475			1	5
Duplicate (B322844-DUP2)	**Sample: GA01700-08**			Prepared & Analyzed: 01/11/23					
Solids - total dissolved solids (TDS)	2080	mg/L			2130			2	5
Solids - total dissolved solids (TDS)	2080	mg/L			2130			2	5
Batch B323225 - SW 3015 - EPA 6020A									
Blank (B323225-BLK1)				Prepared: 01/16/23 Analyzed: 01/18/23					
Boron	< 10	ug/L							
Magnesium	< 0.10	mg/L							
Potassium	0.173	mg/L							
Sodium	0.184	mg/L							
LCS (B323225-BS1)				Prepared: 01/16/23 Analyzed: 01/18/23					
Boron	618	ug/L		555.6		111	80-120		
Magnesium	5.61	mg/L		5.556		101	80-120		
Potassium	5.71	mg/L		5.556		103	80-120		
Sodium	5.63	mg/L		5.556		101	80-120		
Batch B323535 - No Prep - SM 2320B 1997									
Duplicate (B323535-DUP2)	**Sample: GA01700-04**			Prepared & Analyzed: 01/17/23					
Alkalinity - carbonate as CaCO3	< 2.0	mg/L			ND				10
Batch B323536 - No Prep - SM 2320B 1997									
Duplicate (B323536-DUP2)	**Sample: GA01700-04**			Prepared & Analyzed: 01/17/23					
Alkalinity - bicarbonate as CaCO3	250	mg/L			250			0	10
Batch B323566 - SW 3015 - EPA 6020A									
Blank (B323566-BLK1)				Prepared: 01/19/23 Analyzed: 01/20/23					
Calcium	< 0.20	mg/L							
LCS (B323566-BS1)				Prepared: 01/19/23 Analyzed: 01/20/23					
Calcium	5.44	mg/L		5.556		98	80-120		
Batch B323854 - IC No Prep - EPA 300.0 REV 2.1									
Calibration Blank (B323854-CCB1)				Prepared & Analyzed: 01/21/23					
Chloride	0.220	mg/L							
Fluoride	0.00	mg/L							
Calibration Check (B323854-CCV1)				Prepared & Analyzed: 01/21/23					
Chloride	5.42	mg/L		5.000		108	90-110		
Fluoride	5.42	mg/L		5.000		108	90-110		

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
Batch B324042 - IC No Prep - EPA 300.0 REV 2.1									
Calibration Blank (B324042-CCB1)				Prepared & Analyzed: 01/24/23					
Sulfate	0.00	mg/L							
Calibration Check (B324042-CCV1)				Prepared & Analyzed: 01/24/23					
Sulfate	4.77	mg/L		5.000		95	90-110		

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

B Present in the method blank at 173 ug/L.

Gail J Schindler

Certified by: Gail Schindler, Project Manager

CHAIN-OF-CUSTODY / Analytical Request Document

GA01700-20
SAB

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

Page: 1 of 7

Section A Required Client Information:

Company:	Vistra Corp
Address:	13498 E. 900th St
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_CLOSURE_201-202	DC_WPCP_203-206	DC_845_201-202	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	BA01	WT	G	1/10/23	1216		2	X		X															
2	BA02	WT	G	1/10/23	1315		2	X		X															
3	BA02L	WT	G	1/10/23	1246		2	X		X															
4	BA03	WT	G	1/10/23	1109		2	X		X															
5	BA03L	WT	G	1/10/23	1141		2	X		X															
6	BA04	WT	G	1/10/23	1033		2	X		X															
7	BA05	WT	G	1/10/23	1354		2	X		X															
8	BA06	WT	G	1/10/23	1456		4	X	X	X															
9	G02S																								
10	G04S																								
11	G06L																								
12	G06S																								
13	G07L																								
14	G08L																								
15	G09L																								
16	G09S																								

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-Q1-2023 Rev 2		1/10/23		Vanessa Wagner	1-11-23	700	0.9	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pemberton

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 01/10/23

Courier

GA01700-20

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:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_CLOSURE_201-202	DC_WPCP_203-206	DC_845_201-202	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G12S																								
2	G15S																								
3	G50L																								
4	G50S																								
5	G51L																								
6	G51S																								
7	G52L																								
8	G52S																								
9	G53L																								
10	G53S																								
11	G54L																								
12	G54S																								
13	G55L																								
14	G55S																								
15	G56L																								
16	G56S	WT	G	1/10/23	1516		2	X		X															

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-Q1-2023 Rev 2		1/10/23								
				James Wagner	1-11-23	700	0.9	Y	N	Y

SAMPLER NAME AND SIGNATURE			Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Aaron Pemberton					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 01/10/23				

courier

GA01700-20

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:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES **GROUND WATER** DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_CLOSURE_201-202	DC_WPCP_203-206	DC_845_201-202	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G66L	WT	G	1/10/23	1315		2	X		X															
2	G66S	WT	G	1/10/23	1251		2	X		X															
3	G67L	WT	G	1/10/23	1401		2	X		X															
4	G67S	WT	G	1/10/23	1402		2	X		X															
5	G70L	WT	G	1/10/23	1029		2	X		X															
6	G71L																								
7	G71S	WT	G	1/10/23	1102		2	X		X															
8	G72L																								
9	G73L	WT	G	1/10/23	1133		2	X		X															
10	OM01																								
11	OM04S																								
12	OM05S – DTW																								
13	OM07																								
14	OM08 – DTW																								
15	OM09 – DTW																								
16	OM10 – DTW																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-Q1-2023 Rev 2		1/10/23								
				James Wagner	1-11-23	700	0.9	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Aaron Chamberlain
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 01/10/23

counter

GA01700-20

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 5 of 7

Section A Required Client Information:

Company:	Vistra Corp
Address:	13498 E. 900th St
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_CLOSURE_201-202	DC_WPCP_203-206	DC_845_201-202	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	OM12	WT	G	1/10/23	1515		5	X		X													
2	OM15 – DTW																						
3	OM16																						
4	OM17																						
5	OM21																						
6	OM22D	WT	G	1/10/23	1356		5	X		X													
7	OM22S – DTW																						
8	OM23D																						
9	OM23S – DTW																						
10	OM24D	WT	G	1/10/23	1136		5	X		X													
11	OM25D – DTW																						
12	OM25S	WT	G	1/10/23	1217		5	X		X													
13	OR02																						
14	OR03D																						
15	OR03S – DTW																						
16	OR04D																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-Q1-2023 Rev 2		1/10/23								
				Vanessa Wagner	1-11-23	700	0.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pemberton

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 01/10/23

Courier

WELL/SAMPLE POINT BA01 **Purge Method:** Bladder

Date: 1/10/23 Start Time: 1147 Finish/Sample Time: 1216

Well Depth (Bottom) From MP: 36.24 ft Top of pump Min. Purge Volume: 15 Gal / L

Depth to Water From MP: 16.44 ft Total Purge Volume: NA Gal / L

Water Column Length: ~~19.80~~ ft NA JR Max Drawdown: — ft

Well Water Volume: ~~3.1~~ Gal / L Total Drawdown: 0.0 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1201	16.44	100	6.96	970	12.26	38	3.14	55.1
2	1202	16.44	100	6.96	969	12.20	35	3.21	52.2
3	1203	16.44	100	6.95	970	12.22	32	3.28	52.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 16.44 ft

Comments

Sampler's Signature: Joseph R Reed

WELL/SAMPLE POINT BA02 **Purge Method:** bladder

Date: 1/10/23 Start Time: 1247 Finish/Sample Time: 1315

Well Depth (Bottom) From MP: 20.35 ft Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 11.50 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: ~ ft Max Drawdown: NA ft

Well Water Volume: ~ Gal / L Total Drawdown: 2.30 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	1302	12.31	100	7.23	864	12.51	46	5.03	71.2
2	1303	12.45	100	7.22	863	12.55	50	4.92	71.9
3	1304	12.60	100	7.22	861	12.54	56	4.95	70.7
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	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

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

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

Final DTW: 13.80 ft

Comments

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT BA02L **Purge Method:** Bladder passive

Date: 1/10/23 Start Time: 1220 Finish/Sample Time: 1246

Well Depth (Bottom) From MP: 11.55 ft Top of pump Min. Purge Volume: 1.5 Gal / L JR 10L

Depth to Water From MP: 11.35 ft Total Purge Volume: 1.1 Gal (L)

Water Column Length: — ft Max Drawdown: NA ft

Well Water Volume: — Gal / L Total Drawdown: NM 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	1230	Below pump	100	7.00	772	12.06	-99	6.19	475
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)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, [redacted]mL) 1000mL

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

Final DTW: NM ft

Comments .20ft in well only one read taken before sample

Sampler's Signature: Joseph K Reed

Duck Creek

WELL/SAMPLE POINT BA03 **Purge Method:** Bladder

Date: 1/10/23 Start Time: 1038 Finish/Sample Time: 1109

Well Depth (Bottom) From MP: 26.34 ft top of pump Min. Purge Volume: 1.5 Gal (L)

Depth to Water From MP: 6.93 ft Total Purge Volume: 1.8 Gal (L)

Water Column Length: 19.41 ft MAJOR Max Drawdown: — ft

Well Water Volume: ~~3.1~~ Gal / L Total Drawdown: 1.07 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	1053	7.45	100	7.41	851	12.75	232	7.01	73.4
2	1054	7.51	100	7.38	839	12.77	235	6.85	71.1
3	1055	7.60	100	7.31	829	12.84	229	6.70	68.4
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 8.01 ft

Comments

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT BA03L **Purge Method:** Bladder

Date: 1/10/23 Start Time: 1110 Finish/Sample Time: 1141

Well Depth (Bottom) From MP: ~~9.58~~ ft top of pump Min. Purge Volume: 1.5 Gal (L)

Depth to Water From MP: 6.55 ft Total Purge Volume: 1.8 Gal (L)

Water Column Length: ~~3.03~~ ft NA JR Max Drawdown: NA ft

Well Water Volume: ~~1.93~~ Gal (L) Total Drawdown: ~~0.23~~ ft JR 0.25ft.

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1125	6.80	100	6.95	1480	11.87	242	4.28	389
2	1126	6.80	100	6.93	1480	11.79	243	4.09	393
3	1127	6.80	100	6.93	1470	11.81	244	3.98	368
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 6.80 ft

Comments

Sampler's Signature: Joseph A Rall

Duck Creek

WELL/SAMPLE POINT BA04 **Purge Method:** Bladder

Date: 1/10/23 Start Time: 1005 Finish/Sample Time: 1033

Well Depth (Bottom) From MP: 7.88 ft Top of pump Min. Purge Volume: 1.5 Gal / (L)

Depth to Water From MP: 26.16 ft Total Purge Volume: 1.8 Gal (L)

Water Column Length: ~~18.28~~ ft Max Drawdown: NA ft

Well Water Volume: ~~11.06~~ Gal / (L) NBR Total Drawdown: 0.12 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	1019	7.90	100	7.19	1340	11.30	227	5.09	58.4
2	1020	7.93	100	7.05	1300	11.37	231	4.90	56.7
3	1021	7.95	100	6.94	1280	11.41	230	4.79	60.7
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ~~X~~ None ☐ Slight ☐ Mod. ☐ Strong

Color ~~X~~ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ~~X~~ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 8.00 ft

Comments

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT BA05 **Purge Method:** Bladder

Date: 1/10/23 Start Time: 1329 Finish/Sample Time: 1359

Well Depth (Bottom) From MP: 47.41 ft top of pump Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 21.03 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: 23.38 ft Max Drawdown: NA ft

Well Water Volume: 3.7 Gal / L Total Drawdown: 2.48 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	13:44	22.25	100	7.12	1590	11.97	-54	5.53	125
2	13:45	22.34		7.08	1580	12.15	-56	5.40	124
3	13:46	22.44		7.06	1590	12.21	-58	5.32	127
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 23.51 ft

Comments

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT BA06 **Purge Method:** Bladder

Date: 1/10/23 Start Time: 1401 Finish/Sample Time: 1456

Well Depth (Bottom) From MP: 40.72 ft Top of PUMP Min. Purge Volume: 1.5 Gal / L

Depth to Water From MP: 28.18 ft Total Purge Volume: 1.8 Gal / L

Water Column Length: ~~4.1~~ JR ft Max Drawdown: NA ft

Well Water Volume: NA Gal / L Total Drawdown: 4.13 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	1416	30.07	100	6.66	3090	11.68	-23	3.85	865
2	1417	30.12	100	6.65	3090	11.64	-23	3.68	>1000
3	1418	30.20	100	6.65	3090	11.66	-26	3.64	>1000
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☐ Mod ☒ Strong

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

BOTTLE INFORMATION:

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

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

Final DTW: 32.31 ft

Comments

Sampler's Signature: Joseph R Reel

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Leonard Joe Reed	Location:	Duck Creek
Weather:	36° Sunny	Environment:	MVDO y
Multiparameter Water Meter *	Make: ~~Polgan~~	Model: ~~Horiba~~	Serial Number: U4U1FVTF
Water Level Meter	Make: Heron	Model: Water tape	Serial Number: 19FF220231ML

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.04	s.u.	±0.1 s.u.	P	N/a	N/a	MSI	L344-09	12/14/2023
pH 7.00a	6.98	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	22.57	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2049	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	228	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.46	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.39	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 09:34

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.08	s.u.	±0.15 s.u.	P	N/a	Geotech	2GC243	Mar-24
pH 7.00b	7.03	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.89	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1.038	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 15:31

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.06	s.u.	±0.1 s.u.	P	N/A	N/a	MSI	L315-04	11/22/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	9.94	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	991	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.01	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.48	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: * Horiba, U52

Signature: [signature] Date: 1-10-2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	KALEB DESKE	Location:	DUCK CREEK
Weather:	37° SUNNY WIND COMP E	Environment:	PONDY, NO BUCKS, GRASSY
Multiparameter Water Meter	Make: HORIBA	Model: HORIBA U52	Serial Number: VFUIFUTF
Water Level Meter	Make: HERON	Model: DIPPER I	Serial Number: 11FF2209 325 MU

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	Pass	NO	NA	MSI	L315-04	11/22/2023
pH 7.00a	7.02	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC Zero (DI)	13.20	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1998	µS/cm	±5%				Geotech	1GK328	Nov-22
ORP	241.00	mV	±15 mV				InSitu	1GL481	Sep-22
DO (Zero pt)	0.06	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98 x mg	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.12	NTU	<2 NTU	—	—	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 0926			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.01	s.u.	±0.15 s.u.	Pass	NO	Geotech	1GF009	Jun-23
pH 7.00b	6.99	s.u.	±0.15 s.u.			Geotech	0GJ268	Oct-22
pH 10.00b	10.07	s.u.	±0.15 s.u.			Geotech	1GF458	Jun-23
SC 1000	1003	µS/cm	±5%			Ricca	2108D48	Jul-23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1518				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	NO	NA	MSI	L315-04	11/22/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	998	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.02	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.21	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:	01/10/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Duck creek
Weather:	39°-45°F Sunny wind w 6mph	Environment:	grass, dirt, mud

Multiparameter Water Meter	Make: Horiba	Model:	U-5000	Serial Number:	YL9K59HA
Water Level Meter	Make: Solinst	Model:	101	Serial Number:	252879

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	No	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.94	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	21.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2080	µS/cm	±5%				Geotech	1GK328	Nov-22
ORP	235	mV	±15 mV				InSitu	2GC827	Dec-22
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	—	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

241 @ 16°C

ICV (Initial Calibration Verification) Time: 0942

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.91	s.u.	±0.15 s.u.	P	N/A	Geotech	2GC243	Mar-24
pH 7.00b	6.86	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.93	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1040	µS/cm	±5%			Ricca	4205H64	May-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 1534

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	No	N/A	MSI	L315-04	11/22/2023
pH 7.00a	7.06	s.u.	±0.1 s.u.				MSI	L172-33	6/23/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.				MSI	L354-22	1/5/2024
SC 1000	1020	µS/cm	±5%				Ricca	2108D48	Jul-23
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time:

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

Comments:

Signature: [signature] Date: 1/10/2022

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

June 13, 2023

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

Dear Daryl Johnson:

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

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

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

Sincerely,

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

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

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

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GE02221

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

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

Work Order GE02226

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

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

Work Order GE02632

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

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

Work Order GE02767

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

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

Work Order GE02997

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

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

Case Narrative

G08L water level below top of pump

Sample GE02997-10 nitrate was originally reported at 10x dilution but it was discovered the sample was analyzed at a 5x dilution. The corrected raw data page is numbered 289a. The incorrect page has been removed and the corrected page has been added in its place.

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

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

ANALYTICAL RESULTS

Sample: GE02221-18
Name: BA02L
Matrix: Ground Water - Grab

Sampled: 05/10/23 14:15
Received: 05/10/23 17:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	2.6	mg/L		05/11/23 16:09	1	1.0	05/12/23 03:11	CRD	EPA 300.0 REV 2.1
Sulfate	14	mg/L		05/22/23 18:50	5	5.0	05/22/23 18:50	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	7.91	Feet		05/10/23 14:15	1		05/10/23 14:15	FIELD	Field*
Dissolved oxygen, Field	0.30	mg/L		05/10/23 14:15	1		05/10/23 14:15	FIELD	Field*
Oxidation Reduction Potential	-122	mV		05/10/23 14:15	1	-500	05/10/23 14:15	FIELD	Field*
pH, Field Measured	7.12	pH Units		05/10/23 14:15	1		05/10/23 14:15	FIELD	Field*
Specific Conductance, Field Measured	583.0	umhos/cm		05/10/23 14:15	1		05/10/23 14:15	FIELD	Field*
Temperature, Field Measured	12.6	°C		05/10/23 14:15	1		05/10/23 14:15	FIELD	Field*
Turbidity, Field Measured	99.1	NTU		05/10/23 14:15	1	0.00	05/10/23 14:15	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	300	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
Fluoride	0.403	mg/L		05/24/23 11:04	1	0.250	05/24/23 11:04	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	370	mg/L		05/17/23 11:18	1	26	05/17/23 17:16	HRF	SM 2540C
Total Metals - PIA									
Boron	68	ug/L		05/15/23 12:00	5	10	05/23/23 10:38	JMW	EPA 6020A
Calcium	77	mg/L		05/15/23 12:00	5	0.20	05/23/23 10:38	JMW	EPA 6020A
Magnesium	31	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:38	JMW	EPA 6020A
Potassium	0.24	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:38	JMW	EPA 6020A
Sodium	3.8	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:38	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GE02221-19
Name: BA03
Matrix: Ground Water - Grab

Sampled: 05/10/23 13:00
Received: 05/10/23 17:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	6.4	mg/L		05/25/23 12:00	1	1.0	05/25/23 12:00	CRD	EPA 300.0 REV 2.1
Sulfate	19	mg/L		05/25/23 12:21	5	5.0	05/25/23 12:21	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.11	Feet		05/10/23 13:00	1		05/10/23 13:00	FIELD	Field*
Dissolved oxygen, Field	5.0	mg/L		05/10/23 13:00	1		05/10/23 13:00	FIELD	Field*
Oxidation Reduction Potential	225	mV		05/10/23 13:00	1	-500	05/10/23 13:00	FIELD	Field*
pH, Field Measured	6.69	pH Units		05/10/23 13:00	1		05/10/23 13:00	FIELD	Field*
Specific Conductance, Field Measured	819.0	umhos/cm		05/10/23 13:00	1		05/10/23 13:00	FIELD	Field*
Temperature, Field Measured	15.4	°C		05/10/23 13:00	1		05/10/23 13:00	FIELD	Field*
Turbidity, Field Measured	42.0	NTU		05/10/23 13:00	1	0.00	05/10/23 13:00	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	460	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:17	1	0.250	05/24/23 11:17	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	500	mg/L		05/17/23 11:18	1	26	05/17/23 17:16	HRF	SM 2540C
Total Metals - PIA									
Boron	24	ug/L		05/15/23 12:00	5	10	05/23/23 10:42	JMW	EPA 6020A
Calcium	100	mg/L		05/15/23 12:00	5	0.20	05/23/23 10:42	JMW	EPA 6020A
Magnesium	51	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:42	JMW	EPA 6020A
Potassium	0.71	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:42	JMW	EPA 6020A
Sodium	7.1	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:42	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GE02221-20
Name: BA03 DUP
Matrix: Ground Water - Grab

Sampled: 05/10/23 13:00
Received: 05/10/23 17:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	6.5	mg/L		05/25/23 12:43	1	1.0	05/25/23 12:43	CRD	EPA 300.0 REV 2.1
Sulfate	19	mg/L		05/25/23 13:04	5	5.0	05/25/23 13:04	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.11	Feet		05/10/23 13:00	1		05/10/23 13:00	FIELD	Field*
Dissolved oxygen, Field	5.0	mg/L		05/10/23 13:00	1		05/10/23 13:00	FIELD	Field*
Oxidation Reduction Potential	225	mV		05/10/23 13:00	1	-500	05/10/23 13:00	FIELD	Field*
pH, Field Measured	6.69	pH Units		05/10/23 13:00	1		05/10/23 13:00	FIELD	Field*
Specific Conductance, Field Measured	819.0	umhos/cm		05/10/23 13:00	1		05/10/23 13:00	FIELD	Field*
Temperature, Field Measured	15.4	°C		05/10/23 13:00	1		05/10/23 13:00	FIELD	Field*
Turbidity, Field Measured	42.0	NTU		05/10/23 13:00	1	0.00	05/10/23 13:00	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	440	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:19	1	0.250	05/24/23 11:19	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	500	mg/L		05/17/23 11:18	1	26	05/17/23 17:16	HRF	SM 2540C
Total Metals - PIA									
Boron	22	ug/L		05/15/23 12:00	5	10	05/23/23 10:45	JMW	EPA 6020A
Calcium	110	mg/L		05/15/23 12:00	5	0.20	05/23/23 10:45	JMW	EPA 6020A
Magnesium	52	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:45	JMW	EPA 6020A
Potassium	0.72	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:45	JMW	EPA 6020A
Sodium	7.2	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:45	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GE02226-01
Name: BA03L
Matrix: Ground Water - Grab

Sampled: 05/10/23 14:15
Received: 05/10/23 17:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	26	mg/L	Q4	05/12/23 16:25	10	10	05/12/23 16:25	CRD	EPA 300.0 REV 2.1
Sulfate	360	mg/L	Q4	05/12/23 16:47	100	100	05/12/23 16:47	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	5.73	Feet		05/10/23 14:15	1		05/10/23 14:15	FIELD	Field*
Dissolved oxygen, Field	2.7	mg/L		05/10/23 14:15	1		05/10/23 14:15	FIELD	Field*
Oxidation Reduction Potential	221	mV		05/10/23 14:15	1	-500	05/10/23 14:15	FIELD	Field*
pH, Field Measured	6.65	pH Units		05/10/23 14:15	1		05/10/23 14:15	FIELD	Field*
Specific Conductance, Field Measured	1380	umhos/cm		05/10/23 14:15	1		05/10/23 14:15	FIELD	Field*
Temperature, Field Measured	15.0	°C		05/10/23 14:15	1		05/10/23 14:15	FIELD	Field*
Turbidity, Field Measured	50.0	NTU		05/10/23 14:15	1	0.00	05/10/23 14:15	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	510	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/19/23 09:32	1	10	05/19/23 09:32	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:28	1	0.250	05/24/23 11:28	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1100	mg/L		05/17/23 11:18	1	26	05/17/23 17:16	HRF	SM 2540C
Total Metals - PIA									
Boron	480	ug/L		05/15/23 12:00	5	10	05/23/23 10:49	JMW	EPA 6020A
Calcium	190	mg/L		05/15/23 12:00	5	0.20	05/23/23 10:49	JMW	EPA 6020A
Magnesium	98	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:49	JMW	EPA 6020A
Potassium	0.32	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:49	JMW	EPA 6020A
Sodium	28	mg/L		05/15/23 12:00	5	0.10	05/23/23 10:49	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GE02632-01
Name: BA01
Matrix: Ground Water - Grab

Sampled: 05/11/23 13:33
Received: 05/11/23 17:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	16	mg/L	Q4	05/12/23 19:59	5	5.0	05/12/23 19:59	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		05/12/23 18:55	1	0.250	05/12/23 18:55	CRD	EPA 300.0 REV 2.1
Sulfate	130	mg/L	Q4	05/12/23 20:20	25	25	05/12/23 20:20	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	14.68	Feet		05/11/23 13:33	1		05/11/23 13:33	FIELD	Field*
Dissolved oxygen, Field	1.2	mg/L		05/11/23 13:33	1		05/11/23 13:33	FIELD	Field*
Oxidation Reduction Potential	58.0	mV		05/11/23 13:33	1	-500	05/11/23 13:33	FIELD	Field*
pH, Field Measured	6.79	pH Units		05/11/23 13:33	1		05/11/23 13:33	FIELD	Field*
Specific Conductance, Field Measured	796.0	umhos/cm		05/11/23 13:33	1		05/11/23 13:33	FIELD	Field*
Temperature, Field Measured	18.0	°C		05/11/23 13:33	1		05/11/23 13:33	FIELD	Field*
Turbidity, Field Measured	9.90	NTU		05/11/23 13:33	1	0.00	05/11/23 13:33	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	420	mg/L		05/22/23 09:02	1	10	05/22/23 09:02	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/22/23 09:02	1	10	05/22/23 09:02	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	620	mg/L	M	05/18/23 15:57	1	26	05/18/23 16:48	HRF	SM 2540C
Total Metals - PIA									
Boron	23	ug/L		05/15/23 12:00	5	10	05/23/23 14:48	JMW	EPA 6020A
Calcium	120	mg/L	Q4	05/15/23 12:00	5	0.20	05/23/23 12:07	JMW	EPA 6020A
Magnesium	58	mg/L	Q4	05/15/23 12:00	5	0.10	05/23/23 12:07	JMW	EPA 6020A
Potassium	0.74	mg/L		05/15/23 12:00	5	0.10	05/23/23 12:07	JMW	EPA 6020A
Sodium	15	mg/L		05/15/23 12:00	5	0.10	05/23/23 12:07	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GE02632-02
Name: BA04
Matrix: Ground Water - Grab

Sampled: 05/11/23 11:40
Received: 05/11/23 17:20

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	30	mg/L		05/25/23 18:03	10	10	05/25/23 18:03	CRD	EPA 300.0 REV 2.1
Sulfate	78	mg/L		05/12/23 21:03	25	25	05/12/23 21:03	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	5.39	Feet		05/11/23 11:40	1		05/11/23 11:40	FIELD	Field*
Dissolved oxygen, Field	1.0	mg/L		05/11/23 11:40	1		05/11/23 11:40	FIELD	Field*
Oxidation Reduction Potential	178	mV		05/11/23 11:40	1	-500	05/11/23 11:40	FIELD	Field*
pH, Field Measured	6.75	pH Units		05/11/23 11:40	1		05/11/23 11:40	FIELD	Field*
Specific Conductance, Field Measured	942.0	umhos/cm		05/11/23 11:40	1		05/11/23 11:40	FIELD	Field*
Temperature, Field Measured	17.6	°C		05/11/23 11:40	1		05/11/23 11:40	FIELD	Field*
Turbidity, Field Measured	< 0.00	NTU		05/11/23 11:40	1	0.00	05/11/23 11:40	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	410	mg/L		05/22/23 09:02	1	10	05/22/23 09:02	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/22/23 09:02	1	10	05/22/23 09:02	CPS	SM 2320B 1997*
Fluoride	0.275	mg/L		05/24/23 11:02	1	0.250	05/24/23 11:02	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	740	mg/L		05/18/23 15:57	1	26	05/18/23 16:48	HRF	SM 2540C
Total Metals - PIA									
Boron	330	ug/L		05/15/23 12:00	5	10	05/23/23 14:51	JMW	EPA 6020A
Calcium	130	mg/L		05/15/23 12:00	5	0.20	05/23/23 12:10	JMW	EPA 6020A
Magnesium	64	mg/L		05/15/23 12:00	5	0.10	05/23/23 12:10	JMW	EPA 6020A
Potassium	0.82	mg/L		05/15/23 12:00	5	0.10	05/23/23 12:10	JMW	EPA 6020A
Sodium	13	mg/L	Q3	05/15/23 12:00	5	0.10	05/23/23 12:10	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GE02767-01
Name: BA05
Matrix: Ground Water - Grab

Sampled: 05/12/23 10:50
Received: 05/12/23 14:31

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	8.2	mg/L		05/13/23 01:28	1	1.0	05/13/23 01:28	CRD	EPA 300.0 REV 2.1
Sulfate	500	mg/L	Q4	05/13/23 02:43	100	100	05/13/23 02:43	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	18.13	Feet		05/12/23 10:50	1		05/12/23 10:50	FIELD	Field*
Dissolved oxygen, Field	3.0	mg/L		05/12/23 10:50	1		05/12/23 10:50	FIELD	Field*
Oxidation Reduction Potential	1.00	mV		05/12/23 10:50	1	-500	05/12/23 10:50	FIELD	Field*
pH, Field Measured	6.96	pH Units		05/12/23 10:50	1		05/12/23 10:50	FIELD	Field*
Specific Conductance, Field Measured	1560	umhos/cm		05/12/23 10:50	1		05/12/23 10:50	FIELD	Field*
Temperature, Field Measured	16.3	°C		05/12/23 10:50	1		05/12/23 10:50	FIELD	Field*
Turbidity, Field Measured	768	NTU		05/12/23 10:50	1	0.00	05/12/23 10:50	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	490	mg/L		05/23/23 10:23	1	10	05/23/23 10:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/23/23 10:23	1	10	05/23/23 10:23	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 12:34	1	0.250	05/24/23 12:34	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1200	mg/L		05/18/23 17:03	1	26	05/18/23 17:42	HRF	SM 2540C
Total Metals - PIA									
Boron	100	ug/L		05/16/23 09:02	5	10	05/19/23 11:32	JMW	EPA 6020A
Calcium	210	mg/L	Q4	05/16/23 09:02	5	0.20	05/19/23 11:32	JMW	EPA 6020A
Magnesium	97	mg/L		05/16/23 09:02	5	0.10	05/19/23 11:32	JMW	EPA 6020A
Potassium	3.0	mg/L		05/16/23 09:02	5	0.10	05/19/23 11:32	JMW	EPA 6020A
Sodium	43	mg/L		05/16/23 09:02	5	0.10	05/19/23 11:32	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GE02767-02
Name: BA06
Matrix: Ground Water - Grab

Sampled: 05/12/23 12:19
Received: 05/12/23 14:31

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	510	mg/L		05/13/23 04:17	100	100	05/13/23 04:17	CRD	EPA 300.0 REV 2.1
Sulfate	340	mg/L		05/13/23 04:17	100	100	05/13/23 04:17	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	21.7	Feet		05/12/23 12:19	1		05/12/23 12:19	FIELD	Field*
Dissolved oxygen, Field	0.82	mg/L		05/12/23 12:19	1		05/12/23 12:19	FIELD	Field*
Oxidation Reduction Potential	-39.0	mV		05/12/23 12:19	1	-500	05/12/23 12:19	FIELD	Field*
pH, Field Measured	6.44	pH Units		05/12/23 12:19	1		05/12/23 12:19	FIELD	Field*
Specific Conductance, Field Measured	2930	umhos/cm		05/12/23 12:19	1		05/12/23 12:19	FIELD	Field*
Temperature, Field Measured	15.7	°C		05/12/23 12:19	1		05/12/23 12:19	FIELD	Field*
Turbidity, Field Measured	55.1	NTU		05/12/23 12:19	1	0.00	05/12/23 12:19	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	520	mg/L		05/23/23 10:23	1	10	05/23/23 10:23	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/23/23 10:23	1	10	05/23/23 10:23	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		05/24/23 11:13	1	0.250	05/24/23 11:13	TTH	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2200	mg/L		05/18/23 17:03	1	26	05/18/23 17:42	HRF	SM 2540C
Total Metals - PIA									
Boron	8700	ug/L		05/16/23 09:02	5	10	05/19/23 11:35	JMW	EPA 6020A
Calcium	340	mg/L		05/16/23 09:02	5	0.20	05/19/23 11:35	JMW	EPA 6020A
Magnesium	210	mg/L		05/16/23 09:02	5	0.10	05/19/23 11:35	JMW	EPA 6020A
Potassium	0.57	mg/L		05/16/23 09:02	5	0.10	05/19/23 11:35	JMW	EPA 6020A
Sodium	18	mg/L		05/16/23 09:02	5	0.10	05/19/23 11:35	JMW	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GE02997-01
Name: BA02
Matrix: Ground Water - Grab

Sampled: 05/15/23 11:23
Received: 05/16/23 06:50

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	8.0	mg/L	Q4	05/16/23 10:51	5	5.0	05/16/23 10:51	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		05/16/23 09:57	1	0.250	05/16/23 09:57	CRD	EPA 300.0 REV 2.1
Sulfate	12	mg/L	Q4	05/16/23 10:51	5	5.0	05/16/23 10:51	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	8.39	Feet		05/15/23 11:23	1		05/15/23 11:23	FIELD	Field*
Dissolved oxygen, Field	0.90	mg/L		05/15/23 11:23	1		05/15/23 11:23	FIELD	Field*
Oxidation Reduction Potential	228	mV		05/15/23 11:23	1	-500	05/15/23 11:23	FIELD	Field*
pH, Field Measured	7.30	pH Units		05/15/23 11:23	1		05/15/23 11:23	FIELD	Field*
Specific Conductance, Field Measured	897.0	umhos/cm		05/15/23 11:23	1		05/15/23 11:23	FIELD	Field*
Temperature, Field Measured	14.2	°C		05/15/23 11:23	1		05/15/23 11:23	FIELD	Field*
Turbidity, Field Measured	11.2	NTU		05/15/23 11:23	1	0.00	05/15/23 11:23	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	550	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		05/24/23 09:25	1	10	05/24/23 09:25	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	480	mg/L	M	05/19/23 12:22	1	26	05/19/23 13:18	HRF	SM 2540C
Total Metals - PIA									
Boron	68	ug/L		05/22/23 09:08	5	10	05/24/23 13:06	JMW	EPA 6020A
Calcium	96	mg/L		05/22/23 09:08	5	0.20	05/23/23 21:04	JMW	EPA 6020A
Magnesium	46	mg/L		05/22/23 09:08	5	0.10	05/23/23 21:04	JMW	EPA 6020A
Potassium	1.3	mg/L		05/22/23 09:08	5	0.10	05/24/23 13:06	JMW	EPA 6020A
Sodium	46	mg/L		05/22/23 09:08	5	0.10	05/24/23 13:06	JMW	EPA 6020A

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
Batch B333386 - SW 3015 - EPA 6020A									
Blank (B333386-BLK1)				Prepared: 05/15/23 Analyzed: 05/23/23					
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 (B333386-BS1)				Prepared: 05/15/23 Analyzed: 05/23/23					
Boron	482	ug/L		555.6		87	80-120		
Calcium	5.14	mg/L		5.556		93	80-120		
Magnesium	5.06	mg/L		5.556		91	80-120		
Potassium	5.14	mg/L		5.556		93	80-120		
Sodium	5.11	mg/L		5.556		92	80-120		
Matrix Spike (B333386-MS1)	**Sample: GE02632-01**			Prepared: 05/15/23 Analyzed: 05/23/23					
Boron	462	ug/L		555.6	23.4	79	75-125		
Calcium	105	mg/L	Q4	5.556	117	NR	75-125		
Magnesium	52.1	mg/L	Q4	5.556	57.9	NR	75-125		
Potassium	5.19	mg/L		5.556	0.743	80	75-125		
Sodium	16.7	mg/L	Q1	5.556	14.8	34	75-125		
Matrix Spike Dup (B333386-MSD1)	**Sample: GE02632-01**			Prepared: 05/15/23 Analyzed: 05/23/23					
Boron	477	ug/L		555.6	23.4	82	75-125	3	20
Calcium	110	mg/L	Q4	5.556	117	NR	75-125	4	20
Magnesium	54.2	mg/L	Q4	5.556	57.9	NR	75-125	4	20
Potassium	5.46	mg/L		5.556	0.743	85	75-125	5	20
Sodium	17.4	mg/L	Q2	5.556	14.8	48	75-125	4	20
Batch B333398 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B333398-MS4)	**Sample: GE02767-01**			Prepared & Analyzed: 05/13/23					
Chloride	9.6	mg/L		1.500	8.2	96	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	495	NR	80-120		
Matrix Spike Dup (B333398-MSD4)	**Sample: GE02767-01**			Prepared & Analyzed: 05/13/23					
Sulfate	1.00E9	mg/L	Q4	1.500	495	NR	80-120	0	20
Chloride	9.5	mg/L		1.500	8.2	89	80-120	1	20
Batch B333402 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B333402-MS1)	**Sample: GE02226-01**			Prepared & Analyzed: 05/12/23					
Sulfate	1.00E9	mg/L	Q4	1.500	364	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	26	NR	80-120		
Matrix Spike (B333402-MS2)	**Sample: GE02632-01**			Prepared: 05/13/23 Analyzed: 05/12/23					
Fluoride	1.56	mg/L		1.500	0.240	88	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	16	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	135	NR	80-120		
Matrix Spike Dup (B333402-MSD1)	**Sample: GE02226-01**			Prepared & Analyzed: 05/12/23					
Sulfate	1.00E9	mg/L	Q4	1.500	364	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	26	NR	80-120	0	20
Matrix Spike Dup (B333402-MSD2)	**Sample: GE02632-01**			Prepared & Analyzed: 05/13/23					

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
Matrix Spike Dup (B333402-MSD2)	**Sample: GE02632-01**			Prepared & Analyzed: 05/13/23					
Sulfate	1.00E9	mg/L	Q4	1.500	135	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	16	NR	80-120	0	20
Fluoride	1.66	mg/L		1.500	0.240	95	80-120	6	20
Batch B333464 - SW 3015 - EPA 6020A									
Blank (B333464-BLK1)				Prepared: 05/16/23 Analyzed: 05/19/23					
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 (B333464-BS1)				Prepared: 05/16/23 Analyzed: 05/19/23					
Boron	1080	ug/L		1111		97	80-120		
Calcium	5.58	mg/L		5.556		101	80-120		
Magnesium	5.39	mg/L		5.556		97	80-120		
Potassium	5.55	mg/L		5.556		100	80-120		
Sodium	5.65	mg/L		5.556		102	80-120		
Matrix Spike (B333464-MS1)	**Sample: GE02767-01**			Prepared: 05/16/23 Analyzed: 05/19/23					
Boron	648	ug/L		555.6	99.6	99	75-125		
Calcium	212	mg/L	Q4	5.556	210	46	75-125		
Magnesium	101	mg/L		5.556	96.6	79	75-125		
Potassium	8.34	mg/L		5.556	2.96	97	75-125		
Sodium	48.2	mg/L		5.556	43.2	90	75-125		
Matrix Spike Dup (B333464-MSD1)	**Sample: GE02767-01**			Prepared: 05/16/23 Analyzed: 05/19/23					
Boron	637	ug/L		555.6	99.6	97	75-125	2	20
Calcium	214	mg/L	Q4	5.556	210	76	75-125	0.8	20
Magnesium	101	mg/L		5.556	96.6	84	75-125	0.3	20
Potassium	8.40	mg/L		5.556	2.96	98	75-125	0.7	20
Sodium	48.3	mg/L		5.556	43.2	90	75-125	0.08	20
Batch B333629 - No Prep - SM 2540C									
Blank (B333629-BLK1)				Prepared & Analyzed: 05/17/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B333629-BS1)				Prepared & Analyzed: 05/17/23					
Solids - total dissolved solids (TDS)	1030	mg/L		1000		103	84.9-109		
Batch B333648 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B333648-MS1)	**Sample: GE02997-01**			Prepared & Analyzed: 05/16/23					
Fluoride	1.54	mg/L		1.500	0.185	90	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	8.0	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	12.0	NR	80-120		
Matrix Spike Dup (B333648-MSD1)	**Sample: GE02997-01**			Prepared & Analyzed: 05/16/23					
Fluoride	1.51	mg/L		1.500	0.185	89	80-120	2	20
Chloride	1.0E9	mg/L	Q4	1.500	8.0	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	12.0	NR	80-120	0	20
Batch B333806 - No Prep - SM 2540C									

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
Blank (B333806-BLK1)				Prepared & Analyzed: 05/18/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B333806-BS1)				Prepared & Analyzed: 05/18/23					
Solids - total dissolved solids (TDS)	983	mg/L		1000		98	84.9-109		
Duplicate (B333806-DUP1)	**Sample: GE02632-01**			Prepared & Analyzed: 05/18/23					
Solids - total dissolved solids (TDS)	575	mg/L	M		620			8	5
Batch B333818 - No Prep - SM 2540C									
Blank (B333818-BLK1)				Prepared & Analyzed: 05/18/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B333818-BS1)				Prepared & Analyzed: 05/18/23					
Solids - total dissolved solids (TDS)	923	mg/L		1000		92	84.9-109		
Duplicate (B333818-DUP1)	**Sample: GE02767-01**			Prepared & Analyzed: 05/18/23					
Solids - total dissolved solids (TDS)	1220	mg/L			1200			2	5
Batch B333887 - No Prep - SM 2540C									
Blank (B333887-BLK1)				Prepared & Analyzed: 05/19/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B333887-BS1)				Prepared & Analyzed: 05/19/23					
Solids - total dissolved solids (TDS)	940	mg/L		1000		94	84.9-109		
Duplicate (B333887-DUP1)	**Sample: GE02997-01**			Prepared & Analyzed: 05/19/23					
Solids - total dissolved solids (TDS)	530	mg/L	M		485			9	5
Batch B333906 - No Prep - SM 2320B 1997									
Blank (B333906-BLK1)				Prepared & Analyzed: 05/19/23					
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
Blank (B333906-BLK2)				Prepared & Analyzed: 05/19/23					
Alkalinity - bicarbonate as CaCO3	2.50	mg/L							
Batch B333977 - SW 3015 - EPA 6020A									
Blank (B333977-BLK1)				Prepared: 05/22/23 Analyzed: 05/24/23					
Boron	< 10	ug/L							
Calcium	< 0.20	mg/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L	Ba						
Sodium	0.126	mg/L	B						
LCS (B333977-BS1)				Prepared: 05/22/23 Analyzed: 05/24/23					
Boron	548	ug/L		555.6		99	80-120		
Calcium	5.48	mg/L		5.556		99	80-120		
Magnesium	5.66	mg/L		5.556		102	80-120		
Potassium	5.59	mg/L		5.556		101	80-120		
Sodium	5.59	mg/L		5.556		101	80-120		
Matrix Spike (B333977-MS1)	**Sample: GE02997-01**			Prepared: 05/22/23 Analyzed: 05/24/23					
Boron	619	ug/L		555.6	68.0	99	75-125		
Calcium	100	mg/L		5.556	96.0	77	75-125		
Magnesium	51.0	mg/L		5.556	46.2	87	75-125		
Potassium	7.00	mg/L		5.556	1.34	102	75-125		
Sodium	51.3	mg/L		5.556	46.4	88	75-125		

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
Matrix Spike Dup (B333977-MSD1)	**Sample: GE02997-01**			Prepared: 05/22/23 Analyzed: 05/24/23					
Boron	633	ug/L		555.6	68.0	102	75-125	2	20
Calcium	101	mg/L		5.556	96.0	91	75-125	0.8	20
Magnesium	51.4	mg/L		5.556	46.2	94	75-125	0.7	20
Potassium	7.30	mg/L		5.556	1.34	107	75-125	4	20
Sodium	51.8	mg/L		5.556	46.4	96	75-125	0.9	20
Batch B334050 - No Prep - SM 2320B 1997									
Duplicate (B334050-DUP1)	**Sample: GE02632-01**			Prepared & Analyzed: 05/22/23					
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	438	mg/L			425			3	10
Batch B334096 - SW 3015 - EPA 6020A									
Blank (B334096-BLK1)				Prepared: 05/23/23 Analyzed: 05/25/23					
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 (B334096-BS1)				Prepared: 05/23/23 Analyzed: 05/25/23					
Boron	568	ug/L		555.6		102	80-120		
Calcium	5.61	mg/L		5.556		101	80-120		
Magnesium	5.87	mg/L		5.556		106	80-120		
Potassium	5.70	mg/L		5.556		103	80-120		
Sodium	5.84	mg/L		5.556		105	80-120		
Batch B334098 - SW 3015 - EPA 6020A									
Blank (B334098-BLK1)				Prepared: 05/23/23 Analyzed: 05/26/23					
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 (B334098-BS1)				Prepared: 05/23/23 Analyzed: 05/26/23					
Boron	557	ug/L		555.6		100	80-120		
Calcium	5.84	mg/L		5.556		105	80-120		
Magnesium	5.74	mg/L		5.556		103	80-120		
Potassium	5.71	mg/L		5.556		103	80-120		
Sodium	5.62	mg/L		5.556		101	80-120		
Batch B334164 - No Prep - SM 2320B 1997									
Duplicate (B334164-DUP2)	**Sample: GE02767-01**			Prepared & Analyzed: 05/23/23					
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	500	mg/L			488			3	10
Batch B334208 - No Prep - SM 4500F C 1997									
Matrix Spike (B334208-MS2)	**Sample: GE02226-01**			Prepared & Analyzed: 05/24/23					
Fluoride	1.19	mg/L		1.000	0.205	98	80-120		

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
Matrix Spike (B334208-MS4)	**Sample: GE02767-01**			Prepared & Analyzed: 05/24/23					
Fluoride	1.22	mg/L		1.000	0.228	100	80-120		
Matrix Spike Dup (B334208-MSD2)	**Sample: GE02226-01**			Prepared & Analyzed: 05/24/23					
Fluoride	1.23	mg/L		1.000	0.205	102	80-120	3	20
Matrix Spike Dup (B334208-MSD4)	**Sample: GE02767-01**			Prepared & Analyzed: 05/24/23					
Fluoride	1.24	mg/L		1.000	0.228	102	80-120	2	20
Batch B334267 - No Prep - SM 2320B 1997									
Duplicate (B334267-DUP1)	**Sample: GE02997-01**			Prepared & Analyzed: 05/24/23					
Alkalinity - bicarbonate as CaCO3	475	mg/L			550			15	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				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

B	Present in the method blank at 126 ug/L.
Ba	Present in the method blank at 232 ug/L.
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.

Gail J 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.

Section A Required Client Information:

Company:	Vistra Corp
Address:	13498 E. 900th St
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

GEO2221 gej

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	Sample ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N: Analysis Test	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_BA01																												
2	DC_BA02																												
3	DC_BA02!L			5/10/23	1415		11																						
4	DC_BA03 +Dup			1	1300		22																						
5	DC_BA03!L				1415		11																						
6	DC_BA04																												
7	DC_BA05#																												
8	DC_BA06																												
9	DC_G02!L																												
10	DC_G02#S																												
11	DC_G02&D																												
12	DC_G03!L																												
13	DC_G04!L																												
14	DC_G06!L																												
15	DC_G06#S																												
16	DC_G07!L																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0	Joseph R Reed	1720	5/10/23	Vance Wagner	5-10-23	1720	3.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed

DATE Signed (MM/DD/YY): 5/10/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 9

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL GE0222 gej

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_G08!L																												
2	DC_G09!L																												
3	DC_G12!L																												
4	DC_G12#S																												
5	DC_G14!L																												
6	DC_G15!L				5/10/23	1300		5																					
7	DC_G16!L				5/10/23	1159		5																					
8	DC_G50!L																												
9	DC_G50#S																												
10	DC_G51!L																												
11	DC_G51#S																												
12	DC_G52!L																												
13	DC_G52#S																												
14	DC_G53!L																												
15	DC_G53#S																												
16	DC_G54!L																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0	Joseph R Reed	5/10/23	1720							
				Vanessa Vaquera	5-10-23	1720	3.3	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joe Reed
SIGNATURE of SAMPLER: Joseph R Reed
DATE Signed (MM/DD/YY): 5/10/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company:	Vistra Corp
Address:	13498 E. 900th St
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

GE02221 gej

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test: DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_G54#S																												
2	DC_G55!L																												
3	DC_G55#S																												
4	DC_G56!L																												
5	DC_G56#S																												
6	DC_G57!L																												
7	DC_G57#S																												
8	DC_G58!L																												
9	DC_G58#S																												
10	DC_G59!L																												
11	DC_G59#S																												
12	DC_G60!L																												
13	DC_G60#S																												
14	DC_G61#S																												
15	DC_G62!L																												
16	DC_G63!L			5/10/23	1528		4																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-23Q2-Rev 0	Joseph R Reed	5/10/23	1720							
				Vanessa Wagner	5-10-23	1720	3.3	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joseph R Reed
SIGNATURE of SAMPLER: Joe Reed DATE Signed (MM/DD/YY): 5/10/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Section B Section C

Section A Required Client Information:

Company:	Vistra Corp
Address:	13498 E. 900th St
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911 Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

Page: 5 of 9

REGULATORY AGENCY

NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER

Site Location STATE: IL

GE02221 gej

Section D Required Client Information

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_G63#S																											
2	DC_G64!L																											
3	~~DC_G64#S + Dup~~			~~5/10/23~~	~~1207~~		~~8~~	GJS 5-11-23																				
4	DC_G65!L																											
5	DC_G65#S + Dup			5/10/23	1207		8																					
6	DC_G66!L																											
7	DC_G66#S																											
8	DC_G67!L																											
9	DC_G67#S																											
10	DC_G70!L			5/10/23	1427		4																					
11	DC_G71!L + Dup			5/10/23	1338		8																					
12	DC_G71#S																											
13	DC_G72!L			5/10/23	1224		4																					
14	DC_G73!L																											
15	DC_L103																											
16	DC_OM01																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-23Q2-Rev 0	Joseph R Reed	5/10/23	17:20	Van Wagner	5-10-23	1720	3.3	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

GJS 6-13-23

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed — DATE Signed (MM/DD/YY): 5/10/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Company: Vistra Corp		Report To: Brian Voelker		Attention: Jason Stuckey	
Address: 13498 E. 900th St		Copy To: Jason Stuckey		Company Name: Vistra Corp	
				Address: see Section A	
Email To: Brian.Voelker@VistraCorp.com		Purchase Order No.:		Quote Reference:	
Phone: (217) 753-8911	Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT: 10 day		Project Number: 2285		Profile #:	

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location STATE:	IL	GE02221 gef

Section D
Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206		Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_OM04#S																												
2	DC_OM05#S																												
3	DC_OM07																												
4	DC_OM08																												
5	DC_OM09																												
6	DC_OM10																												
7	DC_OM12																												
8	DC_OM15																												
9	DC_OM16			5/10/23	1350		10																						
10	DC_OM17			5/10/23	1214		10																						
11	DC_OM21																												
12	DC_OM22#S																												
13	DC_OM22&D																												
14	DC_OM23#S																												
15	DC_OM23&D																												
16	DC_OM24&D																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-23Q2-Rev 0	[signature]	5/10/23	17:20 [annotation: 6/5 6-13-23]	[signature]	5-10-23	1720	3.3	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/10/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 6 of 9

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey

DC-257205

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 STATE: IL
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:	GE0222 gej

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N ↓ Analysis Test ↓	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_OM25#S																												
2	DC_OM25&D																												
3	DC_OR02																												
4	DC_OR03#S																												
5	DC_OR03&D																												
6	DC_OR04&D																												
7	DC_OR05&D																												
8	DC_OR06!A																												
9	DC_OR11																												
10	DC_OR13#S																												
11	DC_OR13&D			5/10/23	1520		10																						
12	DC_OR14#S																												
13	DC_OR14&D																												
14	DC_OR18																												
15	DC_OR19																												
16	DC_OR20																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0	Joseph R Reel	5/10/23	1720	Vance Wagner	5-10-23	1720	3.3	Y	W	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reel

SIGNATURE of SAMPLER: Joseph R Reel DATE Signed (MM/DD/YY): 5/10/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	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.:	Quote Reference:	UST	RCRA	OTHER
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:	Site Location	IL	
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:	STATE:		

Requested Analysis Filtered (Y/N)

GE0222 gej

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_P39#S																											
2	DC_P39&D																											
3	DC_P40!L																											
4	DC_P40#S																											
5	DC_P41!L																											
6	DC_P41#S																											
7	DC_P41&D																											
8	DC_P42!L																											
9	DC_P42#S																											
10	DC_P42&D																											
11	DC_R10!L																											
12	DC_R11!L																											
13	DC_R13!L																											
14	DC_R61!L																											
15	DC_R72#S			5/10/23	1138		4																					
16	DC_T43!L + Dup			5/10/23	1352		4																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0	[signature]	5/10/23	1720	[signature]	5-10-23	1720	3.3	Y	N	Y

SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joy Reed

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 5/10/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 9 of 9

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER

Phone: (217) 753-8911	Fax:	Project Name:	Project Manager:	Site Location STATE:	IL	
Requested Due Date/TAT: 10 day		Project Number: 2285	Profile #:			

GE0222
gef

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_T44!L				5/10/23	1435		2																				
2	DC_T45!L				5/10/23	1510		2																				
3	DC_T46!L																											
4	DC_X301_leachate				5/10/23	1543		11																				
5																												
6	01 ~~EB 2~~				~~5/10/23~~	~~1545~~		~~10~~																				
7	5/31/23 ~~EB 3~~				~~5/10/23~~	~~1545~~		~~4~~ 5																				
8																												
9																												
10																												
11																												
12																												
13																												
14																												
15																												
16																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0	Joseph R Reed	5/10/23	1720	Vann Wagner	5-10-23	1720	3.3	Y	N	Y

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	Joe Reed	
SIGNATURE of SAMPLER:	Joseph R Reed	DATE Signed (MM/DD/YY): 5/10/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 9

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

GE0222e gsg

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information / SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX / CODE: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved; H_2SO_4; HNO_3; HCl; NaOH; $Na_2S_2O_3$; Methanol; Other	Y/N	Analysis Test ↓ DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_BA01																							
2	DC_BA02																							
3	DC_BA02!L				5/10/23	1415		11																
4	DC_BA03 +Dup					1300		22																
5	DC_BA03!L				1	1415		11																
6	DC_BA04																							
7	DC_BA05#																							
8	DC_BA06																							
9	DC_G02!L																							
10	DC_G02#S																							
11	DC_G02&D																							
12	DC_G03!L																							
13	~~DC_G04!L~~ EB 2				5/10/23	1545																		
14	~~DC_G05!L~~ EB 3				5/10/23	1545																		
15	DC_G06#S																							
16	DC_G07!L																							

GJS 5/31/23

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0	Joseph R Reed	1720	5/10/23	Vance Waymire	5-10-23	1720	3.3	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joe Reed
SIGNATURE of SAMPLER: Joseph R Reed
DATE Signed (MM/DD/YY): 5/10/23

CHAIN-OF-CUSTODY / Analytical Request Document

~~+EB-2 +EB-3~~ GJS 5/31/23

GEO2632
Vmw 5-12-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 9

Section A Required Client Information:

Company:	Vistra Corp
Address:	13498 E. 900th St
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N: Analysis Test	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_BA01	WT	G	5/11/23	1333		11	X	X	X																			
2	DC_BA02																													
3	DC_BA02IL																													
4	DC_BA03																													
5	DC_BA03IL																													
6	DC_BA04	WT	G	5/11/23	1146		11	X	X	X																				
7	DC_BA05#																													
8	DC_BA06																													
9	DC_G02IL																													
10	DC_G02#S																													
11	DC_G02&D																													
12	DC_G03IL																													
13	DC_G04IL																													
14	DC_G06IL																													
15	DC_G06#S																													
16	DC_G07IL																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
DC-23Q2-Rev 0		5/11/23	1720			
				Grace Jackson	5/11/23	17:20

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
5°	/	/	/

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Harold Remington
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 05/11/23

CHAIN-OF-CUSTODY / Analytical Request Document

GEO2632
VMW 5-12-23

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:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

DC-257-203

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206		Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_G08!L	WT	G	5/11/23	1451		5	X	X	X		X																
2	DC_G09!L	WT	G	5/11/23	1355		5	X	X	X		X																
3	DC_G12!L +DUP	WT	G	5/11/23	1200		10	X	X	X		X																
4	DC_G12#S	WT	G	5/11/23	1225		1	X																				
5	DC_G14!L																											
6	DC_G15!L																											
7	DC_G16!L																											
8	DC_G50!L																											
9	DC_G50#S																											
10	DC_G51!L																											
11	DC_G51#S																											
12	DC_G52!L																											
13	DC_G52#S																											
14	DC_G53!L																											
15	DC_G53#S																											
16	DC_G54!L																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0		5/11/23	1720				2		2	
					5/11/23	17:20	5	X		Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jonas Pemberton

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 05/11/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

GEO26SL
Vmw 5-12-23

Page: 3 of 9

Section A Required Client Information:
Company: Vistra Corp
Address: 13498 E. 900th St
Email To: Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911 Fax:
Requested Due Date/TAT: 10 day

Section B Required Project Information:
Report To: Brian Voelker
Copy To: Jason Stuckey
Purchase Order No.:
Project Name:
Project Number: 2285

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

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

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_G54#S																										
2	DC_G55!L																										
3	DC_G55#S																										
4	DC_G56!L DUP	WT	G	5/11/23	1109		8	X	X	X																	
5	DC_G56#S																										
6	DC_G57!L	WT	G	5/11/23	1158		4	X	X	X																	
7	DC_G57#S	WT	G	5/11/23	1522		12	X	X	X																	
8	DC_G58!L	WT	G	5/11/23	1258		12	X	X	X																	
9	DC_G58#S																										
10	DC_G59!L																										
11	DC_G59#S																										
12	DC_G60!L																										
13	DC_G60#S																										
14	DC_G61#S																										
15	DC_G62!L	WT	G	5/11/23	1358		4	X	X	X																	
16	DC_G63!L																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0		5/11/23	1720				5		2	
				grace Jones	5/11/23	17:20	6.5	Y		Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Brian Pemberton
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 5/11/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Section B Section C

Page: 4 of 9

GE02634
VMW 5-12-23

Required Client Information:	Required Project Information:	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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
								Requested Analysis Filtered (Y/N)																						
1	DC_G63#S																												
2	DC_G64!L																												
3	DC_G64#S	WT	G	5/11/23	1511		12	X	X	X																			
4	DC_G65!L	WT	G	5/11/23	1251		4	X	X	X																			
5	DC_G65#S																												
6	DC_G66!L																												
7	DC_G66#S																												
8	DC_G67!L																												
9	DC_G67#S																												
10	DC_G70!L																												
11	DC_G71!L																												
12	DC_G71#S																												
13	DC_G72!L																												
14	DC_G73!L	WT	G	5/11/23	1205		10	X	X	X																			
15	DC_L103																												
16	DC_OM01																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0		5/11/23	1720				6		2	
				grace Jack	5/11/23	17:20	6	Y		Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Barbara Richardson
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 05/11/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:
Section B Required Project Information:
Section C Invoice Information:

UE02632
VMW5-12-23

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: 10 day	Project Number: 2285	Project Manager: Profile #:	Site Location STATE: IL

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206		Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_P01!L																											
2	DC_P01#S																											
3	DC_P01$I																											
4	DC_P02#S																											
5	DC_P04#S																											
6	DC_P05!L																											
7	DC_P05#S																											
8	DC_P05&D																											
9	DC_P36!L																											
10	DC_P36#S																											
11	DC_P36&D																											
12	DC_P37!L	WT	G	5/11/23	1258		2	X		X																		
13	DC_P37&D																											
14	DC_P38!L																											
15	DC_P38#S																											
16	DC_P39!L																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
DC-23Q2-Rev 0		5/11/23	1720				9
				gracy	5/11/23	17:20	5

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:	Horan Lamberton					
SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YY): 05/11/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	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
		Address: see Section A

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER

UE02632
JMW 5-12-23

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT, BOTTOM ASH BASIN
DC-257-205

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		
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:	STATE:	IL	

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N: Analysis Test	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_P39#S																												
2	DC_P39&D																												
3	DC_P40!L																												
4	DC_P40#S																												
5	DC_P41!L																												
6	DC_P41#S																												
7	DC_P41&D																												
8	DC_P42!L																												
9	DC_P42#S																												
10	DC_P42&D																												
11	DC_R10!L																												
12	DC_R11!L																												
13	DC_R13!L																												
14	DC_R61!L	WT	G	5/11/23	1651		10	X	X	X																			
15	DC_R72#S																												
16	DC_T43!L																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0		5/11/23	1720				6	Y	2	
				grace	5/11/23	17:20	6	Y		Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Aaron Rumbeiha
SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 05/11/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 9 of 9

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

UE02652
VMW 5-12-23

Phone: (217) 753-8911	Fax:	Project Name:	Project Manager:	Site Location STATE:	IL	
Requested Due Date/TAT: 10 day		Project Number: 2285	Profile #:			

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_T44!L																												
2	DC_T45!L																												
3	DC_T46!L	WT	G	5/11/23	1525		2	X		X																			
4	DC_X301_leachate																												
5	EB-4			5/11/23	1600		12	X	X	X																			
6	EB-5			5/11/23	1605		10	X	X	X																			
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0		5/11/23	1720				5	Y	N	Y
				grace	5/11/23	17:20	5	Y		Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Haden Ambertson
SIGNATURE of SAMPLER:
DATE Signed (MM/DD/YY): 05/11/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:

Company:	Vistra Corp
Address:	13498 E. 900th St
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

GE027G7 gej

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test ↓ DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_BA01																												
2	DC_BA02																												
3	DC_BA02!L																												
4	DC_BA03																												
5	DC_BA03!L																												
6	DC_BA04																												
7	DC_BA05#			5/12/23	1050		11																						
8	DC_BA06			5/12/23	1219		12																						
9	DC_G02!L																												
10	DC_G02#S																												
11	DC_G02&D																												
12	DC_G03!L																												
13	DC_G04!L																												
14	05-31-23 DC_G06!L +EDUP			5/12/23	1205		8																						
15	DC_G06#S																												
16	DC_G07!L																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0	Joseph R Reed	5/12/23	1431							
				grace	14:31	5/12/23	8		N	
							8			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed

DATE Signed (MM/DD/YY): 5/12/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 9

Section A Required Client Information:
Company: Vistra Corp
Address: 13498 E. 900th St
Email To: Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911 Fax:
Requested Due Date/TAT: 10 day

Section B Required Project Information:
Report To: Brian Voelker
Copy To: Jason Stuckey
Purchase Order No.:
Project Name:
Project Number: 2285

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

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

GE02767
gef

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

Preservatives: Unpreserved, H_2SO_4, HNO_3, HCl, NaOH, $Na_2S_2O_3$, Methanol, Other

Analysis Test: DC_257_203, DC_257_204, DC_257_205, DC_811_204, DC_845_201-202, DC_845_203, DC_845_205, DC_CLOSURE_201-202, DC_SUP_000, DC_WPCP_203-206

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_G08!L								
2	DC_G09!L								
3	DC_G12!L								
4	DC_G12#S								
5	DC_G14!L								
6	DC_G15!L								
7	DC_G16!L								
8	DC_G50!L								
9	DC_G50#S								
10	DC_G51!L								
11	DC_G51#S								
12	DC_G52!L								
13	DC_G52#S								
14	DC_G53!L								
15	DC_G53#S								
16	DC_G54!L			5/12/23	1220		12		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-23Q2-Rev 0	Joseph R Reed	5/12/23	1431				2		2	
				Grace Jul	5/12/23	14:31	2	Y		Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joe Reed
SIGNATURE of SAMPLER: Joseph R Reed
DATE Signed (MM/DD/YY): 5/12/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 3 of 9

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2286	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

BE02747 gel

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	5-3-23 DC_G54#S + FD dup			5/12/23	1304		24																				
2	DC_G55IL																										
3	DC_G55#S																										
4	DC_G56IL																										
5	DC_G56#S																										
6	DC_G57IL																										
7	DC_G57#S																										
8	DC_G58IL																										
9	DC_G58#S																										
10	DC_G59IL																										
11	DC_G59#S																										
12	DC_G60IL			5/12/23	1048		10																				
13	DC_G60#S			5/12/23	1100		12																				
14	DC_G61#S																										
15	DC_G62IL																										
16	DC_G63IL																										

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0	Joseph R Reid	5/12/23	1431				8		2	
				grace	5/12/23	14:31	2	Y		9

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joseph R Reid
SIGNATURE of SAMPLER: Joseph R Reid
DATE Signed (MM/DD/YY): 5/12/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Section B Section C

Page: 4 of 9

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: 10 day	Project Number: 2285	Project Manager:	Site Location STATE: IL
		Profile #:	

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

Project No./Lab I.D.: GE027647

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206	Residual Chlorine (Y/N)
1	DC_P01!L																										
2	DC_P01#S																										
3	DC_P01$I																										
4	DC_P02#S																										
5	DC_P04#S																										
6	DC_P05!L			5/12/23	1030		5																				
7	DC_P05#S																										
8	DC_P05&D																										
9	DC_P36!L			5/12/23	1241		2																				
10	DC_P36#S																										
11	DC_P36&D																										
12	DC_P37!L																										
13	DC_P37&D																										
14	DC_P38!L																										
15	DC_P38#S																										
16	DC_P39!L																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0	Joseph R Reed	5/12/23	1431	[signature]	5/12/23	14:31	2.2	Y	2	Y

SAMPLE CONDITIONS

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joseph R Reed
SIGNATURE of SAMPLER: Joseph R Reed
DATE Signed (MM/DD/YY): 5/12/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	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
		Address: see Section A

Page: 8 of 9

REGULATORY AGENCY
NPDES GROUND WATER DRINKING WATER

Phone: (217) 753-8911	Fax:	Project Name:	Project Manager:	Site Location	IL
Requested Due Date/TAT: 10 day		Project Number: 2285	Profile #:	STATE:	

Section D
Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206		Residual Chlorine (Y/N)	Project No./ Lab I.D. GE02767 gej
1	DC_T44!L																												
2	DC_T45!L																												
3	DC_T46!L																												
4	DC_X301_leachate																												
5	EB-6			5/12/23	1036		5																						
6	EB-7			5/12/23	1245		12																						
7																													
8																													
9																													
10																													
11																													
12																													
13																													
14																													
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-23Q2-Rev 0	Joseph R Reed	5/12/23	14:31							
				[signature]	5/12/23	14:31	2.8	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: J R Reed
SIGNATURE of SAMPLER: Joseph R Reed
DATE Signed (MM/DD/YY): 5/12/23

GEO2997
VMW 5-16-23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 9

Section A Required Client Information:

Company:	Vistra Corp
Address:	13498 E. 900th St
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_BA01																											
2	DC_BA02			5/15/23	1123		11																					
3	DC_BA02!L																											
4	DC_BA03																											
5	DC_BA03!L																											
6	DC_BA04																											
7	DC_BA05#																											
8	DC_BA06																											
9	DC_G02!L																											
10	DC_G02#S			5/15/23	1518		11																					
11	DC_G02&D																											
12	DC_G03!L																											
13	DC_G04!L																											
14	DC_G06!L																											
15	DC_G06#S																											
16	DC_G07!L																											

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
DC-23Q2-Rev 0	Joseph R Reed	5/15/23	1800				
					5-16-23	650	0.3 / Y / N / Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER: Joseph R Reed

DATE Signed (MM/DD/YY): 5/15/23

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

GE02997
Vmw 5-16-23

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

Page: 2 of 9

Section A Required Client Information:

Company:	Vistra Corp
Address:	13498 E. 900th St
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

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

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	Sample ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_G08!L																												
2	DC_G09!L																												
3	DC_G12!L																												
4	DC_G12#S																												
5	DC_G14!L																												
6	DC_G15!L																												
7	DC_G16!L																												
8	DC_G50!L																												
9	DC_G50#S			5/15/23	1256		12																						
10	DC_G51!L																												
11	DC_G51#S			5/15/23	1126		12																						
12	DC_G52!L																												
13	DC_G52#S																												
14	DC_G53!L																												
15	DC_G53#S																												
16	DC_G54!L																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-23Q2-Rev 0	Joseph R Reed	5/15/23	1800	Vanessa Hopman	5-16-23	650	0.3	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joe Reed
SIGNATURE of SAMPLER: Joseph R Reed
DATE Signed (MM/DD/YY): 5/15/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

GE02997
MW 5-16-23

DC-257-205

Page: 3 of 9

Section A Required Client Information:

Company:	Vistra Corp
Address:	13498 E. 900th St
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test	DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_G54#S																											
2	DC_G55!L																											
3	DC_G55#S																											
4	DC_G56!L																											
5	DC_G56#S																											
6	DC_G57!L																											
7	DC_G57#S																											
8	DC_G58!L																											
9	DC_G58#S																											
10	DC_G59!L			5/15/23	1552		18																					
11	DC_G59#S																											
12	DC_G60!L																											
13	DC_G60#S																											
14	DC_G61#S																											
15	~~DC_G62!L~~ FB #8			5/15/23	1750		10																					
16	~~DC_G63#L~~ FB #9			5/15/23	1750		12																					

ADDITIONAL COMMENTS: DC-23Q2-Rev 0

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Joe Reed	5/15/23	1800				
				5-16-23	650	0.3 / Y / N / Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joe Reed
SIGNATURE of SAMPLER: Joe Reed
DATE Signed (MM/DD/YY): 5/15/23

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 Section B Section C

GEO2997
VMW 5-16-23

DC-257-205

Required Client Information:	Required Project Information:	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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (A-Z, 0-9 / .-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_G63#S																										
2	DC_G64!L			5/15/23	1500		12																				
3	DC_G64#S																										
4	DC_G65!L																										
5	DC_G65#S																										
6	DC_G66!L																										
7	DC_G66#S																										
8	DC_G67!L																										
9	DC_G67#S																										
10	DC_G70!L																										
11	DC_G71!L																										
12	DC_G71#S																										
13	DC_G72!L																										
14	DC_G73!L																										
15	DC_L103																										
16	DC_OM01																										

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0	Joseph R Read	5/15/23	1800	Vanessa Wyman	5-16-23	650	0.3	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joe Read
SIGNATURE of SAMPLER: Joseph R Read
DATE Signed (MM/DD/YY): 5/15/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:
Section B Required Project Information:
Section C Invoice Information:

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT, BOTTOM ASH BASIN
DC-257-205

GE02997
Vmw 5-16-23

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	Section D Required Client Information: SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_OM04#S																												
2	DC_OM05#S																												
3	DC_OM07																												
4	DC_OM08																												
5	DC_OM09																												
6	DC_OM10			5/15/23	1314		10																						
7	DC_OM12			5/15/23	1405		11																						
8	DC_OM15																												
9	DC_OM16																												
10	DC_OM17																												
11	DC_OM21			5/15/23	1324		10																						
12	DC_OM22#S																												
13	DC_OM22&D																												
14	DC_OM23#S																												
15	DC_OM23&D			5/15/23	1600		10																						
16	DC_OM24&D																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-23Q2-Rev 0	Joseph R Reed	5/15/23	1900	Vmw	5-16-23	650	0.3	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joe Reed
SIGNATURE of SAMPLER: Joseph R Reed
DATE Signed (MM/DD/YY): 5/15/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Vistra Corp	Report To: Brian Voelker	Attention: Jason Stuckey

APPENDIX A.
ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT
DUCK CREEK POWER PLANT, BOTTOM ASH BASIN
DC-257-205

GE02997
Vmw 5-16-23

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 STATE: IL
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:	

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: DC_257_203	DC_257_204	DC_257_205	DC_811_204	DC_845_201-202	DC_845_203	DC_845_205	DC_CLOSURE_201-202	DC_SUP_000	DC_WPCP_203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	DC_OM25#S																												
2	DC_OM25&D																												
3	DC_OR02																												
4	DC_OR03#S																												
5	DC_OR03&D																												
6	DC_OR04&D																												
7	DC_OR05&D																												
8	DC_OR06!A																												
9	DC_OR11			5/15/23	1233		11																						
10	DC_OR13#S																												
11	DC_OR13&D																												
12	DC_OR14#S																												
13	DC_OR14&D			5/15/23	1135		11																						
14	DC_OR18																												
15	DC_OR19			5/15/23	1528		11																						
16	DC_OR20			5/15/23	1110		11																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q2-Rev 0	Joe Joseph R Reed	5/15/23	1800	Vam Wyman	5-16-23	650	0.3	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Joe Reed
SIGNATURE of SAMPLER: Joseph R Reed
DATE Signed (MM/DD/YY): 5/15/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	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

Duck Creek

WELL/SAMPLE POINT BA01 JR **Purge Method:** Bladder

Date: ~~5/10/23~~ JR 5/11/23 Start Time: ~~1100~~ 1220 Finish/Sample Time: 1333

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

Depth to Water From MP: 14.68 ft Total Purge Volume: 1.3 Gal / L

Water Column Length: ____ ft Max Drawdown: ____ ft

Well Water Volume: ____ Gal / L Total Drawdown: 0.07 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	1233	14.75	100	6.82	791	18.04	63	1.42	7.0
2	1234	14.75	100	6.80	793	18.00	60	1.34	10.3
3	1235	14.75	100	6.79	796	18.01	58	1.25	9.9
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	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

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

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P, [redacted]mL) 1000mL
3	TOC

Final DTW: 14.75 ft

Comments S/N ~~216156~~ JR 216155 33 Dis. Iron *2 = 0.841

Sampler's Signature: Joseph R Rad

WELL/SAMPLE POINT BA02 **Purge Method:** Bladder / Low Flow

Date: 5/15/23 Start Time: 1011 Finish/Sample Time: 1123

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

Depth to Water From MP: JR ~~8.05~~ ft 8.39 Total Purge Volume: 1.3 Gal / L

Water Column Length: NA ft Max Drawdown: < ft

Well Water Volume: 1 Gal / L Total Drawdown: 2.96 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	1032	10.03	100	7.36	909	14.11	229	1.01	14.7
2	1033	10.05	100	7.30	899	14.20	229	0.92	12.8
3	1034	10.07	100	7.30	897	14.20	228	0.90	11.2
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
1	General (P, ~~250~~mL) 1000mL
3	TOC 40mL

Final DTW: 11.35 ft

Comments S/m = JR 2615636 Dis Iron = 0.502 ppm

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT BA02L

Purge Method: Low Flow

Date: 5/10/23 Start Time: 1255 Finish/Sample Time: 1415

Well Depth (Bottom) From MP:	11.46	ft	Min. Purge Volume:	1	Gal (L)
Depth to Water From MP:	7.91	ft	Total Purge Volume:	1.3	Gal (L)
Water Column Length:	3.55	ft	Max Drawdown:	~	ft
Well Water Volume:	2.15	Gal (L)	Total Drawdown:	1.55	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	1308	8.96	100	7.11	575.55	12.71	-119.6	0.34	161.23
2	1309	9.05	100	7.12	581.00	12.63	-120.8	0.32	114.89
3	1310	9.06	100	7.12	582.96	12.58	-121.8	0.30	99.10
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)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250 mL~~) 1 L
1	P, 2.5 L, HNO3

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P, ~~500mL~~) 1 L
3	TOC (A,V 40mL, H2SO4)

Final DTW: 9.46 **ft**

Comments Transducer: 21615682
Dissolved iron: OVERTNG (Sample was deep red)

Sampler's Signature: [signature]

Duck Creek

WELL/SAMPLE POINT BA03 **Purge Method:** Bladder / Low Flow

Date: 5/10/23 Start Time: 1100 Finish/Sample Time: 1320

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

Depth to Water From MP: 6.11 ft Total Purge Volume: 1.3 Gal / L

Water Column Length: ____ ft Max Drawdown: ____ ft

Well Water Volume: ____ Gal / L Total Drawdown: 0.69 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	1110	6.20	100	6.71	813	15.48	226	5.24	37.1
2	1111	6.21	100	6.71	820	15.49	226	5.15	44.8
3	1112	6.21	100	6.69	819	15.41	225	4.99	42.0
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	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
JR 3+3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1+1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
H1	General (P, 250 mL) 1000mL
1+1	2.5L HNO3

Filtered	
Qty	Bottles
1+1	Metals (P,250mL, HNO3)
JR 1+1	Ammonia (P,250mL, H2SO4)
1+1	General (P,500mL)
3+3	TOC

Final DTW: 6.80 ft

Comments S/N 21615637 DIS Iron* - 0.076 ppm

Dup. Taken Here

Sampler's Signature: Joseph R Hud

Duck Creek

WELL/SAMPLE POINT BA03 + FD **Purge Method:** Dedicated pump

Date: 5/16/2023 Start Time: 1351 Finish/Sample Time: 1423

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

Depth to Water From MP: 6.84 ft Total Purge Volume: 1000 Gal / L (mL)

Water Column Length: - ft Max Drawdown: - ft

Well Water Volume: - Gal / L Total Drawdown: 0.26 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	1412	7.04	100	7.06	739	22.84	154	2.09	0.0
2	1414	7.05	100	7.02	740	22.79	153	1.40	0.0
3	1416	7.07	100	7.01	741	22.67	152	1.36	0.0
4	1418	7.08	100	6.99	741	22.60	150	1.33	0.0
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1+1FD	General (P, ~~250 mL~~) 1500mL

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

Final DTW: 7.10 ft

Comments Transducer S/N 21615637 Resample
FD filled here

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT BA03L **Purge Method:** Bladder / Low Flow

Date: 5/10/23 Start Time: 1315 Finish/Sample Time: 1415

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

Depth to Water From MP: 5.73 ft Total Purge Volume: 1.3 Gal / L

Water Column Length: NA ft Max Drawdown: ft

Well Water Volume: NA Gal / L Total Drawdown: 0.16 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	1325	5.89	100	6.65	1390	15.05	222	2.77	61.1
2	1326	5.89	100	6.64	1380	15.01	226	2.76	57.3
3	1327	5.89	100	6.65	1380	15.03	221	2.71	50.0
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	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 250 mL) 1000mL
1	HNO_3 2.5L

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P, 250mL) 1000mL
3	TOC 40mL

Final DTW: 5.89 ft

Comments S/N 216 15687 Dis Iron* - 0.068 ppm

Sampler's Signature: Joseph A Reel

Duck Creek

WELL/SAMPLE POINT BA03L **Purge Method:** Dedicated pump gsb-13-23

Date: 5/16/2023 Start Time: 1423 Finish/Sample Time: 14:46

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

Depth to Water From MP: 6.55 ft Total Purge Volume: 1000 Gal / L (mL)

Water Column Length: - ft Max Drawdown: - ft

Well Water Volume: - Gal / L Total Drawdown: 0.20 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1437	6.75	100	6.83	1500	14.31	175	2.70	12.0
2	1439	6.75	100	6.82	1480	14.35	175	2.66	9.7
3	1441	6.75	100	6.81	1490	14.27	175	2.62	10.2
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

Unfiltered	
Qty	Bottles
	VOAs (C,V, 40mL, HCL)
	VOAS (C,V, 40mL)
	Organics (A,G,U 1000mL)
	Organics (A,G,U 500mL)
	TOC (A,V 40mL, H2SO4)
	TOX (A,G 250mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~250 mL~~) 150mL

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

Final DTW: 6.75 ft

Comments Transducer S/N 21615687 Resample

Sampler's Signature:

Duck Creek

WELL/SAMPLE POINT BA04 **Purge Method:** Bladder/lowflow

Date: 5/11/23 Start Time: 1035 Finish/Sample Time: 1140

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

Depth to Water From MP: 5.39 ft Total Purge Volume: 1.3 Gal (L)

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: 0.08 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	1050	5.42	100	6.77	937	17.70	176	1.10	0.0
2	1051	5.42	100	6.75	942	17.60	177	1.13	0.0
3	1052	5.42	100	6.75	942	17.55	178	1.05	
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

(11)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P, 250mL) 1000mL
3	TOC 40mL

Final DTW: 5.47 ft

Comments S/n 21615631 Dis. Iron $^{+2}$ = Under Range

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT BA05 **Purge Method:** Bladder / low flow

Date: 5/12/23 Start Time: 950 Finish/Sample Time: 1050

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

Depth to Water From MP: 18.13 ft Total Purge Volume: 1.3 Gal (L)

Water Column Length: ____ ft Max Drawdown: ____ ft

Well Water Volume: ____ Gal / L Total Drawdown: 3.47 ft

Reading (Units)	Time	Depth ft.	Flow Rate mL/min	pH s.u.	Spec Cond umhos/cm	Temp deg C	ORP mV	DO mg/L	Turb NTU
1	1002	19.35	100	7.00	1550	16.33	19	3.21	591
2	1003	19.61	100	6.99	1560	16.30	13	3.05	700
3	1004	19.85	100	6.96	1560	16.29	1	2.99	768
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☐ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☐ Slight ☒ Mod. ☐ Strong

Turb: ☐ None ☐ Slight ☒ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

(11)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P, [illegible] mL) 1000 mL
3	TOC 40 mL

Final DTW: 21.60 ft

Comments S/n - 21615540 Dis. Iron** = 4.531 ppm

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT BA06 **Purge Method:** Bladder / Low Flow

Date: 5/12/23 Start Time: 1110 Finish/Sample Time: 1219

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

Depth to Water From MP: 21.70 ft Total Purge Volume: 1.3 Gal (L)

Water Column Length: _____ ft Max Drawdown: _____ ft

Well Water Volume: _____ Gal / L Total Drawdown: 5.85 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	1130	2390	100	6.45	2940	15.82	-32	0.99	55.6
2	1131	2430	100	6.45	2930	15.71	-36	0.89	53.2
3	1132	2455	100	6.44	2930	15.68	-39	0.82	55.1
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2S04)
1	General (P, ~~500~~mL) 1000mL
3	TOC 40mL

Final DTW: 27.55 ft

Comments S/N - 21615525 Dis. Iron = Over Range

Sampler's Signature: Joseph A Reed

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Richardson	Location:	Duck creek
Weather:	67°-78°F Sunny Wind SE 9mph	Environment:	grass, dirt, trees
Multiparameter Water Meter	Make: AT	Model: 600	Serial Number: 762193
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: 3217-T

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	1.63	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1995.5	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	224.6	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.87	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	✓			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

234 @ 21°C

ICV (Initial Calibration Verification)					Time: 0942			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	Mar-24
pH 7.00b	6.83	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.67	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1005.2	µS/cm	±5%	✓		Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1539				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	NO	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1001.7	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.00	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	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	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	5/10/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Brendan Glennon	Location:	Duck Creek
Weather:	64° Mostly Cloudy 8mph NW	Environment:	Grass Field

Multiparameter Water Meter	Make: AT	Model: 600	Serial Number: 762215		
Water Level Meter	Make: Heron	Model: 200 ft.	Serial Number: 19FF2111 92HB		

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.93	s.u.	±0.1 s.u.	P	N	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.96	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.97	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	16.21	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1916.5	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	234.6	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.10	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.8	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	—	—	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 0910			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.89	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	Mar-24
pH 7.00b	6.86	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.85	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	993.41	µS/cm	±5%	—	—	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1500				
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	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.96	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.91	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1016.21	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.10	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	—	—	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Brendan Glennon	Date:	5/10/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD	Location:	V. Stra Duck Creek
Weather:	70-79°F sunny wind ESE 9-16 mph	Environment:	woods

Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number:	V4U1FVTF	
Water Level Meter	Make: Heron	Model: Dipper-T	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	L344-09	12/14/2023
pH 7.00a	6.91	s.u.	±0.1 s.u.	↓	↓	↓	MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.	↓	↓	↓	MSI	M082-04	3/25/2024
SC Zero (DI)	9	µS/cm	0<25 µS/cm	↓	↓	↓	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2090	µS/cm	±5%	↓	↓	↓	Geotech	2GE1442	May-23
ORP	232	mV	±15 mV	↓	↓	↓	InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1	↓	↓	↓	Macron	#000228049	8/26/2025
DO (Saturated)	98.28	%	97-100%	↓	↓	↓	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	18	NTU	<2 NTU	Fail	Yes	0.0	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 1021			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	±0.15 s.u.	pass	NA	Geotech	2GE870	Mar-24
pH 7.00b	6.98	s.u.	±0.15 s.u.	↓	↓	Geotech	2GC931	Mar-24
pH 10.00b	9.92	s.u.	±0.15 s.u.	↓	↓	Geotech	2GE820	May-24
SC 1000	798	µS/cm	±5%	Fail	calibrate.	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1550				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.16	s.u.	±0.1 s.u.	pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.03	s.u.	±0.1 s.u.	↓	↓	↓	MSI	L343-07	12/9/2023
pH 10.00a	9.78	s.u.	±0.1 s.u.	↓	↓	↓	MSI	M082-04	3/25/2024
SC 1000	1040	µS/cm	±5%	↓	↓	↓	Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	↓	↓	↓	Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	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	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	[signature]	Date:	5/10/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Duck Creek
Weather:	55° to 81° Sunny	Environment:	Dry

Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number:	yLAKJ9HA	
Water Level Meter	Make: Heron	Model: Water tape	Serial Number:	11FT2209305ML	

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	10.00	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2,010	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	218	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.40	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 10:04			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	N/a	Geotech	2GE870	Mar-24
pH 7.00b	6.91	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.87	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1030	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: NA				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 15:48				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.00	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	L344-09	12/14/2023
7.00a	6.93	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a	9.98	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1000	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.07	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	2.50	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	[signature]	Date:	5-10-2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed	Location:	Duck Creek
Weather:		Environment:	

Multiparameter Water Meter	Make: Hor.ba	Model: U-5000	Serial Number:	PW2GYJD3	
Water Level Meter	Make: Solinst	Model: 101	Serial Number:	P7/LM2	

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	N		MSI	L344-09	12/14/2023
pH 7.00a	6.98	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.99	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2010	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	239	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.7	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.1	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 1000			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	Mar-24
pH 7.00b	6.99	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.95	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	990	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1509			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.99	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1020	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs; unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Joseph R Reed	Date:	5/10/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Duck Creek
Weather:	73°-79°F Sunny Wind SE 6mph	Environment:	grass, dirt,

Multiparameter Water Meter	Make: Horiba	Model: U 5000	Serial Number:	UHUIFVTF	
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number:	19FF211192HB	

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	18	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	238	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	104.8	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

234 @ 21°C

ICV (Initial Calibration Verification)					Time: 0945			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.03	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	Mar-24
pH 7.00b	6.99	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.04	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	989	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1530				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.07	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1010	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	[signature]	Date:	5/11/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD	Location:	Vistra Duck Creek
Weather:	70-75°F m. sunny wind SE 10-14 mph	Environment:	grass

Multiparameter Water Meter	Make: Aquatroll	Model: 600	Serial Number:	762215	
Water Level Meter	Make: Heron	Model: Dipper-T	Serial Number:	11FF2209305ML	

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.81	s.u.	±0.1 s.u.	Fail	Yes	4.00	MSI	L344-09	12/14/2023
pH 7.00a	6.95	s.u.	±0.1 s.u.	pass	No	NA	MSI	L343-07	12/9/2023
pH 10.00a	9.93	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	15.67	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1964.5	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	237.7	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.07	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.17	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 0939

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.03	s.u.	±0.15 s.u.	pass	NA	Geotech	2GE870	Mar-24
pH 7.00b	6.89	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.92	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	992.10	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 1541

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.10	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	971.18	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.07	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	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	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: JD — Date: 5/11/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane	Location:	Duck Creek
Weather:	69° sunny	Environment:	Dry

Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number:	PW2GYJ03	
Water Level Meter	Make: Heron	Model: Water tape	Serial Number:	3717-T	

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	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	6.94	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	10.00	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	230	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.10	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.20	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 09:41				
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?		Manufacturer	Lot#	Exp.
pH 4.00b	3.98	s.u.	±0.15 s.u.	P	NA		Geotech	2GE870	Mar-24
pH 7.00b	7.05	s.u.	±0.15 s.u.				Geotech	2GC931	Mar-24
pH 10.00b	9.89	s.u.	±0.15 s.u.				Geotech	2GE820	May-24
SC 1000	1,010	µS/cm	±5%				Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: NA				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 16:04				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.05	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
7.00a	7.04	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a	10.28	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1040	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.00	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.50	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments: NA

Signature:	[signature]	Date:	5-11-23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed	Location:	Duck Creek
Weather:	69-80° wind 9-[illegible]	Environment:	Gravel Road
Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number: YL9KJ9HA
Water Level Meter	Make: Solinst	Model: 101	Serial Number: P7/LM2

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	N		MSI	L344-09	12/14/2023
pH 7.00a	7.08	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.99	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2010	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	240	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.1	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) Time: 955

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	Mar-24
pH 7.00b	7.00	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.96	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1000	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 1615

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	990	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: Joseph R Reed Date: 5/11/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed	Location:	Duck creek
Weather:	63-81°F cloudy wind 7 temp	Environment:	wet / gravel road / grass
Multiparameter Water Meter	Make: Hach	Model: HQ5000	Serial Number: PW2GRJD3
Water Level Meter	Make: Solinst	Model: 101	Serial Number: 252879

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.98	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.00	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	4	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1990	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	338	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.5	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 912			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	Mar-24
pH 7.00b	6.98	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.98	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	998	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1320				
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	N		MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1010	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Joseph R Reed	Date:	5/12/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lange	Location:	Duck Creek
Weather:	63° to 81° rainy	Environment:	wet

Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number:	yLqKJ9HA	
Water Level Meter	Make: Heron	Model: Water tape	Serial Number:	3717-T	

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.	P	NA	NA	MSI	L343-07	12/9/2023
pH 10.00a	9.83	s.u.	±0.1 s.u.	F	yes	9.93	MSI	M082-04	3/25/2024
SC Zero (DI)	21.00	µS/cm	0<25 µS/cm	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1994	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	216	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.01	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.55	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 09:20

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	NA	Geotech	2GE870	Mar-24
pH 7.00b	6.98	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.92	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1280	µS/cm	±5%	F	yes / 999	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: NA

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 13:15

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.06	s.u.	±0.1 s.u.	P	NA	NA	MSI	L344-09	12/14/2023
7.00a	7.00	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a	10.01	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1026	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.04	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [signature] Date: 5-12-23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Amberton	Location:	Duck creek
Weather:	60°-77°F cloudy, rain wind SE 8mph	Environment:	grass, mud

Multiparameter Water Meter	Make: Horiba	Model: U5000		Serial Number:	U4U1FTVF
Water Level Meter	Make: Heron	Model: D'Appr T		Serial Number:	19FF2111192HB

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.00	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	18	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2080	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	232	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.87	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well — 234 @ 21°c

ICV (Initial Calibration Verification) — Time: 0905

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.03	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	Mar-24
pH 7.00b	6.91	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.03	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1010	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 1300

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	NO	N/A	MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	975	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [signature] Date: 5/12/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD	Location:	Vistra Duck Creek
Weather:	71-79°F cloudy wind SE 10 mph	Environment:	grass
Multiparameter Water Meter	Make: Aquatroll	Model: 600	Serial Number: 762215
Water Level Meter	Make: Heron	Model: Dipper-T	Serial Number: IIFF2209305ML

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	L344-09	12/14/2023
pH 7.00a	7.06	s.u.	±0.1 s.u.	↓	↓	↓	MSI	L343-07	12/9/2023
pH 10.00a	10.04	s.u.	±0.1 s.u.	↓	↓	↓	MSI	M082-04	3/25/2024
SC Zero (DI)	4.80	µS/cm	0<25 µS/cm	↓	↓	↓	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1987.4	µS/cm	±5%	↓	↓	↓	Geotech	2GE1442	May-23
ORP	235.0	mV	±15 mV	↓	↓	↓	InSitu	2G1762	Jun-23
DO (Zero pt)	0.05	mg/L	±0.1	↓	↓	↓	Macron	#000228049	8/26/2025
DO (Saturated)	99.54	%	97-100%	↓	↓	↓	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	↓	↓	↓	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 0905			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.04	s.u.	±0.15 s.u.	pass	NA	Geotech	2GE870	Mar-24
pH 7.00b	6.94	s.u.	±0.15 s.u.	↓	↓	Geotech	2GC931	Mar-24
pH 10.00b	9.96	s.u.	±0.15 s.u.	↓	↓	Geotech	2GE820	May-24
SC 1000	973.16	µS/cm	±5%	↓	↓	Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1302				
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	L344-09	12/14/2023
pH 7.00a	7.10	s.u.	±0.1 s.u.	↓	↓	↓	MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.	↓	↓	↓	MSI	M082-04	3/25/2024
SC 1000	991.07	µS/cm	±5%	↓	↓	↓	Ricca	4207N97	Jul-24
DO (Zero pt)	0.08	mg/L	±0.1 mg/L	↓	↓	↓	Macron	#000228049	8/26/2025
Turbidity (DI)	0.34	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	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	[signature]	Date:	5/12/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Duck creek
Weather:	620- 71°F cloudy wind NE 8mph	Environment:	grass, gravel, dirt, woods
Multiparameter Water Meter	Make: Horiba	Model: U5000	Serial Number: UUUI FVTF
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: 3717-T

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	NO	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.05	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	1A	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	240	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.00	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.62	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

240 @ 19°C

ICV (Initial Calibration Verification)					Time: 0930			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	Mar-24
pH 7.00b	6.91	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.90	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1000	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1630				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.05	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.08	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1010	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	[signature]	Date:	5/15/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed	Location:	Duck Creek Power
Weather:	cloudy 62-71°F wind 6mph	Environment:	grassy
Multiparameter Water Meter	Make: Horiba	Model: U 5000	Serial Number: PW2GKJD3
Water Level Meter	Make: Solinst	Model: 101	Serial Number: 252879

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.98	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	2	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1990	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	240	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.04	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.4	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

16.8°C

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 929

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	±0.15 s.u.	P		Geotech	2GE870	Mar-24
pH 7.00b	7.00	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.98	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	990	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: JR 1615

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	N		MSI	L344-09	12/14/2023
pH 7.00a	7.00	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.02	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1020	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: Joe Reed — Date: 5/15/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	JD	Location:	Vistra Duck Creek
Weather:	61-68°F & cloudy, wind ENE 10 mph	Environment:	grass

Multiparameter Water Meter	Make: Aquatroll	Model: 600	Serial Number:	762215	
Water Level Meter	Make: Heron	Model: Dipper-T	Serial Number:	11FF220930SML	

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	L344-09	12/14/2023
pH 7.00a	7.05	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.06	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	10.31	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1951.4	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	237.5	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.08	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.28	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 0933			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.07	s.u.	±0.15 s.u.	pass	NA	Geotech	2GE870	Mar-24
pH 7.00b	6.93	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	9.99	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	10328	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1610			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	±0.1 s.u.	pass	No	NA	MSI	L344-09	12/14/2023
pH 7.00a	7.05	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	10.09	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	990.18	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.07	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	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	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	[signature]	Date:	5/15/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Kyle Lane				Location:	Duck Creek			
Weather:	57° to 70° cloudy				Environment:	Dry			
Multiparameter Water Meter	Make:	Horiba	Model:	U-5000	Serial Number:	YL9KJ9HA			
Water Level Meter	Make:	Heron	Model:	Water tape	Serial Number:	19FF220213LML			

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.12	s.u.	±0.1 s.u.	F	yes	4.00	MSI	L344-09	12/14/2023
pH 7.00a	7.10	s.u.	±0.1 s.u.	F	yes	7.00	MSI	L343-07	12/9/2023
pH 10.00a	10.08	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	M082-04	3/25/2024
SC Zero (DI)	2.10	µS/cm	0<25 µS/cm	↓	↓	↓	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1,970	µS/cm	±5%				Geotech	2GE1442	May-23
ORP	215	mV	±15 mV				InSitu	2G1762	Jun-23
DO (Zero pt)	0.07	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.20	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) Time: 09:36

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.99	s.u.	±0.15 s.u.	P	N/A	Geotech	2GE870	Mar-24
pH 7.00b	6.98	s.u.	±0.15 s.u.	↓	↓	Geotech	2GC931	Mar-24
pH 10.00b	10.09	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1,030	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: N/A

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
pH 7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 16:21

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a	4.03	s.u.	±0.1 s.u.	P	N/A	N/A	MSI	L344-09	12/14/2023
7.00a	6.94	s.u.	±0.1 s.u.	↓	↓	↓	MSI	L343-07	12/9/2023
10.00a	9.97	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	~~997~~ 997	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	0.05	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.50	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments: N/A

Signature: [signature] Date: 5-15-2023

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

October 21, 2023

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 General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Sincerely,

Diane Billings
Project Manager

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

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GG04129

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

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

Work Order GG04417

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

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

Work Order GI01375

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

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

ANALYTICAL RESULTS

Sample: GG04129-10
Name: BA06
Matrix: Ground Water - Grab

Sampled: 07/24/23 15:34
Received: 07/24/23 17:42

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	560	mg/L		07/25/23 13:59	100	100	07/25/23 13:59	TMS	EPA 300.0 REV 2.1
Sulfate	360	mg/L		07/25/23 13:59	100	100	07/25/23 13:59	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	25.04	Feet		07/24/23 15:34	1		07/24/23 15:34	JD	Field*
Dissolved oxygen, Field	2.5	mg/L		07/24/23 15:34	1		07/24/23 15:34	JD	Field*
Oxidation Reduction Potential	-40.0	mV		07/24/23 15:34	1	-500	07/24/23 15:34	JD	Field*
pH, Field Measured	6.54	pH Units		07/24/23 15:34	1		07/24/23 15:34	JD	Field*
Specific Conductance, Field Measured	3140	umhos/cm		07/24/23 15:34	1		07/24/23 15:34	JD	Field*
Temperature, Field Measured	18.7	°C		07/24/23 15:34	1		07/24/23 15:34	JD	Field*
Temperature, Field Measured	65.7	°F		07/24/23 15:34	1		07/24/23 15:34	JD	Field*
Turbidity, Field Measured	5.30	NTU		07/24/23 15:34	1	0.00	07/24/23 15:34	JD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	560	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Fluoride	0.264	mg/L		07/27/23 13:03	1	0.250	07/27/23 13:03	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2300	mg/L		07/28/23 10:45	1	26	07/28/23 14:16	MKH	SM 2540C
Total Metals - PIA									
Boron	9000	ug/L		07/26/23 08:54	5	10	07/28/23 14:42	TJJ	EPA 6020A
Calcium	280	mg/L		07/26/23 08:54	5	0.20	08/01/23 12:42	wjm	EPA 6020A
Magnesium	210	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:42	wjm	EPA 6020A
Potassium	0.28	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:42	wjm	EPA 6020A
Sodium	16	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:42	wjm	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GG04129-11
Name: BA01
Matrix: Ground Water - Grab

Sampled: 07/24/23 13:25
Received: 07/24/23 17:42

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	18	mg/L	Q4	07/25/23 15:16	5	5.0	07/25/23 15:16	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/25/23 14:18	1	0.250	07/25/23 14:18	TMS	EPA 300.0 REV 2.1
Sulfate	150	mg/L	Q4	07/25/23 15:36	25	25	07/25/23 15:36	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	15.79	Feet		07/24/23 13:25	1		07/24/23 13:25	JD	Field*
Dissolved oxygen, Field	3.4	mg/L		07/24/23 13:25	1		07/24/23 13:25	JD	Field*
Oxidation Reduction Potential	26.0	mV		07/24/23 13:25	1	-500	07/24/23 13:25	JD	Field*
pH, Field Measured	6.67	pH Units		07/24/23 13:25	1		07/24/23 13:25	JD	Field*
Specific Conductance, Field Measured	982.0	umhos/cm		07/24/23 13:25	1		07/24/23 13:25	JD	Field*
Temperature, Field Measured	18.8	°C		07/24/23 13:25	1		07/24/23 13:25	JD	Field*
Temperature, Field Measured	65.8	°F		07/24/23 13:25	1		07/24/23 13:25	JD	Field*
Turbidity, Field Measured	19.1	NTU		07/24/23 13:25	1	0.00	07/24/23 13:25	JD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	390	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	640	mg/L		07/28/23 10:45	1	26	07/28/23 14:16	MKH	SM 2540C
Total Metals - PIA									
Boron	72	ug/L		07/26/23 08:54	5	10	07/28/23 14:45	TJJ	EPA 6020A
Calcium	110	mg/L		07/26/23 08:54	5	0.20	08/01/23 12:48	wjm	EPA 6020A
Magnesium	61	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:48	wjm	EPA 6020A
Potassium	0.79	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:48	wjm	EPA 6020A
Sodium	14	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:48	wjm	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GG04129-12
Name: BA03
Matrix: Ground Water - Grab

Sampled: 07/24/23 12:06
Received: 07/24/23 17:42

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	5.0	mg/L		07/25/23 15:55	1	1.0	07/25/23 15:55	TMS	EPA 300.0 REV 2.1
Fluoride	0.261	mg/L		07/25/23 15:55	1	0.250	07/25/23 15:55	TMS	EPA 300.0 REV 2.1
Sulfate	17	mg/L		07/25/23 16:14	10	10	07/25/23 16:14	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	10.48	Feet		07/24/23 12:06	1		07/24/23 12:06	JD	Field*
Dissolved oxygen, Field	0.42	mg/L		07/24/23 12:06	1		07/24/23 12:06	JD	Field*
Oxidation Reduction Potential	11.1	mV		07/24/23 12:06	1	-500	07/24/23 12:06	JD	Field*
pH, Field Measured	6.89	pH Units		07/24/23 12:06	1		07/24/23 12:06	JD	Field*
Specific Conductance, Field Measured	798.9	umhos/cm		07/24/23 12:06	1		07/24/23 12:06	JD	Field*
Temperature, Field Measured	65.5	°F		07/24/23 12:06	1		07/24/23 12:06	JD	Field*
Temperature, Field Measured	18.6	°C		07/24/23 12:06	1		07/24/23 12:06	JD	Field*
Turbidity, Field Measured	81.9	NTU		07/24/23 12:06	1	0.00	07/24/23 12:06	JD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	450	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	460	mg/L		07/28/23 10:45	1	26	07/28/23 14:16	MKH	SM 2540C
Total Metals - PIA									
Boron	45	ug/L		07/26/23 08:54	5	10	07/28/23 14:48	TJJ	EPA 6020A
Calcium	98	mg/L		07/26/23 08:54	5	0.20	08/01/23 12:51	wjm	EPA 6020A
Magnesium	55	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:51	wjm	EPA 6020A
Potassium	0.81	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:51	wjm	EPA 6020A
Sodium	6.9	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:51	wjm	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GG04129-13
Name: BA04
Matrix: Ground Water - Grab

Sampled: 07/24/23 14:06
Received: 07/24/23 17:42

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	54	mg/L		07/25/23 16:53	25	25	07/25/23 16:53	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/25/23 16:34	1	0.250	07/25/23 16:34	TMS	EPA 300.0 REV 2.1
Sulfate	180	mg/L		07/25/23 16:53	25	25	07/25/23 16:53	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	6.99	Feet		07/24/23 14:06	1		07/24/23 14:06	JD	Field*
Dissolved oxygen, Field	0.42	mg/L		07/24/23 14:06	1		07/24/23 14:06	JD	Field*
Oxidation Reduction Potential	138	mV		07/24/23 14:06	1	-500	07/24/23 14:06	JD	Field*
pH, Field Measured	6.71	pH Units		07/24/23 14:06	1		07/24/23 14:06	JD	Field*
Specific Conductance, Field Measured	1129	umhos/cm		07/24/23 14:06	1		07/24/23 14:06	JD	Field*
Temperature, Field Measured	18.0	°C		07/24/23 14:06	1		07/24/23 14:06	JD	Field*
Temperature, Field Measured	64.4	°F		07/24/23 14:06	1		07/24/23 14:06	JD	Field*
Turbidity, Field Measured	39.1	NTU		07/24/23 14:06	1	0.00	07/24/23 14:06	JD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	410	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	710	mg/L		07/28/23 10:45	1	26	07/28/23 14:16	MKH	SM 2540C
Total Metals - PIA									
Boron	1900	ug/L		07/26/23 08:54	5	10	07/28/23 14:51	TJJ	EPA 6020A
Calcium	130	mg/L		07/26/23 08:54	5	0.20	08/01/23 12:55	wjm	EPA 6020A
Magnesium	69	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:55	wjm	EPA 6020A
Potassium	0.89	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:55	wjm	EPA 6020A
Sodium	22	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:55	wjm	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GG04129-14
Name: BA05
Matrix: Ground Water - Grab

Sampled: 07/24/23 15:52
Received: 07/24/23 17:42

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	9.6	mg/L		07/26/23 20:30	5	5.0	07/26/23 20:30	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/25/23 17:51	1	0.250	07/25/23 17:51	TMS	EPA 300.0 REV 2.1
Sulfate	500	mg/L		08/01/23 15:06	100	100	08/01/23 15:06	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	21.36	Feet		07/24/23 15:52	1		07/24/23 15:52	JD	Field*
Dissolved oxygen, Field	0.45	mg/L		07/24/23 15:52	1		07/24/23 15:52	JD	Field*
Oxidation Reduction Potential	-51.4	mV		07/24/23 15:52	1	-500	07/24/23 15:52	JD	Field*
pH, Field Measured	6.79	pH Units		07/24/23 15:52	1		07/24/23 15:52	JD	Field*
Specific Conductance, Field Measured	1592	umhos/cm		07/24/23 15:52	1		07/24/23 15:52	JD	Field*
Temperature, Field Measured	58.2	°F		07/24/23 15:52	1		07/24/23 15:52	JD	Field*
Temperature, Field Measured	14.6	°C		07/24/23 15:52	1		07/24/23 15:52	JD	Field*
Turbidity, Field Measured	5270	NTU		07/24/23 15:52	1	0.00	07/24/23 15:52	JD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	490	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1200	mg/L		07/28/23 10:45	1	26	07/28/23 14:16	MKH	SM 2540C
Total Metals - PIA									
Boron	120	ug/L		07/26/23 08:54	5	10	07/28/23 14:54	TJJ	EPA 6020A
Calcium	180	mg/L		07/26/23 08:54	5	0.20	08/01/23 12:59	wjm	EPA 6020A
Magnesium	100	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:59	wjm	EPA 6020A
Potassium	2.4	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:59	wjm	EPA 6020A
Sodium	42	mg/L		07/26/23 08:54	5	0.10	08/01/23 12:59	wjm	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GG04129-16
Name: BA01 DUP
Matrix: Ground Water - Field Duplicate

Sampled: 07/24/23 13:25
Received: 07/24/23 17:42

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	18	mg/L		07/25/23 19:08	5	5.0	07/25/23 19:08	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		07/25/23 18:49	1	0.250	07/25/23 18:49	TMS	EPA 300.0 REV 2.1
Sulfate	160	mg/L		07/25/23 19:28	25	25	07/25/23 19:28	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	15.79	Feet		07/24/23 13:25	1		07/24/23 13:25	JD	Field*
Dissolved oxygen, Field	3.4	mg/L		07/24/23 13:25	1		07/24/23 13:25	JD	Field*
Oxidation Reduction Potential	26.0	mV		07/24/23 13:25	1	-500	07/24/23 13:25	JD	Field*
pH, Field Measured	6.67	pH Units		07/24/23 13:25	1		07/24/23 13:25	JD	Field*
Specific Conductance, Field Measured	982.0	umhos/cm		07/24/23 13:25	1		07/24/23 13:25	JD	Field*
Temperature, Field Measured	65.8	°F		07/24/23 13:25	1		07/24/23 13:25	JD	Field*
Temperature, Field Measured	18.8	°C		07/24/23 13:25	1		07/24/23 13:25	JD	Field*
Turbidity, Field Measured	19.1	NTU		07/24/23 13:25	1	0.00	07/24/23 13:25	JD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	410	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	680	mg/L		07/28/23 10:45	1	26	07/28/23 14:16	MKH	SM 2540C
Total Metals - PIA									
Boron	37	ug/L		07/26/23 08:54	5	10	07/28/23 15:00	TJJ	EPA 6020A
Calcium	110	mg/L		07/26/23 08:54	5	0.20	08/01/23 13:07	wjm	EPA 6020A
Magnesium	63	mg/L		07/26/23 08:54	5	0.10	08/01/23 13:07	wjm	EPA 6020A
Potassium	0.82	mg/L		07/26/23 08:54	5	0.10	08/01/23 13:07	wjm	EPA 6020A
Sodium	15	mg/L		07/26/23 08:54	5	0.10	08/01/23 13:07	wjm	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GG04417-14
Name: BA02
Matrix: Ground Water - Grab

Sampled: 07/25/23 12:47
Received: 07/25/23 17:45

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	11	mg/L		07/26/23 16:48	5	5.0	07/26/23 16:48	TMS	EPA 300.0 REV 2.1
Fluoride	0.322	mg/L		07/26/23 16:28	1	0.250	07/26/23 16:28	TMS	EPA 300.0 REV 2.1
Sulfate	13	mg/L		07/26/23 16:48	5	5.0	07/26/23 16:48	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	12.02	Feet		07/25/23 12:47	1		07/25/23 12:47	FIELD	Field*
Dissolved oxygen, Field	1.8	mg/L		07/25/23 12:47	1		07/25/23 12:47	FIELD	Field*
Oxidation Reduction Potential	-25.9	mV		07/25/23 12:47	1	-500	07/25/23 12:47	FIELD	Field*
pH, Field Measured	6.79	pH Units		07/25/23 12:47	1		07/25/23 12:47	FIELD	Field*
Specific Conductance, Field Measured	740.6	umhos/cm		07/25/23 12:47	1		07/25/23 12:47	FIELD	Field*
Temperature, Field Measured	19.6	°C		07/25/23 12:47	1		07/25/23 12:47	FIELD	Field*
Temperature, Field Measured	67.4	°F		07/25/23 12:47	1		07/25/23 12:47	FIELD	Field*
Turbidity, Field Measured	37.3	NTU		07/25/23 12:47	1	0.00	07/25/23 12:47	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	490	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 2.0	mg/L		08/04/23 09:45	1	2.0	08/04/23 09:45	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	620	mg/L		08/01/23 09:40	1	26	08/01/23 11:00	MKH	SM 2540C
Total Metals - PIA									
Boron	51	ug/L		07/27/23 09:21	5	10	08/09/23 16:54	TJJ	EPA 6020A
Calcium	99	mg/L		07/27/23 09:21	5	0.20	08/07/23 17:07	TJJ	EPA 6020A
Magnesium	47	mg/L		07/27/23 09:21	5	0.10	08/07/23 17:07	TJJ	EPA 6020A
Potassium	1.4	mg/L		07/27/23 09:21	5	0.10	08/07/23 17:07	TJJ	EPA 6020A
Sodium	48	mg/L		07/27/23 09:21	5	0.10	08/08/23 17:44	TJJ	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GI01375-01
Name: BA03L
Matrix: Ground Water - Grab

Sampled: 09/06/23 10:54
Received: 09/06/23 14:06

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	13	mg/L	Q4	09/07/23 12:05	10	10	09/07/23 12:05	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		09/07/23 11:47	1	0.250	09/07/23 11:47	TMS	EPA 300.0 REV 2.1
Sulfate	420	mg/L	Q4	09/07/23 12:23	50	50	09/07/23 12:23	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	9.46	Feet		09/07/23 00:00	1		09/07/23 00:00	FIELD	Field*
Dissolved oxygen, Field	4.1	mg/L		09/07/23 00:00	1		09/07/23 00:00	FIELD	Field*
Oxidation Reduction Potential	217	mV		09/07/23 00:00	1	-500	09/07/23 00:00	FIELD	Field*
pH, Field Measured	6.72	pH Units		09/07/23 00:00	1		09/07/23 00:00	FIELD	Field*
Specific Conductance, Field Measured	1490	umhos/cm		09/07/23 00:00	1		09/07/23 00:00	FIELD	Field*
Temperature, Field Measured	66.9	°F		09/07/23 00:00	1		09/07/23 00:00	FIELD	Field*
Temperature, Field Measured	19.4	°C		09/07/23 00:00	1		09/07/23 00:00	FIELD	Field*
Turbidity, Field Measured	44.2	NTU		09/07/23 00:00	1	0.00	09/07/23 00:00	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	500	mg/L		09/13/23 15:18	1	10	09/13/23 15:18	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		09/13/23 15:18	1	10	09/13/23 15:18	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1900	mg/L		09/13/23 10:50	1	17	09/13/23 12:20	CPS	SM 2540C
Total Metals - PIA									
Boron	330	ug/L		09/14/23 08:52	5	10	09/19/23 11:05	TJJ	EPA 6020A
Calcium	200	mg/L		09/14/23 08:52	5	0.20	09/25/23 12:56	TJJ	EPA 6020A
Magnesium	110	mg/L		09/14/23 08:52	5	0.10	09/18/23 15:57	TJJ	EPA 6020A
Potassium	0.30	mg/L		09/14/23 08:52	5	0.10	09/18/23 15:57	TJJ	EPA 6020A
Sodium	15	mg/L		09/14/23 08:52	5	0.10	09/18/23 15:57	TJJ	EPA 6020A

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
Batch B339564 - SW 3015 - EPA 6020A									
Blank (B339564-BLK1)				Prepared: 07/26/23 Analyzed: 07/28/23					
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 (B339564-BS1)				Prepared: 07/26/23 Analyzed: 07/28/23					
Boron	663	ug/L		555.6		119	80-120		
Calcium	5.11	mg/L		5.556		92	80-120		
Magnesium	5.77	mg/L		5.556		104	80-120		
Potassium	5.43	mg/L		5.556		98	80-120		
Sodium	5.34	mg/L		5.556		96	80-120		
Matrix Spike (B339564-MS1)	**Sample: GG04129-01**			Prepared: 07/26/23 Analyzed: 07/28/23					
Boron	23800	ug/L	Q4	555.6	23500	68	75-125		
Calcium	212	mg/L	Q4	5.556	211	22	75-125		
Magnesium	102	mg/L	Q4	5.556	98.9	53	75-125		
Potassium	12.9	mg/L		5.556	7.69	94	75-125		
Sodium	173	mg/L	Q4	5.556	173	6	75-125		
Matrix Spike Dup (B339564-MSD1)	**Sample: GG04129-01**			Prepared: 07/26/23 Analyzed: 07/28/23					
Boron	24200	ug/L	Q4	555.6	23500	129	75-125	1	20
Calcium	211	mg/L	Q4	5.556	211	NR	75-125	0.6	20
Magnesium	101	mg/L	Q4	5.556	98.9	42	75-125	0.6	20
Potassium	12.8	mg/L		5.556	7.69	93	75-125	0.6	20
Sodium	173	mg/L	Q4	5.556	173	NR	75-125	0.3	20
Batch B339593 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B339593-MS1)	**Sample: GG04129-01**			Prepared & Analyzed: 07/25/23					
Sulfate	1.00E9	mg/L	Q4	1.500	391	NR	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	330	NR	80-120		
Matrix Spike (B339593-MS2)	**Sample: GG04129-11**			Prepared & Analyzed: 07/25/23					
Chloride	1.0E9	mg/L	Q4	1.500	18	NR	80-120		
Fluoride	1.85	mg/L		1.500	0.230	108	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	150	NR	80-120		
Matrix Spike Dup (B339593-MSD1)	**Sample: GG04129-01**			Prepared & Analyzed: 07/25/23					
Chloride	1.0E9	mg/L	Q4	1.500	330	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	391	NR	80-120	0	20
Matrix Spike Dup (B339593-MSD2)	**Sample: GG04129-11**			Prepared & Analyzed: 07/25/23					
Fluoride	1.85	mg/L		1.500	0.230	108	80-120	0.04	20
Sulfate	1.00E9	mg/L	Q4	1.500	150	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	18	NR	80-120	0	20
Batch B339705 - SW 3015 - EPA 6020A									
Blank (B339705-BLK1)				Prepared: 07/27/23 Analyzed: 08/09/23					
Boron	< 10	ug/L							
Calcium	< 0.20	mg/L							

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
Blank (B339705-BLK1)				Prepared: 07/27/23 Analyzed: 08/08/23					
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
LCS (B339705-BS1)				Prepared: 07/27/23 Analyzed: 08/09/23					
Boron	526	ug/L		555.6		95	80-120		
Calcium	5.59	mg/L		5.556		101	80-120		
Magnesium	5.81	mg/L		5.556		105	80-120		
Potassium	6.05	mg/L		5.556		109	80-120		
Sodium	5.69	mg/L		5.556		102	80-120		
Matrix Spike (B339705-MS1)	**Sample: GG04417-01**			Prepared: 07/27/23 Analyzed: 08/09/23					
Boron	826	ug/L	Q1	555.6	472	64	75-125		
Calcium	290	mg/L	Q4	5.556	289	18	75-125		
Magnesium	189	mg/L	Q4	5.556	179	173	75-125		
Potassium	30.8	mg/L		5.556	24.5	113	75-125		
Sodium	10.7	mg/L		5.556	5.57	93	75-125		
Matrix Spike Dup (B339705-MSD1)	**Sample: GG04417-01**			Prepared: 07/27/23 Analyzed: 08/09/23					
Boron	770	ug/L	Q2	555.6	472	54	75-125	7	20
Calcium	285	mg/L	Q4	5.556	289	NR	75-125	2	20
Magnesium	191	mg/L	Q4	5.556	179	205	75-125	0.9	20
Potassium	31.3	mg/L		5.556	24.5	123	75-125	2	20
Sodium	10.6	mg/L		5.556	5.57	90	75-125	1	20
Batch B339730 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B339730-MS1)	**Sample: GG04417-01**			Prepared & Analyzed: 07/26/23					
Chloride	4.5	mg/L		1.500	2.8	115	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	347	NR	80-120		
Matrix Spike Dup (B339730-MSD1)	**Sample: GG04417-01**			Prepared & Analyzed: 07/26/23					
Sulfate	1.00E9	mg/L	Q4	1.500	347	NR	80-120	0	20
Chloride	4.4	mg/L		1.500	2.8	113	80-120	0.9	20
Batch B339834 - No Prep - SM 2540C									
Blank (B339834-BLK1)				Prepared & Analyzed: 07/28/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B339834-BS1)				Prepared & Analyzed: 07/28/23					
Solids - total dissolved solids (TDS)	963	mg/L		1000		96	84.9-109		
Duplicate (B339834-DUP1)	**Sample: GG04129-01**			Prepared & Analyzed: 07/28/23					
Solids - total dissolved solids (TDS)	1760	mg/L			1840			4	5
Duplicate (B339834-DUP2)	**Sample: GG04129-11**			Prepared & Analyzed: 07/28/23					
Solids - total dissolved solids (TDS)	630	mg/L			635			0.8	5
Batch B339934 - No Prep - SM 2540C									
Blank (B339934-BLK1)				Prepared & Analyzed: 08/01/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B339934-BS1)				Prepared & Analyzed: 08/01/23					
Solids - total dissolved solids (TDS)	993	mg/L		1000		99	84.9-109		
Duplicate (B339934-DUP1)	**Sample: GG04417-01**			Prepared & Analyzed: 08/01/23					
Solids - total dissolved solids (TDS)	980	mg/L			960			2	5

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
Duplicate (B339934-DUP2)	**Sample: GG04417-11**			Prepared & Analyzed: 08/01/23					
Solids - total dissolved solids (TDS)	785	mg/L	M		810			3	5
Batch B340448 - No Prep - SM 2320B 1997									
Duplicate (B340448-DUP1)	**Sample: GG04129-01**			Prepared & Analyzed: 08/04/23					
Alkalinity - bicarbonate as CaCO3	525	mg/L			525			0	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Duplicate (B340448-DUP2)	**Sample: GG04129-11**			Prepared & Analyzed: 08/04/23					
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	400	mg/L			388			3	10
Duplicate (B340448-DUP3)	**Sample: GG04129-14**			Prepared & Analyzed: 08/04/23					
Alkalinity - bicarbonate as CaCO3	500	mg/L			488			3	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Duplicate (B340448-DUP4)	**Sample: GG04417-01**			Prepared & Analyzed: 08/04/23					
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	400	mg/L			362			10	10
Batch B343272 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B343272-MS1)	**Sample: GI01375-01**			Prepared & Analyzed: 09/07/23					
Fluoride	1.76	mg/L		1.500	0.165	106	80-120		
Chloride	1.0E9	mg/L	Q4	1.500	13	NR	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	417	NR	80-120		
Matrix Spike Dup (B343272-MSD1)	**Sample: GI01375-01**			Prepared & Analyzed: 09/07/23					
Sulfate	1.00E9	mg/L	Q4	1.500	417	NR	80-120	0	20
Chloride	1.0E9	mg/L	Q4	1.500	13	NR	80-120	0	20
Fluoride	1.70	mg/L		1.500	0.165	102	80-120	3	20
Batch B343644 - No Prep - SM 2540C									
Blank (B343644-BLK1)				Prepared & Analyzed: 09/13/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B343644-BS1)				Prepared & Analyzed: 09/13/23					
Solids - total dissolved solids (TDS)	953	mg/L		1000		95	84.9-109		
Batch B343702 - No Prep - SM 2320B 1997									
Duplicate (B343702-DUP1)	**Sample: GI01375-01**			Prepared & Analyzed: 09/13/23					
Alkalinity - bicarbonate as CaCO3	512	mg/L			500			2	10
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Batch B343765 - SW 3015 - EPA 6020A									
Blank (B343765-BLK1)				Prepared: 09/14/23 Analyzed: 09/19/23					
Boron	< 10	ug/L							
Magnesium	< 0.10	mg/L							
Potassium	< 0.10	mg/L							
Sodium	< 0.10	mg/L							
LCS (B343765-BS1)				Prepared: 09/14/23 Analyzed: 09/19/23					
Boron	547	ug/L		555.6		98	80-120		
Magnesium	5.81	mg/L		5.556		105	80-120		
Potassium	5.58	mg/L		5.556		100	80-120		

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
LCS (B343765-BS1)				Prepared: 09/14/23 Analyzed: 09/18/23					
Sodium	5.73	mg/L		5.556		103	80-120		
Matrix Spike (B343765-MS1)	**Sample: GI01375-01**			Prepared: 09/14/23 Analyzed: 09/19/23					
Boron	867	ug/L		555.6	328	97	75-125		
Matrix Spike Dup (B343765-MSD1)	**Sample: GI01375-01**			Prepared: 09/14/23 Analyzed: 09/19/23					
Boron	858	ug/L		555.6	328	95	75-125	1	20
Batch B344570 - SW 3015 - EPA 6020A									
Blank (B344570-BLK1)				Prepared & Analyzed: 09/25/23					
Calcium	< 0.20	mg/L							
LCS (B344570-BS1)				Prepared & Analyzed: 09/25/23					
Calcium	5.56	mg/L		5.556		100	80-120		

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

Certified by: Diane Billings, Project Manager

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Numl	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
BA01C	DC-BA01!C	205	BAB	7/17/23	1428	14.90		KL
BA01L	DC-BA01!L	205	BAB		1425	15.29		KL
G02L	DC-G02!L	204	LF		0941	12.22		JD
G02D	DC-G02&D	204	LF		0944	22.04	TD = 68.48'	JD
G03L	DC-G03!L	204	LF		0934	8.68	TD = 26.80'	JD
G03S	DC-G03#S	204	LF		0929	8.33		JD
G04L	DC-G04!L	204	LF		1327	15.42	dry	NW
G04S	DC-G04#S	204	LF		1329	18.27		NW
G06L	DC-G06!L	204	LF		1232	21.80		JD
G06S	DC-G06#S	204	LF		1230	22.02		JD
G07L	DC-G07!L	204	LF		1222	21.12		JD
G08L	DC-G08!L	204	LF		1216	20.68		JD
G09L	DC-G09!L	204	LF		1207	20.75		JD
G09S	DC-G09#S	204	LF		1210	20.63		JD
G12L	DC-G12!L	204	LF		1139	21.67		JD
G12S	DC-G12#S	204	LF		1141	22.72		JD
G14L	DC-G14!L	204	LF		1106	24.02	TD = 26.86	JD
G15L	DC-G15!L	204	LF		1050	30.85		JD
G15S	DC-G15#S	204	LF		1047	31.19		JD
G16L	DC-G16!L	204	LF		1042	29.41		JD
G50L	DC-G50!L	203	GMF		1036	12.52		KL
G51L	DC-G51!L	203	GMF		1522	15.75		JD
G52L	DC-G52!L	203	GMF		1515	26.38		JD

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Numl	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
G52S	DC-G52#S	203	GMF	7/17/23	1516	31.00		JD
G53L	DC-G53!L	203	GMF		11:56	11.98		KL
G53S	DC-G53#S	203	GMF		11:59	13.70		KL
G55L	DC-G55!L	203	GMF		1532	19.38		JD
G55S	DC-G55#S	203	GMF		1531	19.18		JD
G56L	DC-G56!L	203	GMF		9:36	18.15	TD = 25.43	KL
G56S	DC-G56#S	203	GMF		933	18.55		KL
G57L	DC-G57!L	203	GMF		9:47	22.35	TD: 29.28	KL
G58L	DC-G58!L	203	GMF		9:51	26.56	TD = 33.81	KL
G58S	DC-G58#S	203	GMF		9:54	26.59		KL
G59L	DC-G59!L	203	GMF		9:57	25.54	TD: 35.32	KL
G59S	DC-G59#S	203	GMF		9:59	33.85		KL
G61S	DC-G61#S	203	GMF		10:14	19.28		KL
G62L	DC-G62!L	203	GMF		10:19	20.79	TD = 33.52	KL
G63L	DC-G63!L	203	GMF		10:22	23.60	TD = 31.02	KL
G63S	DC-G63#S	203	GMF		10:26	24.34		KL
G65L	DC-G65!L	203	GMF		12:35	18.21	TD = 25.16	NW
G65S	DC-G65#S	203	GMF		10:31	18.52		NW
G66L	DC-G66!L	203	GMF		10:45	12.35		NW
G66S	DC-G66#S	203	GMF		10:46	13.01		NW
G67L	DC-G67!L	203	GMF		10:55	11.45		NW
G67S	DC-G67#S	203	GMF		10:58	12.33		NW
G68L	DC-G68!L	203	GMF		11:41	11.97		NW

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Numl	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
G68S	DC-G68#S	203	GMF	7/17/23	1148	12.85		NW
G69L	DC-G69!L	203	GMF		0941	13.80	TD = 27.86	NW
G69S	DC-G69#S	203	GMF		0933	16.96		NW
G70L	DC-G70!L	203	GMF		0949	16.54		NW
G71L	DC-G71!L	203	GMF		1000	23.71	TD = 32.96	NW
G71S	DC-G71#S	203	GMF		0955	24.48		NW
G72L	DC-G72!L	203	GMF		1005	22.40	TD = 28.02	NW
G73L	DC-G73!L	203	GMF		1025	25.53		NW
L103	DC-L103	204	LF		1515	1.10		AP
OM05S	DC-OM05#S	201-202	AP1/2		1403	18.00	TD = 25.70	AP
OM08	DC-OM08	201-202	AP1/2		1348	14.85	TD = 26.94	AP
OM09	DC-OM09	201-202	AP1/2		1259	4.18		AP
OM10	DC-OM10	201-202	AP1/2		1100	-	not safe to access	AP
OM15	DC-OM15	201-202	AP1/2		1437	21.60	TD = 51.17	AP
OM22S	DC-OM22#S	201-202	AP1/2		1057	41.79 19.31		BG
OM23S	DC-OM23#S	201-202	AP1/2		1235	57.95 41.79	TD = 46.10	AP
OM25D	DC-OM25&D	201-202	AP1/2		1317	43.62 57.95	TD = 77.39	AP
OR03S	DC-OR03#S	201-202	AP1/2		1045	21.65 45.62		BG
OR05D	DC-OR05&D	201-202	AP1/2		1400	6. 21.65	TD = 49.74	AP
OR14S	DC-OR14#S	201-202	AP1/2		1337	6.82	TD = 24.33	AP
OR18	DC-OR18	201-202	AP1/2		0943	17.32	TD = 53.10	AP
P01L	DC-P01!L	204	LF		0951	10.38	TD = 23.35'	JD
P01S	DC-P01#S	204	LF		0954	10.13	TD = 29.71'	JD

BG

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
P01I	DC-P01$I	204	LF	7/17/23	1005	10.05	TD = 46.95	JD
P02S	DC-P02#S	204	LF		1523	14.89	TD = 91.94	JD
P04S	DC-P04#S	204	LF		1329	18.27		JD
P05L	DC-P05!L	204	LF		1335	3.11	TD = 14.92'	JD
P05S	DC-P05#S	204	LF		1337	3.28		JD
P05D	DC-P05&D	204	LF		13:39	6.30	TD = 46.10'	JD
P36L	DC-P36!L	204	LF		~~1024~~ 1306	~~6.96~~ 11.17	~~TD = 15.09'~~ TD 7/17/23	JD
P36S	DC-P36#S	204	LF		1302	11.33	TD = 31.43'	JD
P36D	DC-P36&D	204	LF		1310	11.57	TD = 51.38	JD
P37L	DC-P37!L	204	LF		1203	13.64		JD
P37D	DC-P37&D	204	LF		1306	15.59		KL
P38L	DC-P38!L	204	LF		1059	17.95	TD = 19.75	JD
P38S	DC-P38#S	204	LF		1057	17.30	TD = 31.42'	JD
P39L	DC-P39!L	204	LF		1024	6.96	TD = 15.09'	JD
P39S	DC-P39#S	204	LF		1031	7.14	TD = 26.25'	JD
P39D	DC-P39&D	204	LF		1028	13.75	TD = 43.58'	JD
P40L	DC-P40!L	204	LF		1359	10.28	TD = 20.44'	JD
P40S	DC-P40#S	204	LF		1401	9.54	TD = 35.42'	JD
P41L	DC-P41!L	204	LF		1117	6.90	TD = 12.00'	JD
P41S	DC-P41#S	204	LF		1119	9.51		KL
P41D	DC-P41&D	204	LF		1123	35.40		KL
P42L	DC-P42!L	204	LF		1216	5.88	TD = 20.30 well is knocked over	NW
P42S	DC-P42#S	204	LF		1218	5.93	TD = 31.47	NW

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Num!	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
P42I1	DC-P42$I1	204	LF	7/17/23	1536	6.02	TD= 42.22	KL
P42I2	DC-P42%I2	204	LF		1534	32.42	TD= 57.30	KL
P42D	DC-P42&D	204	LF		1221	37.62	TD= 77.07	NW
P52	DC-P52	203	GMF		1514	14.82	TD = 28.26	KL
P57L	DC-P57!L	203	GMF		1517	22.32	TD= 29.27	KL
P57S	DC-P57#S	203	GMF		1520	22.08		KL
P60	DC-P60	203	GMF		1010	24.54	TD= 37.30	KL
P61	DC-P61	203	GMF		1053	10.00	TD=21.53'	KL
P62	DC-P62	203	GMF		1050	10.55	TD= 19.11	KL
P63	DC-P63	203	GMF		1048	14.17	TD= 20.46	KL
P64	DC-P64	203	GMF		1103	14.71	TD= 18.92	KL
R10L	DC-R10!L	204	LF		1154	21.93	27.45'= TD	JD
R11L	DC-R11!L	204	LF		1145	21.37	26.89'= TD Soft bottom	JD
R13L	DC-R13!L	204	LF		1131	21.10	29.88'= TD	JD
R61L	DC-R61!L	203	GMF		1528	19.00	31.45'= TD	KL
R72S	DC-R72#S	203	GMF		1010	22.26	TD= 37.77	NW
T43L	DC-T43!L	204	LF		1238	6.69		JD
T44L	DC-T44!L	204	LF		1243	11.00		JD
T45L	DC-T45!L	204	LF		1246	8.96		JD
T46L	DC-T46!L	204	LF		1258	7.00		JD
X301	DC-X301-leachate	203	GMF		NA	NA	NA	
XTPW02	DC-XTPW02-pore	203	GMF		1530	6.99	Dry	AP

U:6/19/23 GKJ

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Numl	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials

BG

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All DTWs on SAR-4 form may be collected at anytime during the sampling event.
Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
							Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L)		
BA01	DC-BA01	205	BAB	7/24/23	1105	15.79	21615533	Yes	174.21	Y	M		KL
BA02	DC-BA02	205	BAB	7/25/23	1111	12.02	21615636	Yes	5.06.	Y	H	batteries replaced	JR
BA02L	DC-BA02IL	205	BAB	7/24	1056	Dry	21615682	yes	173.38	Y	H		KL
BA03	DC-BA03	205	BAB	7/31/23	1340	10.48	21615637	yes	578.34	Y	H		JR
BA03L	DC-BA03IL	205	BAB	7/24	1009	Dry	21615687	yes	173.24	Y	M		KL
BA04	DC-BA04	205	BAB	7/24/23	1249	6.99	21615631	yes	573.67	Y	H		JR
BA05	DC-BA05#	205	BAB	7/31/23	1332	21.36	21615540	yes	572.81	Y	H		JR
BA06	DC-BA06	205	BAB	7/24/23	1534	25.04	21615525	yes	173.93	Y	H		KL
G02S	DC-G02#S	204	LF	7/25/23	1316	10.47	21615554	yes	611.07	Y	M		JR
G50S	DC-G50#S	203	GMF	7/27	1314	15.44	21615535	yes	185.41	y	H		KL
G51S	DC-G51#S	203	GMF	7/31	13:32	15.33	21615691	yes	183.18	y	H		KL
G54L	DC-G54IL	203	GMF	7/31	13:41	22.37	21615690	yes	183.09	y	H		KL
G54S	DC-G54#S	203	GMF	7/31	13:37	23.56	21615684	yes	182.72	y	H		KL
G57S	DC-G57#S	203	GMF	7/31	13:47	22.26	21615683	yes	182.88	y	H		KL
G60L	DC-G60IL	203	GMF	7/31	13:54	12.20	21615678	yes	183.39	y	H		KL
G60S	DC-G60#S	203	GMF	7/31	13:51	24.63	21615677	yes	179.73	y	H		KL
G64L	DC-G64IL	203	GMF	7/31	13:58	22.83	21615688	yes	190.29	y	H		KL
G64S	DC-G64#S	203	GMF	7/25/23	1504	24.18	21615632	Yes	600.32	Y	H		JR

BG

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All DTWs on SAR-4 form may be collected at anytime during the sampling event.
Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
							Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L)		
OM01	DC-OM01	201-202	AP1/2	7/20/23	1019	12.06	21615685	yes	583.4573	yes	H	TD -27.83	APP
OM04S	DC-OM04#S	201-202	AP1/2	7/25/23	1050	20.00	21615542	yes	587.37	yes	H	TD35.88	JD
OM07	DC-DM07	201-202	AP1/2	7/26/23	1045	12.41	21615541	yes	584.12	yes	H	TD=29.97	JD
OM12	DC-OM12	201-202	AP1/2	7/27/23	15:11	17.34	21615527	yes	176.17	yes	H		KL
OM16	DC-OM16	201-202	AP1/2	7/24/23	1130	24.50	21615539	yes	-580.61	yes	H	TD=43.60	SD
OM17	DC-OM17	201-202	AP1/2	7/24/23	1330	13.66	21615693	yes	—	yes	H	replaced batteries	JD
OM21	DC-OM21	201-202	AP1/2	7/19/23	1537	10.80	21615593	yes	11.3153	yes	H	TD - 60.57	APP
OM22D	DC-OM22&D	201-202	AP1/2	7/19/23	1105	18-85	21615592	yes	580.0543	yes	H	TD - 65.07ft	APP
OM23D	DC-OM23&D	201-202	AP1/2	7/27/23	1222	38.54	21615591	yes	39.76	yes	M		JR
OM24D	DC-OM24&D	201-202	AP1/2	7/27/23	1230	41.90	21615522	yes	broken	NO	—	broken/called Informed Graham	JR
OM25S	DC-OM25#S	201-202	AP1/2	7/26/23	1251	57.96	21615681	yes	570.79	yes	H		JD
OR02	DC-OR02	201-202	AP1/2	7/20/23	1241	6.19	21615679	yes	595.0210	yes	H	TD 22.28	APP
OR03D	DC-OR03&D	201-202	AP1/2	7/20/23	1410	44.94	21615577	Yes	583.1947	yes	H	TD	APP
OR04D	DC-OR04&D	201-202	AP1/2	7/25/23	1047	21.21	21615570	yes	586.37	yes	H	TD - 68.01	JD
OR06A	DC-OR06!A	201-202	AP1/2	7/26/23	1202	14.07	21615692	yes	581.23	yes	H	TD - 25.65	JD
OR11	DC-OR11	201-202	AP1/2	7/25/23	1000	31.34	21615686	yes	564.59	yes	H	TD= 41.63	JD
OR13S	DC-OR13#S	201-202	AP1/2	7/31/23	1355		21615676	yes	588.75	yes	M		JR
OR13D	DC-OR13&D	201-202	AP1/2	7/26/23	742		21564135	yes	589.15	yes	H		JR

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All DTWs on SAR-4 form may be collected at anytime during the sampling event.
Plant: DC
Event: DC-23Q3 Rev 0

Well	Unique ID	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
							Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L)		
OR14D	DC-OR14&D	201-202	AP1/2	7/24/23	1431	10.52	21615611	yes	588.34	x	H		
OR19	DC-OR19	201-202	AP1/2	7/31/23	1210	25.99	21615634	yes	571.76	Y	H		JR
OR20	DC-OR20	201-202	AP1/2	07/24/23	0936	21.95	21615610	yes	-565.1	Y	H	TD=57.55	JO

U: 6/21/23 GKJ

BG

Duck Creek

WELL/SAMPLE POINT BA01 **Purge Method:** LOW-FLOW

Date: 7-24-23 Start Time: 11:16 Finish/Sample Time: 13:25

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

Depth to Water From MP: 15.79 ft Total Purge Volume: 1.3 Gal / L / mL

Water Column Length: — ft

Well Water Volume: — Gal / L Total Drawdown: 0.12 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	11:38	15.84	100	6.73	977	18.97	33	3.64	23.1
2	11:39	15.83	100	6.67	993	18.86	30	3.48	21.2
3	11:40	15.84	100	6.67	982	18.80	26	3.35	19.1
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)
3+3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1+1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1+1	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
1+1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1+1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1+1	General (P,500mL)
3+3	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - 1.41 mg/L

Final DTW: 15.91 ft

Comments FD were gabed

Sampler's Signature:

BG

Duck Creek

WELL/SAMPLE POINT BA02 **Purge Method:** dedicated pump

Date: 7/25/23 Start Time: 11:15 Finish/Sample Time: 12:47

Well Depth (Bottom) From MP: 20.44 ft Min. Purge Volume: 1.0 Gal (L) mL

Depth to Water From MP: 12.02 ft Total Purge Volume: 1.5 Gal (L) mL

Water Column Length: 8.42 ft

Well Water Volume: 5.10 Gal (L) Total Drawdown: 2.73 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	11:38	13.43	100	6.79	750.41	19.79	-34.0	1.65	38.60
2	11:40	13:50	100	6.79	720.58	19.75	-30.5	1.68	32.60
3	11:42	13:51	100	6.79	740.64	19.65	-25.9	1.84	37.34
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Aquatroll 600

Sample Appearance:

Odor: ☑ None ☐ Slight ☐ Mod. ☐ Strong

Color ☑ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☑ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P, ~~500mL~~) 1L
3	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - 3.509 mg/L

Final DTW: 14.75 ft

Comments

Sampler's Signature: Nicole Wilson

Duck Creek

WELL/SAMPLE POINT BA02L **Purge Method:** low-flow

Date: 7-24-23 Start Time: 13:40 Finish/Sample Time: 1345

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

Depth to Water From MP: ~~12.03~~ ft water below pump Total Purge Volume: — Gal / L / mL

Water Column Length: — 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			100						
2			100						
3			100						
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 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - NA mg/L

Final DTW: — ft

Comments Insufficient water for sample

Sampler's Signature: Joseph R Reed

BSM

Duck Creek

WELL/SAMPLE POINT BA03 **Purge Method:** Bladder Pump

Date: 7/24/23 Start Time: 1105 Finish/Sample Time: 1206

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

Depth to Water From MP: 10.48 ft Total Purge Volume: 1.3 Gal (L) mL

Water Column Length: — ft

Well Water Volume: — Gal / L Total Drawdown: 0.49 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	1100	10.51	100	6.86	806.49	18.76	8.0	0.61	69.83
2	1101	10.51	100	6.89	800.31	18.65	9.2	0.50	72.02
3	1102	10.52	100	6.89	798.91	18.63	11.1	0.42	81.91
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: AT 600

Sample Appearance:

Odor: ~~X~~ None ☐ Slight ☐ Mod. ☐ Strong

Color ~~X~~ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ~~X~~ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
~~2~~ 1	Ammonia (P,250mL, H2S04)
1	General (P,500mL)
3	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - 0.287 mg/L

Final DTW: 10.97 ft

Comments Changed Batteries in transducer

Sampler's Signature: Joseph R Rust

BG

Duck Creek

WELL/SAMPLE POINT BA03L **Purge Method:** bladder pump

Date: 7/24/23 Start Time: 1009 Finish/Sample Time: 1010

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

Depth to Water From MP: water below pump Total Purge Volume: — Gal / L / mL

Water Column Length: — 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 500mL, H2SO4)
	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - NA mg/L

Final DTW: — ft

Comments No water to pump

Sampler's Signature: Joseph Reed

Duck Creek

WELL/SAMPLE POINT BA04 **Purge Method:** Bladder

Date: 7/24/23 Start Time: 1249 Finish/Sample Time: 1406

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

Depth to Water From MP: 6.99 ft Total Purge Volume: 1.3 Gal / L / mL

Water Column Length: ____ ft

Well Water Volume: ____ Gal / L Total Drawdown: 0.09 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	1304	7.03	100	6.71	1131.4	18.05	142.9	0.48	29.18
2	1305	7.03	100	6.72	1125.7	18.06	139.1	0.40	30.79
3	1306	7.03	100	6.71	1128.8	17.98	138.1	0.42	39.11
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)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, [redacted] mL) 1000 mL
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
IRT	Ammonia (P,250mL, H2S04)
1	General (P,500mL)
3	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - 0.412 mg/L

Final DTW: 7.08 ft

Comments Replaced dead batteries – no data to download

Sampler's Signature: Joseph F Reed

WELL/SAMPLE POINT BA05 **Purge Method:** Bladder

Date: 7/24/23 Start Time: 1420 Finish/Sample Time: 1552

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

Depth to Water From MP: 21.36 ft Total Purge Volume: 1.3 Gal (L) / mL

Water Column Length: — ft

Well Water Volume: — Gal / L Total Drawdown: 4.74 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	1439	23.05	100	6.79	1576.2	14.59	-48.7	0.54	75.33
2	1440	23.05	100	6.79	1589.1	14.56	-50.9	0.47	54.57
3	1441	23.05	100	6.79	1591.5	14.57	-51.4	0.45	52.72
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)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P,500mL)
3	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - 5.463 mg/L

Final DTW: 26.10 ft

Comments

Sampler's Signature: Joseph R Reed

BG

WELL/SAMPLE POINT BA06 **Purge Method:** low flow

Date: 7/24/23 Start Time: 14:21 Finish/Sample Time: 15:34

Well Depth (Bottom) From MP: Pump ft Min. Purge Volume: 1.8 Gal / L / mL

Depth to Water From MP: 25.04 ft Total Purge Volume: 13 Gal / L / mL

Water Column Length: — ft

Well Water Volume: — Gal / L Total Drawdown: 5.94 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	14:34	26.78	100	6.56	3,140	18.78	-28	2.73	5.5
2	14:35	26.95	100	6.53	3,110	18.81	-34	2.61	4.8
3	14:36	27.10	100	6.54	3,140	18.70	-40	2.56	5.3
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)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, 500 mL)
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2S04)
1	General (P,500mL)
3	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - Over range mg/L

Final DTW: 30.98 ft

Comments Na

Sampler's Signature:

BG

66041278
GES

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 6 of 7

Section A Required Client Information:

Company:	Vistra Corp
Address:	13498 E. 900th St
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

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

Section C Invoice Information:

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	DC-257-205	DC-SUP-000	DC-845-205	DC-845-201-202	DC-257-203	DC-845-203	DC-257-204	DC-811-204	DC-WPCP-203-206	DC-CLOSURE-201-202			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	OR20	WT	G	7/24/23	1110		11	X	X	X																				
2	OM16	"	"		1245		11	X	X	X																				
3	OR14D				1531		11	X	X	X																				
4	D36L				1426		2	X		X																				
5	G12S				1335		3	X		X																				
6	T46L				1200		2	X		X																				
7	P37L				1235		2	X		X																				
8	G09S				1121		3	X		X																				
9	T43L				1019		2	X		X																				
10	BA06				1534		11	X	X	X																				
11	BA01 +DUP/MP 7/25/23				1325		22	X	X	X																				
12	BA03				1206		4	X	X	X																				
13	BA04				1406		4	X	X	X																				
14	BA05	"	"	"	1552		11	X	X	X																				
15	EB7	"	"	"	1700		11	X	X	X																				
16																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
DC-23Q3 Rev 0		7/24/23	1742			
					7/24/23	1742

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
15.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James David

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 7/24/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information

Company	Vistra Corp
Address	13498 E. 900th St
Email To	Brian.Voelker@VistraCorp.com
Phone	(217) 753-8911 Fax
Requested Due Date/TAT:	10 day

Section B Required Project Information

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

Section C Invoice Information

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

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

GG04417 gcg

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC-257-205	DC-SUP-000	DC-845-205	DC-845-201-202	DC-257-203	DC-845-203	DC-257-204	DC-811-204	DC-WPCP-203-206	DC-CLOSURE-201-202		Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	OM17	WT	G	7/25/23	1515		8	X	X	X																			
2	OM04S				1424		11	X	X	X																			
3	OR04D				1201		11	X	X	X																			
4	G58L				1351		2	X		X																			
5	R61L				1310		10	X	X	X																			
6	G62L				1219		10	X	X	X																			
7	G63L				1121	3D 2	4	X		X																			
8	G15S				1031		3	X		X																			
9	EB8				1601		11	X	X	X																			
10	EB9				1615		10	X	X	X																			
11	G63L Dup				1121		2	X		X																			
12	G64S				1623		11	X	X	X																			
13	G02S				1435		11	X	X	X																			
14	BA02				1247		11	X	X	X																			
15																													
16																													

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q3 Rev 0	Joseph R Reed	7/25/23	1746		7-25-23	1746	5.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed

DATE Signed (MM/DD/YY): 7/25/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 7

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
		Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #

REGULATORY AGENCY		
NPDES	**GROUND WATER**	DRINKING WATER
UST	RCRA	OTHER
Site Location STATE:	IL	66044I7

Section D Required Client Information

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Valid Matrix Codes MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	DC-257-205	DC-SUP-000	DC-845-205	DC-845-201-202	DC-257-203	DC-845-203	DC-257-204	DC-811-204	DC-WPCP-203-206	DC-CLOSURE-201-202	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	OM01	WT	G	7/25/23	1241		2	X																				
2	OM01 DUP				1241		2	X																				
3	G54L				1523		2	X																				
4	G54S				1556		2	X																				
5	G57S				1426		2	X																				
6	X301				1606		8	X																				
7							1																					
8							3D																					
9							7/25																					
10																												
11																												
12																												
13																												
14																												
15																												
16																												

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-23Q3 Rev 0	[signature]	7/25/23	1722	[signature]	7/25/23	1722	2.0	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: James Dowd

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7/25/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A Required Client Information

Company:	Vistra Corp-Duck Creek
Address:	17751 North Cilco Rd
	Canton, IL 61520
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	John Romang
	John.Romang@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information

Attention:	John Romang
Company Name:	Vistra Corp-Duck Creek
Address:	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

G100696 gw

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	WPCP-203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G66L	WT	G	9/6/23	1017		2	X		X									
2	G71L	WT	G	9/6/23	1257		1			X									
3	G72L	WT	G	9/6/23	1148		2	X		X									
4	G73L	WT	G	9/6/23	1056		2	X	X										
5	R72S	WT	G	9/6/23	1225		2	X		X									
6	BA02L	WT	G	9/6/23	1130		0												
7	BA03L	WT	G	9/6/23	1054		11	X	X	X									
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q3R-Conf-Rev 0		9/6/23	1406							
					9/6/23	1400	6.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Aaron Pemberton

SIGNATURE of SAMPLER: DATE Signed (MM/DD/YY): 09/06/23

walkin

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

January 02, 2024

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 General Manager, Lisa Grant, with any feedback you have about your experience with our laboratory at 309-683-1764 or lisa.grant@pacelabs.com.

Sincerely,

Diane Billings
Project Manager

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

SAMPLE RECEIPT CHECK LIST

Items not applicable will be marked as in compliance

Work Order GJ03182

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

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

Work Order GJ03497

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

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

Work Order GJ03740

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

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

Work Order GK00649

YES	Samples received within temperature compliance when applicable
YES	COC present upon sample receipt
YES	COC completed & legible
YES	Sampler name & signature present
YES	Unique sample IDs assigned
YES	Sample collection location recorded
YES	Date & time collected recorded on COC
YES	Relinquished by client signature on COC
YES	COC & labels match
YES	Sample labels are legible
YES	Appropriate bottle(s) received
YES	Sufficient sample volume received
YES	Sample containers received undamaged
YES	Zero headspace, <6 mm present in VOA vials
YES	Trip blank(s) received
YES	All non-field analyses received within holding times
YES	Short hold time analysis
YES	Current PDC COC submitted
YES	Case narrative provided

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

Case Narrative

BA02L, G02L, G04L, G07L, GO8L, B09L, G14L, G15L, G51L, OM17, P60, R10L, R11L, XTPWO2 were dry. G52S could not be sampled. OMO1 was sampled but had limited volume. Dissolved metals and ferrous iron are not reported. There is no access point to take DTW for X301. We do not have L103 GWEinformation and can't measure BMP at this location.

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

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

ANALYTICAL RESULTS

Sample: GJ03182-01
Name: BA03
Matrix: Ground Water - Grab

Sampled: 10/17/23 12:19
Received: 10/17/23 16:51
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	5.3	mg/L		10/18/23 12:46	1	1.0	10/18/23 12:46	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		10/18/23 12:46	1	0.250	10/18/23 14:16	CRD	EPA 300.0 REV 2.1
Sulfate	14	mg/L	Q4	10/18/23 14:16	5	5.0	10/18/23 14:16	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	11.05	Feet		10/17/23 12:19	1		10/17/23 12:19	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		10/17/23 12:19	1		10/17/23 12:19	FIELD	Field*
Oxidation Reduction Potential	88.0	mV		10/17/23 12:19	1	-500	10/17/23 12:19	FIELD	Field*
pH, Field Measured	6.49	pH Units		10/17/23 12:19	1		10/17/23 12:19	FIELD	Field*
Specific Conductance, Field Measured	813.0	umhos/cm		10/17/23 12:19	1		10/17/23 12:19	FIELD	Field*
Temperature, Field Measured	17.9	°C		10/17/23 12:19	1		10/17/23 12:19	FIELD	Field*
Temperature, Field Measured	64.2	°F		10/17/23 12:19	1		10/17/23 12:19	FIELD	Field*
Turbidity, Field Measured	0.800	NTU		10/17/23 12:19	1	0.00	10/17/23 12:19	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	440	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	440	mg/L		10/19/23 13:29	1	26	10/19/23 15:14	OGS	SM 2540C
Total Metals - PIA									
Boron	16	ug/L		10/19/23 08:58	5	10	10/20/23 13:18	TJJ	EPA 6020A
Calcium	100	mg/L		10/19/23 08:58	5	0.20	10/19/23 16:03	TJJ	EPA 6020A
Magnesium	53	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:03	TJJ	EPA 6020A
Potassium	0.73	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:03	TJJ	EPA 6020A
Sodium	7.3	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:03	TJJ	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GJ03182-02
Name: BA03L
Matrix: Ground Water - Grab

Sampled: 10/17/23 12:23
Received: 10/17/23 16:51
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	12	mg/L		10/18/23 14:52	5	5.0	10/18/23 14:52	CRD	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		10/18/23 14:34	1	0.250	10/18/23 14:34	CRD	EPA 300.0 REV 2.1
Sulfate	390	mg/L		10/18/23 15:10	50	50	10/18/23 15:10	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	9.46	Feet		10/17/23 12:23	1		10/17/23 12:23	FIELD	Field*
Dissolved oxygen, Field	0.59	mg/L		10/17/23 12:23	1		10/17/23 12:23	FIELD	Field*
Oxidation Reduction Potential	111	mV		10/17/23 12:23	1	-500	10/17/23 12:23	FIELD	Field*
pH, Field Measured	6.36	pH Units		10/17/23 12:23	1		10/17/23 12:23	FIELD	Field*
Specific Conductance, Field Measured	1350	umhos/cm		10/17/23 12:23	1		10/17/23 12:23	FIELD	Field*
Temperature, Field Measured	64.9	°F		10/17/23 12:23	1		10/17/23 12:23	FIELD	Field*
Temperature, Field Measured	18.3	°C		10/17/23 12:23	1		10/17/23 12:23	FIELD	Field*
Turbidity, Field Measured	173	NTU		10/17/23 12:23	1	0.00	10/17/23 12:23	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	490	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1200	mg/L		10/19/23 13:29	1	26	10/19/23 15:14	OGS	SM 2540C
Total Metals - PIA									
Boron	210	ug/L		10/19/23 08:58	5	10	10/20/23 12:32	TJJ	EPA 6020A
Calcium	200	mg/L		10/19/23 08:58	5	0.20	10/19/23 16:22	TJJ	EPA 6020A
Magnesium	110	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:22	TJJ	EPA 6020A
Potassium	0.75	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:22	TJJ	EPA 6020A
Sodium	11	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:22	TJJ	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GJ03497-01
Name: BA01
Matrix: Ground Water - Grab

Sampled: 10/18/23 13:25
Received: 10/18/23 17:13
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	15	mg/L	Q4	10/24/23 23:01	5	5.0	10/24/23 23:01	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		10/24/23 21:30	1	0.250	10/24/23 21:30	TMS	EPA 300.0 REV 2.1
Sulfate	160	mg/L	Q4	10/24/23 23:19	25	25	10/24/23 23:19	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	16.25	Feet		10/18/23 13:25	1		10/18/23 13:25	FIELD	Field*
Dissolved oxygen, Field	0.92	mg/L		10/18/23 13:25	1		10/18/23 13:25	FIELD	Field*
Oxidation Reduction Potential	-3.00	mV		10/18/23 13:25	1	-500	10/18/23 13:25	FIELD	Field*
pH, Field Measured	6.51	pH Units		10/18/23 13:25	1		10/18/23 13:25	FIELD	Field*
Specific Conductance, Field Measured	1020	umhos/cm		10/18/23 13:25	1		10/18/23 13:25	FIELD	Field*
Temperature, Field Measured	58.0	°F		10/18/23 13:25	1		10/18/23 13:25	FIELD	Field*
Temperature, Field Measured	14.4	°C		10/18/23 13:25	1		10/18/23 13:25	FIELD	Field*
Turbidity, Field Measured	3.20	NTU		10/18/23 13:25	1	0.00	10/18/23 13:25	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	400	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	660	mg/L		10/24/23 11:18	1	26	10/24/23 13:47	CPS	SM 2540C
Total Metals - PIA									
Boron	30	ug/L		10/19/23 08:58	5	10	10/20/23 12:43	TJJ	EPA 6020A
Calcium	120	mg/L		10/19/23 08:58	5	0.20	10/19/23 16:34	TJJ	EPA 6020A
Magnesium	63	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:34	TJJ	EPA 6020A
Potassium	0.80	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:34	TJJ	EPA 6020A
Sodium	13	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:34	TJJ	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GJ03497-02
Name: BA02
Matrix: Ground Water - Grab

Sampled: 10/18/23 14:34
Received: 10/18/23 17:13
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	9.0	mg/L		10/24/23 23:55	5	5.0	10/24/23 23:55	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		10/24/23 23:37	1	0.250	10/24/23 23:37	TMS	EPA 300.0 REV 2.1
Sulfate	12	mg/L		10/24/23 23:55	5	5.0	10/24/23 23:55	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	12.82	Feet		10/18/23 14:34	1		10/18/23 14:34	FIELD	Field*
Dissolved oxygen, Field	6.9	mg/L		10/18/23 14:34	1		10/18/23 14:34	FIELD	Field*
Oxidation Reduction Potential	-41.0	mV		10/18/23 14:34	1	-500	10/18/23 14:34	FIELD	Field*
pH, Field Measured	6.71	pH Units		10/18/23 14:34	1		10/18/23 14:34	FIELD	Field*
Specific Conductance, Field Measured	940.0	umhos/cm		10/18/23 14:34	1		10/18/23 14:34	FIELD	Field*
Temperature, Field Measured	16.9	°C		10/18/23 14:34	1		10/18/23 14:34	FIELD	Field*
Temperature, Field Measured	62.4	°F		10/18/23 14:34	1		10/18/23 14:34	FIELD	Field*
Turbidity, Field Measured	11.1	NTU		10/18/23 14:34	1	0.00	10/18/23 14:34	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	480	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	530	mg/L		10/24/23 11:18	1	26	10/24/23 13:47	CPS	SM 2540C
Total Metals - PIA									
Boron	55	ug/L		10/19/23 08:58	5	10	10/20/23 12:47	TJJ	EPA 6020A
Calcium	92	mg/L		10/19/23 08:58	5	0.20	10/19/23 16:38	TJJ	EPA 6020A
Magnesium	45	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:38	TJJ	EPA 6020A
Potassium	1.3	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:38	TJJ	EPA 6020A
Sodium	47	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:38	TJJ	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GJ03497-05
Name: BA04
Matrix: Ground Water - Grab

Sampled: 10/18/23 15:40
Received: 10/18/23 17:13
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	42	mg/L		10/25/23 00:31	25	25	10/25/23 00:31	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		10/25/23 00:13	1	0.250	10/25/23 00:13	TMS	EPA 300.0 REV 2.1
Sulfate	160	mg/L		10/25/23 00:31	25	25	10/25/23 00:31	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	7.69	Feet		10/18/23 15:40	1		10/18/23 15:40	FIELD	Field*
Dissolved oxygen, Field	3.6	mg/L		10/18/23 15:40	1		10/18/23 15:40	FIELD	Field*
Oxidation Reduction Potential	44.0	mV		10/18/23 15:40	1	-500	10/18/23 15:40	FIELD	Field*
pH, Field Measured	7.00	pH Units		10/18/23 15:40	1		10/18/23 15:40	FIELD	Field*
Specific Conductance, Field Measured	1130	umhos/cm		10/18/23 15:40	1		10/18/23 15:40	FIELD	Field*
Temperature, Field Measured	17.6	°C		10/18/23 15:40	1		10/18/23 15:40	FIELD	Field*
Temperature, Field Measured	63.7	°F		10/18/23 15:40	1		10/18/23 15:40	FIELD	Field*
Turbidity, Field Measured	2.50	NTU		10/18/23 15:40	1	0.00	10/18/23 15:40	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	420	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	760	mg/L		10/24/23 11:18	1	26	10/24/23 13:47	CPS	SM 2540C
Total Metals - PIA									
Boron	1000	ug/L		10/19/23 08:58	5	10	10/20/23 12:51	TJJ	EPA 6020A
Calcium	140	mg/L		10/19/23 08:58	5	0.20	10/19/23 16:42	TJJ	EPA 6020A
Magnesium	69	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:42	TJJ	EPA 6020A
Potassium	1.2	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:42	TJJ	EPA 6020A
Sodium	18	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:42	TJJ	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GJ03497-06
Name: BA01 DUP
Matrix: Ground Water - Grab

Sampled: 10/18/23 13:25
Received: 10/18/23 17:13
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	15	mg/L		10/25/23 01:09	5	5.0	10/25/23 01:09	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		10/25/23 00:50	1	0.250	10/25/23 00:50	TMS	EPA 300.0 REV 2.1
Sulfate	150	mg/L		10/25/23 01:28	25	25	10/25/23 01:28	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	16.25	Feet		10/18/23 13:25	1		10/18/23 13:25	FIELD	Field*
Dissolved oxygen, Field	0.92	mg/L		10/18/23 13:25	1		10/18/23 13:25	FIELD	Field*
Oxidation Reduction Potential	-3.00	mV		10/18/23 13:25	1	-500	10/18/23 13:25	FIELD	Field*
pH, Field Measured	6.51	pH Units		10/18/23 13:25	1		10/18/23 13:25	FIELD	Field*
Specific Conductance, Field Measured	1020	umhos/cm		10/18/23 13:25	1		10/18/23 13:25	FIELD	Field*
Temperature, Field Measured	58.0	°F		10/18/23 13:25	1		10/18/23 13:25	FIELD	Field*
Temperature, Field Measured	14.4	°C		10/18/23 13:25	1		10/18/23 13:25	FIELD	Field*
Turbidity, Field Measured	3.20	NTU		10/18/23 13:25	1	0.00	10/18/23 13:25	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	390	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		10/27/23 14:21	1	10	10/27/23 14:21	TMS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	660	mg/L		10/24/23 11:18	1	26	10/24/23 13:47	CPS	SM 2540C
Total Metals - PIA									
Boron	29	ug/L		10/19/23 08:58	5	10	10/20/23 12:55	TJJ	EPA 6020A
Calcium	120	mg/L		10/19/23 08:58	5	0.20	10/19/23 16:46	TJJ	EPA 6020A
Magnesium	63	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:46	TJJ	EPA 6020A
Potassium	0.80	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:46	TJJ	EPA 6020A
Sodium	13	mg/L		10/19/23 08:58	5	0.10	10/19/23 16:46	TJJ	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GJ03740-01
Name: BA05
Matrix: Ground Water - Grab

Sampled: 10/19/23 11:40
Received: 10/19/23 16:42
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	8.3	mg/L	Q4	10/25/23 02:24	5	5.0	10/25/23 02:24	TMS	EPA 300.0 REV 2.1
Fluoride	< 0.250	mg/L		10/20/23 16:20	1	0.250	10/20/23 16:20	CRD	EPA 300.0 REV 2.1
Sulfate	480	mg/L	Q4	10/31/23 00:42	100	100	10/31/23 00:42	CRD	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	22.61	Feet		10/19/23 11:40	1		10/19/23 11:40	FIELD	Field*
Dissolved oxygen, Field	0.69	mg/L		10/19/23 11:40	1		10/19/23 11:40	FIELD	Field*
Oxidation Reduction Potential	-63.0	mV		10/19/23 11:40	1	-500	10/19/23 11:40	FIELD	Field*
pH, Field Measured	6.82	pH Units		10/19/23 11:40	1		10/19/23 11:40	FIELD	Field*
Specific Conductance, Field Measured	1730	umhos/cm		10/19/23 11:40	1		10/19/23 11:40	FIELD	Field*
Temperature, Field Measured	13.1	°C		10/19/23 11:40	1		10/19/23 11:40	FIELD	Field*
Temperature, Field Measured	55.6	°F		10/19/23 11:40	1		10/19/23 11:40	FIELD	Field*
Turbidity, Field Measured	5.80	NTU		10/19/23 11:40	1	0.00	10/19/23 11:40	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	480	mg/L		11/01/23 09:54	1	10	11/01/23 09:54	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/01/23 09:54	1	10	11/01/23 09:54	CPS	SM 2320B 1997*
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	1200	mg/L		10/24/23 11:20	1	26	10/24/23 15:20	OGS	SM 2540C
Total Metals - PIA									
Boron	81	ug/L		10/23/23 09:11	5	10	10/26/23 12:07	TJJ	EPA 6020A
Calcium	200	mg/L		10/23/23 09:11	5	0.20	10/25/23 15:48	TJJ	EPA 6020A
Magnesium	100	mg/L	Q4	10/23/23 09:11	5	0.10	10/25/23 15:48	TJJ	EPA 6020A
Potassium	2.4	mg/L		10/23/23 09:11	5	0.10	10/25/23 15:48	TJJ	EPA 6020A
Sodium	45	mg/L		10/23/23 09:11	5	0.10	10/25/23 15:48	TJJ	EPA 6020A

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

ANALYTICAL RESULTS

Sample: GJ03740-02
Name: BA06
Matrix: Ground Water - Grab

Sampled: 10/19/23 13:09
Received: 10/19/23 16:42
PO #: 1728919

Parameter	Result	Unit	Qualifier	Prepared	Dilution	MRL	Analyzed	Analyst	Method
Anions - PIA									
Chloride	510	mg/L		10/31/23 01:37	100	100	10/31/23 01:37	CRD	EPA 300.0 REV 2.1
Sulfate	370	mg/L		10/25/23 03:40	50	50	10/25/23 03:40	TMS	EPA 300.0 REV 2.1
Field - PIA									
Depth, From Measuring Point	24.76	Feet		10/19/23 13:09	1		10/19/23 13:09	FIELD	Field*
Dissolved oxygen, Field	0.0	mg/L		10/19/23 13:09	1		10/19/23 13:09	FIELD	Field*
Oxidation Reduction Potential	-38.0	mV		10/19/23 13:09	1	-500	10/19/23 13:09	FIELD	Field*
pH, Field Measured	6.57	pH Units		10/19/23 13:09	1		10/19/23 13:09	FIELD	Field*
Specific Conductance, Field Measured	3170	umhos/cm		10/19/23 13:09	1		10/19/23 13:09	FIELD	Field*
Temperature, Field Measured	55.9	°F		10/19/23 13:09	1		10/19/23 13:09	FIELD	Field*
Temperature, Field Measured	13.3	°C		10/19/23 13:09	1		10/19/23 13:09	FIELD	Field*
Turbidity, Field Measured	3.30	NTU		10/19/23 13:09	1	0.00	10/19/23 13:09	FIELD	Field*
General Chemistry - PIA									
Alkalinity - bicarbonate as CaCO3	500	mg/L		11/01/23 09:54	1	10	11/01/23 09:54	CPS	SM 2320B 1997*
Alkalinity - carbonate as CaCO3	< 10	mg/L		11/01/23 09:54	1	10	11/01/23 09:54	CPS	SM 2320B 1997*
Fluoride	< 0.250	mg/L		11/08/23 14:02	1	0.250	11/08/23 14:02	ANK	SM 4500F C 1997
Soluble General Chemistry - PIA									
Solids - total dissolved solids (TDS)	2000	mg/L		10/24/23 11:20	1	26	10/24/23 15:20	OGS	SM 2540C
Total Metals - PIA									
Boron	9900	ug/L		10/23/23 09:11	5	10	10/27/23 08:14	TJJ	EPA 6020A
Calcium	300	mg/L		10/23/23 09:11	5	0.20	10/25/23 16:03	TJJ	EPA 6020A
Magnesium	210	mg/L		10/23/23 09:11	5	0.10	10/25/23 16:03	TJJ	EPA 6020A
Potassium	0.31	mg/L		10/23/23 09:11	5	0.10	10/25/23 16:03	TJJ	EPA 6020A
Sodium	17	mg/L		10/23/23 09:11	5	0.10	10/25/23 16:03	TJJ	EPA 6020A

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
Batch B346859 - SW 3015 - EPA 6020A									
Blank (B346859-BLK1)				Prepared & Analyzed: 10/19/23					
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 (B346859-BS1)				Prepared & Analyzed: 10/19/23					
Boron	515	ug/L		555.6		93	80-120		
Calcium	5.69	mg/L		5.556		102	80-120		
Magnesium	5.73	mg/L		5.556		103	80-120		
Potassium	5.76	mg/L		5.556		104	80-120		
Sodium	5.58	mg/L		5.556		100	80-120		
Matrix Spike (B346859-MS1)	**Sample: GJ03182-01**			Prepared: 10/19/23 Analyzed: 10/20/23					
Boron	599	ug/L		555.6	16.0	105	75-125		
Calcium	108	mg/L		5.556	102	108	75-125		
Magnesium	57.6	mg/L		5.556	52.7	88	75-125		
Potassium	6.63	mg/L		5.556	0.725	106	75-125		
Sodium	12.9	mg/L		5.556	7.28	101	75-125		
Matrix Spike Dup (B346859-MSD1)	**Sample: GJ03182-01**			Prepared: 10/19/23 Analyzed: 10/20/23					
Boron	592	ug/L		555.6	16.0	104	75-125	1	20
Calcium	106	mg/L		5.556	102	78	75-125	2	20
Magnesium	57.1	mg/L		5.556	52.7	79	75-125	0.9	20
Potassium	6.50	mg/L		5.556	0.725	104	75-125	2	20
Sodium	12.7	mg/L		5.556	7.28	98	75-125	1	20
Batch B346878 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B346878-MS1)	**Sample: GJ03182-01**			Prepared & Analyzed: 10/18/23					
Chloride	6.7	mg/L		1.500	5.3	93	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	14.1	NR	80-120		
Fluoride	1.49	mg/L		1.500	ND	99	80-120		
Matrix Spike Dup (B346878-MSD1)	**Sample: GJ03182-01**			Prepared & Analyzed: 10/18/23					
Sulfate	1.00E9	mg/L	Q4	1.500	14.1	NR	80-120	0	20
Fluoride	1.52	mg/L		1.500	ND	102	80-120	2	20
Chloride	6.5	mg/L		1.500	5.3	83	80-120	2	20
Batch B346913 - No Prep - SM 2540C									
Blank (B346913-BLK1)				Prepared & Analyzed: 10/19/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B346913-BS1)				Prepared & Analyzed: 10/19/23					
Solids - total dissolved solids (TDS)	913	mg/L		1000		91	84.9-109		
Duplicate (B346913-DUP1)	**Sample: GJ03182-03**			Prepared & Analyzed: 10/19/23					
Solids - total dissolved solids (TDS)	920	mg/L			930			1	5
Duplicate (B346913-DUP2)	**Sample: GJ03182-09**			Prepared & Analyzed: 10/19/23					
Solids - total dissolved solids (TDS)	< 17	mg/L			ND				5

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
Batch B347107 - SW 3015 - EPA 6020A									
Blank (B347107-BLK1)				Prepared: 10/23/23 Analyzed: 10/26/23					
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 (B347107-BS1)				Prepared: 10/23/23 Analyzed: 10/26/23					
Boron	518	ug/L		555.6		93	80-120		
Calcium	5.61	mg/L		5.556		101	80-120		
Magnesium	5.79	mg/L		5.556		104	80-120		
Potassium	5.80	mg/L		5.556		104	80-120		
Sodium	5.71	mg/L		5.556		103	80-120		
Matrix Spike (B347107-MS1)	**Sample: GJ03740-01**			Prepared: 10/23/23 Analyzed: 10/26/23					
Boron	618	ug/L		555.6	80.6	97	75-125		
Calcium	206	mg/L		5.556	201	88	75-125		
Magnesium	106	mg/L	Q4	5.556	102	73	75-125		
Potassium	8.20	mg/L		5.556	2.38	105	75-125		
Sodium	49.9	mg/L		5.556	44.9	91	75-125		
Matrix Spike Dup (B347107-MSD1)	**Sample: GJ03740-01**			Prepared: 10/23/23 Analyzed: 10/26/23					
Boron	636	ug/L		555.6	80.6	100	75-125	3	20
Calcium	207	mg/L		5.556	201	110	75-125	0.6	20
Magnesium	106	mg/L	Q4	5.556	102	72	75-125	0.04	20
Potassium	8.15	mg/L		5.556	2.38	104	75-125	0.7	20
Sodium	50.1	mg/L		5.556	44.9	94	75-125	0.3	20
Batch B347137 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B347137-MS1)	**Sample: GJ03740-01**			Prepared & Analyzed: 10/20/23					
Fluoride	1.58	mg/L		1.500	0.194	93	80-120		
Matrix Spike Dup (B347137-MSD1)	**Sample: GJ03740-01**			Prepared & Analyzed: 10/20/23					
Fluoride	1.72	mg/L		1.500	0.194	101	80-120	8	20
Batch B347263 - No Prep - SM 2540C									
Blank (B347263-BLK1)				Prepared & Analyzed: 10/24/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B347263-BS1)				Prepared & Analyzed: 10/24/23					
Solids - total dissolved solids (TDS)	983	mg/L		1000		98	84.9-109		
Batch B347264 - No Prep - SM 2540C									
Blank (B347264-BLK1)				Prepared & Analyzed: 10/24/23					
Solids - total dissolved solids (TDS)	< 17	mg/L							
LCS (B347264-BS1)				Prepared & Analyzed: 10/24/23					
Solids - total dissolved solids (TDS)	947	mg/L		1000		95	84.9-109		
Duplicate (B347264-DUP1)	**Sample: GJ03740-03**			Prepared & Analyzed: 10/24/23					
Solids - total dissolved solids (TDS)	450	mg/L			430			5	5
Batch B347400 - IC No Prep - EPA 300.0 REV 2.1									

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
Matrix Spike (B347400-MS1)	**Sample: GJ03497-01**			Prepared & Analyzed: 10/24/23					
Chloride	1.0E9	mg/L	Q4	1.500	15	NR	80-120		
Fluoride	1.56	mg/L		1.500	0.134	95	80-120		
Sulfate	1.00E9	mg/L	Q4	1.500	157	NR	80-120		
Matrix Spike (B347400-MS2)	**Sample: GJ03740-01**			Prepared & Analyzed: 10/25/23					
Chloride	1.0E9	mg/L	Q4	1.500	8.3	NR	80-120		
Matrix Spike Dup (B347400-MSD1)	**Sample: GJ03497-01**			Prepared & Analyzed: 10/24/23					
Fluoride	1.61	mg/L		1.500	0.134	98	80-120	3	20
Chloride	1.0E9	mg/L	Q4	1.500	15	NR	80-120	0	20
Sulfate	1.00E9	mg/L	Q4	1.500	157	NR	80-120	0	20
Matrix Spike Dup (B347400-MSD2)	**Sample: GJ03740-01**			Prepared & Analyzed: 10/25/23					
Chloride	1.0E9	mg/L	Q4	1.500	8.3	NR	80-120	0	20
Batch B347669 - No Prep - SM 2320B 1997									
Duplicate (B347669-DUP1)	**Sample: GJ03182-01**			Prepared & Analyzed: 10/27/23					
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	450	mg/L			438			3	10
Duplicate (B347669-DUP2)	**Sample: GJ03497-01**			Prepared & Analyzed: 10/27/23					
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	412	mg/L			400			3	10
Batch B347854 - IC No Prep - EPA 300.0 REV 2.1									
Matrix Spike (B347854-MS1)	**Sample: GJ03740-01**			Prepared & Analyzed: 10/31/23					
Sulfate	1.00E9	mg/L	Q4	1.500	478	NR	80-120		
Matrix Spike Dup (B347854-MSD1)	**Sample: GJ03740-01**			Prepared & Analyzed: 10/31/23					
Sulfate	1.00E9	mg/L	Q4	1.500	478	NR	80-120	0	20
Batch B347965 - No Prep - SM 2320B 1997									
Duplicate (B347965-DUP1)	**Sample: GJ03740-01**			Prepared & Analyzed: 11/01/23					
Alkalinity - carbonate as CaCO3	< 10	mg/L			ND				10
Alkalinity - bicarbonate as CaCO3	500	mg/L			475			5	10
Batch B348569 - No Prep - SM 4500F C 1997									
Matrix Spike (B348569-MS1)	**Sample: GJ03740-02**			Prepared & Analyzed: 11/08/23					
Fluoride	1.25	mg/L		1.000	0.231	102	80-120		
Matrix Spike Dup (B348569-MSD1)	**Sample: GJ03740-02**			Prepared & Analyzed: 11/08/23					
Fluoride	1.26	mg/L		1.000	0.231	102	80-120	0.2	20

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

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

Certified by: Diane Billings, Project Manager

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 6 of 10

Section A Required Client Information:

Company:	Vistra Corp-Duck Creek
Address:	17751 North Cilco Rd
	Canton, IL 61520
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Sam Davies: samantha.davies@vistracorp.com
	Daryl Johnson: Robert.Johnson@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Brian Voelker
Company Name:	Vistra Corp
Address:	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

6503152

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N	Analysis Test	DC-257-203	DC-257-204	DC-257-205	DC-811-204	DC-845-201-202	DC-845-203	DC-845-205	DC-CLOSURE-201-202	DC-SUP-000	DC-WPCP-203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	OM23S																											
2	OM24D																											
3	OM25D																											
4	OM25S																											
5	OR02																											
6	OR03D																											
7	OR03S																											
8	OR04D																											
9	OR05D																											
10	OR06A																											
11	OR11																											
12	OR13D																											
13	OR13S			10/17/23	1114		11																					
14	~~OR14D~~ FD-1			10/17/23	1645 BGL		11																					
15	OR14S																											
16	OR18																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q4 Rev 0		10/17/23	1651		10/17/23	1651	16.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Logan Ross

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 10/17/2023

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-Duck Creek
Address:	17751 North Cilco Rd
	Canton, IL 61520
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Sam Davies: samantha.davies@vistracorp.com
	Daryl Johnson: Robert.Johnson@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Brian Voelker
Company Name:	Vistra Corp
Address:	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

GSD3182

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N)	DC-257-203	DC-257-204	DC-257-205	DC-811-204	DC-845-201-202	DC-845-203	DC-845-205	DC-CLOSURE-201-202	DC-SUP-000	DC-WPCP-203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G53S			10/17/23	1504		2																					
2	G54L																											
3	G54S																											
4	G55L			10/17/23	1337		2																					
5	G55S			10/17/23	1335		2																					
6	G56L			~~10~~ 10/17/23																								
7	G56S																											
8	G57L																											
9	G57S																											
10	G58L																											
11	G58S																											
12	G59L																											
13	G59S																											
14	G60L																											
15	G60S																											
16	G61S																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
DC-23Q4 Rev 0		10/17/23	1651			
					10/17/23	1651

SAMPLE CONDITIONS

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
16.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Logan Ross

SIGNATURE of SAMPLER:

DATE Signed (MM/DD/YY): 10/17/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Vistra Corp-Duck Creek	Report To:	Brian Voelker	Attention:	Brian Voelker
Address	17751 North Cilco Rd	Copy To:	Sam Davies: samantha.davies@vistracorp.com	Company Name:	Vistra Corp
	Canton, IL 61520		Daryl Johnson: Robert.Johnson@vistracorp.com	Address:	see Section A
Email To:	Brian.Voelker@VistraCorp.com	Purchase Order No.:		Quote Reference:	
Phone:	(217) 753-8911 Fax:	Project Name:		Project Manager:	
Requested Due Date/TAT:	10 day	Project Number:	2285	Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL GJ03182 yes

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N: Analysis Test	DC-257-203	DC-257-204	DC-257-205	DC-811-204	DC-845-201-202	DC-845-203	DC-845-205	DC-CLOSURE-201-202	DC-SUP-000	DC-WPCP-203-206			Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	G07L																												
2	G08L																												
3	G09L																												
4	G12L																												
5	G12S																												
6	G14L																												
7	G15L																												
8	G15S																												
9	G16L																												
10	G50L																												
11	G50S																												
12	G51L																												
13	G51S																												
14	G52L			10/17/23	1425		2																						
15	G52S																												no sample
16	G53L			10/17/23	1517		2																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-23Q4 Rev 0		10/17/23	1651							
				Grace Jones	10/17/23	1651	16.2	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Logan Ross
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/17/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 10

Section A Required Client Information:

Company:	Vistra Corp-Duck Creek
Address:	17751 North Cilco Rd
	Canton, IL 61520
Email To:	Brian.Voelker@VistraCorp.com
Phone: (217) 753-8911	Fax:
Requested Due Date/TAT:	**10 day**

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Sam Davies: samantha.davies@vistracorp.com
	Daryl Johnson: Robert.Johnson@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Brian Voelker
Company Name:	Vistra Corp
Address:	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: IL

GW03152

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N: DC-257-203	DC-257-204	DC-257-205	DC-811-204	DC-845-201-202	DC-845-203	DC-845-205	DC-CLOSURE-201-202	DC-SUP-000	DC-WPCP-203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	BA01																									
2	BA02																									
3	BA02L																									
4	BA03	WT	G	10/17/23	1219		3																			
5	BA03L	WT	G	10/17/23	1223		3																			
6	BA04																									
7	BA05																									
8	BA06																									
9	G02D																									
10	G02L																									
11	G02S																									
12	G03L																									
13	G03S																									
14	G04L																									
15	G06L																									
16	G06S																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-23Q4 Rev 0	LR	10/17/23	1651							
					10/17/23	1451	16.2	4	N	4
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: LOGAN ROSS

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/17/2023

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-Duck Creek~~

Address: 17751 North Cilco Rd
Canton, IL 61520

Email To: Brian.Voelker@VistraCorp.com

Phone: (217) 753-8911 Fax:

Requested Due Date/TAT: 10 day

Section B Required Project Information:

Report To: Brian Voelker

Copy To: Sam Davies: samantha.davies@vistracorp.com
Daryl Johnson: Robert.Johnson@vistracorp.com

Purchase Order No.:

Project Name:

Project Number: 2285

Section C Invoice Information:

Attention: Brian Voelker

Company Name: Vistra Corp

Address: see Section A

Quote Reference:

Project Manager:

Profile #:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

GJ032197 gej

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC-257-203	DC-257-204	DC-257-205	DC-811-204	DC-845-201-202	DC-845-203	DC-845-205	DC-CLOSURE-201-202	DC-SUP-000	DC-WPCP-203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	BA01			10/18/23	1325		4																					
2	BA02			10/18/23	1434		4																					
3	BA02L																											No Sample
4	~~BA03~~ 3 10/18/23			10/18/23	945		1																					
5	~~BA03L~~ 3 Lab			10/18/23	950		1	>			Rad only					Y												
6	BA04			10/18/23	1540		4				10/18/23																	
7	BA05																											
8	~~DUP~~ BA01 Dup			10/18/23	1325		4																					
9	G02D			10/18/23 Lab																								
10	G02L																											
11	G02S																											
12	G03L																											
13	G03S																											
14	G04L																											
15	G06L																											
16	G06S																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q4 Rev 0	Joseph R Reed	10/18/23	1713	Gracie	10/18/23	1713	16.3	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed

DATE Signed (MM/DD/YY):

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 10

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: ~~Vistra Corp-Duck Creek~~	Report To: Brian Voelker	Attention: Brian Voelker
Address: 17751 North Cilco Rd	Copy To: Sam Davies: samantha.davies@vistracorp.com	Company Name: Vistra Corp
Canton, IL 61520	Daryl Johnson: Robert.Johnson@vistracorp.com	Address: see Section A
Email To: Brian.Voelker@VistraCorp.com	Purchase Order No.:	Quote Reference:
Phone: (217) 753-8911 Fax:	Project Name:	Project Manager:
Requested Due Date/TAT: 10 day	Project Number: 2285	Profile #:

REGULATORY AGENCY

NPDES | GROUND WATER | DRINKING WATER
UST | RCRA | OTHER

Site Location STATE: IL

GW03740 gw

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information — SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC-257-203	DC-257-204	DC-257-205	DC-811-204	DC-845-201-202	DC-845-203	DC-845-205	DC-CLOSURE-201-202	DC-SUP-000	DC-WPCP-203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	BA01																										
2	BA02																										
3	BA02L																										
4	BA03																										
5	BA03L																										
6	BA04																										
7	BA05	WT	G	10/19/23	1149																						
8	BA06	WT	G	10/19/23	1309																						
9	G02D																										
10	G02L																										
11	G02S	WT	G	10/19/23	1430																						
12	G03L																										
13	G03S																										
14	G04L																										
15	G06L																										
16	G06S																										

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
DC-23Q4 Rev 0	Joseph F Reid	10/19/23	1642							
					10/19/23	1642	14.9	Y	N	Y
							Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joseph F Reid

SIGNATURE of SAMPLER: Joseph F Reid

DATE Signed (MM/DD/YY): 10/19/23

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 7 of 10

Section A Required Client Information:

Company:	Vistra Corp-Duck Creek
Address:	17751 North Cilco Rd, Canton, IL 61520
Email To:	Brian.Voelker@VistraCorp.com
Phone:	(217) 753-8911 Fax:
Requested Due Date/TAT:	10 day

Section B Required Project Information:

Report To:	Brian Voelker
Copy To:	Sam Davies: samantha.davies@vistracorp.com; Daryl Johnson: Robert.Johnson@vistracorp.com
Purchase Order No.:	
Project Name:	
Project Number:	2285

Section C Invoice Information:

Attention:	Brian Voelker
Company Name:	Vistra Corp
Address:	see Section A
Quote Reference:	
Project Manager:	
Profile #:	

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER

Site Location STATE: IL

GK00649 gjf

Section D Required Client Information

Valid Matrix Codes: MATRIX / CODE — DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED DATE	COLLECTED TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	DC-257-203	DC-257-204	DC-257-205	DC-811-204	DC-845-201-202	DC-845-203	DC-845-205	DC-CLOSURE-201-202	DC-SUP-000	DC-WPCP-203-206	Residual Chlorine (Y/N)	Project No./ Lab I.D.
1	~~OR19~~ OR11	WT	G	11/3/23	1328		2	X																				
2	~~OR20~~ OR11 Dup	↓	↓	↓	1328		2	X																				
3	~~R011~~ OR20	↓	↓	↓	1211		2	X																				
4	~~R01L~~ OM16	↓	↓	↓	1100		2	X																				
5	~~R01S~~ EB-12	↓	↓	↓	1345		2	X																				
6	~~R02S~~																											
7	~~R04S~~																											
8	~~R05D~~																											
9	~~R05L~~																											
10	~~R05S~~																											
11	~~R36D~~																											
12	~~R36L~~																											
13	~~R36S~~																											
14	~~R37D~~																											
15	~~R37L~~																											
16	~~R38L~~																											

11/3/23 dab

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
DC-23Q4 Rev 0	Joseph R Reed	11/3/23	1523	[signature]	11/3/23	1523	12.2	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Joe Reed

SIGNATURE of SAMPLER: Joseph R Reed DATE Signed (MM/DD/YY): 11/3/23

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
BA01	DC-BA01	205	BAB	10/16/23	1435	16.25		BG
BA01C	DC-BA01!C	205	BAB		1439	16.07		
BA01L	DC-BA01!L	205	BAB		1437	17.15		
BA02	DC-BA02	205	BAB		1423	13.03	U:6/19/23 GKJ	
BA02L	DC-BA02!L	205	BAB		1425	\	Top of Pump	
BA03	DC-BA03	205	BAB		1324	11.06		
BA03L	DC-BA03!L	205	BAB		1320	10.85		
BA04	DC-BA04	205	BAB		1442	7.75		
BA05	DC-BA05#	205	BAB		1506	26.60		
BA06	DC-BA06	205	BAB		1500	24.70		
G02L	DC-G02!L	204	LF		1454	16.20		
G02S	DC-G02#S	204	LF		1449	14.23	Transducer N/A	
G02D	DC-G02&D	204	LF		1452	25.09	~~alternate name P02D~~	
G03L	DC-G03!L	204	LF		1503	13.72		
G03S	DC-G03#S	204	LF		1500	13.55		
G04L	DC-G04!L	204	LF		1350	15.40		
G04S	DC-G04#S	204	LF		1353	21.43		
G06L	DC-G06!L	204	LF		1105	23.03		
G06S	DC-G06#S	204	LF		1103	23.34		
G07L	DC-G07!L	204	LF		1110	21.41	Top of Pump	
G08L	DC-G08!L	204	LF		1113	21.20	Top of Pump	
G09L	DC-G09!L	204	LF		1121	21.37	Top of Pump	
G09S	DC-G09#S	204	LF	—	1118	22.33		—

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numl	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
G12L	DC-G12!L	204	LF	10/16/23	1146	24.50		BG
G12S	DC-G12#S	204	LF		1149	25.70		
G14L	DC-G14!L	204	LF		1159	26.14		
G15L	DC-G15!L	204	LF		1225	32.95	Top of Pump	
G15S	DC-G15#S	204	LF		1227	34.44		
G16L	DC-G16!L	204	LF		1230	32.45		
G50L	DC-G50!L	203	GMF		1129	17.42	Top of Pump	
G50S	DC-G50#S	203	GMF		1131	18.80		
G51L	DC-G51!L	203	GMF		1146	18.68	Top of Pump	
G51S	DC-G51#S	203	GMF		1144	19.81		
G52L	DC-G52!L	203	GMF		1148	28.30		
G52S	DC-G52#S	203	GMF		1151	32.04		
G53L	DC-G53!L	203	GMF		1119	15.81		
G53S	DC-G53#S	203	GMF		1121	18.73		
G54L	DC-G54!L	203	GMF		1158	21.89		
G54S	DC-G54#S	203	GMF		1154	28.00		
G55L	DC-G55!L	203	GMF		1209	19.62		
G55S	DC-G55#S	203	GMF		1213	19.51		
G56L	DC-G56!L	203	GMF		1014	20.10		
G56S	DC-G56#S	203	GMF		1016	20.77		
G57L	DC-G57!L	203	GMF		1018	25.02		
G57S	DC-G57#S	203	GMF		1020	24.83		
G58L	DC-G58!L	203	GMF	—	1029	28.95		—

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
G58S	DC-G58#S	203	GMF	10/16/23	1030	29.05		BG
G59L	DC-G59!L	203	GMF		1034	29.09		
G59S	DC-G59#S	203	GMF		1033	34.12		
G60L	DC-G60!L	203	GMF		1038	18.65		
G60S	DC-G60#S	203	GMF		1041	26.67		
G61S	DC-G61#S	203	GMF		1046	23.11		
G62L	DC-G62!L	203	GMF		1048	23.35		
G63L	DC-G63!L	203	GMF		1105	25.19		
G63S	DC-G63#S	203	GMF		1107	26.05		
G64L	DC-G64!L	203	GMF		1111	24.58		
G64S	DC-G64#S	203	GMF		1112	25.50		
G65L	DC-G65!L	203	GMF		0950	19.30		
G65S	DC-G65#S	203	GMF		0932	19.61		
G66L	DC-G66!L	203	GMF		0943	14.49		
G66S	DC-G66#S	203	GMF		0945	15.46		
G67L	DC-G67!L	203	GMF		1001	13.00		
G67S	DC-G67#S	203	GMF		1003	14.12		
G68L	DC-G68!L	203	GMF		0904	12.23		
G68S	DC-G68#S	203	GMF		0906	13.18		
G69L	DC-G69!L	203	GMF		0909	16.00		
G69S	DC-G69#S	203	GMF		0910	18.23		
G70L	DC-G70!L	203	GMF		0914	20.13		
G71L	DC-G71!L	203	GMF		0920	26.11		

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
G71S	DC-G71#S	203	GMF	10/16/23	0918	26.72		BG
G72L	DC-G72!L	203	GMF		0923	21.40		
G73L	DC-G73!L	203	GMF		0927	27.20		
L103	DC-L103	204	LF		1217	1.91		
OM01	DC-OM01	201-202	AP1/2		1306	13.01		
OM04S	DC-OM04#S	201-202	AP1/2		1057	21.19	OROHS	
OM05S	DC-OM05#S	201-202	AP1/2		1257	22.21		
OM07	DC-OM07	201-202	AP1/2		1245	13.11		
OM08	DC-OM08	201-202	AP1/2		1134	14.96		
OM09	DC-OM09	201-202	AP1/2		1529	4.24		
OM10	DC-OM10	201-202	AP1/2		0918	13.49		
OM12	DC-OM12	201-202	AP1/2		1148	15.89		
OM15	DC-OM15	201-202	AP1/2		0909	22.88		
OM16	DC-OM16	201-202	AP1/2		1044	26.94		
OM17	DC-OM17	201-202	AP1/2		1023	15.26		
OM21	DC-OM21	201-202	AP1/2		1059	12.66		
OM22S	DC-OM22#S	201-202	AP1/2		1333	20.53		
OM22D	DC-OM22&D	201-202	AP1/2		1335	20.08		
OM23S	DC-OM23#S	201-202	AP1/2		1403	42.47		
OM23D	DC-OM23&D	201-202	AP1/2		1407	28.95		
OM24D	DC-OM24&D	201-202	AP1/2		\	\	Not Accessible	
OM25S	DC-OM25#S	201-202	AP1/2		1436	16.20		
OM25D	DC-OM25&D	201-202	AP1/2	—	1440	58.26		—

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
OR02	DC-OR02	201-202	AP1/2	10/16/23	1254	7.81		BG
OR03S	DC-OR03#S	201-202	AP1/2		1242	45.92		
OR03D	DC-OR03&D	201-202	AP1/2		1118	45.45		
OR04D	DC-OR04&D	201-202	AP1/2		1055	23.01		
OR05D	DC-OR05&D	201-202	AP1/2		1255	22.98		
OR06A	DC-OR06!A	201-202	AP1/2		1235	15.14		
OR11	DC-OR11	201-202	AP1/2		1218	32.28		
OR13S	DC-OR13#S	201-202	AP1/2		1303	14.72		
OR13D	DC-OR13&D	201-202	AP1/2		1305	14.62		
OR14S	DC-OR14#S	201-202	AP1/2		1113	8.97		
OR14D	DC-OR14&D	201-202	AP1/2		1110	11.79		
OR18	DC-OR18	201-202	AP1/2		1012	19.65		
OR19	DC-OR19	201-202	AP1/2		1142	25.80		
OR20	DC-OR20	201-202	AP1/2		1205	22.30		
P01L	DC-P01!L	204	LF		1439	17.11		
P01S	DC-P01#S	204	LF		1437	16.73		
P01I	DC-P01$I	204	LF		1441	16.53		
P02S	DC-P02#S	204	LF		1455	18.57		
P04S	DC-P04#S	204	LF		1353	21.43		
P05L	DC-P05!L	204	LF		1318	7.13		
P05S	DC-P05#S	204	LF		1326	7.16		
P05D	DC-P05&D	204	LF		1339	7.10		
P36L	DC-P36!L	204	LF	—	1041	12.64		—

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
P36S	DC-P36#S	204	LF	10/16/23	1043	12.82		BG
P36D	DC-P36&D	204	LF		1040	13.00		
P37L	DC-P37!L	204	LF		1129	14.60	Top of Pump	
P37D	DC-P37&D	204	LF		1131	17.33		
P38L	DC-P38!L	204	LF		1212	19.48		
P38S	DC-P38#S	204	LF		1206	21.00		
P39L	DC-P39!L	204	LF		1248	10.65		

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
P36S	DC-P36#S	204	LF					
P36D	DC-P36&D	204	LF					
P37L	DC-P37!L	204	LF					
P37D	DC-P37&D	204	LF					
P38L	DC-P38!L	204	LF					
P38S	DC-P38#S	204	LF					
P39L	DC-P39!L	204	LF					
P39S	DC-P39#S	204	LF	10/18/23	1227	10.99		BG
P39D	DC-P39&D	204	LF		1225	16.57		
P40L	DC-P40!L	204	LF		1210	18.53		
P40S	DC-P40#S	204	LF		1211	17.28		
P41L	DC-P41!L	204	LF		1300	11.68		
P41S	DC-P41#S	204	LF		1302	14.00		
P41D	DC-P41&D	204	LF		1304	35.98		
P42L	DC-P42!L	204	LF		1255	10.30	Well Damaged	
P42S	DC-P42#S	204	LF		1132	10.82		
P42I1	DC-P42$I1	204	LF		1129	11.19	alternate name P42I	
P42I2	DC-P42%I2	204	LF		1127	33.79		
P42D	DC-P42&D	204	LF		1125	38.59	~~MW 52L~~ 10/18/23 BG	
P52	DC-P52	203	GMF		1353	18.02	MW 52L	
P57L	DC-P57!L	203	GMF		1103	17.77		
P57S	DC-P57#S	203	GMF		1105	17.39		
P60	DC-P60	203	GMF	—	1113	26.54		—

SAR-3: Episodic Depth to Groundwater Measurements
All DTWs on SAR-3 must be collected within 24 hours.
Plant: DC
Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Numt	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	Comments	Initials
P61	DC-P61	203	GMF	10/18/23	1121	17.06		BG
P62	DC-P62	203	GMF	"	1117	14.31		"
P63	DC-P63	203	GMF	"	1119	16.42		"
P64	DC-P64	203	GMF	"	1123	18.23		"
R10L	DC-R10!L	204	LF	10/16/23	1127	23.90		"
R11L	DC-R11!L	204	LF	10/16/23	1140	23.63		"
R13L	DC-R13!L	204	LF	10/18/23	1232	24.36		"
R61L	DC-R61!L	203	GMF	"	1323	22.21		"
R72S	DC-R72#S	203	GMF	"	1318	24.70		"
T43L	DC-T43!L	204	LF	"	1244	8.70		"
T44L	DC-T44!L	204	LF	"	1246	12.64		"
T45L	DC-T45!L	204	LF	"	1247	10.62		"
T46L	DC-T46!L	204	LF	"	1250	7.47		"
X301	DC-X301-leachate	203	GMF	"	1313	40.5		"
XTPW02	DC-XTPW02-pore	203	GMF	"	1348	6.85	Dry	"

BA02L 10/18/23-1330-11.31

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All DTWs recorded on SAR-4 must be measured immediately prior to downloading the transducer data at that location.
Plant: DC
Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
							Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L/R)		
BA01	DC-BA01	205	BAB	10/16/23	1435	16.25	21615533	Y				NOT connected	BG
BA02	DC-BA02	205	BAB		1423	13.03	21615636	Y				NOT connected	
BA02L	DC-BA02IL	205	BAB		1425	PUMP	21615682	Y	ØØ.Ø1	Y	H		
BA03	DC-BA03	205	BAB		1324	11.Ø6	21615637	Y				NOT connected	
BA03L	DC-BA03IL	205	BAB		132Ø	10.85	21615687	Y	568.37	Y	M	Below Pump	
BA04	DC-BA04	205	BAB		1442	7.75	21615631	Y				Not Connected	
BA05	DC-BA05#	205	BAB		15Ø6	26.6Ø	21615540	Y	572.7Ø	Y	M		
BA06	DC-BA06	205	BAB		15ØØ	24.7Ø	21615525	Y	571.Ø6	Y	M		
G02S	DC-G02#S	204	LF		1449	14.23	21615554	Y				NOT connected	
G50S	DC-G50#S	203	GMF		1131	18.8Ø	21615535	Y	604.91	Y	M		
G51S	DC-G51#S	203	GMF		1144	19.81	21615691	Y	599.96	Y	M		
G54L	DC-G54IL	203	GMF		1158	21 89	21615690	Y	600 98	Y	M		
G54S	DC-G54#S	203	GMF		1154	28.ØØ	21615684	Y	599.83	Y	M		
G57S	DC-G57#S	203	GMF		1Ø22	24.86	21615683	Y	597.83	Y	M		
G60L	DC-G60IL	203	GMF		1Ø38	18.65	21615678	Y	596.69	Y	M		
G60S	DC-G60#S	203	GMF		1Ø41	26.67	21615677	Y	586.02	Y	H		
G64L	DC-G64IL	203	GMF		111Ø	24. 58	21615688	Y	622.77	Y	M		
G64S	DC-G64#S	203	GMF	—	1112	25.5Ø	21615632	Y	599.02	Y	M		—

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All DTWs recorded on SAR-4 must be measured immediately prior to downloading the transducer data at that location.
Plant: DC
Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
							Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L/R)		
OM01	DC-OM01	201-202	AP1/2	10/16/23	1306	13.01	21615685	Y	582.15	Y	M		BG
OM04S	DC-OM04#S	201-202	AP1/2		1057	21.19	21615542	Y	586.09	Y	H		
OM07	DC-OM07	201-202	AP1/2		1245	13.11	21615541	Y		Y			
OM12	DC-OM12	201-202	AP1/2		1148	15.89	21615527	Y	577.30	Y	H		
OM16	DC-OM16	201-202	AP1/2		1044	26.94	21615539	Y	\	\	\	Not Connected	
OM17	DC-OM17	201-202	AP1/2		1023	15.26	21615693	Y	\	\	\	Not Connected	
OM21	DC-OM21	201-202	AP1/2		1059	12.66	21615593	Y	9.42	Y	H		
OM22D	DC-OM22&D	201-202	AP1/2		13.35	20.08	21615592	Y	578.88	Y	M		
OM23D	DC-OM23&D	201-202	AP1/2		1407	38.95	21615591	Y	\	\	\	Not Connected	
OM24D	DC-OM24&D	201-202	AP1/2	\	\	\	21615522	\	\	\	\	Inaccessible	
OM25S	DC-OM25#S	201-202	AP1/2		1436	58.20	21615681	Y	\	\	\	Not Connected	
OR02	DC-OR02	201-202	AP1/2		1254	7.81	21615679	Y	543.42	Y	M		
OR03D	DC-OR03&D	201-202	AP1/2		1244	45.45	21615577	Y	582.75	Y	M		
OR04D	DC-OR04&D	201-202	AP1/2		1055	21.87	21615570	Y	585.76	Y	H		
OR06A	DC-OR06!A	201-202	AP1/2		1235	15.14	21615692	Y	\	\	\	Not Connected	
OR11	DC-OR11	201-202	AP1/2		1218	32.28	21615686	Y	564.14	Y	M		
OR13S	DC-OR13#S	201-202	AP1/2		1203	14.72	21615676	Y	\	\	\	Not Connected	
OR13D	DC-OR13&D	201-202	AP1/2	—	1305	14.62	21564135	\	\	\	\	Wasps	—

SAR-4: Depth to Groundwater Measurements - On-site Transducer Downloads
All DTWs recorded on SAR-4 must be measured immediately prior to downloading the transducer data at that location.
Plant: DC
Event: DC-23Q4 Rev 1

Well	Unique ID	Unit Number	Unit Name	Date	Time	Measured Depth to Water (ft bmp)	On-site Transducer Data					Comments	Initials
							Data Logger Serial No.	Does Data Logger Serial No. Match?	WL Reading on Transducer (ft)	Data down-loaded?	Batt (H/M/L/R)		
OR14D	DC-OR14&D	201-202	AP1/2	10/16/23	1110	11.79	21615611	Y	587.01	Y	H		DG
OR19	DC-OR19	201-202	AP1/2	"	1142	25.80	21615634	Y	571.88	Y	M		"
OR20	DC-OR20	201-202	AP1/2	"	1205	22.30	21615610	Y	565.16	Y	M		"

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

Duck Creek

WELL/SAMPLE POINT BA01 **Purge Method:** Bladder

Date: 10/18/23 Start Time: 1140 Finish/Sample Time: 1325

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

Depth to Water From MP: 16.25 ft Total Purge Volume: 1.8 Gal / L / mL

Water Column Length: — ft

Well Water Volume: — Gal / L Total Drawdown: 0.06 ft

Reading	Time	Depth	Flow Rate	pH	Spec Cond	Temp	ORP	DO	Turb
(Units)		ft.	mL/min	s.u.	umhos/cm	deg C	mV	mg/L	NTU
1	1200	16.31	100	6.51	1010	14.45	-1	1.25	3.0
2	1201	16.31	100	6.51	1018	14.43	-2	1.06	3.2
3	1202	16.31	100	6.51	1020	14.42	-3	.92	3.2
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
2	General (P,500mL)
	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - mg/L

Final DTW: 16.31 ft

Comments Duplicate filled here

Sampler's Signature: Joseph R Reel

Duck Creek

WELL/SAMPLE POINT BA02 **Purge Method:** Bladder

Date: 10/18/23 Start Time: 1330 Finish/Sample Time: 1434

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

Depth to Water From MP: 12.82 ft Total Purge Volume: 1 Gal / L / mL

Water Column Length: — ft

Well Water Volume: — Gal / L Total Drawdown: 3.08 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	1345	14.00	100	6.73	937	16.90	-40	7.20	13.6
2	1346	14.31	100	6.72	937	16.90	-40	7.11	14.3
3	1347	14.50	100	6.71	940	16.90	-41	6.89	11.1
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: X None ☐ Slight ☐ Mod. ☐ Strong

Color X None ☐ Slight ☐ Mod. ☐ Strong

Turb: X None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P,500mL)
	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - mg/L

Final DTW: 15.90 ft

Comments

Sampler's Signature: [signature]

Duck Creek

WELL/SAMPLE POINT BA02L **Purge Method:** Bladder

Date: 10/18/23 Start Time: 1329 Finish/Sample Time: 1329

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

Depth to Water From MP: Dry ft 11.31 - top of pump Total Purge Volume: — Gal / L / mL

Water Column Length: — 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	X	
Casing locked/secure	X	
Well cap fits securely.	X	
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

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

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
	General (P,500mL)
	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - mg/L

Final DTW: — ft

Comments Transducer - 21615682 data taken

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT BA03 **Purge Method:** Bladder

Date: 10/17/23 ~~10/18/23~~ 10/18/23 Start Time: 1124 Finish/Sample Time: 1219

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

Depth to Water From MP: 11.05 ft Total Purge Volume: 10/17 ~~1000~~ 1300 Gal / L / mL

Water Column Length: NA ft

Well Water Volume: NA Gal / L Total Drawdown: .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	1150	11.35	100	6.55	818	18.08	92	0.12	~~4~~ 1.9
2	1151	11.34	100	6.52	814	17.93	90	0.02	1.6
3	1152	11.39	100	6.49	813	17.87	88	0.0	0.8
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	± 10% or 0.2	NA

Field Meter: HORIBA

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 500mL, H2SO4)
10/17 1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
10/17 1	General (P, ~~500 mL)~~ 1000 mL
	Ammonia (P, 250mL, H2SO4)
10/18 1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	**Bottles**
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2SO4)
10/17 1	General (P,500mL)
	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - mg/L

Time 945 [signature] 10/18

Final DTW: 11.45 ft

Comments Rad bottle filled 10/18/23 @ 0945

Sampler's Signature: [signature]

Duck Creek

WELL/SAMPLE POINT: BA03L (*) 10/18/23 0950 Purge Method: Bladder

Date: 10/17/23 + 10/18/23 Start Time: 1124 Finish/Sample Time: 1223

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

Depth to Water From MP: ~~Topof Pump~~ = 9.46 ft Total Purge Volume: 1.3 Gal / L / mL

Water Column Length: NA ft

Well Water Volume: NA Gal / L Total Drawdown: NA 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	1158	pump	100	6.38	1300	18.28	114	0.80	216
2	1159	pump	100	6.37	1330	18.29	112	0.79	173
3	1200	pump	100	6.36	1350	18.28	111	0.59	173
4									
5									
Stabilization	NA	NA	NA	±0.2	±3%	±0.2	±20	±10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☐ None ☒ Slight ☐ Mod. ☐ Strong

Turb: ☐ None ☒ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

Unfiltered		
	Qty	Bottles
		VOAs (C,V, 40mL, HCL)
		VOAS (C,V, 40mL)
		Organics (A,G,U 1000mL)
		Organics (A,G,U 500mL)
		TOC (A,V 40mL, H2SO4)
		TOX (A,G 500mL, H2SO4)
10/17	1	Metals (P,250mL, HNO3)
		Cyanide (P, 250mL, NaOH)
		Phenols (A,G,250mL, H2SO4)
10/17	1	General (P, 500 mL)
		Ammonia (P, 250mL, H2SO4)
10/18	1	Rad (P, 2.5L, HNO3)

Filtered		
	Qty	Bottles
		Metals (P,250mL, HNO3)
		Ammonia (P,250mL, H2S04)
10/17	1	General (P,500mL)
		TOC (A,V, 40mL, H2SO4)

Ferrous Iron - mg/L

Time 950 Joseph R Reed 10/18

Final DTW: (*) BELOW PUMP ft

Comments: Transducer 2161587 data taken - Rad bottle filled 10/18/23@0950

Sampler's Signature: Joseph R Reed

BG

Duck Creek

WELL/SAMPLE POINT BA04 **Purge Method:** Bladder

Date: 10/18/23 Start Time: 1439 Finish/Sample Time: 1540

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

Depth to Water From MP: 7.69 ft Total Purge Volume: 1.8 Gal / L / mL

Water Column Length: ~ ft

Well Water Volume: ~ Gal / L Total Drawdown: 0.11 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	1454	7.72	100	7.06	1130	17.69	50	3.98	3.9
2	1455	7.73	100	7.03	1130	17.65	45	3.80	3.3
3	1456	7.73	100	7.00	1130	17.61	44	3.62	2.5
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

Sample Appearance:

Odor: ☒ None ☐ Slight ☐ Mod. ☐ Strong

Color ☒ None ☐ Slight ☐ Mod. ☐ Strong

Turb: ☒ None ☐ Slight ☐ Mod ☐ Strong

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

BOTTLE INFORMATION:

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

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P,500mL)
	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - mg/L

Final DTW: 7.80 ft

Comments

Sampler's Signature: Joseph R Reed

Duck Creek

WELL/SAMPLE POINT BA05 **Purge Method:** Bladder

Date: 10/19/23 Start Time: 1030 Finish/Sample Time: 1140

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

Depth to Water From MP: 22.61 ft Total Purge Volume: 1.8 Gal / L / mL

Water Column Length: — ft

Well Water Volume: — Gal / L Total Drawdown: 3.50 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	1057	100	25.04	6.85	1730	13.15	-63	0.71	5.1
2	1058	100	25.23	6.83	1730	13.12	-63	0.71	5.4
3	1059	100	25.41	6.82	1730	13.12	-63	0.69	5.8
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	X	
Casing locked/secure	X	
Well cap fits securely.	X	X JR
Good seal/drainage	X	
Well has weep holes	X	

BOTTLE INFORMATION:

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

Filtered	
Qty	Bottles
	Metals (P,250mL, HNO3)
	Ammonia (P,250mL, H2S04)
1	General (P,500mL)
	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - mg/L

Final DTW: 26.11 ft

Comments Transducer data collected -21615540

Sampler's Signature: Joseph Reed

Duck Creek

WELL/SAMPLE POINT BA06 **Purge Method:** Bladder

Date: 10/19/23 Start Time: 1143 Finish/Sample Time: 1309

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

Depth to Water From MP: 24.76 ft Total Purge Volume: 1.8 Gal / mL

Water Column Length: JR 24.96 ft ~~24.76~~

Well Water Volume: 10/19/23 — Gal / L Total Drawdown: 5.42 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	1208	2710	100	6.59	3200	13.29	-37	0.0	2.9
2	1209	2721	100	6.57	3180	13.30	-37	0.0	3.4
3	1210	2731	100	6.57	3170	13.30	-38	0.0	3.3
4									
5									
Stabilization	NA	NA	NA	± 0.2	± 3%	± 0.2	± 20	± 10% or 0.2	NA

Field Meter: Horiba

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

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)
3	TOC (A,V 40mL, H2SO4)
	TOX (A,G 500mL, H2SO4)
1	Metals (P,250mL, HNO3)
	Cyanide (P, 250mL, NaOH)
	Phenols (A,G,250mL, H2SO4)
1	General (P, ~~500~~ mL) 1000mL
	Ammonia (P, 250mL, H2SO4)
1	Rad (P, 2.5L, HNO3)

Filtered	
Qty	Bottles
1	Metals (P,250mL, HNO3)
1	Ammonia (P,250mL, H2S04)
1	General (P, ~~500~~mL) 1000mL
3	TOC (A,V, 40mL, H2SO4)

Ferrous Iron - Over Range mg/L

Final DTW: 30.18 ft

Comments

Sampler's Signature: Joseph R Reel

Multiparameter Meter Field Calibration Checklist

Field Personnel:	LR JR	Location:	DUCK CREEK
Weather:	44°-66° SUNNY, NW 1mph	Environment:	GRASS, TREE, BUSHES, GRAVEL
Multiparameter Water Meter	Make: HORIBA	Model: U-5000	Serial Number: PW 26YJD3
Water Level Meter	Make: Heron	Model: Dipper-T	Serial Number: 3717-T

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.91	s.u.	±0.1 s.u.	P	NA	NA	MSI	023067-01	3/14/2025
pH 7.00a	6.98	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	9.91	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC Zero (DI)	0	µS/cm	0<25 µS/cm	P			Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1750	µS/cm	±5%	P			Geotech	3GF1197	Jun-24
ORP	242	mV	±15 mV	P			InSitu	3GD927	Jan-24
DO (Zero pt)	0	mg/L	±0.1	P			Macron	#000228049	8/26/2025
DO (Saturated)	98.7	%	97-100%	P			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) Time: 0950

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	NA	Geotech	3GB1049	Feb-25
pH 7.00b	7.02	s.u.	±0.15 s.u.	P	NA	Geotech	2GF113	Jun-24
pH 10.00b	9.87	s.u.	±0.15 s.u.	P	NA	Geotech	3GA1134	Jan-25
SC 1000	1000	µS/cm	±5%	P	NA	Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 1542

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.98	s.u.	±0.1 s.u.	P	NA	—	MSI	023067-01	3/14/2025
pH 7.00a	6.97	s.u.	±0.1 s.u.	P	NA	—	MSI	023051-02	2/21/2025
pH 10.00a	10.01	s.u.	±0.1 s.u.	P	NA	—	MSI	022361-01	12/27/2024
SC 1000	990	µS/cm	±5%	P	NA	—	Ricca	4209A12	Aug-24
DO (Zero pt)	0	mg/L	±0.1 mg/L	P	NA	—	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	NA	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [signature] Date: 10/17/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed	Location:	Vistra Duck Creek
Weather:	50-70°F partcloudy wind 9-11 mph	Environment:	grassy
Multiparameter Water Meter	Make: Horiba	Model: U5000	Serial Number: PW2GYJD3
Water Level Meter	Make: Heron	Model: Series 1900	Serial Number: 19FF2111192HB

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	N		MSI	023067-01	3/14/2025
pH 7.00a	7.01	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	10.00	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC Zero (DI)	0.30	µS/cm	0<25 µS/cm	P			Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%	P			Geotech	3GA1071	Jan-24
ORP	240	mV	±15 mV	P			InSitu	3GD927	Jan-24
DO (Zero pt)	0.03	mg/L	±0.1	P			Macron	#000228049	8/26/2025
DO (Saturated)	99.0	%	97-100%	P			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) Time: 940

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.04	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	May-24
pH 7.00b	7.00	s.u.	±0.15 s.u.	P		Geotech	2GF113	Jun-24
pH 10.00b	9.99	s.u.	±0.15 s.u.	P		Geotech	2GE820	May-24
SC 1000	998.1	µS/cm	±5%	P		Ricca	4209A12	Aug-23 24

Approx. every 4 hrs, unless only one well

BG 10/30/23

CCV (Continued Calibration Verification): Time: 1550

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	7.05	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	10.02	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC 1000	1010	µS/cm	±5%	P			Ricca	4209A12	Aug-23 24
DO (Zero pt)	0.05	mg/L	±0.1 mg/L	P			Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P			Pace Labs	N/A (DI)	N/A (DI)

BG 10/30/23

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-23
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: Joseph R Reed Date: 10/18/23

BG

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed	Location:	Duck Creek Power - Vistra
Weather:	Rain 55-60°F wind 9-13 mph	Environment:	Grassy
Multiparameter Water Meter	Make: Horiba	Model: U5020	Serial Number: PW2GWJD3
Water Level Meter	Make: Heron	Model: Series 110 L	Serial Number: 11FF2209305ML

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	7.02	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.00	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020	µS/cm	±5%				Geotech	3GA1071	Jan-24
ORP	240	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.0	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.3	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 930			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.96	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	May-24
pH 7.00b	6.99	s.u.	±0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	9.99	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	995.8	µS/cm	±5%			Ricca	4209A12	~~Aug 23~~ Aug 24

Approx. every 4 hrs, unless only one well

BG 10/30/23

CCV (Continued Calibration Verification):					Time: 1320				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	7.02	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	1000	µS/cm	±5%				Ricca	4209A12	~~Aug 23~~ Aug 24
DO (Zero pt)	0.0	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

BG 10/30/23

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	~~Aug 23~~ Aug 24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

BG 10/30/23

Comments:

Signature:	Joseph R Reed	Date:	10/19/23

BG

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Logan Ross	Location:	DUCK CREEK
Weather:	Sunny 47°-68° 10mph NW	Environment:	GRASS, WOODLAND GRAVEL

Multiparameter Water Meter	Make: HORIBA	Model: U-5000	Serial Number:	PW2G4JD3	
Water Level Meter	Make: Heron	Model: Dipper-T	Serial Number:	19FF211192MB	

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	±0.1 s.u.	P	NA	NA	MSI	023067-01	3/14/2025
pH 7.00a	7.06	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	9.98	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC Zero (DI)	0	µS/cm	0<25 µS/cm	P			Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2018	µS/cm	±5%	P			Geotech	3GF1197	Jun-24
ORP	247	mV	±15 mV	P			InSitu	3GD927	Jan-24
DO (Zero pt)	0	mg/L	±0.1	P			Macron	#000228049	8/26/2025
DO (Saturated)	96	%	97-100%	P			Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0	NTU	<2 NTU	P	NA	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 0950			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.08	s.u.	±0.15 s.u.	P	NA	Geotech	3GB1049	Feb-25
pH 7.00b	7.14	s.u.	±0.15 s.u.	P	NA	Geotech	2GF113	Jun-24
pH 10.00b	9.17	s.u.	±0.15 s.u.	F	CAL 10.00	Geotech	3GA1134	Jan-25
SC 1000	960	µS/cm	±5%	P	NA	Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1447				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.09	s.u.	±0.1 s.u.	P	NA	NA	MSI	023067-01	3/14/2025
pH 7.00a	6.92	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	9.86	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC 1000	1040	µS/cm	±5%	P			Ricca	4209A12	Aug-24
DO (Zero pt)	0.0	mg/L	±0.1 mg/L	P			Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	ND	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	10-20-23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Duck Creek
Weather:	57° - 64°F, windy NW at 12mph	Environment:	grass, dirt
Multiparameter Water Meter	Make: AT	Model: 600	Serial Number: 762215
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: 3717-T

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.15	s.u.	±0.1 s.u.	F	Yes	4.00	MSI	023067-01	3/14/2025
pH 7.00a	7.08	s.u.	±0.1 s.u.	P	Yes	7.00	MSI	023051-02	2/21/2025
pH 10.00a	10.36	s.u.	±0.1 s.u.	P	Yes	10.00	MSI	022361-01	12/27/2024
SC Zero (DI)	1.42	µS/cm	0<25 µS/cm	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1979.7	µS/cm	±5%	P	NO	-	Geotech	3GF1197	Jun-24
ORP	245.8	mV	±15 mV	P	NO	-	InSitu	3GD927	Jan-24
DO (Zero pt)	0.10	mg/L	±0.1	P	NO	-	Macron	#000228049	8/26/2025
DO (Saturated)	97.72	%	97-100%	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

245 @ 12°C

ICV (Initial Calibration Verification) Time: 0941

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	-	Geotech	3GB1049	Feb-25
pH 7.00b	6.92	s.u.	±0.15 s.u.	P	-	Geotech	2GF113	Jun-24
pH 10.00b	10.08	s.u.	±0.15 s.u.	P	-	Geotech	3GA1134	Jan-25
SC 1000	1006.1	µS/cm	±5%	P	-	Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 1445

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	NO	-	MSI	023067-01	3/14/2025
pH 7.00a	7.03	s.u.	±0.1 s.u.	P	NO	-	MSI	023051-02	2/21/2025
pH 10.00a	10.08	s.u.	±0.1 s.u.	P	NO	-	MSI	022361-01	12/27/2024
SC 1000	987.36	µS/cm	±5%	P	NO	-	Ricca	4209A12	Aug-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L	P	NO	-	Macron	#000228049	8/26/2025
Turbidity (DI)	0.08	NTU	<2 NTU	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [signature] Date: 10/20/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Duckcreek
Weather:	52°-75°F, Sunny, Wind SE 12mph	Environment:	grass, woods, farm field
Multiparameter Water Meter	Make: AT	Model: 600	Serial Number: 762215
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: 3717-T

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	NO	NA	MSI	023067-01	3/14/2025
pH 7.00a	7.03	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.07	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	11.81	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020.1	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	242.8	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.13	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

242 @ 15°

ICV (Initial Calibration Verification)					Time: 0915			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.03	s.u.	±0.15 s.u.	P	NA	Geotech	3GB1049	Feb-25
pH 7.00b	6.91	s.u.	±0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	10.03	s.u.	±0.15 s.u.			Geotech	3GA1134	Jan-25
SC 1000	1006.6	µS/cm	±5%			Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1600				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	NA	NA	MSI	023067-01	3/14/2025
pH 7.00a	7.05	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.09	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	998.34	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [signature] Date: 10/23/2023

BG

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Logan Ross	Location:	DUCK CREEK
Weather:	Sunny 59-74° 13 MPH S	Environment:	GRASS WOODS, GRAVEL
Multiparameter Water Meter	Make: HORIBA	Model: U-5000	Serial Number: PW2GYJD3
Water Level Meter	Make: HERON	Model: 1900	Serial Number: 19FF2202[illegible]

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.98	s.u.	±0.1 s.u.	P	NO	-	MSI	023067-01	3/14/2025
pH 7.00a	6.79	s.u.	±0.1 s.u.	P	6.98	Y	MSI	023051-02	2/21/2025
pH 10.00a	9.90	s.u.	±0.1 s.u.	P	NO	-	MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1970	µS/cm	±5%	P	NO	-	Geotech	3GF1197	Jun-24
ORP	241	mV	±15 mV	P	NO	-	InSitu	3GD927	Jan-24
DO (Zero pt)	0.0	mg/L	±0.1	P	NO	-	Macron	#000228049	8/26/2025
DO (Saturated)	100	%	97-100%	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	NO	-	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 0850			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.93	s.u.	±0.15 s.u.	P	-	Geotech	3GB1049	Feb-25
pH 7.00b	7.07	s.u.	±0.15 s.u.	P	-	Geotech	2GF113	Jun-24
pH 10.00b	10.15	s.u.	±0.15 s.u.	P	-	Geotech	3GA1134	Jan-25
SC 1000	997	µS/cm	±5%	P	-	Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1616				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	6.92	s.u.	±0.1 s.u.	P			MSI	023051-02	2/21/2025
pH 10.00a	9.93	s.u.	±0.1 s.u.	P			MSI	022361-01	12/27/2024
SC 1000	10.10	µS/cm	±5%	P			Ricca	4209A12	Aug-24
DO (Zero pt)	0.0	mg/L	±0.1 mg/L	P			Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	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	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Logan Ross	Date:	10/23/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Remberger	Location:	Duck creek
Weather:	67°-77°F mostly sunny Wind SW 12mph	Environment:	Woods, grass, dirt, gravel
Multiparameter Water Meter	Make: Horiba	Model: U5000	Serial Number: PV26YJ03
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: ~~PV26YJ03~~ 3717-T AP 10/24/23

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.99	s.u.	±0.1 s.u.	P	No	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.04	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.06	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	237	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.1	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.5	NTU	<2 NTU		—		Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

238 @ 18°C

ICV (Initial Calibration Verification)					Time: 0915			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	N/A	Geotech	3GB1049	Feb-25
pH 7.00b	6.89	s.u.	±0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	10.09	s.u.	±0.15 s.u.			Geotech	3GA1134	Jan-25
SC 1000	1010	µS/cm	±5%			Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1513				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.05	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.09	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	1030	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	10/24/2023

BG

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Remberton	Location:	Duck creek
Weather:	62°-72° F Cloudy Rain Wind SW 5mph	Environment:	Woods, grass, gravel, dirt
Multiparameter Water Meter	Make: Horiba	Model: U5000	Serial Number: PV26YJD3
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: 3717-T

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.02	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.00	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.07	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2010	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	231	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.7	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

238 @ 18°C

ICV (Initial Calibration Verification)					Time: 0915			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	N/A	Geotech	3GB1049	Feb-25
pH 7.00b	6.89	s.u.	±0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	10.13	s.u.	±0.15 s.u.			Geotech	3GA1134	Jan-25
SC 1000	1000	µS/cm	±5%			Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1545				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.04	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.08	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	1030	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [signature] Date: 10/25/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Duck creek
Weather:	60°- 70°F cloudy, rain wind S 10mph	Environment:	woods, mud, grass
Multiparameter Water Meter	Make: Hach	Model: HQ40d	Serial Number: WU683C86
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number: 3717-7

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.07	s.u.	±0.1 s.u.	P	NO	NA	MSI	023067-01	3/14/2025
pH 7.00a	6.97	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	9.96	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2030	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	234	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.2	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

231 @ 19°C

ICV (Initial Calibration Verification)					Time: 0915			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.03	s.u.	±0.15 s.u.	P	NA	Geotech	3GB1049	Feb-25
pH 7.00b	6.87	s.u.	±0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	9.92	s.u.	±0.15 s.u.			Geotech	3GA1134	Jan-25
SC 1000	1010	µS/cm	±5%			Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1517				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.04	s.u.	±0.1 s.u.	P	NO	NA	MSI	023067-01	3/14/2025
pH 7.00a	7.03	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.04	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	1030	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [signature] Date: 10/26/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Logan Ross	Location:	DUCK CREEK
Weather:	70°-64° CLOUDY/RAIN 9mphS	Environment:	Grass, WOODLAND, GRAVEL
Multiparameter Water Meter	Make: HORIBA	Model: U-5000	Serial Number: PW2GYJD3
Water Level Meter	Make: HERRON	Model: dipper-T	Serial Number: 11FF2209305ML

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	±0.1 s.u.	P	—	—	MSI	023D67-01	3/14/2025
pH 7.00a	6.93	s.u.	±0.1 s.u.	P	—	—	MSI	023051-02	2/21/2025
pH 10.00a	9.53	s.u.	±0.1 s.u.	F	Y	9.99	MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm	P	—	—	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1999	µS/cm	±5%	P	—	—	Geotech	3GF1197	Jun-24
ORP	236	mV	±15 mV	P	—	—	InSitu	3GD927	Jan-24
DO (Zero pt)	.23	mg/L	±0.1	F	Y	0.0	Macron	#000228049	8/26/2025
DO (Saturated)	98	%	97-100%	P	—	—	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	1.2	NTU	<2 NTU	P	—	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 0908

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.02	s.u.	±0.15 s.u.	P	NA	Geotech	3GB1049	Feb-25
pH 7.00b	6.91	s.u.	±0.15 s.u.	P	NA	Geotech	2GF113	Jun-24
pH 10.00b	10.01	s.u.	±0.15 s.u.	P	NA	Geotech	3GA1134	Jan-25
SC 1000	1050	µS/cm	±5%	P	NA	Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.04	s.u.	±0.1 s.u.	P	—	NA	MSI	023067-01	3/14/2025
pH 7.00a	6.92	s.u.	±0.1 s.u.	P	—	NA	MSI	023051-02	2/21/2025
pH 10.00a	9.99	s.u.	±0.1 s.u.	P	—	NA	MSI	022361-01	12/27/2024
SC 1000	1030	µS/cm	±5%	P	—	NA	Ricca	4209A12	Aug-24
DO (Zero pt)	0.0	mg/L	±0.1 mg/L	P	—	NA	Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU	P	—	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [signature] Date: 10/26/23

Logan Ross

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Brendan Glennon	Location:	Duck Creek PS
Weather:	65° Cloudy 9 Mph NNE	Environment:	Grass Field
Multiparameter Water Meter	Make: Horiba	Model: U-5000	Serial Number: WUG83C85
Water Level Meter	Make: Heron	Model: Dipper-T	Serial Number: 11F2209305ML

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.01	s.u.	±0.1 s.u.	P	N	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.98	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.94	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC Zero (DI)	8	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2040	µS/cm	±5%				Geotech	3GA1071	Jan-24
ORP	233	mV	±15 mV				InSitu	2G4762	Jun-23
DO (Zero pt)	.08	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	100	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 1030			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.04	s.u.	±0.15 s.u.	P	N	Geotech	2GE870	Mar-24
pH 7.00b	7.06	s.u.	±0.15 s.u.			Geotech	2GC931	Mar-24
pH 10.00b	10.04	s.u.	±0.15 s.u.			Geotech	2GE820	May-24
SC 1000	1030	µS/cm	±5%			Ricca	4207N97	Jul-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1423			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	N	N/A	MSI	L344-09	12/14/2023
pH 7.00a	6.99	s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
pH 10.00a	9.98	s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000	1020	µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)	.01	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:			
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	L344-09	12/14/2023
7.00a		s.u.	±0.1 s.u.				MSI	L343-07	12/9/2023
10.00a		s.u.	±0.1 s.u.				MSI	M082-04	3/25/2024
SC 1000		µS/cm	±5%				Ricca	4207N97	Jul-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Brendan Glennon	Date:	10/26/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Duck creek
Weather:	68°-71° F cloudy Wind SW 11 mph	Environment:	grass, mud

Multiparameter Water Meter	Make: Horiba	Model: U5000	Serial Number:	WUG63L85	
Water Level Meter	Make: Heron	Model: Dipper T	Serial Number:	3717-T	

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	6.92	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2010	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	231	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.04	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.7	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

236 @ 20°C

ICV (Initial Calibration Verification) Time: 0930

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.01	s.u.	±0.15 s.u.	P	NO	Geotech	3GB1049	Feb-25
pH 7.00b	6.85	s.u.	±0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	10.04	s.u.	±0.15 s.u.			Geotech	3GA1134	Jan-25
SC 1000	1000	µS/cm	±5%			Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 1530

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.04	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.08	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.04	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	1030	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)	0.09	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	10/27/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Logan Ross	Location:	DUCK CREEK
Weather:	36-69 CLOUDY/RAIN 8mph S	Environment:	GRASSLAND, WOODLAND
Multiparameter Water Meter	Make: HORIBA	Model: U-5000	Serial Number: MV264JD3
Water Level Meter	Make: Herron	Model: Dipper-T	Serial Number: 11EF709305ML

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.10	s.u.	±0.1 s.u.	P	N	NA	MSI	023067-01	3/14/2025
pH 7.00a	6.98	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.07	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	.002	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2080	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	238	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	.04	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.9	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU	P	N	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification) — Time: 0918

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.09	s.u.	±0.15 s.u.	P	NA	Geotech	3GB1049	Feb-25
pH 7.00b	7.00	s.u.	±0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	10.13	s.u.	±0.15 s.u.			Geotech	3GA1134	Jan-25
SC 1000	979	µS/cm	±5%	P	NA	Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time: 1523

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.08	s.u.	±0.1 s.u.	P	N	NA	MSI	023067-01	3/14/2025
pH 7.00a	7.02	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	9.98	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	1010	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)	0.0	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	1.7	NTU	<2 NTU	P	N	NA	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): — Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [signature] Date: 10/27/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed	Location:	Duck Creek Power
Weather:	cloudy/rain	Environment:	wet grassy
Multiparameter Water Meter	Make: Horiba	Model: U5000	Serial Number: Y29KJ9HA
Water Level Meter	Make: Heron	Model: series 1900	Serial Number: 19F-211192#B

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	N		MSI	023067-01	3/14/2025
pH 7.00a	7.00	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.02	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	243	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.01	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.0	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 1020			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	3.97	s.u.	±0.15 s.u.	P	N	Geotech	3GB1049	Feb-25
pH 7.00b	6.98	s.u.	±0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	10.00	s.u.	±0.15 s.u.			Geotech	3GA1134	Jan-25
SC 1000	1010	µS/cm	±5%			Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1530			
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	N		MSI	023067-01	3/14/2025
pH 7.00a	6.99	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	9.99	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	1010	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)	0.01	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: Joseph A Reed Date: 10/27/23

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Remberton	Location:	Duck creek
Weather:	35°-40° sunny winds NW 11mph	Environment:	grass, mud, gravel
Multiparameter Water Meter	Make: AT	Model: 600	Serial Number: 606127
Water Level Meter	Make: Heron	Model: Dipper	Serial Number: 3117-T

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.11	s.u.	±0.1 s.u.	P	Yes	4.00	MSI	023067-01	3/14/2025
pH 7.00a	7.09	s.u.	±0.1 s.u.	P	Yes	7.02	MSI	023051-02	2/21/2025
pH 10.00a	10.41	s.u.	±0.1 s.u.	P	Yes	10.04	MSI	022361-01	12/27/2024
SC Zero (DI)	12.0	µS/cm	0<25 µS/cm	P	No	—	Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2000	µS/cm	±5%	P	No	—	Geotech	3GF1197	Jun-24
ORP	235.7	mV	±15 mV	P	No	—	InSitu	3GD927	Jan-24
DO (Zero pt)	0.09	mg/L	±0.1	P	No	—	Macron	#000228049	8/26/2025
DO (Saturated)	98.15	%	97-100%	P	No	—	Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.00	NTU	<2 NTU	P	No	—	Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

235 @ 20 °C

ICV (Initial Calibration Verification) Time: 1000

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.02	s.u.	±0.15 s.u.	P	NA	Geotech	3GB1049	Feb-25
pH 7.00b	6.86	s.u.	±0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	9.93	s.u.	±0.15 s.u.			Geotech	3GA1134	Jan-25
SC 1000	1018	µS/cm	±5%			Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 1500

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.05	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.02	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.08	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	1012	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)	0.00	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.00	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature: [signature] Date: 10/30/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Logan R	Location:	DUCK CREEK
Weather:	Sunny 26°-41° 11mph NW	Environment:	GRASSLAND, WOODLAND
Multiparameter Water Meter	Make: HORIBA	Model: U-5000	Serial Number: PW2G4JD3
Water Level Meter	Make: HERRON	Model: dipper-T	Serial Number: 11F1F220930SML 19FE2111192HB

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.09	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	6.93	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	9.99	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.000	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	1970	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	239	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	.00	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	97.6	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

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	4.11	s.u.	±0.15 s.u.	P	N/A	Geotech	3GB1049	Feb-25
pH 7.00b	7.02	s.u.	±0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	10.07	s.u.	±0.15 s.u.			Geotech	3GA1134	Jan-25
SC 1000	967	µS/cm	±5%			Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1516				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	3.99	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	9.96	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	1020	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)	0.00	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:		Date:	10/30/23

BG

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Aaron Pemberton	Location:	Duck creek
Weather:	32°-40 °F Sunny Wind NW 15mph	Environment:	grass, mud

Multiparameter Water Meter	Make:	Horiba	Model:	U 5000	Serial Number:	GUS 83C85
Water Level Meter	Make:	Heron	Model:	Dipper T	Serial Number:	3717-T

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.04	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.03	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.07	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.0	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	230	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.09	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	98.9	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

237 @ 1012

ICV (Initial Calibration Verification) Time: 0910

Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	N/A	Geotech	3GB1049	Feb-25
pH 7.00b	6.88	s.u.	±0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	10.10	s.u.	±0.15 s.u.			Geotech	3GA1134	Jan-25
SC 1000	1030	µS/cm	±5%			Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time: 1420

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.04	s.u.	±0.1 s.u.	P	NO	N/A	MSI	023067-01	3/14/2025
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.03	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	987	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)	0.04	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification): Time:

Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	[signature]	Date:	10/31/2023

Multiparameter Meter Field Calibration Checklist

Field Personnel:	Joe Reed	Location:	Duck Creek
Weather:	40s 60°F Partly cloudy	Environment:	Grassy

Multiparameter Water Meter	Make: Horiba	Model: U5000	Serial Number:	YL9KJ9HA	
Water Level Meter	Make: Heron	Model: Series 1900	Serial Number:	19FF211192HB	

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	N		MSI	023067-01	3/14/2025
pH 7.00a	7.02	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC Zero (DI)	0.214	µS/cm	0<25 µS/cm				Pace Labs	N/A (DI)	N/A (DI)
SC 2000	2020	µS/cm	±5%				Geotech	3GF1197	Jun-24
ORP	241	mV	±15 mV				InSitu	3GD927	Jan-24
DO (Zero pt)	0.01	mg/L	±0.1				Macron	#000228049	8/26/2025
DO (Saturated)	99.1	%	97-100%				Pace Labs	N/A (DI)	N/A (DI)
Turbidity (DI)	0.1	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Approx. every 4 hrs, unless only one well

ICV (Initial Calibration Verification)					Time: 945			
Buffer	Check Value	Units	Range	Pass/Fail	Action Taken?	Manufacturer	Lot#	Exp.
pH 4.00b	4.00	s.u.	±0.15 s.u.	P	N	Geotech	3GB1049	Feb-25
pH 7.00b	6.94	s.u.	±0.15 s.u.			Geotech	2GF113	Jun-24
pH 10.00b	9.99	s.u.	±0.15 s.u.			Geotech	3GA1134	Jan-25
SC 1000	1010	µS/cm	±5%			Ricca	4209A12	Aug-24

Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time: 1400				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
pH 4.00a	4.03	s.u.	±0.1 s.u.	P	N		MSI	023067-01	3/14/2025
pH 7.00a	7.01	s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
pH 10.00a	10.01	s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000	1020	µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)	0.02	mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)	0.0	NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

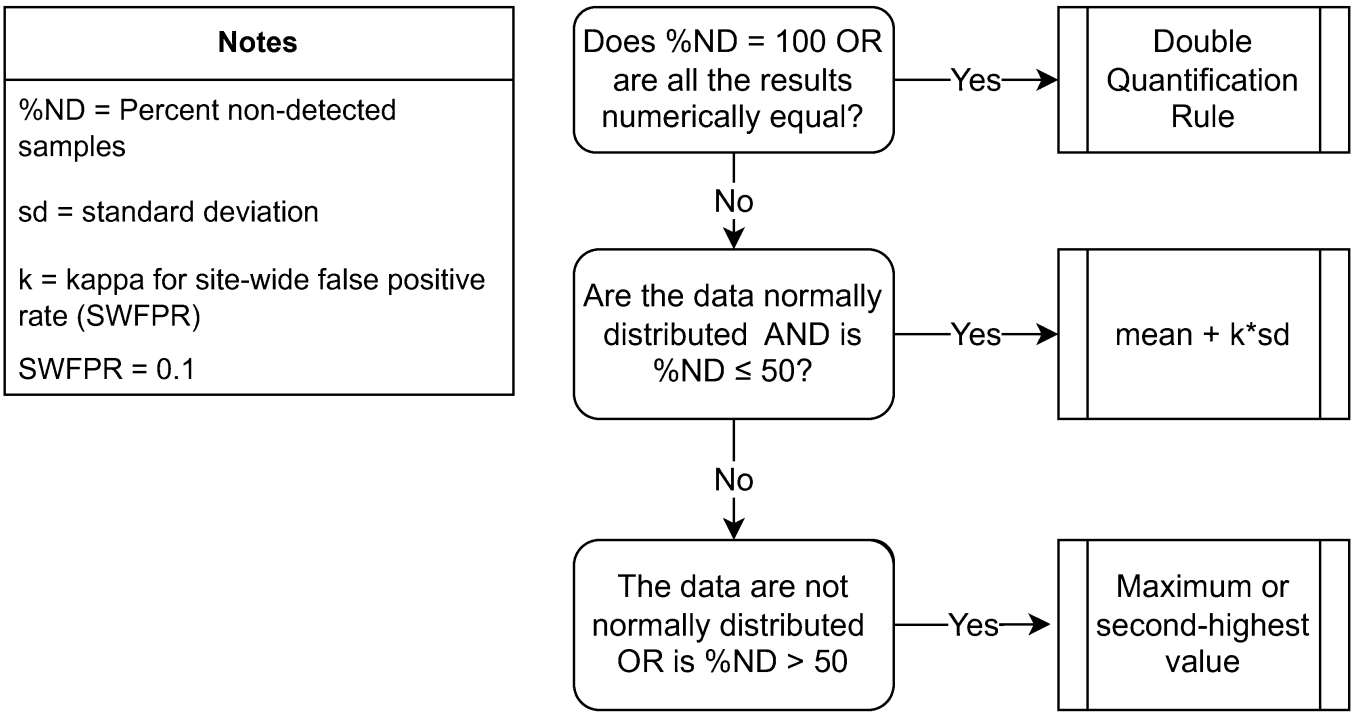
Approx. every 4 hrs, unless only one well

CCV (Continued Calibration Verification):					Time:				
Buffer	Check Value	Units	Range	Pass/Fail	Calibrate?	Adjusted Reading	Manufacturer	Lot#	Exp.
4.00a		s.u.	±0.1 s.u.				MSI	023067-01	3/14/2025
7.00a		s.u.	±0.1 s.u.				MSI	023051-02	2/21/2025
10.00a		s.u.	±0.1 s.u.				MSI	022361-01	12/27/2024
SC 1000		µS/cm	±5%				Ricca	4209A12	Aug-24
DO (Zero pt)		mg/L	±0.1 mg/L				Macron	#000228049	8/26/2025
Turbidity (DI)		NTU	<2 NTU				Pace Labs	N/A (DI)	N/A (DI)

Comments:

Signature:	Joseph R Reed	Date:	11/3/23

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.